

## APPENDIX A – Site Descriptions; Descriptive Statistics

#	Site Name	NPL Listing History	Site Type	Site Contaminants	Site Location	Site Status
1	Sayreville Landfill  Operating from 1970 to 1977	Proposed: 12/01/1982 Final: 09/01/1983	Municipal landfill covering approx. 30 acres; received municipal and light industrial waste; allegedly received hazardous waste during operations and after closure	Soil/Sediment: toluene, trichloroethylene (TCE), benzene, arsenic and chloroform Groundwater: Phenol, heavy metals including iron and manganese, VOCs, PAHs, cadmium and lead	Located in Sayreville, NJ; along tidal South River, part of site is in a wetland adjacent to South River; nearest resident is ½ mile away; municipal wells are in the vicinity	Removed drums, capped site, installed stormwater control and methane collection system; five year groundwater monitoring program implemented; Five Year Review completed May 2002
2	Cinnaminson Township Landfill  Operating from 1950s to 1980	Proposed: 10/01/1984 Final: 06/01/1986	400-acre site consisting of landfill, residential, light to heavy industrial properties; municipal, institutional, industrial wastes, including hazardous substances were deposited	Groundwater: arsenic and VOCs including chloroform, benzene, tetrachloroethylene and vinyl chloride	Located in Cinnaminson and Delran Townships of Burlington Co., NJ; the Delaware River is located approximately 5,000 feet to the northwest and U.S. Route 130 passes about 2,000 feet southwest of the site	Groundwater pump and treatment system completed in January 2000; groundwater treatment ongoing
3	Old Bethpage Landfill  Operating from 1957 to 1986	Proposed: 10/01/1981 Final: 09/01/1983	65-acre inactive municipal landfill that is part of a sanitary landfill complex; primarily used for disposing incinerator residue,	Groundwater: heavy metals including iron and manganese, VOCs Leachate: same heavy metals as above	Located in Oyster Bay, NY; situated above the Magothy Aquifer, which supplies many public wells; approx. 10,000 residents live	Installed methane gas and leachate collection systems; fully capped landfill; groundwater treatment system

			then accepted garbage, trash, solid industrial process wastes, damaged drums		within a mile of site	completed; treatment ongoing
4	CTS Printex, Inc. Operating from 1966 to 1985	Proposed: 06/24/1988 Final: 02/21/1990	5.5-acre site, manufactured printed circuit boards	Soil: copper, lead Groundwater: VOCs, heavy metals	Located in city of Mountain View, CA; 2.5 miles south of San Francisco Bay	Excavation/disposal of contaminated soil complete; groundwater treatment ongoing
5	Montrose Chemical Corp. Operating from 1947 to 1982	Proposed: 10/15/1984 Final: 10/04/1989	13-acre plant property, manufactured technical grade pesticide (DDT)	Soil: DDT, chlorobenzene, benzene hexachloride (BHC) Groundwater: DDT, chlorobenzene	Located in city of Torrance, CA; within the Harbor Gateway between Los Angeles proper and the Los Angeles Harbor	Some areas having DDT contaminated sediments have been removed or capped; site studies are ongoing; final cleanup activities being planned
6	Chem Central (Grand Rapids) Operating since 1957	Proposed: 12/30/1982 Final: 09/08/1983	2-acre facility, distributed industrial chemicals	Soil: phthalates, VOCs, PCBs Groundwater: VOCs and semi-VOCs	Located in city of Wyoming, MI; ½ mile south of Plaster Creek; one-tenth mile from the nearest residence	Five Year Review completed in 1999, found that remedy is still protective of human health and environment
7	Havertown PCP Operating from 1947 to 1981	Proposed: 12/30/1982 Final: 09/08/1983	Wood treatment facility; reportedly disposed primarily oil contaminated with pentachlorophenol (PCP) into a well leading to the groundwater under the plant, spilled liquid wastes on surface	Soil/Ground/Surface water: PCP, arsenic, dioxins, VOCs, petroleum hydrocarbons	Located near the Haverford Township in Delaware Co., PA; situated along Naylor's Run, a small stream that flows through a residential area and eventually into the Delaware River	Soils are now clean and safe; groundwater treatment plant constructed; treatment ongoing

Table 2: Descriptive Statistics for Population and Distance Variables (means; standard deviation in parentheses)<sup>a</sup>

Site	Sayreville	Cinnaminson	Bethpage	CTS Printex	Montrose	Chem Central	Havertown
Number of Tracts	93	177	147	104	271	89	216
Tract Population (1970)	3517 (1692)	4643 (2678)	5247 (1717)	3684 (1518)	4012 (1548)	3672 (1617)	4817 (2517)
Tract Population (1980)	3592 (1514)	4441 (2305)	4902 (1477)	3841 (1378)	4054 (1455)	3783 (1411)	4255 (1952)
Tract Population (1990)	3895 (1451)	4332 (2152)	4728 (1367)	4176 (1465)	4464 (1502)	4137 (1421)	4069 (1798)
Tract Population (2000)	4282 (1738)	4399 (2215)	4858 (1456)	4501 (1823)	4767 (1721)	4553 (1567)	3959 (1655)
Distance to Superfund Site	7.632 (2.758)	8.009 (2.512)	8.168 (2.564)	6.961 (3.067)	8.165 (2.715)	6.561 (2.906)	7.836 (2.799)
Direction: $\theta$ angle <sup>b</sup>	2.520 (1.911)	2.949 (2.201)	3.654 (1.863)	4.198 (1.437)	2.819 (1.674)	2.492 (1.670)	3.499 (1.213)
Distance to Business District (1)	9.300 (5.473)	14.279 (5.622)	8.902 (4.854)	18.533 (6.449)	22.233 (6.017)	6.631 (3.994)	11.073 (5.044)
Distance to Business District (2)	-	11.348 (4.714)	-	51.225 (6.485)	-	-	-
Distance to Major Road	0.324 (0.238)	0.291 (.2049)	0.330 (0.234)	0.343 (0.426)	0.278 (0.185)	0.306 (0.292)	0.339 (0.274)
Distance to Retail Center	4.576 (2.057)	6.551 (2.848)	5.673 (2.004)	9.390 (4.323)	6.521 (2.401)	5.826 (2.811)	7.127 (4.007)
Distance to Railroad	1.126 (1.068)	1.189 (1.140)	1.698 (1.218)	1.434 (0.961)	1.073 (0.997)	1.298 (1.071)	0.765 (0.900)
Distance to Transit Terminal	8.482 (5.273)	8.540 (3.859)	8.504 (2.629)	5.661 (2.775)	7.557 (4.080)	6.340 (3.695)	6.405 (3.331)
Distance to Airport	-	8.282 (4.434)	7.200 (3.129)	5.720 (3.103)	4.709 (2.380)	11.530 (4.070)	8.840 (3.461)

a. Distances are measured in kilometers, measurement is from tract centroid to feature; b. Measured in radians, counterclockwise from due east. Range from  $0 \rightarrow 2\pi$ ; c. Number of observations for regression models is four times the number of tracts

Table 3: Summary Statistics for Socio-Demographic Variables<sup>a</sup>

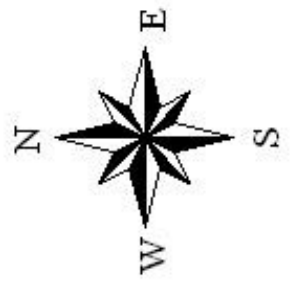
Site	Sayreville	Cinnaminson	Bethpage	CTS Printex	Montrose	Chem Central	Havertown
White	0.851 (0.170)	0.870 (0.206)	0.885 (0.213)	0.784 (0.179)	0.538 (0.320)	0.876 (0.209)	0.862 (0.198)
Black	0.074 (0.114)	0.089 (0.169)	0.081 (0.200)	0.036 (0.095)	0.222 (0.293)	0.089 (0.193)	0.074 (0.142)
Hispanic	0.058 (0.097)	0.036 (0.078)	0.044 (0.054)	0.134 (0.118)	0.322 (0.273)	0.035 (0.076)	0.024 (0.0430)
Under 6	0.083 (0.034)	0.079 (0.030)	0.078 (0.022)	0.078 (0.031)	0.101 (0.038)	0.096 (0.028)	0.087 (0.036)
Kids 6-17	0.189 (0.066)	0.193 (0.057)	0.210 (0.060)	0.172 (0.072)	0.206 (0.067)	0.210 (0.058)	0.181 (0.076)
Adults 18-64	0.624 (0.090)	0.595 (0.051)	0.615 (0.051)	0.662 (0.080)	0.606 (0.073)	0.592 (0.059)	0.625 (0.088)
Seniors (>65)	0.104 (0.105)	0.133 (0.072)	0.098 (0.042)	0.088 (0.055)	0.086 (0.056)	0.102 (0.051)	0.108 (0.068)
Married couples with kids	0.372 (0.165)	0.304 (0.138)	0.405 (0.133)	0.306 (0.149)	0.223 (0.151)	0.332 (0.139)	0.271 (0.169)
Male head with kids	0.010 (0.009)	0.013 (0.015)	0.008 (0.007)	0.013 (0.100)	0.110 (0.170)	0.012 (0.011)	0.013 (0.011)
Female head with kids	0.041 (0.032)	0.057 (0.056)	0.041 (0.033)	0.048 (0.027)	0.077 (0.073)	0.070 (0.059)	0.071 (0.057)
Married couple, no kids	0.308 (0.085)	0.307 (0.083)	0.336 (0.076)	0.284 (0.082)	0.155 (0.130)	0.274 (0.079)	0.238 (0.091)
Male head, no kids	0.020 (0.012)	0.021 (0.016)	0.019 (0.012)	0.018 (0.012)	0.084 (0.135)	0.014 (0.011)	0.016 (0.011)
Female head, no kids	0.044 (0.024)	0.059 (0.033)	0.051 (0.029)	0.036 (0.021)	0.105 (0.102)	0.036 (0.023)	0.039 (0.023)
Non-family households	0.207 (0.131)	0.239 (0.114)	0.140 (0.079)	0.295 (0.158)	0.246 (0.169)	0.262 (0.138)	0.352 (0.193)

a: Mean proportion across all census tracts, all years (standard deviations in parentheses)

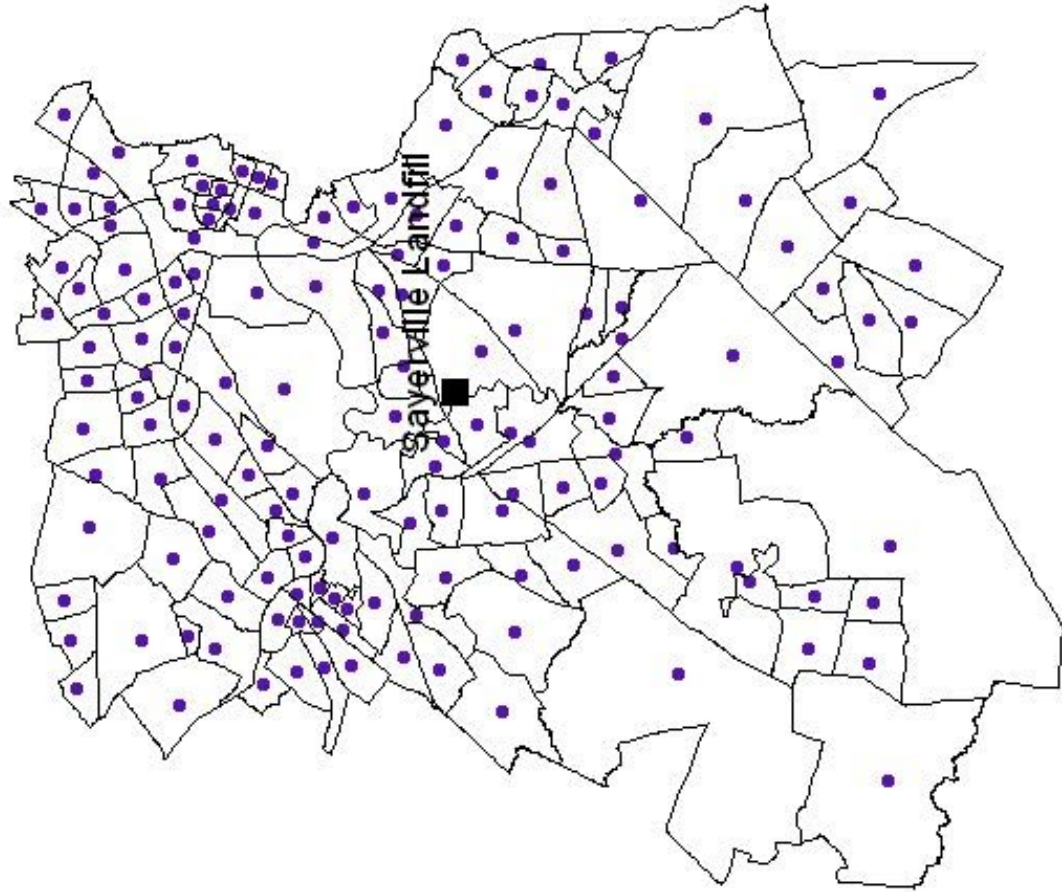
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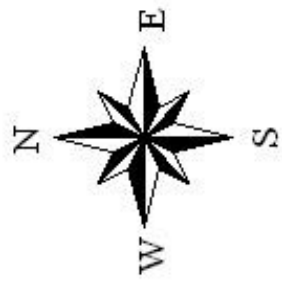
- Bethpage Landfill
- Census Tract Centroid
- Tracts



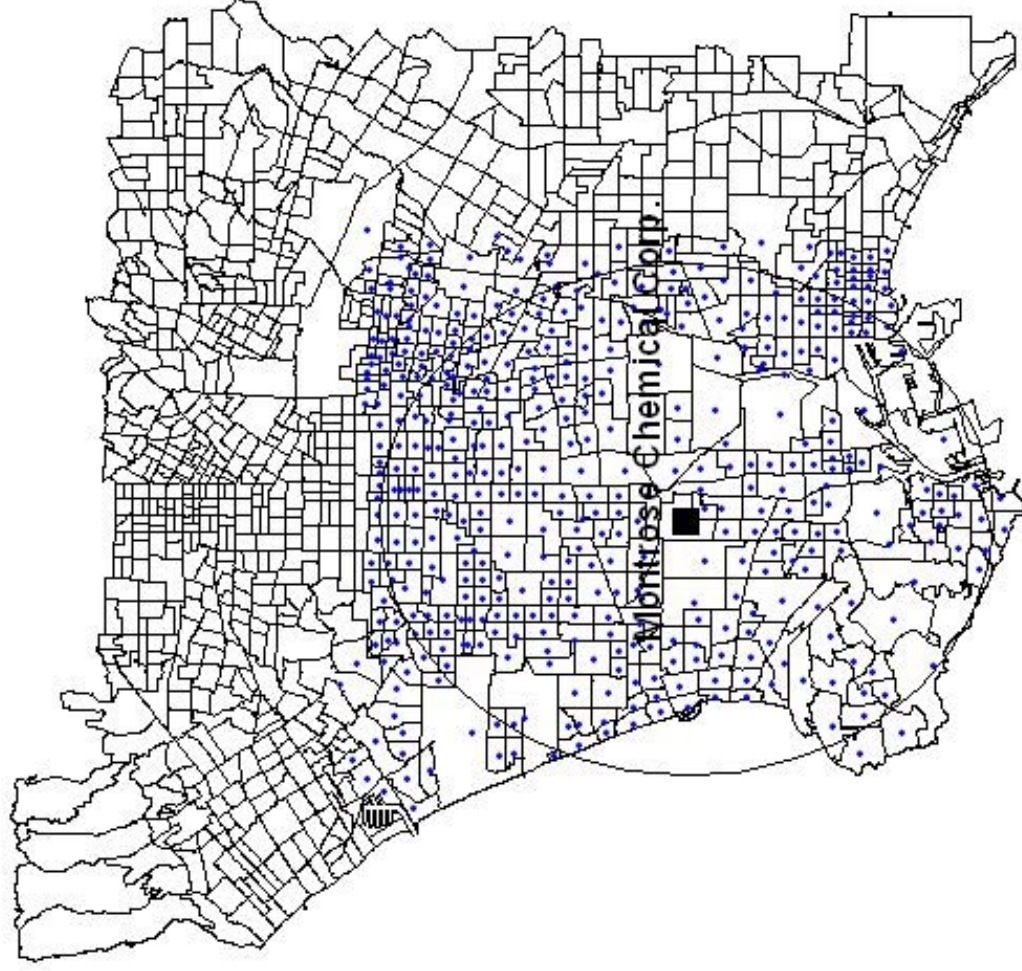
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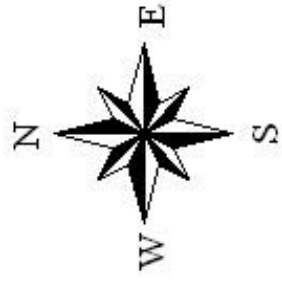
- Sayreville Landfill
- Tracts
- Census Tract Centroid



# Montrose Chemical Corp.



- Montrose Chemical Corp.
- Census Tract Centroid
- Tracts



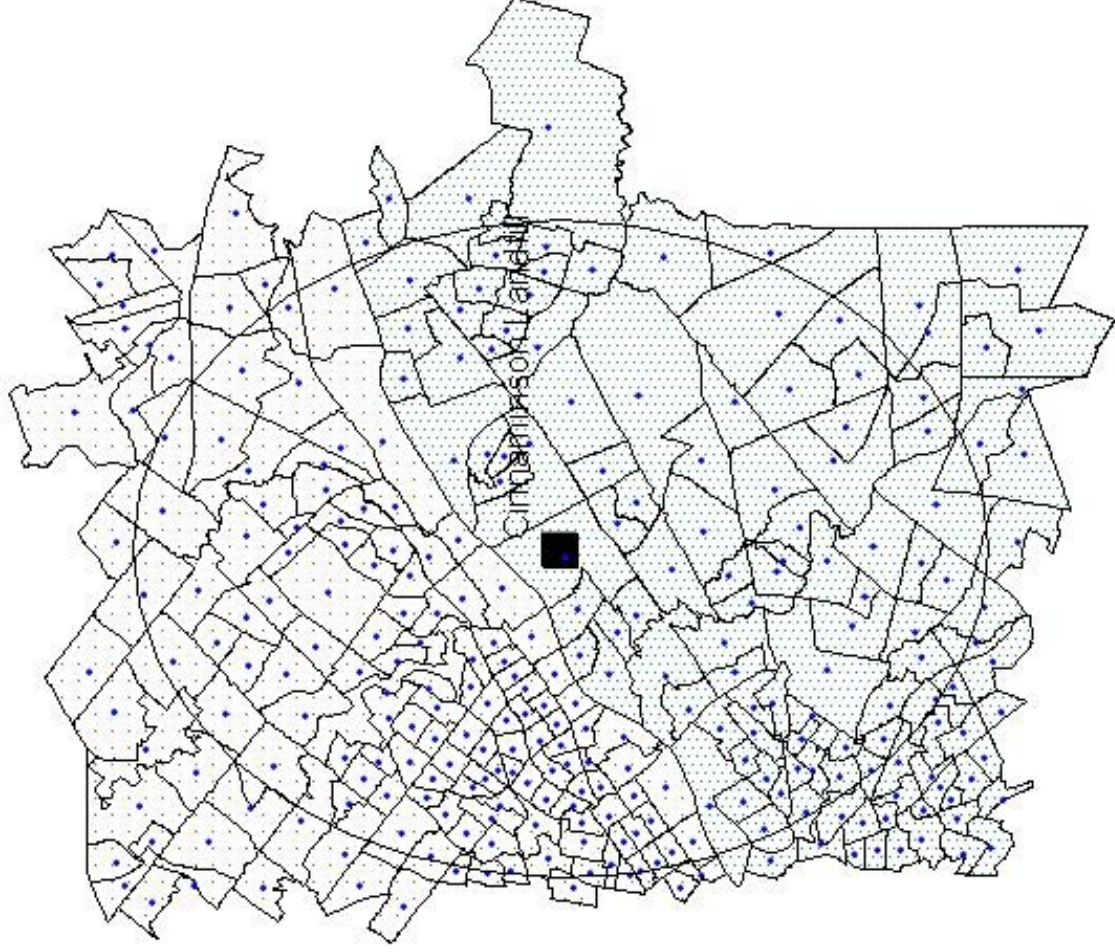
40 Kilometers

20

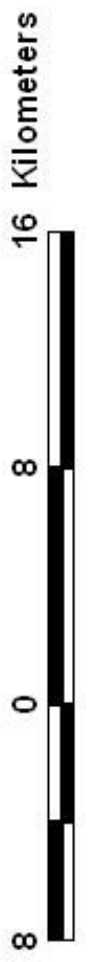
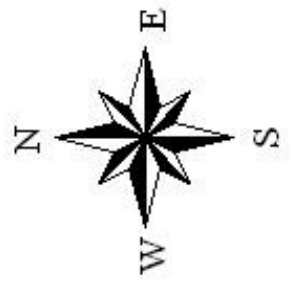
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20

# Cinnaminson Landfill

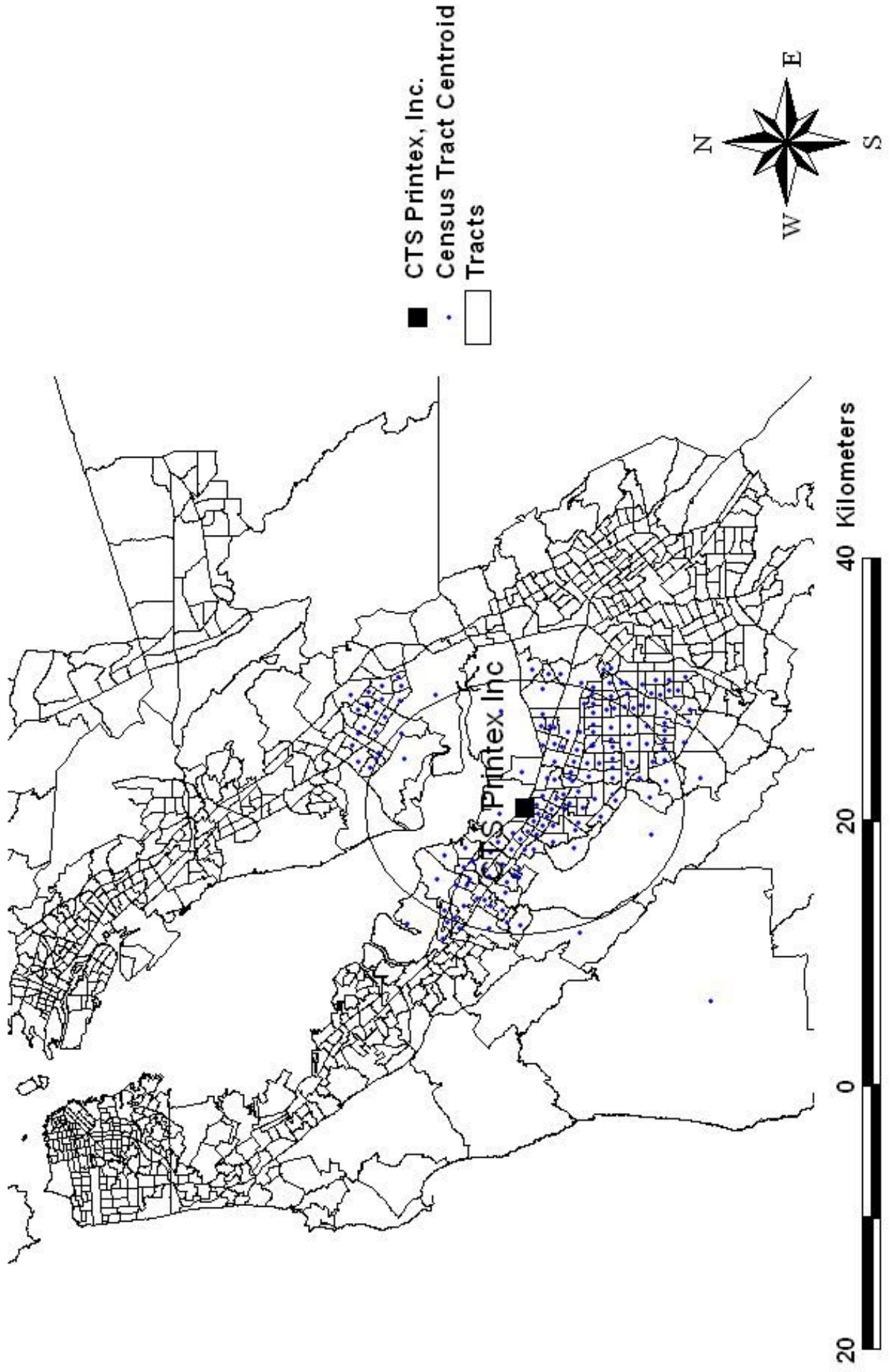


- Census Tract Centroid
- Cinnaminson Landfill
- ▨ Tracts (Pennsylvania)
- ▨ Tracts (New Jersey)

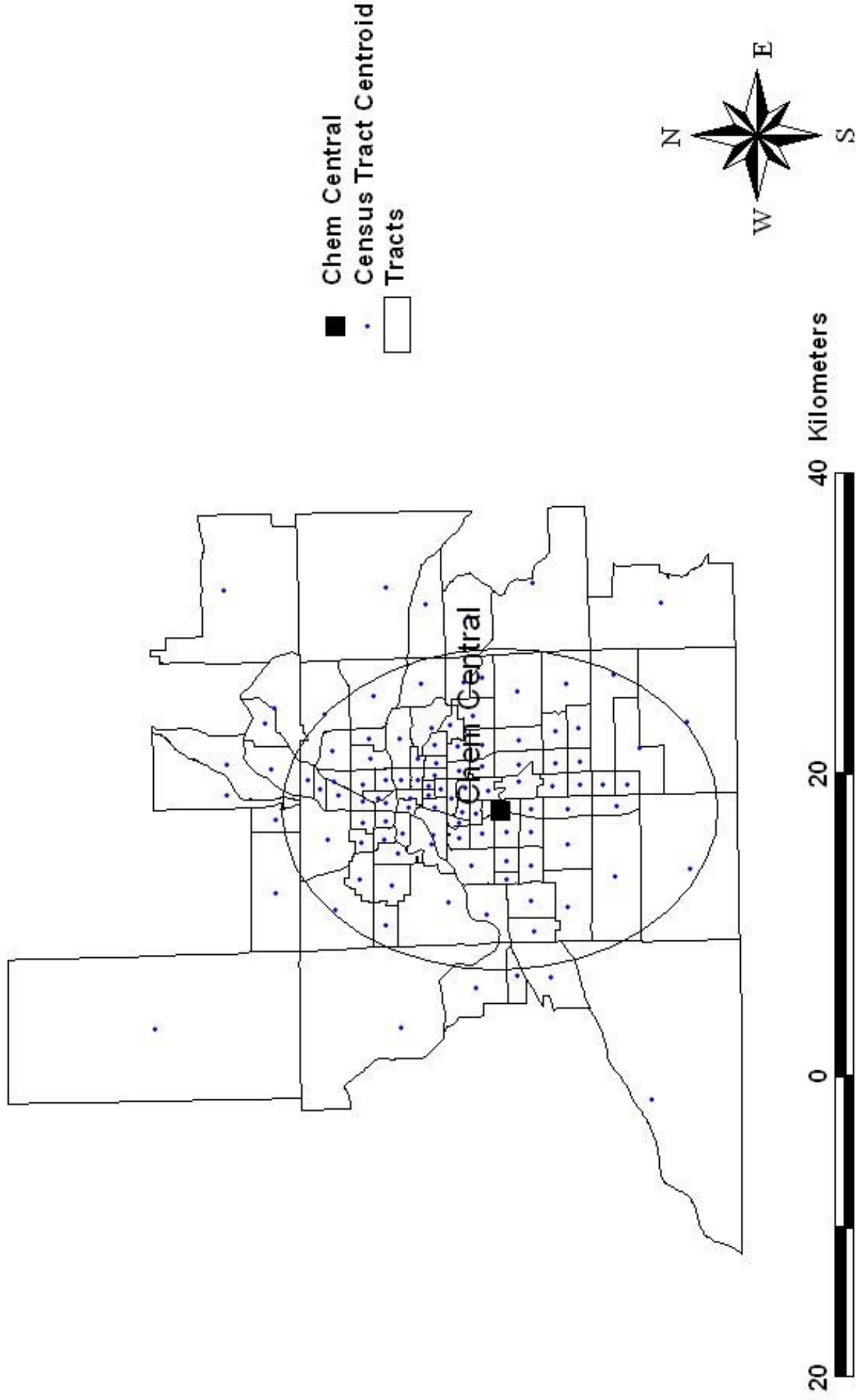




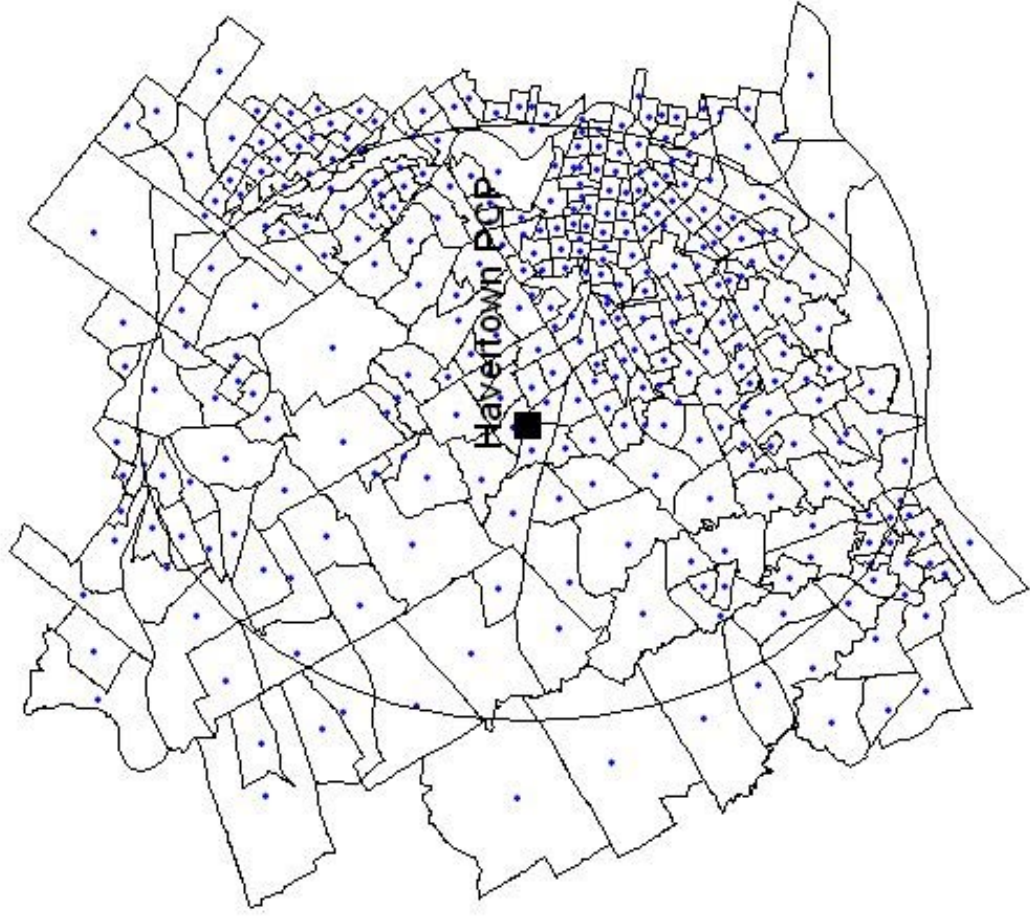
# CTS Printex, Inc.



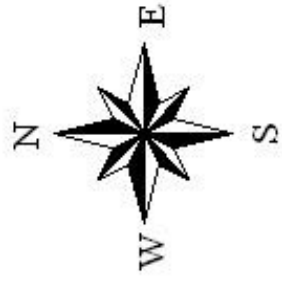
# Chem Central



# Havertown PCP



- Havertown PCP
- Census Tract Centroid
- Tracts



16 Kilometers



## Appendix B-1

### Ethnic Groups only – Intermediate Detail

#### Location 1: Sayreville Landfill (NJ)

Radius=12 km; other distance effects linear in time; Distance Aux-R2=.09

N=372, tracts=93	Share White		Share Black		Share Hispanic	
	quadratic	Linear	quadratic	linear	quadratic	linear
ln(dist)	-0.8484 (3.66)***	-0.931 (3.94)***	1.8397 (3.84)***	1.8326 (3.89)***	0.7425 (4.98)***	0.7286 (5.22)***
<b>ln(dist)*t</b>	<b>-0.2646</b> -1.4	<b>0.0397</b> -0.41	<b>-0.2092</b> -0.51	<b>-0.3266</b> <b>(1.67)*</b>	<b>-0.3066</b> <b>(1.87)*</b>	<b>-0.2722</b> <b>(4.30)***</b>
<b>ln(dist)*t2</b>	<b>0.0973</b> <b>(1.84)*</b>	-	<b>-0.0448</b> <b>-0.39</b>	-	<b>0.0106</b> <b>-0.22</b>	-
cos(theta)*ln(dist)	0.2711 (4.43)***	0.2716 (4.45)***	-0.3293 (3.89)***	-0.332 (3.93)***	-0.4091 (10.87)***	-0.4086 (10.87)***
sin(theta)*ln(dist)	-0.2055 (3.16)***	-0.2049 (3.12)***	0.235 (2.11)**	0.2408 (2.19)**	-0.0179 -0.47	-0.0179 -0.47
mean dep. var.	2.6	2.6	-4.06	-4.06	-3.29	-3.29
st. dev. dep. var.	1.93	1.93	2.55	2.55	1.36	1.36
# other vars sig @ <=5%	8	8	7	7	11	11
# other vars sig @ 5-10%	0	0	0	0	0	0
Year of quadratic min/max	1984	0	1947	0	2115	0
AR(1) rho	0.5506	0.55	0.5028	0.503	0.2634	0.2616
Log L	-350.47	-352.36	-557.64	-557.09	-281.47	-281.57

**Location 2: Cinnaminson Landfill (NJ)**

Radius=12 km; other distance effects linear in time; Distance Aux-R2=.195

N=708, tracts=177	Share White		Share Black		Share Hispanic	
	quadratic	linear	quadratic	linear	quadratic	linear
ln(dist)	0.223 (1.88)*		-0.7109 (2.56)**		1.3955 (8.15)***	
<b>ln(dist)*t</b>	<b>-1.0599</b> <b>(7.86)***</b>		<b>1.4996</b> <b>(4.57)***</b>		<b>-0.8123</b> <b>(3.47)***</b>	
<b>ln(dist)*t2</b>	<b>0.1601</b> <b>(3.82)***</b>		<b>-0.2418</b> <b>(2.40)**</b>		<b>0.206</b> <b>(2.79)***</b>	
cos(theta)*ln(dist)	1.1476 (14.54)***		-1.8781 (14.76)***		-0.651 (9.45)***	
sin(theta)*ln(dist)	-0.7709 (5.01)***		0.7358 (3.14)***		0.7046 (5.14)***	
mean dep. var.	3.19		-4.66		-4.39	
st. dev. dep. var.	2.37		3.16		1.99	
# other vars sig @ <=5%	11		8		12	
# other vars sig @ 5-10%	1		2		1	
Year of quadratic min/max	2003		2001		1990	
AR(1) rho	0.3973		0.4138		0.2305	
Log L	-934.5		-1267.54		-974.03	

### Location 3: Bethpage Landfill (NY)

Radius=12 km; other distance effects linear in time; Distance Aux-R2=.12

N=588, tracts=147	Share White		Share Black		Share Hispanic	
	quadratic	Linear	quadratic	linear	quadratic	linear
ln(dist)	-1.8525 (7.23)***	-1.854 (7.32)***	2.6435 (5.04)***	2.5697 (4.94)***	0.1832 -1.59	
<b>ln(dist)*t</b>	<b>0.3796</b> <b>(1.68)*</b>	<b>0.36</b> <b>(3.21)***</b>	<b>0.0303</b> <b>-0.06</b>	<b>0.4676</b> <b>(1.95)*</b>	<b>0.46</b> <b>(3.91)***</b>	
<b>ln(dist)*t2</b>	<b>-0.0078</b> <b>-0.12</b>	-	<b>0.154</b> <b>-1.08</b>	-	<b>-0.0716</b> <b>(2.00)**</b>	
cos(theta)*ln(dist)	0.2397 (4.71)***	0.2387 (4.68)***	-0.8992 (7.70)***	-0.9025 (7.72)***	-0.1929 (7.15)***	
sin(theta)*ln(dist)	-0.4314 (7.51)***	-0.4299 (7.44)***	0.3647 (2.75)***	0.3613 (2.74)***	0.0407 -1.26	
mean dep. var.	3.39	3.39	-6.02	-6.02	-3.43	
st. dev. dep. var.	2.25	2.25	3.34	3.34	0.89	
# other vars sig @ <=5%	6	6	4	4	5	
# other vars sig @ 5-10%	0	0	2	2	1	
Year of quadratic min/max	2213	0	1969	0	2002	
AR(1) rho	0.382	0.3836	0.4119	0.4106	0.3419	
Log L	-798.57	-798.35	-1188.37	-1188.93	-419.23	

**Location 4: CTS Printex Inc. (CA)**

Radius=12 km; other distance effects linear in time; Distance Aux-R2=.195

N=416, tracts=104	Share White		Share Black		Share Hispanic	
	quadratic	Linear	quadratic	linear	quadratic	linear
ln(dist)	1.1275 (5.88)***	1.1229 (5.89)***	-1.2919 (3.08)***		-0.5102 (3.68)***	
<b>ln(dist)*t</b>	<b>-0.3984</b> <b>(3.63)***</b>	<b>-0.392</b> <b>(4.72)***</b>	<b>0.448</b> <b>(1.69)*</b>		<b>0.1338</b> <b>(1.84)*</b>	
<b>ln(dist)*t2</b>	<b>0.0017</b> <b>-0.08</b>	-	<b>-0.1425</b> <b>(2.49)**</b>		<b>-0.0453</b> <b>(2.85)***</b>	
cos(theta)*ln(dist)	-0.2017 (1.92)*	-0.2013 (1.92)*	0.2966 -1.18		0.7218 (6.87)***	
sin(theta)*ln(dist)	-0.8265 (6.40)***	-0.827 (6.39)***	1.6143 (5.42)***		0.1395 -0.77	
mean dep. var.	1.62	1.62	-4.75		-2.34	
st. dev. dep. var.	1.28	1.28	2.5		1.04	
# other vars sig @ <=5%	9	9	3		9	
# other vars sig @ 5-10%	0	0	3		0	
Year of quadratic min/max	3135	0	1986		1985	
AR(1) rho	0.5372	0.5373	0.3583		0.6652	
Log L	-192.05	-192.06	-661.92		-206.85	

**Location 5: Montrose Chemical (CA)**

Radius=12 km; other distance effects linear in time; Distance Aux-R2=.12

N=1084, tracts=271	Share White		Share Black		Share Hispanic	
	quadratic	linear	quadratic	linear	quadratic	linear
ln(dist)	0.525 (5.65)***		1.2565 (6.23)***		-0.7666 (9.70)***	-0.7506 (9.67)***
<b>ln(dist)*t</b>	<b>-0.4041</b> <b>(4.71)***</b>		<b>-1.0863</b> <b>(5.42)***</b>		<b>0.1511</b> <b>(2.62)***</b>	<b>0.0825</b> <b>(3.06)***</b>
<b>ln(dist)*t2</b>	<b>0.1364</b> <b>(5.45)***</b>		<b>0.1535</b> <b>(2.62)***</b>		<b>-0.0214</b> <b>-1.3</b>	
cos(theta)*ln(dist)	0.2142 (6.49)***		-0.5045 (8.11)***		-0.0575 (1.91)*	-0.0586 (1.95)*
sin(theta)*ln(dist)	0.6981 (11.67)***		-0.6822 (5.90)***		-0.2024 (3.27)***	-0.2044 (3.29)***
mean dep. var.	0.29		-2.82		-1.32	-1.32
st. dev. dep. var.	2.08		3.3		1.31	1.31
# other vars sig @ <=5%	12		13		10	10
# other vars sig @ 5-10%	0		1		0	0
Year of quadratic min/max	1985		2005		2005	
AR(1) rho	0.5211		0.3824		0.7379	0.7377
Log L	-888.76		-1820.5		-553.62	-554.47



**Location 6: Chem Central (MI)**

Radius=12 km; other distance effects linear in time; Distance Aux-R2=.12

N=356, tracts=89	Share White		Share Black		Share Hispanic	
	quadratic	Linear	quadratic	linear	quadratic	linear
ln(dist)	-0.8215 (4.26)***		0.7912 (2.06)**	0.6204 (1.70)*	-0.1765 -0.98	-0.2173 -1.24
<b>ln(dist)*t</b>	<b>0.696</b> <b>(5.42)***</b>		<b>-0.7683</b> <b>(2.36)**</b>	<b>-0.248</b> <b>-1.43</b>	<b>0.0033</b> <b>-0.02</b>	<b>0.0955</b> <b>-1.02</b>
<b>ln(dist)*t2</b>	<b>-0.1464</b> <b>(4.56)***</b>		<b>0.1647</b> <b>(1.81)*</b>	-	<b>0.0304</b> <b>-0.56</b>	-
cos(theta)*ln(dist)	-0.2231 (1.75)*		0.7159 (3.32)***	0.7256 (3.40)***	-0.0445 -0.5	-0.0473 -0.52
sin(theta)*ln(dist)	0.4966 (8.56)***		-0.7775 (7.17)***	-0.7748 (7.16)***	-0.1387 (3.35)***	-0.1386 (3.32)***
mean dep. var.	2.89		-4.32	-4.32	-4.15	-4.15
st. dev. dep. var.	2.26		3.17	3.17	1.67	1.67
# other vars sig @ <=5%	9		5	5	8	8
# other vars sig @ 5-10%	0		2	1	1	1
Year of quadratic min/max	1994		1993	0	1969	0
AR(1) rho	0.4677		0.3518	0.3526	-0.1735	-0.1441
Log L	-371.56		-623.85	-625.45	-434.42	-432.6

### Location 7: Havertown PCP (PA)

Radius=12 km; other distance effects linear in time; Distance Aux-R2=.12

N=864, tracts=216	Share White		Share Black		Share Hispanic	
	quadratic	linear	quadratic	linear	quadratic	linear
ln(dist)	-2.207 (9.90)***	-2.1691 (9.46)***	3.6741 (10.85)***	3.6787 (10.85)***	0.2688 -1.26	
<b>ln(dist)*t</b>	<b>0.7627</b> <b>(4.61)***</b>	<b>0.5618</b> <b>(6.81)***</b>	<b>-1.0726</b> <b>(4.19)***</b>	<b>-0.797</b> <b>(6.48)***</b>	<b>-0.1329</b> <b>-0.55</b>	
<b>ln(dist)*t2</b>	<b>-0.068</b> <b>-1.39</b>	<b>-</b>	<b>0.0915</b> <b>-1.2</b>	<b>-</b>	<b>0.2289</b> <b>(3.06)***</b>	
cos(theta)*ln(dist)	-0.9833 (6.62)***	-0.9866 (6.73)***	0.762 (4.09)***	0.7625 (4.12)***	0.0744 -0.72	
sin(theta)*ln(dist)	-0.028 -0.25	-0.0365 -0.33	-0.2732 (1.66)*	-0.2738 (1.66)*	-0.1597 -1.6	
mean dep. var.	1.78	1.78	-3.01	-3.01	-5.62	
st. dev. dep. var.	3.51	3.51	4.06	4.06	1.93	
# other vars sig @ <=5%	11	11	13	13	6	
# other vars sig @ 5-10%	1	1	0	1	2	
Year of quadratic min/max	2026		2029		1973	
AR(1) rho	0.6897	0.6844	0.6151	0.6111	0.2127	
Log L	-1251.26	-1255.65	-1560.11	-1563.36	-1481.59	

## Appendix B-2

### Age Groups – Intermediate Detail

Location 1: Sayreville Landfill (NJ); Radius=12 km; lin. in t for other dists; Distance  
Aux-R2=.093

	<b>Under6</b>	<b>Under6</b>	<b>Kids</b>	<b>Kids</b>	<b>Adults</b>	<b>Adults</b>	<b>Seniors</b>	<b>Seniors</b>
			<b>6 to 17</b>	<b>6 to 17</b>				
	<b>Quad.</b>	<b>Linear</b>	<b>Quad.</b>	<b>Linear</b>	<b>Quad.</b>	<b>Linear</b>	<b>Quad.</b>	<b>Linear</b>
ln(dist)	0.129 (2.73)***	0.1318 (2.94)***	-0.0206 -0.42	-0.0071 -0.15	-0.0181 -0.46	-0.0367 -0.91	-0.2942 (3.51)***	-0.3097 (4.32)***
ln(dist)*t	-0.0182 -0.42	-0.0373 (1.90)*	0.0722 (1.68)*	0.0194 -0.99	-0.026 -0.76	0.0375 (2.23)**	-0.0685 -1.17	-0.0176 -0.66
ln(dist)*t2	-0.0058 -0.47		-0.0166 -1.35		0.0192 (1.96)*		0.0151 -0.93	
ldcos	0.0026 -0.17	0.0035 -0.24	0.0469 (2.99)***	0.047 (2.99)***	-0.0209 -1.62	-0.0211 -1.63	-0.0181 -0.6	-0.0173 -0.57
ldsin	0.0028 -0.16	0.0037 -0.2	0.0279 -1.38	0.0274 -1.36	-0.011 -0.74	-0.0106 -0.71	0.039 -1.22	0.0387 -1.21
Observations	372	372	372	372	372	372	372	372
Number of TRCT	93	93	93	93	93	93	93	93
mean Y	-2.48	-2.48	-1.52	-1.52	0.58	0.58	-2.43	-2.43
st.dev. Y	0.43	0.43	0.46	0.46	0.33	0.33	0.63	0.63
other 5% sig:	7	8	7	7	3	3	10	11
other 10% sig:	1	0	1	1	0	0	1	0
Min/Max yr:	1954	0	1992	0	1977	0	1993	0
AR1 rho	0.4888	0.4857	0.5713	0.5704	0.5463	0.5426	0.7016	0.7016
Log L	161.7	161.36	190.42	189.42	231.73	230.13	-6.4	-4.71

Location 2: Cinnaminson Landfill (NJ); Radius=12 km; lin. in t for other dists; Distance  
Aux-R2=.195

	<b>Under 6</b>	<b>Under 6</b>	<b>Kids</b>	<b>Kids</b>	<b>Adults</b>	<b>Adults</b>	<b>Seniors</b>	<b>Seniors</b>
			<b>6 to 17</b>	<b>6 to 17</b>				
	<b>Quad.</b>	<b>Linear</b>	<b>Quad.</b>	<b>Linear</b>	<b>Quad.</b>	<b>Linear</b>	<b>Quad.</b>	<b>Linear</b>
ln(dist)	-0.0301 -0.71	-0.0255 -0.63	-0.0315 -1.16	-0.0326 -1.17	0.0626 (3.10)***	0.0588 (2.83)***	-0.1032 (1.94)*	
ln(dist)*t	0.0435 -0.9	0.0269 -1.42	0.0211 -0.74	0.0239 (1.91)*	-0.0519 (2.21)**	-0.0215 (2.13)**	0.1365 (3.21)***	
ln(dist)*t2	-0.0055 -0.37		0.001 -0.11		0.0113 -1.55		-0.0509 (4.04)***	
ldcos	-0.0646 (4.09)***	-0.0649 (4.13)***	-0.0903 (5.86)***	-0.0903 (5.84)***	0.0074 -0.8	0.0063 -0.68	0.206 (7.37)***	
ldsin	-0.0398	-0.0395	-0.0928	-0.092	-0.0256	-0.0265	0.1506	

	-1.13	-1.12	(3.23)***	(3.16)***	-1.36	-1.36	(2.44)**
Observations	708	708	708	708	708	708	708
Number of TRCT	177	177	177	177	177	177	177
mean Y	-2.55	-2.55	-1.52	-1.52	0.39	0.39	-1.98
st.dev. Y	0.54	0.54	0.5	0.5	0.21	0.21	0.69
other 5% sig:	6	6	9	9	11	10	12
other 10% sig:	2	2	2	2	0	1	0
Min/Max yr:	2010	0	1859	0	1993	0	1983
AR1 rho	0.3479	0.3492	0.4868	0.4876	0.2619	0.2602	0.6414
Log L	149.89	150.04	309.95	310.25	520.12	519.61	-3.2

Location 3: Bethpage Landfill (NY) ; Radius=12 km; lin. in t for other dists; Distance Aux-R2=.124

	Under 6	Under 6	Kids	Kids	Adults	Adults	Seniors	Seniors
	Quad.	Linear	6 to 17	6 to 17	Quad.	Linear	Quad.	Linear
ln(dist)	0.1095 (3.38)***		-0.1264 (5.29)***		0.0045 -0.2		0.2344 (4.62)***	0.2348 (4.54)***
ln(dist)*t	0.0565 -1.6		0.1741 (6.76)***		-0.1184 (4.84)***		-0.1771 (4.11)***	-0.1827 (8.01)***
ln(dist)*t2	-0.0279 (2.57)**		-0.0373 (4.72)***		0.0509 (6.86)***		-0.0009 -0.07	
ldcos	-0.0701 (9.34)***		-0.0156 (2.47)**		0.0145 (2.58)***		0.0564 (4.09)***	0.0562 (4.06)***
ldsin	0.0005 -0.07		0.0092 -1.6		0.0086 -1.56		-0.0468 (3.81)***	-0.0465 (3.75)***
Observations	588		588		588		588	588
Number of TRCT	147		147		147		147	147
mean Y	-2.5		-1.36		0.47		-2.35	-2.35
st.dev. Y	0.28		0.37		0.22		0.55	0.55
other 5% sig:	5		8		7		10	10
other 10% sig:	2		2		0		0	0
Min/Max yr:	1980		1993		1982		944	0
AR1 rho	0.2228		0.2607		0.1797		0.5215	0.5206
Log L	310.43		395.6		536.03		114.72	114.67

Location 4: CTS Printex Inc. (CA) ; Radius=12 km; lin. in t for other dists; Distance Aux-R2=.195

	Under 6	Under 6	Kids	Kids	Adults	Adults	Seniors	Seniors
			6 to 17	6 to 17				

	Quad.	Linear	Quad.	Linear	Quad.	Linear	Quad.	Linear
ln(dist)	-0.1949 (1.79)*	-0.2104 (1.94)*	0.1864 (1.71)*	0.1606 -1.45	-0.1258 -1.4		-0.0344 -0.14	-0.0356 -0.14
ln(dist)*t	-0.0407 -0.65	0.0255 -0.54	-0.0657 -1.16	0.0036 -0.08	0.059 -1.51		-0.0259 -0.28	-0.0282 -0.36
ln(dist)*t2	0.0215 -1.58		0.0213 (1.78)*		-0.0264 (3.37)***		-0.0025 -0.15	
ldcos	0.2512 (4.35)***	0.2517 (4.36)***	-0.0476 -0.68	-0.0466 -0.66	0.0174 -0.26		-0.1076 -0.66	-0.1061 -0.64
ldsin	0.0977 -1.47	0.0981 -1.47	0.2107 (2.78)***	0.2109 (2.78)***	-0.0367 -0.51		-0.4995 (3.43)***	-0.5011 (3.41)***
Observations	416	416	416	416	416		416	416
Number of TRCT	104	104	104	104	104		104	104
mean Y	-2.66	-2.66	-1.77	-1.77	0.75		-2.55	-2.55
st.dev. Y	0.67	0.67	0.61	0.61	0.49		1.29	1.29
other 5% sig:	4	4	6	6	7		8	8
other 10% sig:	0	0	0	0	0		2	2
Min/Max yr:	1979	0	1985	0	1981		1918	0
AR1 rho	0.5241	0.5237	0.6328	0.6311	0.7365		0.7849	0.7876
Log L	45.36	44.07	50.23	48.23	170.29		-118.75	-118.48

Location 5: Montrose Chemical (CA); Radius=12 km; lin. in t for other dists; Distance Aux-R2=.124

	Under 6	Under 6	Kids	Kids	Adults	Adults	Seniors	Seniors
	Quad.	Linear	6 to 17	6 to 17	Quad.	Linear	Quad.	Linear
ln(dist)	-0.0982 (2.94)***		-0.0508 -1.44		0.0211 -0.97		0.0066 -0.1	
ln(dist)*t	0.0769 (2.74)***		0.1472 (4.81)***		-0.1089 (5.65)***		-0.1998 (3.88)***	
ln(dist)*t2	-0.025 (3.15)***		-0.0467 (5.38)***		0.0397 (7.23)***		0.0467 (3.21)***	
ldcos	-0.0367 (3.78)***		0.0046 -0.47		0.0297 (4.41)***		-0.0766 (3.89)***	
ldsin	-0.1059 (5.98)***		-0.1798 (10.05)***		0.167 (16.28)***		0.0071 -0.21	
Observations	1084		1084		1084		1084	
Number of TRCT	271		271		271		271	
mean Y	-2.28		-1.36		0.45		-2.61	
st.dev. Y	0.44		0.43		0.31		0.68	
other 5% sig:	10		11		10		11	
other 10% sig:	0		1		1		0	

Min/Max yr:	1985	1986	1984	1991
AR1 rho	0.5214	0.5011	0.4521	0.6193
Log L	280.5	270.42	743.32	-332.5

Location 6: Chem Central (MI) ; Radius=12 km; lin. in t for other dists; Distance Aux-R2=.124

	Under 6		Kids 6 to 17		Adults		Seniors	
	Quad.	Linear	Quad.	Linear	Quad.	Linear	Quad.	Linear
ln(dist)	0.1 (2.37)**	0.1056 (2.68)***	0.0059 -0.17	0.0049 -0.15	0.0423 -1.6	0.0409 -1.63	-0.3925 (4.53)***	-0.4019 (4.57)***
ln(dist)*t	-0.023 -0.73	-0.0351 (2.04)**	-0.006	-0.0162 -1.17	0.0286 -1.5	0.0155 -1.62	0.0734 -1.43	0.088 (2.63)***
ln(dist)*t2	-0.0042 -0.48		-0.0038 -0.5		-0.0049 -0.9		0.0035 -0.27	
ldcos	0.0526 (1.71)*	0.0544 (1.79)*	0.098 (2.97)***	0.0972 (2.96)***	-0.1036 (3.76)***	-0.102 (3.74)***	0.244 (3.54)***	0.2492 (3.58)***
Ldsin	-0.0981 (6.44)***	-0.0977 (6.43)***	-0.0378 (2.28)**	-0.0378 (2.28)**	-0.0318 (2.41)**	-0.0318 (2.41)**	0.2123 (6.37)***	0.2123 (6.36)***
Observations	356	356	356	356	356	356	356	356
Number of TRCT	89	89	89	89	89	89	89	89
mean Y	-2.27	-2.27	-1.41	-1.41	0.39	0.39	-2.26	-2.26
st.dev. Y	0.34	0.34	0.44	0.44	0.26	0.26	0.57	0.57
other 5% sig:	10	11	9	10	8	8	10	10
other 10% sig:	1	0	1	0	0	0	2	2
Min/Max yr:	1942	0	1962	0	1999	0	1865	0
AR1 rho	0.5149	0.5168	0.5471	0.5487	0.5994	0.5965	0.6751	0.6784
Log L	175.25	175.64	197.95	198.46	303.95	303.67	3.41	3.91

Location 7: Havertown PCP (PA) ; Radius=12 km; lin. in t for other dists; Distance Aux-R2=.124

	Under 6		Kids 6 to 17		Adults		Seniors	
	Quad.	Linear	Quad.	Linear	Quad.	Linear	Quad.	Linear
ln(dist)	-0.0226 -0.52		-0.0051 -0.13	0.0171 -0.45	-0.0063 -0.23	-0.0064 -0.23	-0.0354 -1.02	-0.039 -1.13
ln(dist)*t	-0.0166 -0.56		0.0057 -0.2	-0.041 (2.93)***	0.0514 (2.79)***	0.0477 (4.94)***	-0.0506 (1.96)*	-0.0225 (1.73)*
ln(dist)*t2	-0.0227 (2.57)**		-0.015 (1.84)*		-0.0013 -0.24		0.0085 -1.12	
ldcos	0.0271		0.0691	0.0666	0.0075	0.0074	-0.2446	-0.2485

	-0.73	(2.27)**	(2.16)**	-0.27	-0.27	(8.82)***	(8.92)***
ldsin	0.0404	-0.0266	-0.0317	0.0359	0.0357	-0.1055	-0.1043
	-1.55	-1.2	-1.44	(1.96)**	(1.94)*	(4.52)***	(4.47)***
Observations	864	864	864	864	864	864	864
Number of TRCT	216	216	216	216	216	216	216
mean Y	-2.65	-1.62	-1.62	0.47	0.47	-1.91	-1.91
st.dev. Y	0.7	0.63	0.63	0.39	0.39	0.54	0.54
other 5% sig:	7	4	5	5	5	13	12
other 10% sig:	1	1	1	0	0	0	1
Min/Max yr:	1966	1972	0	2169	0	2000	0
AR1 rho	0.655	0.6442	0.6538	0.72	0.7226	0.589	0.5897
Log L	246.38	261.06	264.93	531.04	531.74	27.15	27.22

## Appendix B-3

### Household with Children – Intermediate Detail

Location 1: Sayreville Landfill (NJ); Radius=12 km; lin. in t for other dists; Distance Aux-R2=.093

	<b>Marr. Couple</b>	<b>Marr. Couple</b>	<b>Male Head</b>	<b>Male Head</b>	<b>Female Head</b>	<b>Female Head</b>
	<b>Quad.</b>	<b>Linear</b>	<b>Quad.</b>	<b>Linear</b>	<b>Quad.</b>	<b>Linear</b>
ln(dist)	0.2386 (4.82)***	0.2362 (5.05)***	-0.2746 -1.16		-0.0445 -0.42	-0.0537 -0.52
ln(dist)*t	-0.0619 -1.55	-0.0392 (2.11)**	0.6501 (2.30)**		-0.0622 -0.54	-0.017 -0.34
ln(dist)*t2	0.007 -0.62		-0.1909 (2.26)**		0.0154 -0.45	
Ldcos	0.1789 (8.44)***	0.1782 (8.38)***	-0.0673 -1.23		-0.1496 (5.10)***	-0.1494 (5.11)***
Ldsin	0.0509 (1.78)*	0.0507 (1.77)*	0.0236 -0.39		0.0266 -0.8	0.0261 -0.79
Observations	372	372	372		372	372
Number of TRCT	93	93	93		93	93
mean Y	-0.64	-0.64	-5.25		-3.28	-3.28
st.dev. Y	0.71	0.71	1.68		0.79	0.79
other 5% sig:	11	11	1		5	5
other 10% sig:	0	0	4		1	1
Min/Max yr:	2014	0	1987		1990	0
AR1 rho	0.611	0.6143	0.178		0.2528	0.2514
Log L	96.59	97.16	-488.55		-185.03	-185.11

Location 2: Cinnaminson Landfill (NJ); Radius=12 km; lin. in t for other dists; Distance Aux-R2=.195

	<b>Marr. Couple</b>	<b>Marr. Couple</b>	<b>Male Head</b>	<b>Male Head</b>	<b>Female Head</b>	<b>Female Head</b>
	<b>Quad.</b>	<b>Linear</b>	<b>Quad.</b>	<b>Linear</b>	<b>Quad.</b>	<b>Linear</b>
ln(dist)	-0.0412 -0.81	-0.0463 -1.05	0.0857 -0.38	0.2175 -1.02	0.1832 (1.99)**	0.1558 (1.78)*
ln(dist)*t	0.0591 -1.16	0.0302 -1.6	0.3707 -1.34	-0.0873 -0.8	-0.1314 -1.23	-0.0223 -0.54
ln(dist)*t2	-0.0111 -0.71		-0.1539 (1.80)*		0.0361 -1.09	
Ldcos	-0.0813 (3.32)***	-0.0775 (3.21)***	-0.268 (4.86)***	-0.2669 (4.78)***	-0.1912 (5.33)***	-0.1915 (5.42)***
Ldsin	-0.1316	-0.1322	0.3492	0.3448	0.1713	0.1694



	(2.88)***	(3.05)***	(3.06)***	(2.96)***	(2.50)**	(2.51)**
Observations	708	708	708	708	708	708
Number of TRCT	177	177	177	177	177	177
mean Y	-0.96	-0.96	-5.08	-5.08	-3.12	-3.12
st.dev. Y	0.74	0.74	1.86	1.86	1.02	1.02
other 5% sig:	11	11	4	4	7	7
other 10% sig:	0	0	1	2	2	2
Min/Max yr:	1997	0	1982	0	1988	0
AR1 rho	0.5116	0.5167	0.1695	0.1672	0.3409	0.3306
Log L	30.99	33.36	-961.03	-964.23	-408.9	-410.47

Location 3: Bethpage Landfill (NY) ; Radius=12 km; lin. in t for other dists; Distance Aux-R2=.124

	<b>Marr. Couple</b>	<b>Marr. Couple</b>	<b>Male Head</b>	<b>Male Head</b>	<b>Female Head</b>	<b>Female Head</b>
	<b>Quad.</b>	<b>Linear</b>	<b>Quad.</b>	<b>Linear</b>	<b>Quad.</b>	<b>Linear</b>
ln(dist)	-0.3349 (10.13)***	-0.11	0.0276 -0.02	-0.0044	0.3409 (4.58)***	0.3415 (4.87)***
ln(dist)*t	0.2798 (7.94)***		0.0004 0	0.1087 -0.9	0.0421 -0.68	0.0166 -0.48
ln(dist)*t2	-0.0568 (5.22)***		0.0386 -0.51		-0.0079 -0.45	
Ldcos	0.014 -1.4		-0.3019 (5.42)***	-0.3022 (5.43)***	-0.1066 (5.09)***	-0.107 (5.12)***
Ldsin	0.0139 -1.04		-0.1186 (1.69)*	-0.1194 (1.70)*	0.0272 -1.2	0.0247 -1.1
Observations	588		588	588	588	588
Number of TRCT	147		147	147	147	147
mean Y	-0.39		-5.47	-5.47	-3.38	-3.38
st.dev. Y	0.58		1.7	1.7	0.75	0.75
other 5% sig:	10		1	1	4	4
other 10% sig:	1		0	0	1	1
Min/Max yr:	1995		1970	0	1997	0
AR1 rho	0.4046		0.0983	0.0989	0.3354	0.3347
Log L	140.86		-945.4	-945.47	-260.09	-259.75

Location 4: CTS Printex Inc. (CA) ; Radius=12 km; lin. in t for other dists; Distance Aux-R2=.195

	<b>Marr. Couple</b>	<b>Marr. Couple</b>	<b>Male Head</b>	<b>Male Head</b>	<b>Female Head</b>	<b>Female Head</b>
	<b>Quad.</b>	<b>Linear</b>	<b>Quad.</b>	<b>Linear</b>	<b>Quad.</b>	<b>Linear</b>
ln(dist)	0.5235 (3.36)***		0.0163 -0.04	-0.0556 -0.16	-0.6487 (3.48)***	-0.7 (3.73)***
ln(dist)*t	-0.2359 (2.95)***		0.1228 -0.48	0.0465 -0.27	0.0056 -0.05	0.1434 -1.6
ln(dist)*t2	0.0393 (2.49)**		-0.0333 -0.55		0.0452 (1.68)*	
Ldcos	-0.0395 -0.46		0.3092 (1.92)*	0.3 (1.84)*	0.1848 (2.32)**	0.1871 (2.36)**
Ldsin	0.2213 (2.52)**		-0.1716 -0.97	-0.1487 -0.83	0.2362 (2.52)**	0.2317 (2.49)**
Observations	416		416	416	416	416
Number of TRCT	104		104	104	104	104
mean Y	-1.05		-4.98	-4.98	-3.3	-3.3
st.dev. Y	0.76		1.51	1.51	0.99	0.99
other 5% sig:	8		3	2	4	4
other 10% sig:	1		5	5	3	2
Min/Max yr:	2000		1988	0	1969	0
AR1 rho	0.581		0.1684	0.1735	0.2698	0.2677
Log L	-85.8		-492.91	-490.85	-206.18	-207.18

Location 5: Montrose Chemical (CA); Radius=12 km; lin. in t for other dists; Distance Aux-R2=.124

	<b>Marr. Couple</b>	<b>Marr. Couple</b>	<b>Male Head</b>	<b>Male Head</b>	<b>Female Head</b>	<b>Female Head</b>
	<b>Quad.</b>	<b>Linear</b>	<b>Quad.</b>	<b>Linear</b>	<b>Quad.</b>	<b>Linear</b>
ln(dist)	-2.0841 (13.93)***		1.0341 (7.93)***	1.0028 (8.08)***	-0.4306 (7.04)***	
ln(dist)*t	1.0179 (5.72)***		-0.5348 (3.45)***	-0.4252 (6.97)***	0.3604 (6.14)***	
ln(dist)*t2	-0.1311 (2.44)**		0.0364 -0.78		-0.1 (5.93)***	
Ldcos	-0.0867 -1.62		-0.0271 -0.97	-0.0275 -0.98	0.1645 (8.52)***	
Ldsin	-1.1033 (9.54)***		0.5891 (9.13)***	0.5872 (9.08)***	-0.6162 (14.44)***	
Observations	1084		1084	1084	1084	
Number of TRCT	271		271	271	271	
mean Y	-2.43		-2.97	-2.97	-3.09	
st.dev. Y	2.82		1.89	1.89	1.32	
other 5% sig:	12		13	13	7	

other 10% sig:	0	0	0	0
Min/Max yr:	2009	2043	0	1988
AR1 rho	0.1745	0.1467	0.1463	0.3216
Log L	-1957.6	-1343.71	-1344.38	-825.01

Location 6: Chem Central (MI) ; Radius=12 km; lin. in t for other dists; Distance Aux-R2=.124

	<b>Marr. Couple</b>	<b>Marr. Couple</b>	<b>Male Head</b>	<b>Male Head</b>	<b>Female Head</b>	<b>Female Head</b>
	<b>Quad.</b>	<b>Linear</b>	<b>Quad.</b>	<b>Linear</b>	<b>Quad.</b>	<b>Linear</b>
ln(dist)	0.0158	0.0146	0.6422	0.578	-0.0571	-0.058
	-0.3	-0.28	(2.69)***	(2.51)**	-0.49	-0.51
ln(dist)*t	-0.0797	-0.0724	-0.4684	-0.2463	0.0747	0.0763
	(2.05)**	(3.51)***	(1.97)**	(2.14)**	-0.96	-1.54
ln(dist)*t2	0.0024		0.072		0.0003	
	-0.22		-1.05		-0.02	
ldcos	0.1085	0.1084	0.0126	0.0144	0.2818	0.2835
	(2.03)**	(2.03)**	-0.09	-0.11	(4.28)***	(4.33)***
ldsin	0.0756	0.0756	-0.1	-0.0967	-0.2363	-0.2362
	(3.06)***	(3.06)***	-1.52	-1.47	(7.32)***	(7.33)***
Observations	356	356	356	356	356	356
Number of TRCT	89	89	89	89	89	89
mean Y	-0.9	-0.9	-5.03	-5.03	-2.72	-2.72
st.dev. Y	0.74	0.74	1.65	1.65	0.78	0.78
other 5% sig:	10	10	3	3	10	9
other 10% sig:	2	2	3	2	0	1
Min/Max yr:	2136	0	2003	0	760	0
AR1 rho	0.5472	0.5475	0.1801	0.177	0.5077	0.5075
Log L	43.68	43.72	-466.5	-466.75	-102.08	-101.95

Location 7: Havertown PCP (PA) ; Radius=12 km; lin. in t for other dists; Distance Aux-R2=.124

	<b>Marr. Couple</b>	<b>Marr. Couple</b>	<b>Male Head</b>	<b>Male Head</b>	<b>Female Head</b>	<b>Female Head</b>
	<b>Quad.</b>	<b>Linear</b>	<b>Quad.</b>	<b>Linear</b>	<b>Quad.</b>	<b>Linear</b>
ln(dist)	-0.1579		-0.1878		0.0732	
	(3.84)***		-1.09		-1.08	
ln(dist)*t	0.0007		0.5887		0.2096	
	-0.02		(2.61)***		(3.48)***	
ln(dist)*t2	-0.021		-0.2305		-0.0713	

	(2.25)**	(3.20)***	(3.91)***
Ldcos	-0.0983	0.3814	0.2278
	(2.94)***	(4.32)***	(5.21)***
Ldsin	-0.0542	0.2547	0.0144
	(2.23)**	(4.04)***	-0.41
Observations	864	864	864
Number of TRCT	216	216	216
mean Y	-1.3	-5.34	-3.07
st.dev. Y	0.91	1.84	1.18
other 5% sig:	10	7	9
other 10% sig:	1	1	1
Min/Max yr:	1970	1983	1985
AR1 rho	0.6056	0.0943	0.4156
Log L	15.25	-1266.12	-494.51

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## Appendix B-4

### Household Structure - Households without Children – Intermediate Detail

Location 1: Sayreville Landfill (NJ); Radius=12 km; lin. in t for other dists; Distance  
Aux-R2=.093

	<b>Marr. Couple</b>	<b>Marr. Couple</b>	<b>Male Head</b>	<b>Male Head</b>	<b>Female Head</b>	<b>Female Head</b>	<b>Non- Family</b>	<b>Non- Family</b>
	<b>Quad.</b>	<b>Linear</b>	<b>Quad.</b>	<b>Linear</b>	<b>Quad.</b>	<b>Linear</b>	<b>Quad.</b>	<b>Linear</b>
ln(dist)	-0.0534		-0.404	-0.4109	-0.3925	-0.4392	-0.1162	
	-1.12		(3.31)***	(3.47)***	(5.86)***	(7.90)***	(2.10)**	
ln(dist)*t	-0.143		0.0392	0.0807	-0.0145	0.12	0.0906	
	(3.05)***		-0.31	-1.48	-0.19	(4.34)***	(1.95)*	
ln(dist)*t2	0.0508		0.0135		0.0424		-0.0349	
	(3.75)***		-0.38		(1.83)*		(2.63)***	
Ldcos	0.096		-0.0599	-0.0599	-0.1315	-0.1334	-0.2138	
	(5.83)***		(2.01)**	(2.01)**	(6.07)***	(6.31)***	(6.83)***	
Ldsin	0.0948		0.0539	0.0526	0.1342	0.1361	-0.0956	
	(5.27)***		(1.69)*	(1.65)*	(5.52)***	(5.73)***	(2.70)***	
Observations	372		372	372	372	372	372	
Number of TRCT	93		93	93	93	93	93	
mean Y	-0.88		-4.09	-4.09	-3.16	-3.16	-1.47	
st.dev. Y	0.4		1.09	1.09	0.71	0.71	0.87	
other 5% sig:	7		6	6	9	9	9	
other 10% sig:	1		0	0	1	1	0	
Min/Max yr:	1984		1955	0	1972	0	1983	
AR1 rho	0.4008		0.202	0.2022	0.2073	0.18	0.6143	
Log L	105.24		-227.95	-227.39	-113.56	-114.47	-43.63	

Location 2: Cinnaminson Landfill (NJ); Radius=12 km; lin. in t for other dists; Distance  
Aux-R2=.195

	<b>Marr. Couple</b>	<b>Marr. Couple</b>	<b>Male Head</b>	<b>Male Head</b>	<b>Female Head</b>	<b>Female Head</b>	<b>Non- Family</b>	<b>Non- Family</b>
	<b>Quad.</b>	<b>Linear</b>	<b>Quad.</b>	<b>Linear</b>	<b>Quad.</b>	<b>Linear</b>	<b>Quad.</b>	<b>Linear</b>
ln(dist)	0.0765		-0.1834	-0.1428	-0.097		-0.2544	
	(1.67)*		(1.93)*	(1.68)*	-1.55		(4.44)***	
ln(dist)*t	-0.1635		0.2542	0.0736	-0.1611		0.224	
	(3.52)***		(2.22)**	(1.74)*	(2.20)**		(4.23)***	
ln(dist)*t2	0.0285		-0.0589		0.0523		-0.0579	
	(2.04)**		(1.68)*		(2.32)**		(3.64)***	
Ldcos	0.0725		0.015	0.0153	0.1106		0.3028	

	(3.47)***	-0.46	-0.49	(4.32)***	(10.82)***
Ldsin	0.016	0.1793	0.1711	0.0627	-0.0373
	-0.46	(2.66)***	(2.60)***	-1.33	-0.67
Observations	708	708	708	708	708
Number of TRCT	177	177	177	177	177
mean Y	-0.86	-4.13	-4.13	-2.92	-1.28
st.dev. Y	0.43	1.29	1.29	0.96	0.88
other 5% sig:	11	8	8	7	11
other 10% sig:	0	1	0	1	0
Min/Max yr:	1999	1992	0	1985	1989
AR1 rho	0.5002	0.1716	0.1675	0.2731	0.5675
Log L	146.99	-476.69	-474.2	-140.42	-44.14

Location 3: Bethpage Landfill (NY) ; Radius=12 km; lin. in t for other dists; Distance  
Aux-R2=.124

	<b>Marr. Couple</b>	<b>Marr. Couple</b>	<b>Male Head</b>	<b>Male Head</b>	<b>Female Head</b>	<b>Female Head</b>	<b>Non- Family</b>	<b>Non- Family</b>
	<b>Quad.</b>	<b>Linear</b>	<b>Quad.</b>	<b>Linear</b>	<b>Quad.</b>	<b>Linear</b>	<b>Quad.</b>	<b>Linear</b>
ln(dist)	0.174		0.1949	0.1679	0.6321		0.7234	0.6993
	(4.52)***		(2.41)**	(2.19)**	(7.21)***		(10.24)***	(9.82)***
ln(dist)*t	-0.3337		-0.1193	-0.0135	-0.4585		-0.2796	-0.1647
	(8.87)***		-1.14	-0.33	(5.04)***		(4.13)***	(5.10)***
ln(dist)*t2	0.0613		0.0365		0.098		0.0374	
	(5.37)***		-1.1		(3.57)***		(1.82)*	
Ldcos	0.0721		-0.082	-0.0818	-0.0639		-0.0938	-0.092
	(8.05)***		(3.03)***	(3.03)***	(4.33)***		(5.56)***	(5.44)***
Ldsin	-0.0159		-0.0383	-0.0385	-0.0209		0.001	0.0014
	-1.44		-1.29	-1.29	-1.08		-0.05	-0.07
Observations	588		588	588	588		588	588
Number of TRCT	147		147	147	147		147	147
mean Y	-0.7		-4.16	-4.16	-3.11		-2.04	-2.04
st.dev. Y	0.36		0.96	0.96	0.89		0.8	0.8
other 5% sig:	10		5	5	11		11	11
other 10% sig:	0		1	0	2		0	0
Min/Max yr:	1997		1986	0	1993		2007	0
AR1 rho	0.3636		0.1682	0.1683	0.2068		0.4852	0.486
Log L	198.91		-448.67	-449.23	-243.41		-118.6	-119.86

Location 4: CTS Printex Inc. (CA) ; Radius=12 km; lin. in t for other dists; Distance  
Aux-R2=.195

	Marr. Couple	Marr. Couple	Male Head	Male Head	Female Head	Female Head	Non- Family	Non- Family
	Quad.	Linear	Quad.	Linear	Quad.	Linear	Quad.	Linear
ln(dist)	0.025		-1.1453		-0.1982	-0.2389	-0.744	
	-0.17		(5.26)***		-1.01	-1.23	(4.36)***	
ln(dist)*t	0.2286		0.5833		-0.0159	0.0801	0.3358	
	(2.92)***		(4.04)***		-0.13	-0.86	(4.27)***	
ln(dist)*t2	-0.0484		-0.0728		0.0307		-0.0514	
	(3.01)***		(2.26)**		-1.14		(3.16)***	
Ldcos	0.0945		0.265		0.2165	0.2199	-0.2303	
	-1.42		(2.34)**		(2.71)***	(2.76)***	(2.13)**	
Ldsin	-0.3088		-0.0089		-0.1334	-0.1365	-0.1171	
	(5.01)***		-0.06		-1.55	-1.57	-1.17	
Observations	416		416		416	416	416	
Number of TRCT	104		104		104	104	104	
mean Y	-0.96		-4.56		-3.58	-3.58	-0.9	
st.dev. Y	0.63		1.4		1.11	1.11	1.11	
other 5% sig:	9		9		8	8	4	
other 10% sig:	2		1		0	0	4	
Min/Max yr:	1994		2010		1973	0	2003	
AR1 rho	0.4654		0.1614		0.1748	0.1785	0.673	
Log L	5.17		-379.8		-214.98	-215.36	-107.11	

Location 5: Montrose Chemical (CA); Radius=12 km; lin. in t for other dists; Distance  
Aux-R2=.124

	Marr. Couple	Marr. Couple	Male Head	Male Head	Female Head	Female Head	Non- Family	Non- Family
	Quad.	Linear	Quad.	Linear	Quad.	Linear	Quad.	Linear
ln(dist)	-1.3522		0.7051		0.0464		-0.0476	
	(5.38)***		(5.48)***		-1.22		-0.58	
ln(dist)*t	-0.1708		-0.8217		0.2828		-0.2472	
	-0.52		(4.88)***		(7.02)***		(2.32)**	
ln(dist)*t2	0.1131		0.1739		-0.0562		0.1	
	-1.12		(3.36)***		(4.73)***		(3.06)***	
Ldcos	-0.0694		-0.1975		0.0212		-0.0002	
	-1.44		(7.00)***		-1.09		-0.01	
Ldsin	-1.2025		0.5065		0.2941		0.051	
	(10.93)***		(8.21)***		(7.47)***		-1.12	

Observations	1084	1084	1084	1084	1084
Number of TRCT	271	271	271	271	271
mean Y	-3.02	-3.02	-3.11	-2.54	-1.47
st.dev. Y	2.61	2.61	1.47	1.21	1.17
other 5% sig:	9	10	8	7	14
other 10% sig:	1	1	0	1	0
Min/Max yr:	1978	0	1994	1995	1982
AR1 rho	-0.1287	-0.1292	-0.016	0.3313	0.0971
Log L	-2058	-2059.01	-1365.3	-707.74	-899.25

Location 6: Chem Central (MI) ; Radius=12 km; lin. in t for other dists; Distance Aux-R2=.124

	<b>Marr. Couple</b>	<b>Marr. Couple</b>	<b>Male Head</b>	<b>Male Head</b>	<b>Female Head</b>	<b>Female Head</b>	<b>Non- Family</b>	<b>Non- Family</b>
	<b>Quad.</b>	<b>Linear</b>	<b>Quad.</b>	<b>Linear</b>	<b>Quad.</b>	<b>Linear</b>	<b>Quad.</b>	<b>Linear</b>
ln(dist)	-0.28 (5.26)***	-0.2783 (5.39)***	-0.1591 -0.89	-0.1223 -0.72	-0.1974 (4.36)***	-0.2 (4.10)***	0.058 -0.74	0.0586 -0.75
ln(dist)*t	0.0183	0.0159	0.1297	0.0148	-0.0391	0.0037	0.0386	0.0485
	-0.49	-0.8	-0.64	-0.17	-0.77	-0.15	-0.72	-1.46
ln(dist)*t2	-0.0004		-0.0374		0.015		0.0039	
	-0.04		-0.62		-0.97		-0.28	
Ldcos	0.1814 (3.98)***	0.1816 (4.02)***	0.1481 -1.27	0.1471 -1.25	0.2764 (7.26)***	0.2767 (7.21)***	-0.1486 (2.16)**	-0.1454 (2.11)**
Ldsin	0.1215 (5.25)***	0.1219 (5.27)***	-0.0751 -1.5	-0.0757 -1.51	-0.0019 -0.08	-0.0028 -0.12	-0.0535 (1.80)*	-0.0536 (1.80)*
Observations	356	356	356	356	356	356	356	356
Number of TRCT	89	89	89	89	89	89	89	89
mean Y	-1.08	-1.08	-4.72	-4.72	-3.39	-3.39	-1.04	-1.04
st.dev. Y	0.49	0.49	1.42	1.42	0.71	0.71	0.79	0.79
other 5% sig:	11	11	3	3	7	6	9	9
other 10% sig:	0	0	0	0	1	3	1	1
Min/Max yr:	2173	0	1987	0	1983	0	1921	0
AR1 rho	0.6662	0.6656	0.0532	0.0555	0.1097	0.1054	0.5359	0.5351
Log L	139.7	139.81	-390.69	-390.81	-105.21	-105.8	-2.34	-2.68



Location 7: Havertown PCP (PA) ; Radius=12 km; lin. in t for other dists; Distance  
 Aux-R2=.124

	<b>Marr. Couple</b>	<b>Marr. Couple</b>	<b>Male Head</b>	<b>Male Head</b>	<b>Female Head</b>	<b>Female Head</b>	<b>Non- Family</b>	<b>Non- Family</b>
	<b>Quad.</b>	<b>Linear</b>	<b>Quad.</b>	<b>Linear</b>	<b>Quad.</b>	<b>Linear</b>	<b>Quad.</b>	<b>Linear</b>
ln(dist)	-0.1056 (4.85)***		-0.1112 -1.58	-0.0857 -1.31	-0.0592 -1.15	-0.0598 -1.18	0.2242 (4.77)***	0.2171 (4.75)***
ln(dist)*t	-0.1025 (5.46)***		0.0177 -0.22	-0.0341 -1.12	-0.0282 -0.62	-0.0328 -1.61	-0.0024 -0.08	0.0346 (2.21)**
ln(dist)*t2	0.0288 (5.16)***		-0.0154 -0.6		-0.0011 -0.08		0.0119 -1.29	
Ldcos	-0.1705 (8.98)***		-0.056 -1.29	-0.0619 -1.42	-0.0728 (1.85)*	-0.0719 (1.83)*	-0.1036 (2.48)**	-0.1039 (2.48)**
Ldsin	-0.0473 (3.33)***		-0.0444 -1.22	-0.0452 -1.24	-0.0457 -1.44	-0.0446 -1.41	0.0267 -0.86	0.0267 -0.86
Observations	864		864	864	864	864	864	864
Number of TRCT	216		216	216	216	216	216	216
mean Y	-1		-4.07	-4.07	-2.77	-2.77	-0.95	-0.95
st.dev. Y	0.66		1.16	1.16	0.92	0.92	0.85	0.85
other 5% sig:	11		6	6	13	13	6	6
other 10% sig:	1		0	0	1	1	1	2
Min/Max yr:	1988		1976	0	1838	0	1971	0
AR1 rho	0.4343		0.1924	0.1922	0.4953	0.4962	0.6952	0.6969
Log L	219.42		-632.37	-632.6	-218.61	-218.39	3.25	3.33

# Appendix C-1

## Detailed Regression Results for Ethnicity Shares

### 1 Sayerville Landfill (NJ)

#### 1.1 Share White

##### 1.1.1 Quadratic Specification

model for shrwht for site 4, xs/ts with hetero, xscorr  
(sum of wgt is 1.4218e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.5506)

Estimated covariances	=	93	Number of obs	=	372
Estimated autocorrelations	=	1	Number of groups	=	93
Estimated coefficients	=	19	Time periods	=	4
Log likelihood	=	-350.4677	Wald chi2(18)	=	2298.81
			Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.8483888	.231908	-3.66	0.000	-1.30292	-.3938575
ld_t	-.2646255	.189289	-1.40	0.162	-.6356252	.1063741
ld_t2	.0973031	.0527448	1.84	0.065	-.0060748	.2006809
ldcos	.2711479	.061197	4.43	0.000	.1512041	.3910918
ldsin	-.2054902	.0651215	-3.16	0.002	-.333126	-.0778544
y1980	-.7044483	.2941315	-2.40	0.017	-1.280935	-.1279612
y1990	-1.29611	.4517469	-2.87	0.004	-2.181518	-.4107023
y2000	-2.202221	.5840212	-3.77	0.000	-3.346881	-1.05756
ldc1	1.803242	.1503603	11.99	0.000	1.508541	2.097943
ldc1_t	-.2793365	.058494	-4.78	0.000	-.3939826	-.1646904
ldrd	.036532	.0766504	0.48	0.634	-.1137002	.1867641
ldrd_t	-.009962	.0321567	-0.31	0.757	-.072988	.0530639
ldrt	.2122552	.1631975	1.30	0.193	-.107606	.5321164
ldrt_t	.0685767	.0681268	1.01	0.314	-.0649494	.2021028
ldrr	-.4285132	.069245	-6.19	0.000	-.5642309	-.2927954
ldrr_t	.0897932	.0279277	3.22	0.001	.0350559	.1445305
ldtt	-.4792935	.2094401	-2.29	0.022	-.8897886	-.0687984
ldtt_t	.0901929	.0737289	1.22	0.221	-.054313	.2346988
_cons	2.700963	.5370748	5.03	0.000	1.648316	3.75361

## 1.1.2 Linear Specification

model for shrwht for site 4, xs/ts with hetero, xscorr  
(sum of wgt is 1.4218e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.5500)

Estimated covariances	=	93	Number of obs	=	372
Estimated autocorrelations	=	1	Number of groups	=	93
Estimated coefficients	=	18	Time periods	=	4
			Wald chi2(17)	=	2116.63
Log likelihood	=	-352.3567	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.9309865	.2363809	-3.94	0.000	-1.394284	-.4676884
ld_t	.0397478	.0979764	0.41	0.685	-.1522824	.2317779
ldcos	.2715906	.0609633	4.45	0.000	.1521047	.3910766
ldsin	-.2048585	.0657079	-3.12	0.002	-.3336436	-.0760735
y1980	-1.116335	.2041059	-5.47	0.000	-1.516375	-.7162949
y1990	-1.751244	.3985913	-4.39	0.000	-2.532468	-.9700192
y2000	-2.312921	.5940392	-3.89	0.000	-3.477217	-1.148626
ldc1	1.802799	.1541031	11.70	0.000	1.500763	2.104836
ldc1_t	-.2786536	.0600266	-4.64	0.000	-.3963037	-.1610036
ldrd	.0376427	.0773557	0.49	0.627	-.1139718	.1892571
ldrd_t	-.0094777	.0324878	-0.29	0.770	-.0731526	.0541973
ldrt	.207786	.1642164	1.27	0.206	-.1140723	.5296443
ldrt_t	.0725178	.0684997	1.06	0.290	-.0617391	.2067747
ldrr	-.426864	.0697743	-6.12	0.000	-.5636192	-.2901088
ldrr_t	.0880361	.0282283	3.12	0.002	.0327097	.1433625
ldtt	-.4851936	.2123805	-2.28	0.022	-.9014517	-.0689355
ldtt_t	.0942942	.0748758	1.26	0.208	-.0524597	.241048
_cons	2.878269	.5382947	5.35	0.000	1.82323	3.933307

## 1.2 Share Black

### 1.2.1 Quadratic Specification

model for shrblk for site 4, xs/ts with hetero, xscorr  
(sum of wgt is 1.4218e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.5028)

```

Estimated covariances      =          93      Number of obs      =          372
Estimated autocorrelations =           1      Number of groups   =           93
Estimated coefficients     =          19      Time periods      =           4
Log likelihood             = -557.6388     Wald chi2(18)     =        611.78
                          =                Prob > chi2     =         0.0000

```

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	1.839715	.4796999	3.84	0.000	.8995206	2.77991
ld_t	-.2091988	.4072811	-0.51	0.607	-1.007455	.5890576
ld_t2	-.0447565	.1147888	-0.39	0.697	-.2697385	.1802255
ldcos	-.3292539	.0846073	-3.89	0.000	-.4950812	-.1634266
ldsin	.2350012	.1111407	2.11	0.034	.0171693	.452833
y1980	1.242084	.6200992	2.00	0.045	.0267119	2.457456
y1990	1.995809	.9033523	2.21	0.027	.2252714	3.766347
y2000	2.918004	1.11013	2.63	0.009	.7421894	5.09382
ldc1	-2.116377	.2523213	-8.39	0.000	-2.610918	-1.621837
ldc1_t	.339533	.0920185	3.69	0.000	.15918	.519886
ldrd	-.1861687	.1313707	-1.42	0.156	-.4436505	.0713131
ldrd_t	.0434558	.0552899	0.79	0.432	-.0649104	.151822
ldrt	.1442182	.308261	0.47	0.640	-.4599622	.7483986
ldrt_t	-.0928976	.1285962	-0.72	0.470	-.3449415	.1591463
ldrr	.6730541	.1191475	5.65	0.000	.4395293	.906579
ldrr_t	-.1764575	.0478876	-3.68	0.000	-.2703155	-.0825995
ldtt	.4249641	.3194938	1.33	0.183	-.2012322	1.05116
ldtt_t	-.0610387	.1155093	-0.53	0.597	-.2874327	.1653554
_cons	-5.408071	.9234353	-5.86	0.000	-7.217971	-3.598171

## 1.2.2 Linear Specification

model for shrblk for site 4, xs/ts with hetero, xscorr  
(sum of wgt is 1.4218e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.5030)

```

Estimated covariances      =          93      Number of obs      =          372
Estimated autocorrelations =           1      Number of groups   =           93
Estimated coefficients     =          18      Time periods      =           4
Log likelihood             = -557.0874     Wald chi2(17)     =        641.22
                          =                Prob > chi2     =         0.0000

```

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	1.832606	.4705976	3.89	0.000	.9102513	2.75496
ld_t	-.3265673	.1956715	-1.67	0.095	-.7100764	.0569417
ldcos	-.3319831	.0843866	-3.93	0.000	-.4973779	-.1665883
ldsin	.2408217	.1100801	2.19	0.029	.0250687	.4565747
y1980	1.38501	.3768606	3.68	0.000	.6463768	2.123643

y1990		2.096602	.7388814	2.84	0.005	.6484209	3.544783
y2000		2.776375	1.104569	2.51	0.012	.611459	4.941291
ldc1		-2.121742	.2466637	-8.60	0.000	-2.605194	-1.63829
ldc1_t		.3451579	.0895854	3.85	0.000	.1695738	.5207421
ldrd		-.1686504	.1280496	-1.32	0.188	-.419623	.0823223
ldrd_t		.0360091	.0539123	0.67	0.504	-.0696571	.1416753
ldrt		.1478087	.3080164	0.48	0.631	-.4558923	.7515098
ldrt_t		-.097104	.1281302	-0.76	0.449	-.3482345	.1540265
ldrr		.6749234	.1168977	5.77	0.000	.445808	.9040387
ldrr_t		-.1741594	.0470928	-3.70	0.000	-.2664597	-.0818591
ldtt		.4215579	.3144059	1.34	0.180	-.1946664	1.037782
ldtt_t		-.0628904	.1128997	-0.56	0.577	-.2841696	.1583889
_cons		-5.359893	.9003613	-5.95	0.000	-7.124569	-3.595218

## 1.3 Share Hispanic

### 1.3.1 Quadratic Specification

model for shrhsp for site 4, xs/ts with hetero, xscorr  
(sum of wgt is 1.4218e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.2634)

Estimated covariances	=	93	Number of obs	=	372
Estimated autocorrelations	=	1	Number of groups	=	93
Estimated coefficients	=	19	Time periods	=	4
			Wald chi2(18)	=	1073.09
Log likelihood	=	-281.4688	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld	.7425457	.1489786	4.98	0.000	.4505531 1.034538
ld_t	-.3066085	.1638802	-1.87	0.061	-.6278078 .0145907
ld_t2	.01058	.0480076	0.22	0.826	-.0835131 .1046731
ldcos	-.4090759	.0376368	-10.87	0.000	-.4828427 -.3353092
ldsin	-.0178653	.0379936	-0.47	0.638	-.0923313 .0566007
y1980	.6598032	.2478632	2.66	0.008	.1740002 1.145606
y1990	1.736834	.3397987	5.11	0.000	1.070841 2.402827
y2000	2.717561	.3886224	6.99	0.000	1.955875 3.479246
ldc1	-.6062314	.1103713	-5.49	0.000	-.8225552 -.3899076
ldc1_t	-.2213268	.0458144	-4.83	0.000	-.3111213 -.1315323
ldrd	.15992	.0553288	2.89	0.004	.0514776 .2683625
ldrd_t	-.0981176	.0258351	-3.80	0.000	-.1487535 -.0474818
ldrt	-.1955695	.0964898	-2.03	0.043	-.3846861 -.006453
ldrt_t	.1322786	.0446572	2.96	0.003	.0447522 .219805
ldrr	.1986654	.0472524	4.20	0.000	.1060524 .2912785
ldrr_t	-.0592726	.0212412	-2.79	0.005	-.1009046 -.0176406

ldtt		-.1815582	.1294457	-1.40	0.161	-.4352671	.0721507
ldtt_t		.0818808	.0511867	1.60	0.110	-.0184432	.1822049
_cons		-2.964561	.3337749	-8.88	0.000	-3.618748	-2.310374

### 1.3.2 Linear Specification

model for shrhsp for site 4, xs/ts with hetero, xscorr  
(sum of wgt is 1.4218e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.2616)

Estimated covariances	=	93	Number of obs	=	372
Estimated autocorrelations	=	1	Number of groups	=	93
Estimated coefficients	=	18	Time periods	=	4
			Wald chi2(17)	=	1070.58
Log likelihood	=	-281.5702	Prob > chi2	=	0.0000

depvar		Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld		.7286364	.1395634	5.22	0.000	.4550972 1.002176
ld_t		-.2722486	.0633328	-4.30	0.000	-.3963787 -.1481186
ldcos		-.4085977	.0375886	-10.87	0.000	-.4822699 -.3349255
ldsin		-.017897	.03797	-0.47	0.637	-.0923169 .0565228
y1980		.6128245	.1370272	4.47	0.000	.3442562 .8813928
y1990		1.685424	.2609424	6.46	0.000	1.173987 2.196862
y2000		2.704088	.3870235	6.99	0.000	1.945536 3.46264
ldc1		-.6061121	.1108379	-5.47	0.000	-.8233504 -.3888738
ldc1_t		-.2219395	.0461246	-4.81	0.000	-.3123421 -.1315369
ldrdr		.15987	.0552905	2.89	0.004	.0515026 .2682373
ldrdr_t		-.0981375	.0258386	-3.80	0.000	-.1487803 -.0474947
ldrdr_t		-.1954351	.0964023	-2.03	0.043	-.3843802 -.00649
ldrdr_t		.1315256	.0446545	2.95	0.003	.0440044 .2190467
ldrdr		.1978912	.0472178	4.19	0.000	.1053461 .2904364
ldrdr_t		-.0590217	.0212441	-2.78	0.005	-.1006595 -.017384
ldtt		-.1808842	.1299699	-1.39	0.164	-.4356205 .073852
ldtt_t		.0825602	.05147	1.60	0.109	-.0183192 .1834396
_cons		-2.937923	.3187588	-9.22	0.000	-3.562679 -2.313167

## 2 Cinnaminson Landfill (NJ)

### 2.1 Share White

#### 2.1.1 Quadratic Specification

model for shrwht for site 5, xs/ts with hetero, xscorr  
(sum of wgt is 3.1536e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.3973)

Estimated covariances	=	177	Number of obs	=	708
Estimated autocorrelations	=	1	Number of groups	=	177
Estimated coefficients	=	23	Time periods	=	4
			Wald chi2(22)	=	2390.21
Log likelihood	=	-934.5046	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	.2230295	.1188958	1.88	0.061	-.010002	.456061
ld_t	-1.059906	.134777	-7.86	0.000	-1.324064	-.795748
ld_t2	.1601327	.0419582	3.82	0.000	.0778962	.2423693
ldcos	1.147615	.0789152	14.54	0.000	.9929443	1.302286
ldsin	-.7708896	.1537224	-5.01	0.000	-1.07218	-.4695991
y1980	-1.095771	.320814	-3.42	0.001	-1.724555	-.4669876
y1990	-2.178572	.5731986	-3.80	0.000	-3.302021	-1.055124
y2000	-4.241029	.8223215	-5.16	0.000	-5.85275	-2.629308
ldap	-.489146	.1239432	-3.95	0.000	-.7320701	-.2462219
ldap_t	.2078934	.0466686	4.45	0.000	.1164247	.2993621
ldc1	2.226538	.3770206	5.91	0.000	1.487591	2.965485
ldc1_t	.7671582	.1447145	5.30	0.000	.4835231	1.050793
ldc2	.6685549	.2204979	3.03	0.002	.2363869	1.100723
ldc2_t	-.2243306	.0821508	-2.73	0.006	-.3853433	-.063318
ldrd	.0103869	.0629844	0.16	0.869	-.1130603	.1338341
ldrd_t	-.0097775	.030569	-0.32	0.749	-.0696917	.0501367
ldrt	-.4410515	.1200379	-3.67	0.000	-.6763214	-.2057816
ldrt_t	-.2043984	.0517609	-3.95	0.000	-.3058479	-.1029488
ldrr	-.0863667	.0620719	-1.39	0.164	-.2080253	.035292
ldrr_t	-.0195191	.029275	-0.67	0.505	-.076897	.0378588
ldtt	.4322998	.2479679	1.74	0.081	-.0537084	.9183079
ldtt_t	-.0115593	.0830545	-0.14	0.889	-.1743432	.1512246
_cons	-2.867442	1.236454	-2.32	0.020	-5.290847	-.444037

## 2.2 Share Black

### 2.2.1 Quadratic Specification

model for shrblk for site 5, xs/ts with hetero, xscorr  
(sum of wgt is 3.1536e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (0.4138)

Estimated covariances	=	177	Number of obs	=	708
Estimated autocorrelations	=	1	Number of groups	=	177
Estimated coefficients	=	23	Time periods	=	4
			Wald chi2(22)	=	1402.56
Log likelihood	=	-1267.543	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.7108707	.2772965	-2.56	0.010	-1.254362	-.1673794
ld_t	1.499646	.3278587	4.57	0.000	.8570552	2.142238
ld_t2	-.241814	.1009267	-2.40	0.017	-.4396267	-.0440013
ldcos	-1.87812	.1272152	-14.76	0.000	-2.127457	-1.628783
ldsin	.7357814	.2342844	3.14	0.002	.2765924	1.19497
y1980	1.008846	.63679	1.58	0.113	-.23924	2.256931
y1990	2.08716	1.031327	2.02	0.043	.0657967	4.108523
y2000	4.545145	1.398165	3.25	0.001	1.804793	7.285497
ldap	.5078172	.2069515	2.45	0.014	.1021998	.9134346
ldap_t	-.4349672	.0754887	-5.76	0.000	-.5829223	-.2870121
ldc1	-3.576724	.6185816	-5.78	0.000	-4.789121	-2.364326
ldc1_t	-.6913544	.2325262	-2.97	0.003	-1.147097	-.2356115
ldc2	-.5882635	.337236	-1.74	0.081	-1.249234	.072707
ldc2_t	.1164236	.1291957	0.90	0.368	-.1367953	.3696424
ldrdr	.0242898	.1317585	0.18	0.854	-.2339522	.2825318
ldrdr_t	-.0008173	.0630888	-0.01	0.990	-.1244691	.1228344
ldrtr	-.3274129	.2140806	-1.53	0.126	-.7470032	.0921774
ldrtr_t	.6401191	.0937949	6.82	0.000	.4562846	.8239537
ldrr	.2056107	.1136493	1.81	0.070	-.0171378	.4283592
ldrr_t	-.0464667	.052722	-0.88	0.378	-.1497998	.0568665
ldtt	.2541222	.3517442	0.72	0.470	-.4352837	.9435281
ldtt_t	-.2935852	.1240344	-2.37	0.018	-.5366882	-.0504823
_cons	5.875202	1.933764	3.04	0.002	2.085094	9.665309

## 2.3 Share Hispanic

### 2.3.1 Quadratic Specification

model for shrhsp for site 5, xs/ts with hetero, xscorr  
(sum of wgt is 3.1536e+06)



Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (0.2305)

Estimated covariances	=	177	Number of obs	=	708
Estimated autocorrelations	=	1	Number of groups	=	177
Estimated coefficients	=	23	Time periods	=	4
Log likelihood	=	-974.0323	Wald chi2(22)	=	787.21
			Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	1.395468	.1712122	8.15	0.000	1.059898	1.731038
ld_t	-.812304	.2340031	-3.47	0.001	-1.270942	-.3536662
ld_t2	.2060388	.0737326	2.79	0.005	.0615256	.350552
ldcos	-.65104	.0689218	-9.45	0.000	-.7861243	-.5159557
ldsin	.7045909	.1370649	5.14	0.000	.4359487	.9732331
y1980	2.865136	.441785	6.49	0.000	1.999254	3.731019
y1990	4.967627	.7049383	7.05	0.000	3.585973	6.34928
y2000	6.446407	.9535123	6.76	0.000	4.577557	8.315256
ldap	-.160932	.1124883	-1.43	0.153	-.3814049	.059541
ldap_t	.0804406	.0477971	1.68	0.092	-.0132399	.1741211
ldc1	-1.85714	.3522847	-5.27	0.000	-2.547605	-1.166674
ldc1_t	-.8556922	.1488288	-5.75	0.000	-1.147391	-.5639931
ldc2	-.6157856	.2487579	-2.48	0.013	-1.103342	-.1282291
ldc2_t	.3917932	.1054997	3.71	0.000	.1850176	.5985689
ldrdrd	-.1283182	.064662	-1.98	0.047	-.2550535	-.001583
ldrdrd_t	.0374792	.0328427	1.14	0.254	-.0268913	.1018498
ldrdrdt	.4873613	.1279424	3.81	0.000	.2365989	.7381237
ldrdrdt_t	-.0234384	.0589618	-0.40	0.691	-.1390013	.0921246
ldrdr	.2758694	.0652503	4.23	0.000	.1479812	.4037577
ldrdr_t	-.0776788	.0321416	-2.42	0.016	-.1406751	-.0146825
ldtt	-.6467853	.2300297	-2.81	0.005	-1.097635	-.1959354
ldtt_t	.0724342	.0917006	0.79	0.430	-.1072957	.2521642
_cons	-.5962581	1.108195	-0.54	0.591	-2.76828	1.575763

### 3 Bethpage Landfill (NY)

#### 3.1 Share White

##### 3.1.1 Quadratic Specification

model for shrwht for site 6, xs/ts with hetero, xscorr  
(sum of wgt is 2.9014e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.3820)

Estimated covariances	=	147	Number of obs	=	588
Estimated autocorrelations	=	1	Number of groups	=	147
Estimated coefficients	=	21	Time periods	=	4
Log likelihood	=	-798.5693	Wald chi2(20)	=	1549.14
			Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-1.852474	.2561679	-7.23	0.000	-2.354554	-1.350395
ld_t	.3795515	.2263824	1.68	0.094	-.0641498	.8232527
ld_t2	-.0078184	.0669455	-0.12	0.907	-.1390292	.1233924
ldcos	.2397415	.0509376	4.71	0.000	.1399055	.3395774
ldsin	-.4313736	.0574734	-7.51	0.000	-.5440194	-.3187278
y1980	-.4080952	.3816422	-1.07	0.285	-1.1561	.3399097
y1990	-.6930785	.5928694	-1.17	0.242	-1.855081	.4689242
y2000	-.8156678	.7853108	-1.04	0.299	-2.354849	.723513
ldap	.9897969	.1939505	5.10	0.000	.6096609	1.369933
ldap_t	-.2958134	.0710144	-4.17	0.000	-.434999	-.1566278
ldcl	.535861	.1312899	4.08	0.000	.2785375	.7931845
ldcl_t	.0307798	.0505347	0.61	0.542	-.0682664	.129826
ldrd	.0741669	.058601	1.27	0.206	-.0406888	.1890227
ldrd_t	.0181977	.0289464	0.63	0.530	-.0385363	.0749317
ldrt	.2669408	.1700516	1.57	0.116	-.0663542	.6002359
ldrt_t	-.0629669	.078833	-0.80	0.424	-.2174768	.0915429
ldrr	.466545	.0620043	7.52	0.000	.3450188	.5880711
ldrr_t	-.0020165	.0285278	-0.07	0.944	-.0579301	.053897
ldtt	1.361557	.2180706	6.24	0.000	.934146	1.788967
ldtt_t	-.2984132	.0968357	-3.08	0.002	-.4882076	-.1086188
_cons	2.15096	.558259	3.85	0.000	1.056792	3.245127

##### 3.1.2 Linear Specification

model for shrwht for site 6, xs/ts with hetero, xscorr  
(sum of wgt is 2.9014e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.3836)

Estimated covariances	=	147	Number of obs	=	588
Estimated autocorrelations	=	1	Number of groups	=	147
Estimated coefficients	=	20	Time periods	=	4
Log likelihood	=	-798.3471	Wald chi2(19)	=	1545.86
			Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-1.854033	.2532149	-7.32	0.000	-2.350326	-1.357741
ld_t	.3600036	.1122793	3.21	0.001	.1399402	.580067
ldcos	.2387483	.0510365	4.68	0.000	.1387186	.338778
ldsin	-.4299324	.057748	-7.44	0.000	-.5431164	-.3167484
y1980	-.3790911	.2684614	-1.41	0.158	-.9052658	.1470837
y1990	-.6671967	.5272743	-1.27	0.206	-1.700635	.3662419
y2000	-.8260728	.786328	-1.05	0.293	-2.367247	.7151017
ldap	.9913806	.1939978	5.11	0.000	.6111519	1.371609
ldap_t	-.2961074	.0709665	-4.17	0.000	-.4351993	-.1570156
ldc1	.5353185	.131523	4.07	0.000	.2775382	.7930989
ldc1_t	.0302631	.0505716	0.60	0.550	-.0688554	.1293816
ldrd	.0739921	.0586922	1.26	0.207	-.0410426	.1890268
ldrd_t	.0180569	.028972	0.62	0.533	-.0387273	.074841
ldrt	.2658244	.1702366	1.56	0.118	-.0678332	.5994819
ldrt_t	-.062602	.0788346	-0.79	0.427	-.2171151	.091911
ldrr	.4658343	.0620853	7.50	0.000	.3441494	.5875192
ldrr_t	-.0016728	.0285444	-0.06	0.953	-.0576189	.0542732
ldtt	1.369321	.2188807	6.26	0.000	.9403224	1.798319
ldtt_t	-.30019	.0970378	-3.09	0.002	-.4903806	-.1099993
_cons	2.137851	.5507666	3.88	0.000	1.058369	3.217334

## 3.2 Share Black

### 3.2.1 Quadratic Specification

model for shrblk for site 6, xs/ts with hetero, xscorr  
(sum of wgt is 2.9014e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.4119)

Estimated covariances	=	147	Number of obs	=	588
Estimated autocorrelations	=	1	Number of groups	=	147
Estimated coefficients	=	21	Time periods	=	4
Log likelihood	=	-1188.373	Wald chi2(20)	=	897.39
			Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	2.643541	.524491	5.04	0.000	1.615558	3.671524
ld_t	.0302879	.4811943	0.06	0.950	-.9128357	.9734114
ld_t2	.1540077	.1426218	1.08	0.280	-.1255259	.4335413
ldcos	-.8992389	.1167728	-7.70	0.000	-1.128109	-.6703683
ldsin	.3646744	.1324459	2.75	0.006	.1050851	.6242637
y1980	.4715075	.8347358	0.56	0.572	-1.164545	2.107559
y1990	.6636796	1.326366	0.50	0.617	-1.935951	3.26331
y2000	-.9492883	1.782713	-0.53	0.594	-4.443341	2.544764
ldap	-.9434394	.3513282	-2.69	0.007	-1.63203	-.2548488
ldap_t	-.0040957	.1342567	-0.03	0.976	-.267234	.2590426
ldcl	-.9497553	.2976422	-3.19	0.001	-1.533123	-.3663874
ldcl_t	-.0311812	.1150913	-0.27	0.786	-.256756	.1943935
ldrdr	-.1220081	.1428364	-0.85	0.393	-.4019623	.1579462
ldrdr_t	-.046823	.0688375	-0.68	0.496	-.1817421	.088096
ldrdr_t	-.5809818	.3093679	-1.88	0.060	-1.187332	.025368
ldrdr_t	.1997439	.1404065	1.42	0.155	-.0754478	.4749356
ldrr	-1.004146	.1255707	-8.00	0.000	-1.25026	-.7580322
ldrr_t	-.0507723	.0580076	-0.88	0.381	-.164465	.0629204
ldtt	-2.752435	.4922118	-5.59	0.000	-3.717152	-1.787718
ldtt_t	-.3656236	.205867	-1.78	0.076	-.7691156	.0378684
_cons	-1.685228	1.304347	-1.29	0.196	-4.241701	.8712453

### 3.2.2 Linear Specification

model for shrblk for site 6, xs/ts with hetero, xscorr  
(sum of wgt is 2.9014e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.4106)

Estimated covariances	=	147	Number of obs	=	588
Estimated autocorrelations	=	1	Number of groups	=	147
Estimated coefficients	=	20	Time periods	=	4
Log likelihood	=	-1188.929	Wald chi2(19)	=	896.24
			Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	2.569734	.520627	4.94	0.000	1.549324	3.590145
ld_t	.4676461	.2403088	1.95	0.052	-.0033505	.9386426
ldcos	-.9025456	.1169731	-7.72	0.000	-1.131809	-.6732825
ldsin	.3613145	.1320423	2.74	0.006	.1025164	.6201126
y1980	-.1496852	.6034047	-0.25	0.804	-1.332337	1.032966
y1990	.0184792	1.186295	0.02	0.988	-2.306617	2.343575
y2000	-.9721371	1.769838	-0.55	0.583	-4.440955	2.496681
ldap	-.9452535	.3506849	-2.70	0.007	-1.632583	-.2579238

ldap_t		-.0026991	.1341275	-0.02	0.984	-.2655841	.2601859
ldc1		-.9756684	.298513	-3.27	0.001	-1.560743	-.3905937
ldc1_t		-.021261	.1155399	-0.18	0.854	-.2477151	.2051931
ldrdr		-.119224	.1434369	-0.83	0.406	-.4003552	.1619072
ldrdr_t		-.0471752	.0691846	-0.68	0.495	-.1827746	.0884242
ldrt		-.5790138	.3097831	-1.87	0.062	-1.186177	.0281499
ldrt_t		.2047519	.1406614	1.46	0.145	-.0709395	.4804432
ldrr		-1.006335	.1259341	-7.99	0.000	-1.253161	-.7595087
ldrr_t		-.0537008	.0582459	-0.92	0.357	-.1678606	.060459
ldtt		-2.769585	.4902373	-5.65	0.000	-3.730433	-1.808738
ldtt_t		-.3509624	.2055203	-1.71	0.088	-.7537748	.05185
_cons		-1.456296	1.278429	-1.14	0.255	-3.961971	1.049378

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### 3.3 Share Hispanic

#### 3.3.1 Quadratic Specification

model for shrhsp for site 6, xs/ts with hetero, xscorr  
(sum of wgt is 2.9014e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (0.3419)

Estimated covariances	=	147	Number of obs	=	588
Estimated autocorrelations	=	1	Number of groups	=	147
Estimated coefficients	=	21	Time periods	=	4
			Wald chi2(20)	=	770.31
Log likelihood	=	-419.2259	Prob > chi2	=	0.0000

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depvar		Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld		.1831993	.1152943	1.59	0.112	-.0427733 .409172
ld_t		.4599962	.117589	3.91	0.000	.2295259 .6904664
ld_t2		-.0716432	.0358074	-2.00	0.045	-.1418245 -.0014619
ldcos		-.1929064	.0269838	-7.15	0.000	-.2457938 -.1400191
ldsin		.0406584	.032286	1.26	0.208	-.022621 .1039378
y1980		-.3194883	.2119369	-1.51	0.132	-.734877 .0959004
y1990		-.0715033	.3329016	-0.21	0.830	-.7239784 .5809719
y2000		.5778052	.4449886	1.30	0.194	-.2943564 1.449967
ldap		-.136969	.0781144	-1.75	0.080	-.2900703 .0161324
ldap_t		-.0211444	.0321316	-0.66	0.511	-.0841211 .0418324
ldc1		-.4253983	.0697336	-6.10	0.000	-.5620736 -.288723
ldc1_t		-.1083381	.0247511	-4.38	0.000	-.1568494 -.0598269
ldrdr		-.0372823	.027021	-1.38	0.168	-.0902424 .0156778
ldrdr_t		.0029036	.0132161	0.22	0.826	-.0229995 .0288066
ldrt		-.0743938	.0836895	-0.89	0.374	-.2384222 .0896346
ldrt_t		.0127958	.0396796	0.32	0.747	-.0649749 .0905664
ldrr		-.0962165	.0422379	-2.28	0.023	-.1790012 -.0134317
ldrr_t		-.1303353	.0202267	-6.44	0.000	-.1699788 -.0906918

ldtt		-.3889004	.1285331	-3.03	0.002	-.6408207	-.1369802
ldtt_t		-.0598289	.0551827	-1.08	0.278	-.1679849	.0483271
_cons		-2.100451	.3320028	-6.33	0.000	-2.751164	-1.449738

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## 4 CTS Printex Inc. (CA)

### 4.1 Share White

#### 4.1.1 Quadratic Specification

model for shrwht for site 9, xs/ts with hetero, xscorr  
(sum of wgt is 1.6852e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.5372)

Estimated covariances	=	104	Number of obs	=	416
Estimated autocorrelations	=	1	Number of groups	=	104
Estimated coefficients	=	23	Time periods	=	4
			Wald chi2(22)	=	3353.32
Log likelihood	=	-192.0454	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	1.127537	.1918987	5.88	0.000	.7514226	1.503652
ld_t	-.3984257	.1097426	-3.63	0.000	-.6135172	-.1833342
ld_t2	.0017095	.0227412	0.08	0.940	-.0428624	.0462814
ldcos	-.2017146	.10495	-1.92	0.055	-.4074128	.0039837
ldsin	-.8264632	.1290961	-6.40	0.000	-1.079487	-.5734396
y1980	6.352923	2.15474	2.95	0.003	2.129711	10.57614
y1990	13.23942	4.306591	3.07	0.002	4.798661	21.68019
y2000	19.9414	6.457989	3.09	0.002	7.283975	32.59883
ldap	-.1806414	.0842945	-2.14	0.032	-.3458556	-.0154271
ldap_t	.0645802	.0395027	1.63	0.102	-.0128436	.142004
ldcl	.2856175	.5614494	0.51	0.611	-.8148031	1.386038
ldcl_t	-.3691379	.1626935	-2.27	0.023	-.6880113	-.0502645
ldc2	-3.056217	2.133005	-1.43	0.152	-7.23683	1.124397
ldc2_t	-1.575809	.4422849	-3.56	0.000	-2.442672	-.7089466
ldrd	-.0039212	.0390679	-0.10	0.920	-.0804928	.0726504
ldrd_t	-.0095046	.0164865	-0.58	0.564	-.0418176	.0228084
ldrt	.0660506	.1391221	0.47	0.635	-.2066238	.3387249
ldrt_t	.0810668	.0592426	1.37	0.171	-.0350466	.1971802
ldrr	.1443397	.0489584	2.95	0.003	.048383	.2402963
ldrr_t	.0120896	.0199813	0.61	0.545	-.0270731	.0512523
ldtt	-.656687	.1387499	-4.73	0.000	-.9286318	-.3847422
ldtt_t	.1898185	.056977	3.33	0.001	.0781458	.3014913
_cons	12.69594	9.419979	1.35	0.178	-5.766882	31.15876

#### 4.1.2 Linear Specification

model for shrwht for site 9, xs/ts with hetero, xscorr

(sum of wgt is 1.6852e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.5373)

Estimated covariances	=	104	Number of obs	=	416
Estimated autocorrelations	=	1	Number of groups	=	104
Estimated coefficients	=	22	Time periods	=	4
			Wald chi2(21)	=	3352.63
Log likelihood	=	-192.0642	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	1.122948	.1907	5.89	0.000	.7491828	1.496713
ld_t	-.3919639	.0830225	-4.72	0.000	-.5546851	-.2292427
ldcos	-.2013198	.1050435	-1.92	0.055	-.4072014	.0045617
ldsin	-.8269938	.1294601	-6.39	0.000	-1.080731	-.5732567
y1980	6.325986	2.155684	2.93	0.003	2.100923	10.55105
y1990	13.19292	4.311027	3.06	0.002	4.743466	21.64238
y2000	19.88148	6.466255	3.07	0.002	7.207856	32.55511
ldap	-.1804997	.0839723	-2.15	0.032	-.3450824	-.015917
ldap_t	.0645386	.0393204	1.64	0.101	-.012528	.1416053
ldc1	.2811361	.5620556	0.50	0.617	-.8204727	1.382745
ldc1_t	-.3669223	.1626686	-2.26	0.024	-.685747	-.0480977
ldc2	-3.073339	2.138386	-1.44	0.151	-7.264499	1.117821
ldc2_t	-1.572409	.4429426	-3.55	0.000	-2.44056	-.7042571
ldrd	-.0042965	.0390811	-0.11	0.912	-.080894	.072301
ldrd_t	-.0094232	.016492	-0.57	0.568	-.041747	.0229006
ldrt	.0666206	.1389668	0.48	0.632	-.2057494	.3389906
ldrt_t	.0808813	.0591681	1.37	0.172	-.0350861	.1968487
ldrr	.144451	.0489446	2.95	0.003	.0485214	.2403806
ldrr_t	.0119458	.0199742	0.60	0.550	-.0272028	.0510945
ldtt	-.6536101	.1387173	-4.71	0.000	-.9254911	-.3817291
ldtt_t	.1889236	.0569513	3.32	0.001	.0773011	.3005461
_cons	12.77701	9.442612	1.35	0.176	-5.730172	31.28419

## 4.2 Share Black

### 4.2.1 Quadratic Specification

model for shrblk for site 9, xs/ts with hetero, xscorr  
(sum of wgt is 1.6852e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.3583)



Estimated covariances	=	104	Number of obs	=	416
Estimated autocorrelations	=	1	Number of groups	=	104
Estimated coefficients	=	23	Time periods	=	4
			Wald chi2(22)	=	371.94
Log likelihood	=	-661.9202	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-1.291933	.4189856	-3.08	0.002	-2.11313	-.4707362
ld_t	.4479992	.2646628	1.69	0.091	-.0707304	.9667289
ld_t2	-.1425182	.0572768	-2.49	0.013	-.2547786	-.0302578
ldcos	.2965702	.2502918	1.18	0.236	-.1939928	.7871333
ldsin	1.614339	.2979861	5.42	0.000	1.030297	2.198381
y1980	12.26807	7.304166	1.68	0.093	-2.047834	26.58397
y1990	23.93519	14.60375	1.64	0.101	-4.687633	52.55801
y2000	35.33613	21.90054	1.61	0.107	-7.588139	78.2604
ldap	.1138291	.1783428	0.64	0.523	-.2357163	.4633745
ldap_t	.0153616	.0885508	0.17	0.862	-.1581949	.1889181
ldc1	.7559284	1.556664	0.49	0.627	-2.295077	3.806934
ldc1_t	-1.223323	.5909314	-2.07	0.038	-2.381528	-.065119
ldc2	7.923359	4.961769	1.60	0.110	-1.80153	17.64825
ldc2_t	-2.059141	1.456013	-1.41	0.157	-4.912874	.7945926
ldrd	.3064954	.1207304	2.54	0.011	.0698681	.5431228
ldrd_t	-.0952782	.0547764	-1.74	0.082	-.2026381	.0120816
ldrt	.4266088	.4919011	0.87	0.386	-.5374996	1.390717
ldrt_t	-.0558802	.2210797	-0.25	0.800	-.4891885	.3774281
ldrr	-.4174056	.1291737	-3.23	0.001	-.6705813	-.1642299
ldrr_t	.0020587	.0570066	0.04	0.971	-.1096723	.1137897
ldtt	.6182507	.3439667	1.80	0.072	-.0559115	1.292413
ldtt_t	-.0118478	.1542259	-0.08	0.939	-.314125	.2904295
_cons	-36.89086	22.59984	-1.63	0.103	-81.18573	7.404023

## 4.3 Share Hispanic

### 4.3.1 Quadratic Specification

model for shrhsp for site 9, xs/ts with hetero, xscorr  
(sum of wgt is 1.6852e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (0.6652)

Estimated covariances	=	104	Number of obs	=	416
Estimated autocorrelations	=	1	Number of groups	=	104
Estimated coefficients	=	23	Time periods	=	4
			Wald chi2(22)	=	601.01
Log likelihood	=	-206.852	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.5101535	.138595	-3.68	0.000	-.7817947	-.2385123
ld_t	.1337504	.072715	1.84	0.066	-.0087684	.2762692
ld_t2	-.0452787	.0159052	-2.85	0.004	-.0764523	-.0141051
ldcos	.7217515	.1050359	6.87	0.000	.515885	.927618
ldsin	.1395413	.1815686	0.77	0.442	-.2163266	.4954093
y1980	11.27345	2.114875	5.33	0.000	7.128375	15.41853
y1990	23.14241	4.226867	5.48	0.000	14.8579	31.42691
y2000	34.96076	6.33776	5.52	0.000	22.53898	47.38254
ldap	.3208539	.0937988	3.42	0.001	.1370117	.5046961
ldap_t	-.1154104	.039739	-2.90	0.004	-.1932974	-.0375235
ldc1	.2468821	.4707534	0.52	0.600	-.6757775	1.169542
ldc1_t	-.5468883	.1299515	-4.21	0.000	-.8015885	-.2921881
ldc2	-2.035167	2.976437	-0.68	0.494	-7.868877	3.798543
ldc2_t	-2.522397	.4478377	-5.63	0.000	-3.400143	-1.644652
ldr	.0004384	.0431527	0.01	0.992	-.0841393	.0850161
ldr_t	.0498425	.0161881	3.08	0.002	.0181144	.0815707
ldrt	.1576759	.1252528	1.26	0.208	-.0878151	.4031668
ldrt_t	.0101088	.0459807	0.22	0.826	-.0800118	.1002293
ldrr	-.3541248	.0700135	-5.06	0.000	-.4913488	-.2169008
ldrr_t	.0423414	.0265993	1.59	0.111	-.0097923	.0944751
ldtt	.1704558	.1219524	1.40	0.162	-.0685664	.4094781
ldtt_t	.0602865	.0430008	1.40	0.161	-.0239935	.1445665
_cons	4.906357	12.70657	0.39	0.699	-19.99807	29.81078

## 5 Montrose Chemical (CA)

### 5.1 Share White

#### 5.1.1 Quadratic Specification

model for shrwht for site 10, xs/ts with hetero, xscorr  
(sum of wgt is 4.6880e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.5211)

Estimated covariances	=	271	Number of obs	=	1084
Estimated autocorrelations	=	1	Number of groups	=	271
Estimated coefficients	=	21	Time periods	=	4
			Wald chi2(20)	=	9197.13
Log likelihood	=	-888.7606	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	.5249576	.0929149	5.65	0.000	.3428478	.7070674
ld_t	-.4041184	.0857742	-4.71	0.000	-.5722327	-.2360041
ld_t2	.1364274	.0250475	5.45	0.000	.0873352	.1855195
ldcos	.2142205	.0330247	6.49	0.000	.1494932	.2789478
ldsin	.6981386	.059838	11.67	0.000	.5808583	.8154189
y1980	1.308291	.2507386	5.22	0.000	.8168522	1.79973
y1990	3.333866	.4715838	7.07	0.000	2.409579	4.258153
y2000	5.008908	.6913628	7.24	0.000	3.653862	6.363954
ldap	-.4392145	.0544973	-8.06	0.000	-.5460273	-.3324017
ldap_t	.2569323	.02289	11.22	0.000	.2120686	.3017959
ldcl	8.811325	.3663416	24.05	0.000	8.093309	9.529342
ldcl_t	-.7945387	.0591088	-13.44	0.000	-.9103898	-.6786876
ldrd	.1217695	.0292764	4.16	0.000	.0643888	.1791502
ldrd_t	-.0354923	.0125938	-2.82	0.005	-.0601756	-.0108089
ldrt	.053775	.091208	0.59	0.555	-.1249894	.2325394
ldrt_t	.0157166	.0389449	0.40	0.687	-.060614	.0920472
ldrr	-.1312476	.0318316	-4.12	0.000	-.1936364	-.0688587
ldrr_t	.0198262	.0136053	1.46	0.145	-.0068396	.0464921
ldtt	1.085259	.0759596	14.29	0.000	.9363811	1.234137
ldtt_t	-.2312495	.0239253	-9.67	0.000	-.2781423	-.1843566
_cons	-27.85041	1.158052	-24.05	0.000	-30.12015	-25.58067

## 5.2 Share Black

### 5.2.1 Quadratic Specification

model for shrblk for site 10, xs/ts with hetero, xscorr  
(sum of wgt is 4.6880e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.3824)

Estimated covariances	=	271	Number of obs	=	1084
Estimated autocorrelations	=	1	Number of groups	=	271
Estimated coefficients	=	21	Time periods	=	4
Log likelihood	=	-1820.495	Wald chi2(20)	=	6023.83
			Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	1.256496	.2017578	6.23	0.000	.8610578	1.651934
ld_t	-1.08625	.2003682	-5.42	0.000	-1.478965	-.693536
ld_t2	.1535401	.0585029	2.62	0.009	.0388766	.2682037
ldcos	-.5044688	.0621772	-8.11	0.000	-.6263338	-.3826038
ldsin	-.6822171	.1156133	-5.90	0.000	-.908815	-.4556192
y1980	-1.91123	.5899603	-3.24	0.001	-3.067531	-.7549289
y1990	-7.219771	1.095372	-6.59	0.000	-9.36666	-5.072882
y2000	-13.18497	1.596139	-8.26	0.000	-16.31335	-10.0566
ldap	.5845592	.1209765	4.83	0.000	.3474497	.8216687
ldap_t	-.374779	.0547145	-6.85	0.000	-.4820176	-.2675405
ldc1	-11.94196	.6325673	-18.88	0.000	-13.18176	-10.70215
ldc1_t	1.75935	.1238279	14.21	0.000	1.516652	2.002048
ldrd	-.2045068	.069506	-2.94	0.003	-.340736	-.0682776
ldrd_t	.0657188	.0325022	2.02	0.043	.0020157	.129422
ldrt	-.3733912	.2075783	-1.80	0.072	-.7802372	.0334549
ldrt_t	.3339677	.0959315	3.48	0.000	.1459453	.5219901
ldrr	.1918813	.0655845	2.93	0.003	.0633381	.3204245
ldrr_t	-.0278718	.0300382	-0.93	0.353	-.0867456	.031002
ldtt	-1.976752	.1495031	-13.22	0.000	-2.269772	-1.683731
ldtt_t	.6500806	.0510091	12.74	0.000	.5501046	.7500565
_cons	32.61534	2.082935	15.66	0.000	28.53286	36.69782

## 5.3 Share Hispanic

### 5.3.1 Quadratic Specification

model for shrhsp for site 10, xs/ts with hetero, xscorr  
(sum of wgt is 4.6880e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic  
 Correlation: common AR(1) coefficient for all panels (0.7379)

Estimated covariances	=	271	Number of obs	=	1084
Estimated autocorrelations	=	1	Number of groups	=	271
Estimated coefficients	=	21	Time periods	=	4
			Wald chi2(20)	=	3705.46
Log likelihood	=	-553.6213	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.7666201	.0790322	-9.70	0.000	-.9215204	-.6117198
ld_t	.1510765	.0575554	2.62	0.009	.03827	.263883
ld_t2	-.0213819	.0164472	-1.30	0.194	-.0536178	.010854
ldcos	-.0575242	.0301224	-1.91	0.056	-.1165631	.0015146
ldsin	-.2023617	.0619358	-3.27	0.001	-.3237536	-.0809699
y1980	2.366917	.205067	11.54	0.000	1.964993	2.768841
y1990	5.030085	.3935395	12.78	0.000	4.258762	5.801408
y2000	7.682183	.5809516	13.22	0.000	6.543539	8.820828
ldap	.1155393	.0503087	2.30	0.022	.016936	.2141425
ldap_t	-.0916809	.0171219	-5.35	0.000	-.1252393	-.0581226
ldc1	-.4969447	.3489099	-1.42	0.154	-1.180795	.1869061
ldc1_t	-.5828277	.0496654	-11.74	0.000	-.68017	-.4854853
ldrd	-.0428087	.0294054	-1.46	0.145	-.1004422	.0148248
ldrd_t	.0028207	.0102602	0.27	0.783	-.017289	.0229303
ldrt	.6203402	.0814503	7.62	0.000	.4607007	.7799798
ldrt_t	.045595	.0287114	1.59	0.112	-.0106783	.1018683
ldrr	-.1120125	.0278049	-4.03	0.000	-.1665091	-.0575159
ldrr_t	-.0225942	.0097953	-2.31	0.021	-.0417927	-.0033957
ldtt	-.0353527	.0735956	-0.48	0.631	-.1795975	.1088921
ldtt_t	-.2524289	.0189014	-13.36	0.000	-.2894749	-.2153828
_cons	-.1675166	1.093987	-0.15	0.878	-2.311691	1.976658

### 5.3.2 Linear Specification

model for shrhsp for site 10, xs/ts with hetero, xscorr  
 (sum of wgt is 4.6880e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (0.7377)

Estimated covariances	=	271	Number of obs	=	1084
Estimated autocorrelations	=	1	Number of groups	=	271
Estimated coefficients	=	20	Time periods	=	4
			Wald chi2(19)	=	3669.12
Log likelihood	=	-554.4667	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.7505725	.0776565	-9.67	0.000	-.9027766	-.5983685

ld_t		.0825444	.0270017	3.06	0.002	.0296221	.1354667
ldcos		-.0585977	.0300174	-1.95	0.051	-.1174308	.0002353
ldsine		-.2043714	.0620893	-3.29	0.001	-.3260642	-.0826787
y1980		2.459399	.194523	12.64	0.000	2.07814	2.840657
y1990		5.130244	.3882126	13.22	0.000	4.369362	5.891127
y2000		7.708451	.5822367	13.24	0.000	6.567288	8.849614
ldap		.1167584	.0505379	2.31	0.021	.017706	.2158109
ldap_t		-.0919977	.0172205	-5.34	0.000	-.1257492	-.0582463
ldc1		-.5071181	.3499155	-1.45	0.147	-1.19294	.1787036
ldc1_t		-.5829997	.0497872	-11.71	0.000	-.6805807	-.4854186
ldrdr		-.0433263	.029478	-1.47	0.142	-.1011021	.0144495
ldrdr_t		.0030945	.0102917	0.30	0.764	-.0170769	.0232659
ldrt		.6166717	.0814818	7.57	0.000	.4569703	.7763732
ldrt_t		.0463371	.0287373	1.61	0.107	-.0099871	.1026612
ldrr		-.1117269	.0278697	-4.01	0.000	-.1663504	-.0571034
ldrr_t		-.0226086	.0098221	-2.30	0.021	-.0418595	-.0033577
ldtt		-.0330198	.073643	-0.45	0.654	-.1773575	.1113178
ldtt_t		-.2524282	.0189721	-13.31	0.000	-.2896129	-.2152435
_cons		-.1671972	1.096685	-0.15	0.879	-2.31666	1.982266

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## 6 Chem Central (MI)

### 6.1 Share White

#### 6.1.1 Quadratic Specification

model for shrwht for site 11, xs/ts with hetero, xscorr  
(sum of wgt is 1.4371e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.4677)

Estimated covariances	=	89	Number of obs	=	356
Estimated autocorrelations	=	1	Number of groups	=	89
Estimated coefficients	=	21	Time periods	=	4
			Wald chi2(20)	=	3077.35
Log likelihood	=	-371.5553	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.8215442	.1930055	-4.26	0.000	-1.199828	-.4432605
ld_t	.6960112	.1283197	5.42	0.000	.4445093	.9475131
ld_t2	-.1463746	.0321177	-4.56	0.000	-.2093241	-.083425
ldcos	-.2230693	.1271286	-1.75	0.079	-.4722368	.0260983
ldsin	.4965842	.0580389	8.56	0.000	.38283	.6103384
y1980	-2.068695	.2615201	-7.91	0.000	-2.581265	-1.556125
y1990	-2.393651	.4811103	-4.98	0.000	-3.33661	-1.450692
y2000	-2.493989	.7006462	-3.56	0.000	-3.867231	-1.120748
ldap	.8783465	.3571244	2.46	0.014	.1783955	1.578297
ldap_t	-.1018743	.0819576	-1.24	0.214	-.2625082	.0587597
ldcl	-1.193217	.3577655	-3.34	0.001	-1.894425	-.4920098
ldcl_t	.2502432	.16506	1.52	0.130	-.0732683	.5737548
ldrd	.0166982	.0517081	0.32	0.747	-.0846478	.1180442
ldrd_t	-.0258518	.020655	-1.25	0.211	-.0663349	.0146314
ldrt	-.2384713	.1959672	-1.22	0.224	-.6225599	.1456172
ldrt_t	.0474094	.0820941	0.58	0.564	-.1134922	.2083109
ldrr	-.2775287	.0442465	-6.27	0.000	-.3642502	-.1908073
ldrr_t	.1286268	.0190912	6.74	0.000	.0912087	.1660448
ldtt	4.225822	.4368878	9.67	0.000	3.369537	5.082106
ldtt_t	-.5857312	.1957722	-2.99	0.003	-.9694377	-.2020246
_cons	-.7787459	.8731224	-0.89	0.372	-2.490034	.9325426

### 6.2 Share Black

#### 6.2.1 Quadratic Specification

model for shrblk for site 11, xs/ts with hetero, xscorr

(sum of wgt is 1.4371e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.3518)

Estimated covariances	=	89	Number of obs	=	356
Estimated autocorrelations	=	1	Number of groups	=	89
Estimated coefficients	=	21	Time periods	=	4
			Wald chi2(20)	=	1165.81
Log likelihood	=	-623.8533	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	.7911551	.3841499	2.06	0.039	.0382351	1.544075
ld_t	-.7682932	.3259624	-2.36	0.018	-1.407168	-.1294187
ld_t2	.1646684	.091189	1.81	0.071	-.0140588	.3433956
ldcos	.7158748	.2154117	3.32	0.001	.2936756	1.138074
ldsin	-.7775109	.1085087	-7.17	0.000	-.990184	-.5648378
y1980	3.043189	.6061405	5.02	0.000	1.855175	4.231202
y1990	2.731052	1.055636	2.59	0.010	.6620428	4.800062
y2000	2.008159	1.500193	1.34	0.181	-.9321646	4.948482
ldap	-1.183756	.6487899	-1.82	0.068	-2.455361	.0878486
ldap_t	.3003288	.1733332	1.73	0.083	-.0393981	.6400557
ldcl	.5907294	.7458117	0.79	0.428	-.8710346	2.052494
ldcl_t	-.1434108	.3612377	-0.40	0.691	-.8514237	.5646021
ldrd	.0053841	.1030228	0.05	0.958	-.1965369	.2073051
ldrd_t	.0065305	.04423	0.15	0.883	-.0801588	.0932198
ldrt	.4261369	.3809342	1.12	0.263	-.3204805	1.172754
ldrt_t	-.1246879	.1706773	-0.73	0.465	-.4592092	.2098334
ldrr	.4993556	.0912506	5.47	0.000	.3205077	.6782034
ldrr_t	-.1936448	.0415402	-4.66	0.000	-.2750622	-.1122275
ldtt	-4.643634	.9102139	-5.10	0.000	-6.42762	-2.859647
ldtt_t	.5921197	.4257067	1.39	0.164	-.2422501	1.42649
_cons	.8113231	1.609081	0.50	0.614	-2.342419	3.965065

## 6.2.2 Linear Specification

model for shrblk for site 11, xs/ts with hetero, xscorr

(sum of wgt is 1.4371e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.3526)

Estimated covariances	=	89	Number of obs	=	356
Estimated autocorrelations	=	1	Number of groups	=	89
Estimated coefficients	=	20	Time periods	=	4
			Wald chi2(19)	=	1159.73



Log likelihood = -625.4536 Prob > chi2 = 0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	.6204001	.3640291	1.70	0.088	-.0930838	1.333884
ld_t	-.2479814	.1730941	-1.43	0.152	-.5872397	.0912769
ldcos	.7256485	.2132521	3.40	0.001	.3076821	1.143615
ldsin	-.7748314	.1082813	-7.16	0.000	-.9870589	-.562604
y1980	2.435615	.515441	4.73	0.000	1.425369	3.445861
y1990	2.116268	1.001227	2.11	0.035	.1538991	4.078637
y2000	1.96979	1.489929	1.32	0.186	-.9504176	4.889997
ldap	-1.109335	.6450977	-1.72	0.085	-2.373703	.1550331
ldap_t	.2806641	.1737348	1.62	0.106	-.0598498	.621178
ldcl	.5825924	.7467015	0.78	0.435	-.8809156	2.0461
ldcl_t	-.1326536	.3616144	-0.37	0.714	-.8414048	.5760976
ldrd	.0033934	.1021505	0.03	0.973	-.1968178	.2036046
ldrd_t	.0077958	.0436967	0.18	0.858	-.0778481	.0934397
ldrt	.3913961	.3772539	1.04	0.300	-.3480079	1.1308
ldrt_t	-.1164595	.1681677	-0.69	0.489	-.446062	.2131431
ldrr	.4966691	.0904217	5.49	0.000	.3194458	.6738924
ldrr_t	-.1924379	.0410683	-4.69	0.000	-.2729302	-.1119456
ldtt	-4.630853	.9115326	-5.08	0.000	-6.417424	-2.844282
ldtt_t	.5825129	.4256233	1.37	0.171	-.2516934	1.416719
_cons	.9852736	1.588978	0.62	0.535	-2.129067	4.099614

## 6.3 Share Hispanic

### 6.3.1 Quadratic Specification

model for shrhsp for site 11, xs/ts with hetero, xscorr  
(sum of wgt is 1.4371e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (-0.1735)

Estimated covariances	=	89	Number of obs	=	356
Estimated autocorrelations	=	1	Number of groups	=	89
Estimated coefficients	=	21	Time periods	=	4
Log likelihood	=	-434.4219	Wald chi2(20)	=	1130.64
			Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.1765371	.1807394	-0.98	0.329	-.5307798	.1777056
ld_t	.0033292	.1869116	0.02	0.986	-.3630108	.3696691
ld_t2	.0303683	.054354	0.56	0.576	-.0761636	.1369001
ldcos	-.0444896	.0890056	-0.50	0.617	-.2189374	.1299582
ldsin	-.1386655	.0413376	-3.35	0.001	-.2196857	-.0576453

y1980		1.309681	.3442544	3.80	0.000	.6349546	1.984407
y1990		1.783803	.5932722	3.01	0.003	.6210107	2.946595
y2000		2.881544	.843048	3.42	0.001	1.2292	4.533888
ldap		.0236009	.3259069	0.07	0.942	-.615165	.6623667
ldap_t		.066684	.1011826	0.66	0.510	-.1316302	.2649982
ldc1		.6094723	.1894108	3.22	0.001	.238234	.9807106
ldc1_t		.0839262	.1060702	0.79	0.429	-.1239676	.2918201
ldrdr		.0382342	.0494501	0.77	0.439	-.0586863	.1351546
ldrdr_t		-.0168599	.024851	-0.68	0.497	-.0655671	.0318472
ldrtr		.2797387	.1551731	1.80	0.071	-.0243951	.5838724
ldrtr_t		-.2932916	.0828568	-3.54	0.000	-.4556879	-.1308953
ldrre		-.1670741	.0612566	-2.73	0.006	-.2871348	-.0470133
ldrre_t		-.0652288	.0320245	-2.04	0.042	-.1279957	-.002462
ldtt		-1.508238	.2739406	-5.51	0.000	-2.045152	-.9713245
ldtt_t		-.1377024	.1458299	-0.94	0.345	-.4235237	.148119
_cons		-3.827413	.8166649	-4.69	0.000	-5.428046	-2.226779

### 6.3.2 Linear Specification

model for shrhsp for site 11, xs/ts with hetero, xscorr  
(sum of wgt is 1.4371e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (-0.1441)

Estimated covariances	=	89	Number of obs	=	356
Estimated autocorrelations	=	1	Number of groups	=	89
Estimated coefficients	=	20	Time periods	=	4
			Wald chi2(19)	=	1126.71
Log likelihood	=	-432.601	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.217253	.1754058	-1.24	0.216	-.561042	.126536
ld_t	.09548	.0940043	1.02	0.310	-.0887651	.2797252
ldcos	-.0473347	.090303	-0.52	0.600	-.2243252	.1296559
ldsin	-.1386031	.0417295	-3.32	0.001	-.2203915	-.0568148
y1980	1.208542	.2982864	4.05	0.000	.6239111	1.793172
y1990	1.671387	.5679357	2.94	0.003	.5582538	2.784521
y2000	2.857145	.8462146	3.38	0.001	1.198595	4.515695
ldap	.0011339	.3283583	0.00	0.997	-.6424366	.6447045
ldap_t	.0729587	.1014033	0.72	0.472	-.125788	.2717055
ldc1	.6139656	.1930582	3.18	0.001	.2355786	.9923527
ldc1_t	.0820604	.1078141	0.76	0.447	-.1292514	.2933722
ldrdr	.0350256	.0498168	0.70	0.482	-.0626136	.1326648
ldrdr_t	-.0147882	.0249208	-0.59	0.553	-.0636321	.0340556
ldrtr	.2909029	.1570125	1.85	0.064	-.0168359	.5986418
ldrtr_t	-.2941081	.0834719	-3.52	0.000	-.45771	-.1305061
ldrre	-.1651024	.0615033	-2.68	0.007	-.2856467	-.0445581
ldrre_t	-.0663614	.0319662	-2.08	0.038	-.129014	-.0037088
ldtt	-1.513096	.276889	-5.46	0.000	-2.055789	-.9704039

ldtt_t		-.1371599	.1469949	-0.93	0.351	-.4252645	.1509448
_cons		-3.733336	.8178525	-4.56	0.000	-5.336298	-2.130375

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## 7 Havertown PCP (PA)

### 7.1 Share White

#### 7.1.1 Quadratic Specification

model for shrwht for site 15, xs/ts with hetero, xscorr  
(sum of wgt is 3.6942e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.6897)

Estimated covariances	=	216	Number of obs	=	864
Estimated autocorrelations	=	1	Number of groups	=	216
Estimated coefficients	=	21	Time periods	=	4
			Wald chi2(20)	=	1705.03
Log likelihood	=	-1251.265	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-2.206963	.2229386	-9.90	0.000	-2.643914	-1.770011
ld_t	.7627112	.1654402	4.61	0.000	.4384544	1.086968
ld_t2	-.0679864	.0488268	-1.39	0.164	-.1636852	.0277124
ldcos	-.9833113	.1485013	-6.62	0.000	-1.274368	-.6922541
ldsin	-.0280384	.1137111	-0.25	0.805	-.250908	.1948312
y1980	-3.176858	.353898	-8.98	0.000	-3.870485	-2.483231
y1990	-5.855244	.6225419	-9.41	0.000	-7.075404	-4.635084
y2000	-8.556712	.8900265	-9.61	0.000	-10.30113	-6.812292
ldap	-1.247305	.2783204	-4.48	0.000	-1.792803	-.7018073
ldap_t	.4111076	.1027432	4.00	0.000	.2097345	.6124806
ldcl	5.561762	.4910914	11.33	0.000	4.59924	6.524283
ldcl_t	.6611374	.1307079	5.06	0.000	.4049546	.9173202
ldrdr	.4172442	.0778778	5.36	0.000	.2646065	.5698819
ldrdr_t	-.0906121	.0299479	-3.03	0.002	-.149309	-.0319152
ldrdr_t	-.4801483	.2630618	-1.83	0.068	-.99574	.0354433
ldrdr_t	-.3093854	.0732176	-4.23	0.000	-.4528893	-.1658815
ldrdr	-.0629915	.0822555	-0.77	0.444	-.2242094	.0982264
ldrdr_t	.0326854	.0328075	1.00	0.319	-.0316162	.0969869
ldtt	.314287	.3181474	0.99	0.323	-.3092704	.9378445
ldtt_t	-.582108	.1166657	-4.99	0.000	-.8107685	-.3534475
_cons	-2.727347	1.524271	-1.79	0.074	-5.714863	.2601698

#### 7.1.2 Linear Specification

model for shrwht for site 15, xs/ts with hetero, xscorr  
(sum of wgt is 3.6942e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.6844)

Estimated covariances	=	216	Number of obs	=	864
Estimated autocorrelations	=	1	Number of groups	=	216
Estimated coefficients	=	20	Time periods	=	4
			Wald chi2(19)	=	1694.24
Log likelihood	=	-1255.649	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld	-2.169062	.2292038	-9.46	0.000	-2.618293 -1.71983
ld_t	.5618445	.0825513	6.81	0.000	.4000469 .723642
ldcos	-.9866151	.1466158	-6.73	0.000	-1.273977 -.6992534
ldsin	-.0364996	.1120247	-0.33	0.745	-.2560639 .1830648
y1980	-2.957795	.3063155	-9.66	0.000	-3.558162 -2.357428
y1990	-5.674568	.607147	-9.35	0.000	-6.864554 -4.484581
y2000	-8.677373	.9100914	-9.53	0.000	-10.46112 -6.893626
ldap	-1.25651	.2756455	-4.56	0.000	-1.796765 -.7162548
ldap_t	.4217354	.1022966	4.12	0.000	.2212378 .6222329
ldc1	5.582394	.4853262	11.50	0.000	4.631172 6.533616
ldc1_t	.6570048	.1302453	5.04	0.000	.4017286 .9122809
ldrd	.4288706	.0780629	5.49	0.000	.2758701 .5818711
ldrd_t	-.0945097	.0301816	-3.13	0.002	-.1536646 -.0353549
ldrt	-.4818727	.2600934	-1.85	0.064	-.9916464 .027901
ldrt_t	-.3062385	.072999	-4.20	0.000	-.4493139 -.1631631
ldrr	-.0618017	.0825644	-0.75	0.454	-.2236249 .1000214
ldrr_t	.0312252	.0331441	0.94	0.346	-.0337361 .0961865
ldtt	.3029901	.3145298	0.96	0.335	-.313477 .9194572
ldtt_t	-.57795	.1160087	-4.98	0.000	-.8053228 -.3505771
_cons	-2.800041	1.522329	-1.84	0.066	-5.783751 .1836687

## 7.2 Share Black

### 7.2.1 Quadratic Specification

model for shrblk for site 15, xs/ts with hetero, xscorr  
(sum of wgt is 3.6942e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.6151)

Estimated covariances	=	216	Number of obs	=	864
Estimated autocorrelations	=	1	Number of groups	=	216
Estimated coefficients	=	21	Time periods	=	4
			Wald chi2(20)	=	2001.55
Log likelihood	=	-1560.111	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	3.67405	.3386207	10.85	0.000	3.010366	4.337735
ld_t	-1.072642	.2558164	-4.19	0.000	-1.574033	-.571251
ld_t2	.0915121	.0763778	1.20	0.231	-.0581855	.2412098
ldcos	.7619606	.1861579	4.09	0.000	.3970979	1.126823
ldsin	-.273249	.1643885	-1.66	0.096	-.5954446	.0489466
y1980	4.007978	.5542913	7.23	0.000	2.921587	5.094369
y1990	7.158487	.9691523	7.39	0.000	5.258983	9.057991
y2000	9.720762	1.385965	7.01	0.000	7.004321	12.4372
ldap	1.540215	.3479628	4.43	0.000	.8582206	2.22221
ldap_t	-.5539908	.1300812	-4.26	0.000	-.8089453	-.2990364
ldc1	-5.803628	.6466734	-8.97	0.000	-7.071084	-4.536171
ldc1_t	-.6356063	.1802116	-3.53	0.000	-.9888145	-.2823981
ldrdr	-.6206351	.0928794	-6.68	0.000	-.8026755	-.4385947
ldrdr_t	.158026	.038634	4.09	0.000	.0823049	.2337472
ldrdr_t	1.515635	.3522887	4.30	0.000	.8251615	2.206108
ldrdr_t	.3264301	.1108529	2.94	0.003	.1091624	.5436977
ldrdr	.104825	.1066713	0.98	0.326	-.1042468	.3138969
ldrdr_t	-.1248719	.0453369	-2.75	0.006	-.2137306	-.0360132
ldrdr_t	-.6346844	.4050041	-1.57	0.117	-1.428478	.159109
ldrdr_t	.7395994	.1560393	4.74	0.000	.4337681	1.045431
_cons	-3.227261	2.07605	-1.55	0.120	-7.296243	.8417219

## 7.2.2 Linear Specification

model for shrblk for site 15, xs/ts with hetero, xscorr  
(sum of wgt is 3.6942e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (0.6111)

Estimated covariances	=	216	Number of obs	=	864
Estimated autocorrelations	=	1	Number of groups	=	216
Estimated coefficients	=	20	Time periods	=	4
Log likelihood	=	-1563.357	Wald chi2(19)	=	1989.49
			Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	3.678681	.3389037	10.85	0.000	3.014442	4.34292
ld_t	-.797032	.1229176	-6.48	0.000	-1.037946	-.556118
ldcos	.7624814	.1849707	4.12	0.000	.3999455	1.125017
ldsin	-.2737638	.165356	-1.66	0.098	-.5978555	.050328
y1980	3.655476	.4682865	7.81	0.000	2.737651	4.5733
y1990	6.819495	.9292521	7.34	0.000	4.998195	8.640796
y2000	9.764051	1.392291	7.01	0.000	7.035212	12.49289
ldap	1.572391	.3494315	4.50	0.000	.8875182	2.257265
ldap_t	-.5637569	.1309792	-4.30	0.000	-.8204714	-.3070424

ldc1		-5.80699	.6407735	-9.06	0.000	-7.062883	-4.551097
ldc1_t		-.6332351	.1797299	-3.52	0.000	-.9854992	-.2809711
ldrdr		-.62105	.0928058	-6.69	0.000	-.8029461	-.439154
ldrdr_t		.1601305	.0385641	4.15	0.000	.0845463	.2357146
ldrt		1.507221	.3532197	4.27	0.000	.8149232	2.199519
ldrt_t		.32929	.1113036	2.96	0.003	.111139	.5474409
ldrr		.1029916	.1069691	0.96	0.336	-.106664	.3126473
ldrr_t		-.1241702	.0456035	-2.72	0.006	-.2135514	-.034789
ldtt		-.6575327	.399255	-1.65	0.100	-1.440058	.1249927
ldtt_t		.7401166	.1549979	4.78	0.000	.4363264	1.043907
_cons		-3.244069	2.083823	-1.56	0.120	-7.328288	.8401487

## 7.3 Share Hispanic

### 7.3.1 Quadratic Specification

model for shrhsp for site 15, xs/ts with hetero, xscorr  
(sum of wgt is 3.6942e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (0.2127)

Estimated covariances	=	216	Number of obs	=	864
Estimated autocorrelations	=	1	Number of groups	=	216
Estimated coefficients	=	21	Time periods	=	4
			Wald chi2(20)	=	246.43
Log likelihood	=	-1481.586	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld	.2688208	.2138126	1.26	0.209	-.1502442 .6878858
ld_t	-.1329343	.2407041	-0.55	0.581	-.6047056 .338837
ld_t2	.2288697	.0748364	3.06	0.002	.0821931 .3755464
ldcos	.0744	.103445	0.72	0.472	-.1283484 .2771484
ldsin	-.1596524	.0995432	-1.60	0.109	-.3547535 .0354486
y1980	-.452532	.4678991	-0.97	0.333	-1.369597 .4645334
y1990	-1.895618	.7666749	-2.47	0.013	-3.398273 -.3929629
y2000	-4.617452	1.059304	-4.36	0.000	-6.69365 -2.541255
ldap	-.1074739	.2419983	-0.44	0.657	-.5817818 .3668341
ldap_t	-.0849001	.1109359	-0.77	0.444	-.3023305 .1325303
ldc1	-.151645	.3652263	-0.42	0.678	-.8674755 .5641855
ldc1_t	.0427329	.1361337	0.31	0.754	-.2240843 .3095501
ldrdr	.0103978	.0737297	0.14	0.888	-.1341098 .1549053
ldrdr_t	-.02986	.0387772	-0.77	0.441	-.1058619 .0461419
ldrt	.5330156	.2185377	2.44	0.015	.1046895 .9613417
ldrt_t	.3113546	.0904494	3.44	0.001	.134077 .4886322
ldrr	.1543499	.083297	1.85	0.064	-.0089092 .317609
ldrr_t	-.189216	.0429693	-4.40	0.000	-.2734344 -.1049977
ldtt	-.5540742	.2079858	-2.66	0.008	-.9617189 -.1464296
ldtt_t	-.1728884	.0983191	-1.76	0.079	-.3655903 .0198135

_cons		-5.082436	1.232445	-4.12	0.000	-7.497985	-2.666887
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## Appendix C-2

### Detailed Regression Results for Age Shares

#### 1 Sayerville Landfill (NJ)

##### 1.1 Children Under Age 6

###### 1.1.1 Quadratic Specification

model for under6 for site 4, xs/ts with hetero, xscorr  
(sum of wgt is 1.4218e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (0.4888)

Estimated covariances	=	93	Number of obs	=	372
Estimated autocorrelations	=	1	Number of groups	=	93
Estimated coefficients	=	19	Time periods	=	4
			Wald chi2(18)	=	1759.99
Log likelihood	=	161.7028	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	.1290284	.0472319	2.73	0.006	.0364556	.2216012
ld_t	-.0181609	.0427863	-0.42	0.671	-.1020206	.0656987
ld_t2	-.005786	.0122887	-0.47	0.638	-.0298714	.0182993
ldcos	.0025836	.0148618	0.17	0.862	-.026545	.0317123
ldsin	.0028366	.018264	0.16	0.877	-.0329601	.0386333
y1980	-.3916455	.0645314	-6.07	0.000	-.5181247	-.2651662
y1990	-.1299555	.0944496	-1.38	0.169	-.3150733	.0551623
y2000	-.2677674	.1183604	-2.26	0.024	-.4997496	-.0357853
ldc1	-.1834399	.0544216	-3.37	0.001	-.2901043	-.0767755
ldc1_t	-.0064051	.0215625	-0.30	0.766	-.0486668	.0358566
ldrd	-.0196204	.0218213	-0.90	0.369	-.0623893	.0231484
ldrd_t	.0186881	.0095626	1.95	0.051	-.0000543	.0374305
ldrt	-.0083773	.0391368	-0.21	0.831	-.085084	.0683295
ldrt_t	.0235893	.0171538	1.38	0.169	-.0100316	.0572101
ldrr	.0470615	.0175933	2.67	0.007	.0125792	.0815438
ldrr_t	-.0360935	.0075489	-4.78	0.000	-.0508891	-.0212978
ldtt	.3857259	.0699402	5.52	0.000	.2486457	.5228062
ldtt_t	-.0494365	.0238543	-2.07	0.038	-.0961902	-.0026829
_cons	-2.652018	.1277302	-20.76	0.000	-2.902364	-2.401671

###### 1.1.2 Linear Specification

model for under6 for site 4, xs/ts with hetero, xscorr

(sum of wgt is 1.4218e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.4857)

Estimated covariances	=	93	Number of obs	=	372
Estimated autocorrelations	=	1	Number of groups	=	93
Estimated coefficients	=	18	Time periods	=	4
			Wald chi2(17)	=	1780.25
Log likelihood	=	161.3607	Prob > chi2	=	0.0000

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depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	.1318364	.0448743	2.94	0.003	.0438843	.2197884
ld_t	-.0372735	.0196534	-1.90	0.058	-.0757934	.0012465
ldcos	.0035432	.014765	0.24	0.810	-.0253956	.032482
ldsin	.0036888	.0181833	0.20	0.839	-.0319498	.0393274
y1980	-.3675674	.0414457	-8.87	0.000	-.4487994	-.2863354
y1990	-.102039	.0785395	-1.30	0.194	-.2559736	.0518955
y2000	-.2608945	.1158996	-2.25	0.024	-.4880536	-.0337353
ldc1	-.1830544	.0543608	-3.37	0.001	-.2895997	-.0765092
ldc1_t	-.0067963	.0215484	-0.32	0.752	-.0490304	.0354379
ldrdr	-.0200233	.0218352	-0.92	0.359	-.0628195	.0227729
ldrdr_t	.0190471	.009582	1.99	0.047	.0002667	.0378274
ldrdr	-.0076399	.0390749	-0.20	0.845	-.0842253	.0689455
ldrdr_t	.0240376	.0171509	1.40	0.161	-.0095776	.0576528
ldrdr	.0470603	.0176339	2.67	0.008	.0124986	.081622
ldrdr_t	-.0364883	.0075754	-4.82	0.000	-.0513358	-.0216407
ldtt	.3866829	.0696919	5.55	0.000	.2500893	.5232765
ldtt_t	-.0485884	.0238201	-2.04	0.041	-.095275	-.0019018
_cons	-2.661739	.1248043	-21.33	0.000	-2.906351	-2.417127

---

## 1.2 Children Age 6 to 17

### 1.2.1 Quadratic Specification

model for kid6to17 for site 4, xs/ts with hetero, xscorr

(sum of wgt is 1.4218e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.5713)

Estimated covariances	=	93	Number of obs	=	372
Estimated autocorrelations	=	1	Number of groups	=	93
Estimated coefficients	=	19	Time periods	=	4
			Wald chi2(18)	=	1790.49
Log likelihood	=	190.418	Prob > chi2	=	0.0000

---

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.0206011	.0492692	-0.42	0.676	-.117167	.0759648
ld_t	.072172	.0428629	1.68	0.092	-.0118377	.1561817
ld_t2	-.0166115	.0122857	-1.35	0.176	-.0406911	.0074682
ldcos	.0469497	.0157217	2.99	0.003	.0161357	.0777637
ldsin	.027943	.0201762	1.38	0.166	-.0116016	.0674876
y1980	-.4270188	.0648332	-6.59	0.000	-.5540895	-.2999481
y1990	-.865933	.0958432	-9.03	0.000	-1.053782	-.6780838
y2000	-.5958658	.1203437	-4.95	0.000	-.8317351	-.3599964
ldc1	-.0193645	.0573299	-0.34	0.736	-.1317291	.0930001
ldc1_t	-.0487482	.0204394	-2.39	0.017	-.0888087	-.0086878
ldrd	.0459116	.0194035	2.37	0.018	.0078814	.0839418
ldrd_t	-.0062608	.008008	-0.78	0.434	-.0219562	.0094346
ldrt	.0205539	.0373158	0.55	0.582	-.0525838	.0936915
ldrt_t	-.0098063	.0155015	-0.63	0.527	-.0401887	.0205761
ldrr	.0219853	.0176506	1.25	0.213	-.0126093	.0565799
ldrr_t	-.014264	.007119	-2.00	0.045	-.028217	-.000311
ldtt	.2703297	.080102	3.37	0.001	.1133326	.4273267
ldtt_t	.0454018	.0240754	1.89	0.059	-.0017852	.0925889
_cons	-1.493652	.1418719	-10.53	0.000	-1.771716	-1.215589

## 1.2.2 Linear Specification

model for kid6to17 for site 4, xs/ts with hetero, xscorr  
(sum of wgt is 1.4218e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (0.5704)

Estimated covariances	=	93	Number of obs	=	372
Estimated autocorrelations	=	1	Number of groups	=	93
Estimated coefficients	=	18	Time periods	=	4
			Wald chi2(17)	=	1776.34
Log likelihood	=	189.4185	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.0070801	.0486663	-0.15	0.884	-.1024643	.088304
ld_t	.0193773	.0196225	0.99	0.323	-.0190821	.0578368
ldcos	.0469978	.01574	2.99	0.003	.016148	.0778477
ldsin	.0273865	.0201955	1.36	0.175	-.012196	.0669691
y1980	-.3578891	.0422496	-8.47	0.000	-.4406968	-.2750814
y1990	-.7922547	.0814874	-9.72	0.000	-.951967	-.6325424
y2000	-.5820734	.1208026	-4.82	0.000	-.818842	-.3453047
ldc1	-.0188736	.057522	-0.33	0.743	-.1316145	.0938674
ldc1_t	-.0481585	.0205159	-2.35	0.019	-.0883689	-.007948
ldrd	.0460815	.019497	2.36	0.018	.0078681	.084295
ldrd_t	-.0063483	.0080502	-0.79	0.430	-.0221264	.0094297
ldrt	.0194144	.0372907	0.52	0.603	-.0536739	.0925028
ldrt_t	-.0089259	.0154973	-0.58	0.565	-.0393001	.0214483
ldrr	.0219625	.0177381	1.24	0.216	-.0128036	.0567286

ldrr_t		-.014281	.0071618	-1.99	0.046	-.0283179	-.0002442
ldtt		.2698189	.0801641	3.37	0.001	.1127003	.4269376
ldtt_t		.0446932	.0241354	1.85	0.064	-.0026113	.0919977
_cons		-1.518139	.1413561	-10.74	0.000	-1.795192	-1.241087

---

## 1.3 Adults

### 1.3.1 Quadratic Specification

model for adults for site 4, xs/ts with hetero, xscorr  
(sum of wgt is 1.4218e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.5463)

Estimated covariances	=	93	Number of obs	=	372
Estimated autocorrelations	=	1	Number of groups	=	93
Estimated coefficients	=	19	Time periods	=	4
Log likelihood	=	231.734	Wald chi2(18)	=	712.65
			Prob > chi2	=	0.0000

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depvar		Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld		-.0180884	.0389284	-0.46	0.642	-.0943868 .0582099
ld_t		-.0260064	.0342246	-0.76	0.447	-.0930853 .0410726
ld_t2		.0192058	.0098128	1.96	0.050	-.0000269 .0384385
ldcos		-.0209293	.0129402	-1.62	0.106	-.0462916 .0044329
ldsin		-.0110337	.0149347	-0.74	0.460	-.0403052 .0182378
y1980		.3022063	.052986	5.70	0.000	.1983555 .406057
y1990		.3135891	.080451	3.90	0.000	.1559079 .4712702
y2000		.0975351	.1035508	0.94	0.346	-.1054207 .300491
ldc1		.0321933	.0520694	0.62	0.536	-.0698609 .1342475
ldc1_t		-.0027243	.020235	-0.13	0.893	-.0423843 .0369356
ldrd		.0000958	.0173807	0.01	0.996	-.0339697 .0341613
ldrd_t		.0002109	.0072302	0.03	0.977	-.0139601 .0143819
ldrt		-.0046746	.0336672	-0.14	0.890	-.0706612 .0613119
ldrt_t		-.0064978	.0139943	-0.46	0.642	-.0339262 .0209306
ldrr		-.0017122	.0162077	-0.11	0.916	-.0334787 .0300542
ldrr_t		.0051571	.00678	0.76	0.447	-.0081314 .0184457
ldtt		-.1970598	.0658494	-2.99	0.003	-.3261222 -.0679974
ldtt_t		.0229147	.0230869	0.99	0.321	-.0223349 .0681642
_cons		.6380853	.1093925	5.83	0.000	.4236799 .8524907

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### 1.3.2 Linear Specification

model for adults for site 4, xs/ts with hetero, xscorr  
(sum of wgt is 1.4218e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.5426)

Estimated covariances	=	93	Number of obs	=	372
Estimated autocorrelations	=	1	Number of groups	=	93
Estimated coefficients	=	18	Time periods	=	4
Log likelihood	=	230.1301	Wald chi2(17)	=	685.52
			Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.0366726	.0402391	-0.91	0.362	-.1155398	.0421947
ld_t	.0374512	.01677	2.23	0.026	.0045825	.0703199
ldcos	-.0211394	.0129879	-1.63	0.104	-.0465952	.0043164
ldsin	-.01057	.0149308	-0.71	0.479	-.0398338	.0186937
y1980	.2177098	.0378044	5.76	0.000	.1436144	.2918051
y1990	.217089	.0722391	3.01	0.003	.075503	.358675
y2000	.0633933	.1068927	0.59	0.553	-.1461125	.2728991
ldc1	.0320259	.0524316	0.61	0.541	-.0707381	.13479
ldc1_t	-.00359	.0204297	-0.18	0.861	-.0436314	.0364514
ldrd	-.0012572	.0176365	-0.07	0.943	-.0358241	.0333097
ldrd_t	.0005399	.0073712	0.07	0.942	-.0139074	.0149873
ldrt	-.0036442	.0338362	-0.11	0.914	-.0699619	.0626735
ldrt_t	-.0075461	.0140801	-0.54	0.592	-.0351427	.0200505
ldrr	-.0016366	.0163577	-0.10	0.920	-.0336971	.0304239
ldrr_t	.0052715	.0068486	0.77	0.441	-.0081515	.0186946
ldtt	-.197666	.066105	-2.99	0.003	-.3272295	-.0681025
ldtt_t	.0244761	.023302	1.05	0.294	-.0211949	.0701472
_cons	.6730348	.1109135	6.07	0.000	.4556484	.8904212

## 1.4 Seniors

### 1.4.1 Quadratic Specification

model for seniors for site 4, xs/ts with hetero, xscorr  
(sum of wgt is 1.4218e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.7016)

Estimated covariances	=	93	Number of obs	=	372
Estimated autocorrelations	=	1	Number of groups	=	93
Estimated coefficients	=	19	Time periods	=	4
Log likelihood	=	-6.399648	Wald chi2(18)	=	707.42
			Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.2941575	.0838095	-3.51	0.000	-.4584211	-.1298938
ld_t	-.0684562	.0584774	-1.17	0.242	-.1830698	.0461574

ld_t2		.0150925	.0161663	0.93	0.351	-.0165929	.0467779
ldcos		-.0180669	.0299942	-0.60	0.547	-.0768544	.0407206
ldsin		.0389874	.0318372	1.22	0.221	-.0234123	.1013871
y1980		.4536405	.0913561	4.97	0.000	.2745857	.6326952
y1990		.827453	.1405868	5.89	0.000	.551908	1.102998
y2000		.833489	.1830778	4.55	0.000	.4746632	1.192315
ldc1		-.0050739	.0945582	-0.05	0.957	-.1904046	.1802567
ldc1_t		.1417037	.0304349	4.66	0.000	.0820523	.2013551
ldrdrd		-.1253533	.0421987	-2.97	0.003	-.2080613	-.0426454
ldrdrd_t		.0316104	.0150413	2.10	0.036	.00213	.0610908
ldrdrd		.2430086	.0684847	3.55	0.000	.1087811	.3772361
ldrdrd_t		-.0735129	.0252736	-2.91	0.004	-.1230482	-.0239775
ldrdrd		-.2260651	.0320653	-7.05	0.000	-.288912	-.1632183
ldrdrd_t		.0786308	.0118545	6.63	0.000	.0553964	.1018652
ldrdrd		-.2186544	.1167446	-1.87	0.061	-.4474696	.0101609
ldrdrd_t		-.0529688	.0342443	-1.55	0.122	-.1200863	.0141488
_cons		-2.522433	.2165435	-11.65	0.000	-2.946851	-2.098016

## 1.4.2 Linear Specification

model for seniors for site 4, xs/ts with hetero, xscorr  
(sum of wgt is 1.4218e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (0.7016)

Estimated covariances	=	93	Number of obs	=	372
Estimated autocorrelations	=	1	Number of groups	=	93
Estimated coefficients	=	18	Time periods	=	4
			Wald chi2(17)	=	759.00
Log likelihood	=	-4.710217	Prob > chi2	=	0.0000

depvar		Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld		-.3097494	.0716811	-4.32	0.000	-.4502418	-.1692571
ld_t		-.0176016	.0265225	-0.66	0.507	-.0695847	.0343814
ldcos		-.0172531	.0304412	-0.57	0.571	-.0769168	.0424106
ldsin		.0387389	.0319703	1.21	0.226	-.0239218	.1013995
y1980		.3924849	.0591425	6.64	0.000	.2765678	.508402
y1990		.7618221	.1133824	6.72	0.000	.5395966	.9840476
y2000		.8226244	.1678389	4.90	0.000	.4936661	1.151583
ldc1		.0068574	.0932594	0.07	0.941	-.1759276	.1896424
ldc1_t		.1384366	.0299988	4.61	0.000	.0796401	.1972331
ldrdrd		-.1258294	.0417873	-3.01	0.003	-.2077309	-.0439278
ldrdrd_t		.0318009	.0148957	2.13	0.033	.0026059	.0609958
ldrdrd		.2486855	.06494	3.83	0.000	.1214055	.3759656
ldrdrd_t		-.0771738	.0240998	-3.20	0.001	-.1244085	-.0299392
ldrdrd		-.2278118	.0317939	-7.17	0.000	-.2901266	-.1654969
ldrdrd_t		.0791912	.0117622	6.73	0.000	.0561376	.1022447
ldrdrd		-.2322188	.1150375	-2.02	0.044	-.4576882	-.0067494
ldrdrd_t		-.0507	.03363	-1.51	0.132	-.1166135	.0152136
_cons		-2.498165	.207811	-12.02	0.000	-2.905467	-2.090863

## 2 Cinnaminson Landfill (NJ)

### 2.1 Children under Age 6

#### 2.1.1 Quadratic Specification

model for under6 for site 5, xs/ts with hetero, xscorr  
(sum of wgt is 3.1536e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.3479)

Estimated covariances	=	177	Number of obs	=	708
Estimated autocorrelations	=	1	Number of groups	=	177
Estimated coefficients	=	23	Time periods	=	4
Log likelihood	=	149.8927	Wald chi2(22)	=	1829.22
			Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld	-.0300613	.042305	-0.71	0.477	-.1129775 .0528549
ld_t	.043513	.0480906	0.90	0.366	-.0507428 .1377688
ld_t2	-.0054603	.0147458	-0.37	0.711	-.0343615 .0234409
ldcos	-.0645604	.0157884	-4.09	0.000	-.0955051 -.0336157
ldsin	-.0397597	.0353089	-1.13	0.260	-.1089638 .0294444
y1980	-.1582051	.0934943	-1.69	0.091	-.3414506 .0250403
y1990	.1931773	.1549038	1.25	0.212	-.1104285 .4967831
y2000	.0540253	.2139219	0.25	0.801	-.365254 .4733046
ldap	.0594017	.0350643	1.69	0.090	-.0093231 .1281265
ldap_t	.0019965	.0132225	0.15	0.880	-.0239191 .0279122
ldc1	-.2034194	.0775607	-2.62	0.009	-.3554355 -.0514032
ldc1_t	-.1857495	.0318946	-5.82	0.000	-.2482617 -.1232373
ldc2	.3622972	.0615056	5.89	0.000	.2417484 .482846
ldc2_t	.0325826	.0244524	1.33	0.183	-.0153433 .0805085
ldrd	-.0050507	.0138044	-0.37	0.714	-.0321068 .0220055
ldrd_t	-.0057947	.0068179	-0.85	0.395	-.0191575 .007568
ldrt	-.2879395	.036231	-7.95	0.000	-.3589511 -.216928
ldrt_t	.0948896	.0152484	6.22	0.000	.0650034 .1247759
ldrr	.0004443	.0136835	0.03	0.974	-.0263747 .0272634
ldrr_t	-.0037329	.0067736	-0.55	0.582	-.017009 .0095432
ldtt	.1137975	.0537611	2.12	0.034	.0084277 .2191673
ldtt_t	-.0148594	.0205717	-0.72	0.470	-.0551791 .0254604
_cons	-2.260195	.2695546	-8.38	0.000	-2.788512 -1.731878

#### 2.1.2 Linear Specification

model for under6 for site 5, xs/ts with hetero, xscorr  
(sum of wgt is 3.1536e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.3492)

Estimated covariances	=	177	Number of obs	=	708
Estimated autocorrelations	=	1	Number of groups	=	177
Estimated coefficients	=	22	Time periods	=	4
			Wald chi2(21)	=	1839.17
Log likelihood	=	150.0365	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.0255059	.0405718	-0.63	0.530	-.1050252	.0540135
ld_t	.026892	.0189205	1.42	0.155	-.0101915	.0639755
ldcos	-.0649272	.0157207	-4.13	0.000	-.0957392	-.0341151
ldsin	-.0394877	.0353011	-1.12	0.263	-.1086766	.0297012
y1980	-.1369916	.0719848	-1.90	0.057	-.2780792	.0040961
y1990	.2145245	.1423713	1.51	0.132	-.0645182	.4935672
y2000	.0528415	.2129907	0.25	0.804	-.3646126	.4702955
ldap	.0583269	.0349483	1.67	0.095	-.0101705	.1268243
ldap_t	.0022654	.0131771	0.17	0.863	-.0235612	.0280921
ldc1	-.2035482	.0773516	-2.63	0.009	-.3551546	-.0519417
ldc1_t	-.1856304	.0318549	-5.83	0.000	-.2480649	-.1231959
ldc2	.361532	.0616549	5.86	0.000	.2406906	.4823734
ldc2_t	.0329206	.0244868	1.34	0.179	-.0150726	.0809138
ldrd	-.0054163	.0138103	-0.39	0.695	-.032484	.0216514
ldrd_t	-.0056896	.0068189	-0.83	0.404	-.0190543	.0076751
ldrt	-.2874246	.0362024	-7.94	0.000	-.35838	-.2164691
ldrt_t	.0948212	.0152342	6.22	0.000	.0649628	.1246796
ldrr	.0002404	.0136894	0.02	0.986	-.0265904	.0270711
ldrr_t	-.0036764	.0067725	-0.54	0.587	-.0169503	.0095976
ldtt	.1130263	.0537584	2.10	0.036	.0076617	.2183909
ldtt_t	-.0151024	.0205857	-0.73	0.463	-.0554496	.0252448
_cons	-2.2649	.2675131	-8.47	0.000	-2.789216	-1.740584

## 2.2 Children Age 6 to 17

### 2.2.1 Quadratic Specification

model for kid6to17 for site 5, xs/ts with hetero, xscorr  
(sum of wgt is 3.1536e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.4868)

Estimated covariances	=	177	Number of obs	=	708
Estimated autocorrelations	=	1	Number of groups	=	177
Estimated coefficients	=	23	Time periods	=	4
			Wald chi2(22)	=	3068.66
Log likelihood	=	309.9469	Prob > chi2	=	0.0000



depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.0314646	.0270532	-1.16	0.245	-.0844879	.0215587
ld_t	.0210902	.0283469	0.74	0.457	-.0344687	.0766491
ld_t2	.0009518	.0086771	0.11	0.913	-.0160551	.0179587
ldcos	-.0903402	.0154043	-5.86	0.000	-.120532	-.0601485
ldsin	-.0927567	.0287302	-3.23	0.001	-.1490668	-.0364466
y1980	-.2200577	.0733581	-3.00	0.003	-.363837	-.0762784
y1990	-.3574564	.1336339	-2.67	0.007	-.619374	-.0955388
y2000	.0241567	.1937386	0.12	0.901	-.3555639	.4038773
ldap	-.0354828	.0267136	-1.33	0.184	-.0878404	.0168749
ldap_t	.0360883	.0103227	3.50	0.000	.0158561	.0563205
ldc1	-.1171414	.0657749	-1.78	0.075	-.2460577	.011775
ldc1_t	-.2220711	.0241246	-9.21	0.000	-.2693545	-.1747877
ldc2	.1445299	.048241	3.00	0.003	.0499792	.2390805
ldc2_t	.1268833	.0151776	8.36	0.000	.0971357	.1566309
ldrd	.0153909	.010496	1.47	0.143	-.0051809	.0359628
ldrd_t	-.004178	.0048602	-0.86	0.390	-.0137038	.0053478
ldrt	-.0886813	.0292547	-3.03	0.002	-.1460195	-.0313431
ldrt_t	.0192658	.0113171	1.70	0.089	-.0029152	.0414468
ldrr	.050489	.0117158	4.31	0.000	.0275263	.0734516
ldrr_t	-.0246985	.0054648	-4.52	0.000	-.0354094	-.0139876
ldtt	.0677039	.0419987	1.61	0.107	-.0146119	.1500198
ldtt_t	.0119867	.0159987	0.75	0.454	-.0193702	.0433437
_cons	-.957455	.2230184	-4.29	0.000	-1.394563	-.5203469

## 2.2.2 Linear Specification

model for kid6to17 for site 5, xs/ts with hetero, xscorr  
(sum of wgt is 3.1536e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.4876)

Estimated covariances	=	177	Number of obs	=	708
Estimated autocorrelations	=	1	Number of groups	=	177
Estimated coefficients	=	22	Time periods	=	4
			Wald chi2(21)	=	3090.06
Log likelihood	=	310.2481	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.0326292	.0278778	-1.17	0.242	-.0872686	.0220102
ld_t	.0239027	.0125026	1.91	0.056	-.0006019	.0484074
ldcos	-.0903024	.0154602	-5.84	0.000	-.1206038	-.060001
ldsin	-.0919893	.0290931	-3.16	0.002	-.1490108	-.0349677
y1980	-.2235965	.065454	-3.42	0.001	-.3518839	-.0953091
y1990	-.3616161	.1301936	-2.78	0.005	-.6167909	-.1064412
y2000	.0239015	.1950779	0.12	0.902	-.3584442	.4062471
ldap	-.0352431	.0267762	-1.32	0.188	-.0877235	.0172374
ldap_t	.0362617	.010317	3.51	0.000	.0160407	.0564826
ldc1	-.1165969	.0657945	-1.77	0.076	-.2455517	.012358

ldc1_t		-.2223683	.0240715	-9.24	0.000	-.2695475	-.1751891
ldc2		.143211	.0482543	2.97	0.003	.0486342	.2377877
ldc2_t		.1272874	.0151517	8.40	0.000	.0975908	.1569841
ldrdr		.0152913	.0105216	1.45	0.146	-.0053306	.0359132
ldrdr_t		-.0041867	.0048703	-0.86	0.390	-.0137324	.0053589
ldrdr_t		-.0885104	.029269	-3.02	0.002	-.1458766	-.0311443
ldrdr_t		.0190551	.0113256	1.68	0.092	-.0031427	.0412529
ldrdr		.0505816	.0117319	4.31	0.000	.0275876	.0735757
ldrdr_t		-.0247585	.0054683	-4.53	0.000	-.0354763	-.0140408
ldtt		.0671196	.0422658	1.59	0.112	-.0157198	.1499591
ldtt_t		.0119891	.0159918	0.75	0.453	-.0193543	.0433325
_cons		-.9531748	.2262118	-4.21	0.000	-1.396542	-.5098078

## 2.3 Adults

### 2.3.1 Quadratic Specification

model for adults for site 5, xs/ts with hetero, xscorr  
(sum of wgt is 3.1536e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (0.2619)

Estimated covariances	=	177	Number of obs	=	708
Estimated autocorrelations	=	1	Number of groups	=	177
Estimated coefficients	=	23	Time periods	=	4
			Wald chi2(22)	=	561.98
Log likelihood	=	520.124	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld	.062626	.0201851	3.10	0.002	.023064 .102188
ld_t	-.0519256	.0235242	-2.21	0.027	-.0980321 -.0058191
ld_t2	.0112638	.0072731	1.55	0.121	-.0029913 .0255188
ldcos	.0074147	.0092989	0.80	0.425	-.0108108 .0256402
ldsin	-.0255741	.0187895	-1.36	0.173	-.0624009 .0112527
y1980	.0029837	.0529634	0.06	0.955	-.1008228 .1067901
y1990	-.1812837	.0920559	-1.97	0.049	-.36171 -.0008574
y2000	-.3970397	.1308947	-3.03	0.002	-.6535887 -.1404908
ldap	-.0853808	.0201133	-4.24	0.000	-.1248022 -.0459595
ldap_t	.0566628	.0086605	6.54	0.000	.0396885 .0736371
ldc1	.080133	.0402326	1.99	0.046	.0012787 .1589874
ldc1_t	.0209656	.0176677	1.19	0.235	-.0136624 .0555935
ldc2	-.0993113	.0336288	-2.95	0.003	-.1652225 -.0334001
ldc2_t	.0605183	.0133538	4.53	0.000	.0343453 .0866913
ldrdr	.001551	.0067929	0.23	0.819	-.0117628 .0148648
ldrdr_t	.0021146	.0034301	0.62	0.538	-.0046082 .0088375
ldrdr_t	.0636878	.021999	2.90	0.004	.0205706 .1068051
ldrdr_t	-.0711742	.0094784	-7.51	0.000	-.0897516 -.0525967
ldrdr	-.0144087	.0073276	-1.97	0.049	-.0287706 -.0000469

ldrr_t		.0093203	.0036768	2.53	0.011	.0021138	.0165267
ldtt		.045384	.032036	1.42	0.157	-.0174054	.1081735
ldtt_t		.0219575	.0135791	1.62	0.106	-.0046571	.048572
_cons		.1355741	.1405282	0.96	0.335	-.1398562	.4110044

### 2.3.2 Linear Specification

model for adults for site 5, xs/ts with hetero, xscorr  
(sum of wgt is 3.1536e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (0.2602)

Estimated covariances	=	177	Number of obs	=	708
Estimated autocorrelations	=	1	Number of groups	=	177
Estimated coefficients	=	22	Time periods	=	4
			Wald chi2(21)	=	562.65
Log likelihood	=	519.612	Prob > chi2	=	0.0000

depvar		Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld		.0587691	.0207315	2.83	0.005	.0181361 .0994021
ld_t		-.0214871	.0100677	-2.13	0.033	-.0412195 -.0017547
ldcos		.0063235	.0093537	0.68	0.499	-.0120094 .0246564
ldsin		-.0264507	.0193884	-1.36	0.172	-.0644513 .0115499
y1980		-.0422043	.0454598	-0.93	0.353	-.1313038 .0468952
y1990		-.2265318	.0901019	-2.51	0.012	-.4031283 -.0499354
y2000		-.3942429	.1348814	-2.92	0.003	-.6586055 -.1298802
ldap		-.0879557	.0205056	-4.29	0.000	-.1281458 -.0477655
ldap_t		.0588493	.0087582	6.72	0.000	.0416835 .076015
ldc1		.0794817	.040938	1.94	0.052	-.0007552 .1597186
ldc1_t		.0196073	.0178667	1.10	0.272	-.0154108 .0546254
ldc2		-.1007143	.0336841	-2.99	0.003	-.166734 -.0346947
ldc2_t		.0636185	.0133878	4.75	0.000	.037379 .0898581
ldrd		.0010286	.0067094	0.15	0.878	-.0121215 .0141787
ldrd_t		.0022028	.0033931	0.65	0.516	-.0044474 .0088531
ldrt		.0654513	.0219071	2.99	0.003	.0225142 .1083885
ldrt_t		-.0728259	.009403	-7.74	0.000	-.0912554 -.0543965
ldrr		-.0146921	.0073902	-1.99	0.047	-.0291766 -.0002076
ldrr_t		.0091444	.0037146	2.46	0.014	.0018639 .0164248
ldtt		.0457895	.032492	1.41	0.159	-.0178937 .1094726
ldtt_t		.02234	.0137134	1.63	0.103	-.0045378 .0492178
_cons		.1497896	.145139	1.03	0.302	-.1346775 .4342568

## 2.4 Seniors

### 2.4.1 Quadratic Specification

model for seniors for site 5, xs/ts with hetero, xscorr  
(sum of wgt is 3.1536e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
 Panels: heteroskedastic  
 Correlation: common AR(1) coefficient for all panels (0.6414)

Estimated covariances	=	177	Number of obs	=	708
Estimated autocorrelations	=	1	Number of groups	=	177
Estimated coefficients	=	23	Time periods	=	4
			Wald chi2(22)	=	2634.15
Log likelihood	=	-3.202675	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.1031946	.0530976	-1.94	0.052	-.207264	.0008749
ld_t	.1365499	.0425716	3.21	0.001	.0531111	.2199887
ld_t2	-.0508926	.0125851	-4.04	0.000	-.0755589	-.0262262
ldcos	.206023	.0279687	7.37	0.000	.1512053	.2608407
ldsin	.15064	.0616402	2.44	0.015	.0298275	.2714525
y1980	-.1717551	.1095657	-1.57	0.117	-.3865	.0429897
y1990	-.3034124	.2021498	-1.50	0.133	-.6996188	.0927939
y2000	-.6138214	.2945039	-2.08	0.037	-1.191038	-.0366044
ldap	.0597341	.0461869	1.29	0.196	-.0307906	.1502589
ldap_t	-.0689207	.0156955	-4.39	0.000	-.0996833	-.0381581
ldc1	-.0120403	.1336522	-0.09	0.928	-.2739939	.2499132
ldc1_t	.4493123	.0453385	9.91	0.000	.3604505	.538174
ldc2	-.3928385	.09471	-4.15	0.000	-.5784666	-.2072104
ldc2_t	-.1983404	.0290602	-6.83	0.000	-.2552973	-.1413834
ldrdr	-.0622239	.0212069	-2.93	0.003	-.1037886	-.0206591
ldrdr_t	.0204781	.0088418	2.32	0.021	.0031484	.0378077
ldrdr_t	.4416533	.0490329	9.01	0.000	.3455505	.5377561
ldrdr_t	-.0789871	.017796	-4.44	0.000	-.1138666	-.0441075
ldrdr	-.1514559	.0245168	-6.18	0.000	-.1995078	-.1034039
ldrdr_t	.0678967	.0100451	6.76	0.000	.0482085	.0875848
ldtt	-.2311418	.0921893	-2.51	0.012	-.4118294	-.0504542
ldtt_t	.0143483	.0321552	0.45	0.655	-.0486746	.0773712
_cons	-2.010959	.444739	-4.52	0.000	-2.882631	-1.139286

### 3 Bethpage Landfill (NY)

#### 3.1 Children Under Age 6

##### 3.1.1 Quadratic Specification

model for under6 for site 6, xs/ts with hetero, xscorr  
(sum of wgt is 2.9014e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.2228)

Estimated covariances	=	147	Number of obs	=	588
Estimated autocorrelations	=	1	Number of groups	=	147
Estimated coefficients	=	21	Time periods	=	4
Log likelihood	=	310.426	Wald chi2(20)	=	2620.53
			Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	.1095296	.0323807	3.38	0.001	.0460646	.1729946
ld_t	.0565291	.0353365	1.60	0.110	-.0127292	.1257875
ld_t2	-.0278916	.010853	-2.57	0.010	-.0491632	-.0066201
ldcos	-.0701348	.0075052	-9.34	0.000	-.0848447	-.0554249
ldsin	.0005477	.008338	0.07	0.948	-.0157944	.0168898
y1980	-.4938268	.0612491	-8.06	0.000	-.6138729	-.3737807
y1990	-.3116533	.0941833	-3.31	0.001	-.4962491	-.1270575
y2000	-.3691232	.1242687	-2.97	0.003	-.6126853	-.1255611
ldap	-.0403858	.0223377	-1.81	0.071	-.0841669	.0033954
ldap_t	.0171408	.0093605	1.83	0.067	-.0012055	.035487
ldc1	-.0698813	.0230582	-3.03	0.002	-.1150746	-.024688
ldc1_t	-.021093	.0090406	-2.33	0.020	-.0388124	-.0033737
ldrd	.0037785	.007638	0.49	0.621	-.0111917	.0187488
ldrd_t	-.0042378	.0038932	-1.09	0.276	-.0118683	.0033928
ldrt	.0239328	.0168637	1.42	0.156	-.0091195	.0569851
ldrt_t	-.007347	.0085955	-0.85	0.393	-.0241939	.0095
ldrr	-.0139899	.0103267	-1.35	0.176	-.0342299	.0062501
ldrr_t	-.0033972	.0050919	-0.67	0.505	-.0133771	.0065827
ldtt	-.0571914	.0349305	-1.64	0.102	-.125654	.0112712
ldtt_t	.0138945	.0152913	0.91	0.364	-.016076	.043865
_cons	-2.118618	.0889629	-23.81	0.000	-2.292982	-1.944254

#### 3.2 Children Age 6 to 17

##### 3.2.1 Quadratic Specification

model for kid6to17 for site 6, xs/ts with hetero, xscorr  
(sum of wgt is 2.9014e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.2607)

Estimated covariances	=	147	Number of obs	=	588
Estimated autocorrelations	=	1	Number of groups	=	147
Estimated coefficients	=	21	Time periods	=	4
			Wald chi2(20)	=	9100.11
Log likelihood	=	395.5979	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.1263839	.0239026	-5.29	0.000	-.1732321	-.0795357
ld_t	.1740583	.0257314	6.76	0.000	.1236257	.2244909
ld_t2	-.0372595	.0078972	-4.72	0.000	-.0527378	-.0217812
ldcos	-.0155837	.0063185	-2.47	0.014	-.0279677	-.0031997
ldsin	.0092152	.0057611	1.60	0.110	-.0020763	.0205068
y1980	-.7027878	.0508093	-13.83	0.000	-.8023722	-.6032034
y1990	-1.202428	.0836126	-14.38	0.000	-1.366306	-1.03855
y2000	-.8855562	.1154226	-7.67	0.000	-1.11178	-.659332
ldap	.0074605	.0223322	0.33	0.738	-.0363097	.0512308
ldap_t	-.0098975	.0092377	-1.07	0.284	-.028003	.0082081
ldc1	.01416	.0145364	0.97	0.330	-.0143308	.0426508
ldc1_t	-.007885	.0056988	-1.38	0.166	-.0190544	.0032844
ldrdr	.0256322	.0059608	4.30	0.000	.0139492	.0373152
ldrdr_t	-.0080761	.0029626	-2.73	0.006	-.0138827	-.0022694
ldrdr_t	-.0301938	.0162499	-1.86	0.063	-.062043	.0016553
ldrdr_t	.0156388	.0080381	1.95	0.052	-.0001157	.0313933
ldrdr_t	.0623918	.0098219	6.35	0.000	.0431412	.0816424
ldrdr_t	-.0158883	.0049458	-3.21	0.001	-.0255818	-.0061948
ldrdr_t	.0607039	.0281491	2.16	0.031	.0055327	.1158751
ldrdr_t	-.0191513	.0134061	-1.43	0.153	-.0454268	.0071242
_cons	-.7048721	.0781209	-9.02	0.000	-.8579862	-.551758

### 3.3 Adults

#### 3.3.1 Quadratic Specification

model for adults for site 6, xs/ts with hetero, xscorr  
(sum of wgt is 2.9014e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.1797)

Estimated covariances	=	147	Number of obs	=	588
Estimated autocorrelations	=	1	Number of groups	=	147
Estimated coefficients	=	21	Time periods	=	4
			Wald chi2(20)	=	3696.20
Log likelihood	=	536.0341	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	.0044863	.0229024	0.20	0.845	-.0404015	.0493742
ld_t	-.1183658	.0244391	-4.84	0.000	-.1662655	-.070466
ld_t2	.050937	.0074227	6.86	0.000	.0363888	.0654852
ldcos	.014473	.0056002	2.58	0.010	.0034969	.0254491
ldsin	.0086089	.005532	1.56	0.120	-.0022337	.0194514
y1980	.5503714	.0436352	12.61	0.000	.464848	.6358947
y1990	.5266731	.0690881	7.62	0.000	.391263	.6620832
y2000	.1106599	.0928182	1.19	0.233	-.0712604	.2925802
ldap	.0167269	.0171594	0.97	0.330	-.0169049	.0503587
ldap_t	-.0256769	.0071813	-3.58	0.000	-.0397519	-.0116018
ldcl	-.0411976	.0152693	-2.70	0.007	-.0711249	-.0112703
ldcl_t	.0221894	.0060014	3.70	0.000	.0104268	.0339519
ldrdr	-.0038277	.0059962	-0.64	0.523	-.01558	.0079246
ldrdr_t	.0073108	.0030492	2.40	0.017	.0013345	.0132872
ldrdr_t2	-.0125852	.0112671	-1.12	0.264	-.0346684	.009498
ldrdr_t	.0139331	.0057014	2.44	0.015	.0027585	.0251077
ldrdr	.0042772	.0077907	0.55	0.583	-.0109923	.0195467
ldrdr_t	.0005407	.0039642	0.14	0.892	-.0072289	.0083103
ldtt	.0069219	.0246683	0.28	0.779	-.0414271	.0552709
ldtt_t	-.0107309	.0113658	-0.94	0.345	-.0330075	.0115458
_cons	.2393854	.0634285	3.77	0.000	.1150679	.3637029

### 3.4 Seniors

#### 3.4.1 Quadratic Specification

model for seniors for site 6, xs/ts with hetero, xscorr  
(sum of wgt is 2.9014e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.5215)

Estimated covariances	=	147	Number of obs	=	588
Estimated autocorrelations	=	1	Number of groups	=	147
Estimated coefficients	=	21	Time periods	=	4
			Wald chi2(20)	=	5384.73
Log likelihood	=	114.7214	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	.2343509	.0507538	4.62	0.000	.1348754	.3338265
ld_t	-.177081	.043121	-4.11	0.000	-.2615966	-.0925655
ld_t2	-.000863	.0127534	-0.07	0.946	-.0258593	.0241332
ldcos	.056374	.0137824	4.09	0.000	.0293609	.0833871
ldsin	-.0467586	.0122773	-3.81	0.000	-.0708217	-.0226954
y1980	.7119316	.0853375	8.34	0.000	.5446731	.8791901

y1990		1.580388	.1411516	11.20	0.000	1.303736	1.85704
y2000		2.052852	.1951245	10.52	0.000	1.670415	2.435289
ldap		-.0428049	.0336043	-1.27	0.203	-.1086681	.0230583
ldap_t		.053339	.0122992	4.34	0.000	.029233	.0774451
ldc1		.1816506	.0382584	4.75	0.000	.1066655	.2566357
ldc1_t		-.0360158	.0112565	-3.20	0.001	-.0580781	-.0139534
ldrdr		-.052846	.0113915	-4.64	0.000	-.0751729	-.0305192
ldrdr_t		.0203951	.0051222	3.98	0.000	.0103558	.0304344
ldrt		-.0052306	.0322847	-0.16	0.871	-.0685074	.0580462
ldrt_t		-.0230176	.0146568	-1.57	0.116	-.0517444	.0057092
ldrr		-.1483951	.0203502	-7.29	0.000	-.1882807	-.1085095
ldrr_t		.0515852	.0087762	5.88	0.000	.0343841	.0687863
ldtt		-.0849881	.0561282	-1.51	0.130	-.1949975	.0250212
ldtt_t		.0305069	.0224407	1.36	0.174	-.0134761	.0744898
_cons		-3.571564	.1537369	-23.23	0.000	-3.872883	-3.270245

### 3.4.2 Linear Specification

model for seniors for site 6, xs/ts with hetero, xscorr  
(sum of wgt is 2.9014e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (0.5206)

Estimated covariances	=	147	Number of obs	=	588
Estimated autocorrelations	=	1	Number of groups	=	147
Estimated coefficients	=	20	Time periods	=	4
			Wald chi2(19)	=	5430.80
Log likelihood	=	114.6658	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld	.2348403	.0517645	4.54	0.000	.1333837 .3362969
ld_t	-.1826722	.0227944	-8.01	0.000	-.2273483 -.137996
ldcos	.0562223	.0138603	4.06	0.000	.0290566 .083388
ldsin	-.0464535	.0123818	-3.75	0.000	-.0707213 -.0221857
y1980	.7166721	.0658971	10.88	0.000	.5875161 .8458281
y1990	1.586989	.1306463	12.15	0.000	1.330927 1.843051
y2000	2.059633	.1954187	10.54	0.000	1.676619 2.442646
ldap	-.0438983	.0342864	-1.28	0.200	-.1110984 .0233018
ldap_t	.0545936	.012494	4.37	0.000	.0301057 .0790815
ldc1	.1812944	.0381694	4.75	0.000	.1064836 .2561051
ldc1_t	-.0352129	.0112902	-3.12	0.002	-.0573412 -.0130845
ldrdr	-.0529945	.0114507	-4.63	0.000	-.0754374 -.0305517
ldrdr_t	.0200022	.0051652	3.87	0.000	.0098785 .0301259
ldrt	-.0066462	.0322663	-0.21	0.837	-.0698869 .0565946
ldrt_t	-.0226696	.0146589	-1.55	0.122	-.0514006 .0060613
ldrr	-.1479664	.0202485	-7.31	0.000	-.1876526 -.1082802
ldrr_t	.0513917	.0087336	5.88	0.000	.0342742 .0685091
ldtt	-.0820349	.0564869	-1.45	0.146	-.1927471 .0286774
ldtt_t	.0303274	.0225662	1.34	0.179	-.0139016 .0745564
_cons	-3.574448	.1530059	-23.36	0.000	-3.874334 -3.27456



## 4 CTS Printex, Inc. (CA)

### 4.1 Children Under Age 6

#### 4.1.1 Quadratic Specification

model for under6 for site 9, xs/ts with hetero, xscorr  
(sum of wgt is 1.6852e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.5241)

Estimated covariances	=	104	Number of obs	=	416
Estimated autocorrelations	=	1	Number of groups	=	104
Estimated coefficients	=	23	Time periods	=	4
			Wald chi2(22)	=	1120.04
Log likelihood	=	45.35512	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld	-.1948852	.1090784	-1.79	0.074	-.4086749 .0189046
ld_t	-.0406825	.0630726	-0.65	0.519	-.1643025 .0829375
ld_t2	.0214603	.0135619	1.58	0.114	-.0051206 .0480412
ldcos	.2511815	.0577224	4.35	0.000	.1380476 .3643154
ldsin	.0976613	.0664661	1.47	0.142	-.0326098 .2279325
y1980	-.8432138	1.115812	-0.76	0.450	-3.030166 1.343738
y1990	-1.019404	2.22927	-0.46	0.647	-5.388692 3.349885
y2000	-1.755617	3.341906	-0.53	0.599	-8.305634 4.794399
ldap	.1298951	.0592632	2.19	0.028	.0137413 .2460489
ldap_t	-.0145527	.0278122	-0.52	0.601	-.0690636 .0399581
ldc1	-.0653404	.2820125	-0.23	0.817	-.6180746 .4873939
ldc1_t	.0719525	.0966544	0.74	0.457	-.1174867 .2613917
ldc2	-1.36818	1.027289	-1.33	0.183	-3.381629 .6452694
ldc2_t	.0504832	.2211376	0.23	0.819	-.3829384 .4839048
ldrd	.0490718	.0240403	2.04	0.041	.0019536 .09619
ldrd_t	.0013911	.0104362	0.13	0.894	-.0190635 .0218458
ldrt	-.1952313	.088226	-2.21	0.027	-.368151 -.0223116
ldrt_t	.0088826	.0371934	0.24	0.811	-.0640151 .0817803
ldrr	-.0638513	.0297216	-2.15	0.032	-.1221046 -.0055979
ldrr_t	.009762	.012498	0.78	0.435	-.0147336 .0342576
ldtt	.0812845	.0833471	0.98	0.329	-.0820727 .2446418
ldtt_t	-.0185006	.0337417	-0.55	0.583	-.0846331 .047632
_cons	3.829839	4.505335	0.85	0.395	-5.000455 12.66013

#### 4.1.2 Linear Specification

model for under6 for site 9, xs/ts with hetero, xscorr  
(sum of wgt is 1.6852e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.5237)

Estimated covariances	=	104	Number of obs	=	416
Estimated autocorrelations	=	1	Number of groups	=	104
Estimated coefficients	=	22	Time periods	=	4
			Wald chi2(21)	=	1112.03
Log likelihood	=	44.07472	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld	-.2104426	.1086471	-1.94	0.053	-.423387 .0025018
ld_t	.0254952	.0469945	0.54	0.587	-.0666123 .1176027
ldcos	.2517308	.0577819	4.36	0.000	.1384804 .3649813
ldsin	.0980659	.0665431	1.47	0.141	-.0323563 .228488
y1980	-.9475599	1.112553	-0.85	0.394	-3.128125 1.233005
y1990	-1.148986	2.225425	-0.52	0.606	-5.510738 3.212766
y2000	-1.832764	3.33844	-0.55	0.583	-8.375986 4.710458
ldap	.1304921	.0591161	2.21	0.027	.0146266 .2463575
ldap_t	-.0152986	.0277772	-0.55	0.582	-.069741 .0391437
ldc1	-.0680664	.2823307	-0.24	0.809	-.6214244 .4852915
ldc1_t	.0746964	.0967647	0.77	0.440	-.1149589 .2643518
ldc2	-1.377756	1.027165	-1.34	0.180	-3.390963 .6354502
ldc2_t	.0546299	.220871	0.25	0.805	-.3782693 .487529
ldrd	.0494444	.0240613	2.05	0.040	.0022851 .0966037
ldrd_t	.0012462	.0104469	0.12	0.905	-.0192292 .0217217
ldrt	-.1945586	.0886108	-2.20	0.028	-.3682325 -.0208848
ldrt_t	.0084299	.0373465	0.23	0.821	-.0647679 .0816277
ldrr	-.0636256	.0297549	-2.14	0.032	-.1219441 -.005307
ldrr_t	.009918	.0125116	0.79	0.428	-.0146044 .0344403
ldtt	.0817175	.0833713	0.98	0.327	-.0816873 .2451223
ldtt_t	-.0184689	.0337736	-0.55	0.584	-.084664 .0477261
_cons	3.901656	4.504006	0.87	0.386	-4.926034 12.72935

## 4.2 Children Age 6 to 17

### 4.2.1 Quadratic Specification

model for kid6to17 for site 9, xs/ts with hetero, xscorr  
(sum of wgt is 1.6852e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.6328)

Estimated covariances	=	104	Number of obs	=	416
Estimated autocorrelations	=	1	Number of groups	=	104
Estimated coefficients	=	23	Time periods	=	4
			Wald chi2(22)	=	1431.07

Log likelihood = 50.22701 Prob > chi2 = 0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	.1864492	.1088879	1.71	0.087	-.0269671	.3998655
ld_t	-.0656619	.056722	-1.16	0.247	-.176835	.0455112
ld_t2	.0212565	.0119148	1.78	0.074	-.002096	.0446091
ldcos	-.0475823	.0701362	-0.68	0.498	-.1850468	.0898822
ldsin	.2106859	.0758354	2.78	0.005	.0620512	.3593207
y1980	.0725797	.9511294	0.08	0.939	-1.7916	1.936759
y1990	.2074998	1.899665	0.11	0.913	-3.515775	3.930775
y2000	.8708629	2.847341	0.31	0.760	-4.709823	6.451549
ldap	.2058307	.0805076	2.56	0.011	.0480387	.3636227
ldap_t	-.0742358	.031185	-2.38	0.017	-.1353572	-.0131143
ldc1	.0345647	.3101774	0.11	0.911	-.5733718	.6425011
ldc1_t	.235655	.0965329	2.44	0.015	.0464541	.424856
ldc2	2.982401	1.102377	2.71	0.007	.8217826	5.14302
ldc2_t	-.2185096	.1883581	-1.16	0.246	-.5876846	.1506654
ldrdr	.0152916	.0238334	0.64	0.521	-.031421	.0620042
ldrdr_t	.0036025	.0092417	0.39	0.697	-.014511	.0217159
ldrt	-.0350354	.0801913	-0.44	0.662	-.1922075	.1221367
ldrt_t	-.0651672	.0309734	-2.10	0.035	-.1258739	-.0044604
ldrr	.1157488	.0352688	3.28	0.001	.0466232	.1848744
ldrr_t	-.0085679	.0135297	-0.63	0.527	-.0350856	.0179498
ldtt	-.0946337	.0864066	-1.10	0.273	-.2639875	.0747201
ldtt_t	.0041216	.0321556	0.13	0.898	-.0589023	.0671455
_cons	-13.40017	4.70073	-2.85	0.004	-22.61343	-4.186905

## 4.2.2 Linear Specification

model for kid6to17 for site 9, xs/ts with hetero, xscorr  
(sum of wgt is 1.6852e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.6311)

Estimated covariances	=	104	Number of obs	=	416
Estimated autocorrelations	=	1	Number of groups	=	104
Estimated coefficients	=	22	Time periods	=	4
			Wald chi2(21)	=	1414.85
Log likelihood	=	48.23427	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	.1606168	.1106024	1.45	0.146	-.0561599	.3773936
ld_t	.0036421	.0432475	0.08	0.933	-.0811214	.0884055
ldcos	-.0465919	.0703323	-0.66	0.508	-.1844408	.0912569
ldsin	.2109017	.0757851	2.78	0.005	.0623657	.3594378
y1980	-.0593474	.9540414	-0.06	0.950	-1.929234	1.810539
y1990	.0259841	1.908212	0.01	0.989	-3.714042	3.76601

y2000		.720844	2.862581	0.25	0.801	-4.889711	6.331399
ldap		.2110027	.0811608	2.60	0.009	.0519305	.3700749
ldap_t		-.075706	.0314695	-2.41	0.016	-.1373851	-.0140269
ldc1		.0199313	.310725	0.06	0.949	-.5890784	.628941
ldc1_t		.2419723	.0974433	2.48	0.013	.0509869	.4329576
ldc2		2.958244	1.102099	2.68	0.007	.7981698	5.118319
ldc2_t		-.2108493	.1890677	-1.12	0.265	-.5814153	.1597167
ldrdr		.0158826	.0238437	0.67	0.505	-.0308503	.0626155
ldrdr_t		.0035039	.0092629	0.38	0.705	-.014651	.0216588
ldrtr		-.0327438	.0806447	-0.41	0.685	-.1908046	.125317
ldrtr_t		-.0660599	.0311696	-2.12	0.034	-.1271511	-.0049686
ldrtrr		.1150861	.035286	3.26	0.001	.0459268	.1842454
ldrtrr_t		-.0084116	.0135448	-0.62	0.535	-.0349588	.0181356
ldtrr		-.0867146	.0868266	-1.00	0.318	-.2568917	.0834625
ldtrr_t		.0014478	.0323869	0.04	0.964	-.0620294	.0649251
_cons		-13.23947	4.698586	-2.82	0.005	-22.44853	-4.030411

### 4.3 Adults

#### 4.3.1 Quadratic Specification

model for adults for site 9, xs/ts with hetero, xscorr  
(sum of wgt is 1.6852e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (0.7365)

Estimated covariances	=	104	Number of obs	=	416
Estimated autocorrelations	=	1	Number of groups	=	104
Estimated coefficients	=	23	Time periods	=	4
			Wald chi2(22)	=	749.11
Log likelihood	=	170.2889	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld	-.1257865	.0900649	-1.40	0.163	-.3023105 .0507375
ld_t	.0590288	.0391316	1.51	0.131	-.0176677 .1357252
ld_t2	-.02639	.0078341	-3.37	0.001	-.0417445 -.0110354
ldcos	.0173936	.0670013	0.26	0.795	-.1139266 .1487139
ldsin	-.0367363	.0713646	-0.51	0.607	-.1766083 .1031356
y1980	3.733847	.8928681	4.18	0.000	1.983857 5.483836
y1990	7.252277	1.78483	4.06	0.000	3.754074 10.75048
y2000	10.756	2.676412	4.02	0.000	5.510328 16.00167
ldap	-.1187304	.0820327	-1.45	0.148	-.2795115 .0420508
ldap_t	.0235523	.0235699	1.00	0.318	-.0226438 .0697484
ldc1	.2216386	.2926419	0.76	0.449	-.3519291 .7952063
ldc1_t	-.3576884	.082165	-4.35	0.000	-.5187289 -.1966478
ldc2	.022572	1.17423	0.02	0.985	-2.278877 2.324021
ldc2_t	-.6285921	.1788816	-3.51	0.000	-.9791936 -.2779906
ldrdr	-.0291901	.0227359	-1.28	0.199	-.0737516 .0153714
ldrdr_t	.0030818	.0079677	0.39	0.699	-.0125346 .0186982
ldrtr	.0374387	.0906702	0.41	0.680	-.1402717 .215149

ldrt_t		-.0050499	.0299724	-0.17	0.866	-.0637948	.0536949
ldrr		-.0623908	.0314719	-1.98	0.047	-.1240745	-.0007071
ldrr_t		-.026175	.0110256	-2.37	0.018	-.0477847	-.0045652
ldtt		.0854003	.0727845	1.17	0.241	-.0572548	.2280554
ldtt_t		.0066888	.0246768	0.27	0.786	-.0416769	.0550546
_cons		-.1311962	5.126696	-0.03	0.980	-10.17934	9.916943

## 4.4 Seniors

### 4.4.1 Quadratic Specification

model for seniors for site 9, xs/ts with hetero, xscorr  
(sum of wgt is 1.6852e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.7849)

Estimated covariances	=	104	Number of obs	=	416
Estimated autocorrelations	=	1	Number of groups	=	104
Estimated coefficients	=	23	Time periods	=	4
			Wald chi2(22)	=	598.05
Log likelihood	=	-118.7475	Prob > chi2	=	0.0000

depvar		Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld		-.0343635	.2498176	-0.14	0.891	-.523997 .45527
ld_t		-.0259127	.0920629	-0.28	0.778	-.2063528 .1545273
ld_t2		-.002485	.0161851	-0.15	0.878	-.0342073 .0292373
ldcos		-.1076321	.1642952	-0.66	0.512	-.4296448 .2143807
ldsin		-.4995224	.1458126	-3.43	0.001	-.7853098 -.2137349
y1980		-3.412795	1.699685	-2.01	0.045	-6.744117 -.0814737
y1990		-7.018261	3.397159	-2.07	0.039	-13.67657 -.3599512
y2000		-10.83329	5.094069	-2.13	0.033	-20.81748 -.8490971
ldap		.2336511	.2403155	0.97	0.331	-.2373588 .7046609
ldap_t		-.0156751	.0650305	-0.24	0.810	-.1431326 .1117823
ldc1		-1.152911	.6949886	-1.66	0.097	-2.515063 .2092419
ldc1_t		.2959635	.1804733	1.64	0.101	-.0577577 .6496847
ldc2		-5.150193	2.509301	-2.05	0.040	-10.06833 -.2320525
ldc2_t		.8588957	.3302249	2.60	0.009	.2116669 1.506125
ldrdr		-.063428	.0378868	-1.67	0.094	-.1376848 .0108287
ldrdr_t		.0168996	.0121142	1.40	0.163	-.0068438 .040643
ldrt		.5930134	.1922983	3.08	0.002	.2161157 .9699111
ldrt_t		-.1376952	.05837	-2.36	0.018	-.2520983 -.023292
ldrr		.045744	.0563312	0.81	0.417	-.0646632 .1561512
ldrr_t		.0650928	.017951	3.63	0.000	.0299096 .100276
ldtt		-.019052	.1619314	-0.12	0.906	-.3364317 .2983277
ldtt_t		-.0058633	.0511928	-0.11	0.909	-.1061994 .0944728
_cons		18.75314	10.9317	1.72	0.086	-2.672602 40.17888

## 4.4.2 Linear Specification

model for seniors for site 9, xs/ts with hetero, xscorr  
 (sum of wgt is 1.6852e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
 Panels: heteroskedastic  
 Correlation: common AR(1) coefficient for all panels (0.7876)

Estimated covariances	=	104	Number of obs	=	416
Estimated autocorrelations	=	1	Number of groups	=	104
Estimated coefficients	=	22	Time periods	=	4
			Wald chi2(21)	=	594.16
Log likelihood	=	-118.4757	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.0355886	.2523729	-0.14	0.888	-.5302305	.4590533
ld_t	-.0281844	.0775824	-0.36	0.716	-.1802431	.1238744
ldcos	-.1060828	.1650545	-0.64	0.520	-.4295838	.2174181
ldsin	-.5011418	.1470133	-3.41	0.001	-.7892827	-.213001
y1980	-3.460288	1.699112	-2.04	0.042	-6.790486	-.1300904
y1990	-7.12072	3.397737	-2.10	0.036	-13.78016	-.4612768
y2000	-11.0007	5.096057	-2.16	0.031	-20.98878	-1.01261
ldap	.235872	.2414222	0.98	0.329	-.2373068	.7090508
ldap_t	-.0183925	.06511	-0.28	0.778	-.1460057	.1092207
ldc1	-1.152842	.6970649	-1.65	0.098	-2.519065	.2133797
ldc1_t	.3035406	.1807691	1.68	0.093	-.0507604	.6578415
ldc2	-5.172484	2.520237	-2.05	0.040	-10.11206	-.2329105
ldc2_t	.8677321	.3300497	2.63	0.009	.2208465	1.514618
ldrd	-.0624977	.0382164	-1.64	0.102	-.1374004	.012405
ldrd_t	.0163667	.0121827	1.34	0.179	-.0075109	.0402443
ldrt	.5940005	.1931951	3.07	0.002	.2153449	.972656
ldrt_t	-.1389055	.058313	-2.38	0.017	-.253197	-.024614
ldrr	.0454604	.0564348	0.81	0.421	-.0651497	.1560706
ldrr_t	.0653631	.0179022	3.65	0.000	.0302753	.1004508
ldtt	-.0184188	.1637602	-0.11	0.910	-.3393829	.3025453
ldtt_t	-.0084945	.0515407	-0.16	0.869	-.1095125	.0925234
_cons	18.83674	10.96978	1.72	0.086	-2.663642	40.33711

## 5 Montrose Chemical (CA)

### 5.1 Children Under Age 6

#### 5.1.1 Quadratic Specification

model for under6 for site 10, xs/ts with hetero, xscorr  
(sum of wgt is 4.6880e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.5214)

Estimated covariances	=	271	Number of obs	=	1084
Estimated autocorrelations	=	1	Number of groups	=	271
Estimated coefficients	=	21	Time periods	=	4
Log likelihood	=	280.4987	Wald chi2(20)	=	3439.11
			Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.0981587	.0333792	-2.94	0.003	-.1635807	-.0327366
ld_t	.0769208	.0281231	2.74	0.006	.0218005	.1320411
ld_t2	-.0250216	.0079526	-3.15	0.002	-.0406085	-.0094347
ldcos	-.036744	.0097197	-3.78	0.000	-.0557942	-.0176938
ldsin	-.1058654	.0177034	-5.98	0.000	-.1405634	-.0711674
y1980	-.2970563	.0936592	-3.17	0.002	-.480625	-.1134877
y1990	-.1339907	.1784037	-0.75	0.453	-.4836555	.2156741
y2000	-.2814899	.2626407	-1.07	0.284	-.7962562	.2332764
ldap	.0672291	.0203112	3.31	0.001	.0274199	.1070382
ldap_t	-.0497524	.0087013	-5.72	0.000	-.0668066	-.0326982
ldc1	-.8897308	.0987091	-9.01	0.000	-1.083197	-.6962645
ldc1_t	-.0180551	.0206777	-0.87	0.383	-.0585827	.0224725
ldrd	.0451642	.0122395	3.69	0.000	.0211751	.0691532
ldrd_t	.0000623	.0052678	0.01	0.991	-.0102624	.0103871
ldrt	.0754084	.0322123	2.34	0.019	.0122733	.1385434
ldrt_t	.0686641	.0136587	5.03	0.000	.0418935	.0954346
ldrr	-.0365266	.0106391	-3.43	0.001	-.0573787	-.0156744
ldrr_t	-.0015706	.0045263	-0.35	0.729	-.010442	.0073007
ldtt	-.066139	.0222812	-2.97	0.003	-.1098093	-.0224687
ldtt_t	-.0317398	.0083397	-3.81	0.000	-.0480853	-.0153944
_cons	.866411	.338744	2.56	0.011	.202485	1.530337

### 5.2 Children Age 6 to 17

#### 5.2.1 Quadratic Specification

model for kid6to17 for site 10, xs/ts with hetero, xscorr  
(sum of wgt is 4.6880e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.5011)

Estimated covariances	=	271	Number of obs	=	1084
Estimated autocorrelations	=	1	Number of groups	=	271
Estimated coefficients	=	21	Time periods	=	4
			Wald chi2(20)	=	3518.91
Log likelihood	=	270.4209	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.0507727	.0353763	-1.44	0.151	-.120109	.0185636
ld_t	.1471652	.0306068	4.81	0.000	.0871769	.2071534
ld_t2	-.0467188	.0086815	-5.38	0.000	-.0637343	-.0297034
ldcos	.00464	.0099238	0.47	0.640	-.0148103	.0240902
ldsin	-.1797769	.0178918	-10.05	0.000	-.2148441	-.1447096
y1980	-.1360946	.0923383	-1.47	0.141	-.3170743	.0448851
y1990	-.0447003	.1738759	-0.26	0.797	-.3854908	.2960902
y2000	.7461051	.2547208	2.93	0.003	.2468616	1.245349
ldap	.174886	.0172777	10.12	0.000	.1410222	.2087497
ldap_t	-.0795783	.0074781	-10.64	0.000	-.094235	-.0649215
ldc1	-1.238029	.1000557	-12.37	0.000	-1.434135	-1.041924
ldc1_t	-.0692212	.0198479	-3.49	0.000	-.1081224	-.03032
ldrdr	.0113808	.0121197	0.94	0.348	-.0123734	.0351349
ldrdr_t	.0090923	.0053083	1.71	0.087	-.0013118	.0194963
ldrt	-.1463593	.0367408	-3.98	0.000	-.21837	-.0743487
ldrt_t	.0688682	.0160023	4.30	0.000	.0375042	.1002322
ldrr	.0462222	.0100485	4.60	0.000	.0265275	.0659169
ldrr_t	-.0143184	.0043342	-3.30	0.001	-.0228133	-.0058235
ldtt	-.0645812	.0240863	-2.68	0.007	-.1117895	-.0173729
ldtt_t	-.0620087	.0082594	-7.51	0.000	-.0781969	-.0458206
_cons	3.033537	.3397181	8.93	0.000	2.367702	3.699372

## 5.3 Adults

### 5.3.1 Quadratic Specification

model for adults for site 10, xs/ts with hetero, xscorr  
(sum of wgt is 4.6880e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.4521)

Estimated covariances	=	271	Number of obs	=	1084
Estimated autocorrelations	=	1	Number of groups	=	271
Estimated coefficients	=	21	Time periods	=	4
			Wald chi2(20)	=	3652.33
Log likelihood	=	743.3247	Prob > chi2	=	0.0000



depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	.0211347	.0218341	0.97	0.333	-.0216595	.0639288
ld_t	-.108856	.0192751	-5.65	0.000	-.1466345	-.0710775
ld_t2	.0397475	.0054963	7.23	0.000	.0289749	.05052
ldcos	.0296779	.0067306	4.41	0.000	.0164862	.0428696
ldsin	.1669828	.0102601	16.28	0.000	.1468735	.1870922
y1980	.2670848	.0597305	4.47	0.000	.1500152	.3841545
y1990	.2215234	.1128186	1.96	0.050	.0004031	.4426437
y2000	-.1386006	.1655514	-0.84	0.402	-.4630755	.1858742
ldap	-.0981188	.0115322	-8.51	0.000	-.1207216	-.0755161
ldap_t	.0440479	.0050403	8.74	0.000	.0341691	.0539267
ldc1	1.043354	.0612335	17.04	0.000	.9233389	1.16337
ldc1_t	.0187704	.0123977	1.51	0.130	-.0055286	.0430695
ldrdr	-.0095873	.0074484	-1.29	0.198	-.0241859	.0050114
ldrdr_t	-.0030145	.003316	-0.91	0.363	-.0095136	.0034847
ldrdr_t2	.0366968	.0215628	1.70	0.089	-.0055655	.0789591
ldrdr_t2	-.0336015	.0095628	-3.51	0.000	-.0523443	-.0148587
ldrr	.0140509	.0064469	2.18	0.029	.0014152	.0266866
ldrr_t	-.0082666	.0028343	-2.92	0.004	-.0138217	-.0027115
ldtt	.0607686	.0146933	4.14	0.000	.0319703	.0895668
ldtt_t	.0122462	.0061428	1.99	0.046	.0002065	.0242859
_cons	-3.084878	.2152529	-14.33	0.000	-3.506766	-2.66299

## 5.4 Seniors

### 5.4.1 Quadratic Specification

model for seniors for site 10, xs/ts with hetero, xscorr  
(sum of wgt is 4.6880e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.6193)

Estimated covariances	=	271	Number of obs	=	1084
Estimated autocorrelations	=	1	Number of groups	=	271
Estimated coefficients	=	21	Time periods	=	4
			Wald chi2(20)	=	1020.58
Log likelihood	=	-332.5029	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	.0065688	.0650282	0.10	0.920	-.1208841	.1340217
ld_t	-.1998368	.0515322	-3.88	0.000	-.3008381	-.0988355
ld_t2	.0466759	.0145345	3.21	0.001	.0181887	.075163
ldcos	-.0766003	.019702	-3.89	0.000	-.1152154	-.0379852
ldsin	.0071469	.0341749	0.21	0.834	-.0598347	.0741285

y1980		.422982	.1522414	2.78	0.005	.1245943	.7213696
y1990		.6215401	.2867302	2.17	0.030	.0595593	1.183521
y2000		.4699957	.4202566	1.12	0.263	-.3536921	1.293684
ldap		-.2530142	.0334048	-7.57	0.000	-.3184864	-.187542
ldap_t		.0719479	.0132555	5.43	0.000	.0459675	.0979282
ldc1		.4184475	.1931117	2.17	0.030	.0399555	.7969395
ldc1_t		.0761981	.0339069	2.25	0.025	.0097417	.1426545
ldr		-.0179226	.0220645	-0.81	0.417	-.0611684	.0253231
ldr_t		-.0045784	.0088978	-0.51	0.607	-.0220177	.0128609
ldrt		.415371	.0643493	6.45	0.000	.2892486	.5414933
ldrt_t		-.2097522	.0263157	-7.97	0.000	-.26133	-.1581745
ldrr		-.1004512	.0202281	-4.97	0.000	-.1400975	-.060805
ldrr_t		.0676434	.0079941	8.46	0.000	.0519752	.0833116
ldtt		.0267901	.0411144	0.65	0.515	-.0537926	.1073727
ldtt_t		.0688332	.0128384	5.36	0.000	.0436704	.0939959
_cons		-4.653323	.6315688	-7.37	0.000	-5.891175	-3.415471

---

## 6 Chem Central (MI)

### 6.1 Children Under Age 6

#### 6.1.1 Quadratic Specification

model for under6 for site 11, xs/ts with hetero, xscorr  
(sum of wgt is 1.4371e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.5149)

Estimated covariances	=	89	Number of obs	=	356
Estimated autocorrelations	=	1	Number of groups	=	89
Estimated coefficients	=	21	Time periods	=	4
			Wald chi2(20)	=	1376.82
Log likelihood	=	175.2469	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	.1000188	.0421267	2.37	0.018	.017452	.1825856
ld_t	-.023006	.0316836	-0.73	0.468	-.0851047	.0390927
ld_t2	-.0041611	.0086303	-0.48	0.630	-.0210761	.0127538
ldcos	.0525654	.0307245	1.71	0.087	-.0076534	.1127843
ldsin	-.0981246	.0152344	-6.44	0.000	-.1279834	-.0682659
y1980	.1172159	.0690116	1.70	0.089	-.0180444	.2524761
y1990	.5641909	.1275912	4.42	0.000	.3141167	.8142651
y2000	.4824749	.1860109	2.59	0.009	.1179002	.8470497
ldap	.3309151	.0942957	3.51	0.000	.146099	.5157312
ldap_t	-.1147908	.0212844	-5.39	0.000	-.1565074	-.0730742
ldc1	.3584812	.1019635	3.52	0.000	.1586364	.558326
ldc1_t	-.0051094	.0437022	-0.12	0.907	-.0907641	.0805453
ldrdr	.0457368	.0132487	3.45	0.001	.0197698	.0717038
ldrdr_t	-.0135707	.0054301	-2.50	0.012	-.0242135	-.0029279
ldrdr_t	-.0462694	.0501831	-0.92	0.357	-.1446265	.0520877
ldrdr_t	.0525776	.0213412	2.46	0.014	.0107495	.0944056
ldrdr	-.0134438	.0158542	-0.85	0.396	-.0445176	.0176299
ldrdr_t	-.0182039	.0068252	-2.67	0.008	-.031581	-.0048268
ldtt	-.5080612	.0998393	-5.09	0.000	-.7037427	-.3123796
ldtt_t	-.0459303	.044669	-1.03	0.304	-.13348	.0416193
_cons	-2.603718	.2456068	-10.60	0.000	-3.085099	-2.122338

#### 6.1.2 Linear Specification

model for under6 for site 11, xs/ts with hetero, xscorr  
(sum of wgt is 1.4371e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic  
 Correlation: common AR(1) coefficient for all panels (0.5168)

Estimated covariances	=	89	Number of obs	=	356
Estimated autocorrelations	=	1	Number of groups	=	89
Estimated coefficients	=	20	Time periods	=	4
Log likelihood	=	175.6399	Wald chi2(19)	=	1449.56
			Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	.1056388	.0394798	2.68	0.007	.0282598	.1830178
ld_t	-.0350886	.0171862	-2.04	0.041	-.0687729	-.0014043
ldcos	.0543801	.0303415	1.79	0.073	-.0050881	.1138483
ldsin	-.0977109	.015204	-6.43	0.000	-.1275102	-.0679115
y1980	.1280532	.0633856	2.02	0.043	.0038196	.2522867
y1990	.5752454	.1245499	4.62	0.000	.3311321	.8193588
y2000	.4801774	.1857916	2.58	0.010	.1160326	.8443222
ldap	.3378023	.0933653	3.62	0.000	.1548097	.5207949
ldap_t	-.1151798	.0212547	-5.42	0.000	-.1568383	-.0735214
ldc1	.3588005	.1017717	3.53	0.000	.1593317	.5582693
ldc1_t	-.0055142	.0435852	-0.13	0.899	-.0909396	.0799113
ldrd	.0456774	.0131487	3.47	0.001	.0199063	.0714485
ldrd_t	-.013741	.0053789	-2.55	0.011	-.0242835	-.0031985
ldrt	-.0515431	.048751	-1.06	0.290	-.1470933	.0440071
ldrt_t	.0529199	.0207519	2.55	0.011	.012247	.0935927
ldrr	-.0128549	.0158895	-0.81	0.419	-.0439978	.018288
ldrr_t	-.0189149	.0068312	-2.77	0.006	-.0323038	-.005526
ldtt	-.5070897	.0996315	-5.09	0.000	-.7023639	-.3118156
ldtt_t	-.0457009	.0445608	-1.03	0.305	-.1330384	.0416366
_cons	-2.622897	.2436141	-10.77	0.000	-3.100372	-2.145422

## 6.2 Children Age 6 to 17

### 6.2.1 Quadratic Specification

model for kid6to17 for site 11, xs/ts with hetero, xscorr  
 (sum of wgt is 1.4371e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
 Panels: heteroskedastic  
 Correlation: common AR(1) coefficient for all panels (0.5471)

Estimated covariances	=	89	Number of obs	=	356
Estimated autocorrelations	=	1	Number of groups	=	89
Estimated coefficients	=	21	Time periods	=	4
Log likelihood	=	197.9472	Wald chi2(20)	=	1633.45
			Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
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ld		.0058522	.0352222	0.17	0.868	-.063182	.0748864
ld_t		-.0059997	.0268472	-0.22	0.823	-.0586193	.0466198
ld_t2		-.003779	.0075829	-0.50	0.618	-.0186413	.0110832
ldcos		.0979773	.033021	2.97	0.003	.0332573	.1626973
ldsin		-.03778	.0165819	-2.28	0.023	-.0702798	-.0052801
y1980		-.3275722	.0667215	-4.91	0.000	-.4583438	-.1968005
y1990		-.350667	.1256099	-2.79	0.005	-.5968579	-.1044761
y2000		-.0327936	.1842225	-0.18	0.859	-.3938632	.3282759
ldap		.3134071	.1097805	2.85	0.004	.0982412	.5285731
ldap_t		-.0138849	.021966	-0.63	0.527	-.0569374	.0291676
ldc1		.7483001	.0894761	8.36	0.000	.5729302	.9236699
ldc1_t		.0405242	.0387354	1.05	0.295	-.0353958	.1164442
ldrd		.054618	.0120693	4.53	0.000	.0309626	.0782735
ldrd_t		-.0072839	.0049664	-1.47	0.142	-.0170178	.00245
ldrt		.0728209	.0390239	1.87	0.062	-.0036645	.1493063
ldrt_t		.0152341	.016099	0.95	0.344	-.0163193	.0467875
ldrr		.0582832	.0146322	3.98	0.000	.0296045	.0869618
ldrr_t		-.0357189	.0063177	-5.65	0.000	-.0481013	-.0233365
ldtt		-.5833811	.0934005	-6.25	0.000	-.7664427	-.4003195
ldtt_t		-.0987058	.0410734	-2.40	0.016	-.1792083	-.0182034
_cons		-2.106057	.271406	-7.76	0.000	-2.638003	-1.574111

## 6.2.2 Linear Specification

model for kid6to17 for site 11, xs/ts with hetero, xscorr  
(sum of wgt is 1.4371e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (0.5487)

Estimated covariances	=	89	Number of obs	=	356
Estimated autocorrelations	=	1	Number of groups	=	89
Estimated coefficients	=	20	Time periods	=	4
			Wald chi2(19)	=	1678.76
Log likelihood	=	198.4603	Prob > chi2	=	0.0000

depvar		Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld		.0049233	.0337147	0.15	0.884	-.0611564 .0710029
ld_t		-.0162256	.0138165	-1.17	0.240	-.0433055 .0108544
ldcos		.0972079	.0328295	2.96	0.003	.0328634 .1615524
ldsin		-.0377529	.016593	-2.28	0.023	-.0702746 -.0052311
y1980		-.3163941	.0621767	-5.09	0.000	-.4382582 -.19453
y1990		-.3391387	.1228858	-2.76	0.006	-.5799905 -.098287
y2000		-.0321582	.1837055	-0.18	0.861	-.3922145 .327898
ldap		.3116811	.1092012	2.85	0.004	.0976507 .5257116
ldap_t		-.0141118	.0218645	-0.65	0.519	-.0569655 .0287419
ldc1		.7485124	.089459	8.37	0.000	.573176 .9238488
ldc1_t		.0396375	.0386957	1.02	0.306	-.0362047 .1154797
ldrd		.0547838	.0120286	4.55	0.000	.0312081 .0783595

ldrd_t		-.0074541	.0049327	-1.51	0.131	-.0171219	.0022137
ldrt		.0754325	.0382284	1.97	0.048	.0005062	.1503587
ldrt_t		.0142882	.0157047	0.91	0.363	-.0164925	.0450689
ldrr		.0584807	.0146576	3.99	0.000	.0297524	.0872089
ldrr_t		-.0358801	.0063192	-5.68	0.000	-.0482654	-.0234947
ldtt		-.5826013	.0934589	-6.23	0.000	-.7657774	-.3994253
ldtt_t		-.0982972	.0410745	-2.39	0.017	-.1788018	-.0177926
_cons		-2.104463	.2699203	-7.80	0.000	-2.633497	-1.575429

---

## 6.3 Adults

### 6.3.1 Quadratic Specification

model for adults for site 11, xs/ts with hetero, xscorr  
(sum of wgt is 1.4371e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.5994)

Estimated covariances	=	89	Number of obs	=	356
Estimated autocorrelations	=	1	Number of groups	=	89
Estimated coefficients	=	21	Time periods	=	4
			Wald chi2(20)	=	913.20
Log likelihood	=	303.9549	Prob > chi2	=	0.0000

depvar		Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld		.042255	.0263425	1.60	0.109	-.0093754 .0938854
ld_t		.0286432	.0191364	1.50	0.134	-.0088635 .06615
ld_t2		-.004922	.005451	-0.90	0.367	-.0156057 .0057617
ldcos		-.1036407	.0275985	-3.76	0.000	-.1577327 -.0495486
ldsin		-.0317964	.0131841	-2.41	0.016	-.0576367 -.0059561
y1980		.2366189	.050041	4.73	0.000	.1385404 .3346974
y1990		.2227731	.0938891	2.37	0.018	.0387538 .4067924
y2000		.3024224	.1374452	2.20	0.028	.0330347 .5718101
ldap		-.2835512	.0887482	-3.20	0.001	-.4574944 -.109608
ldap_t		.0219411	.0175505	1.25	0.211	-.0124572 .0563394
ldc1		-.4560039	.0743121	-6.14	0.000	-.601653 -.3103548
ldc1_t		-.0502179	.0305452	-1.64	0.100	-.1100854 .0096495
ldrd		-.0468307	.01149	-4.08	0.000	-.0693507 -.0243107
ldrd_t		.0069115	.0045264	1.53	0.127	-.0019601 .0157831
ldrt		-.0902909	.0351275	-2.57	0.010	-.1591395 -.0214422
ldrt_t		-.0091952	.0143903	-0.64	0.523	-.0373997 .0190094
ldrr		.0020011	.0118541	0.17	0.866	-.0212324 .0252346
ldrr_t		-.0038993	.0048971	-0.80	0.426	-.0134975 .0056988
ldtt		.4209182	.0750828	5.61	0.000	.2737587 .5680777
ldtt_t		.0298277	.0318253	0.94	0.349	-.0325488 .0922043
_cons		.9246185	.2180019	4.24	0.000	.4973426 1.351894

---

### 6.3.2 Linear Specification

model for adults for site 11, xs/ts with hetero, xscorr  
 (sum of wgt is 1.4371e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
 Panels: heteroskedastic  
 Correlation: common AR(1) coefficient for all panels (0.5965)

Estimated covariances	=	89	Number of obs	=	356
Estimated autocorrelations	=	1	Number of groups	=	89
Estimated coefficients	=	20	Time periods	=	4
			Wald chi2(19)	=	897.96
Log likelihood	=	303.6666	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	.0409474	.0251936	1.63	0.104	-.0084311	.090326
ld_t	.0154957	.0095594	1.62	0.105	-.0032404	.0342319
ldcos	-.1020432	.0273182	-3.74	0.000	-.1555859	-.0485004
ldsin	-.0317985	.0132036	-2.41	0.016	-.057677	-.0059199
y1980	.2546285	.0469475	5.42	0.000	.1626131	.3466438
y1990	.2424133	.0925254	2.62	0.009	.0610668	.4237597
y2000	.3068333	.1383259	2.22	0.027	.0357195	.5779471
ldap	-.2779188	.088199	-3.15	0.002	-.4507857	-.1050518
ldap_t	.0217731	.0176679	1.23	0.218	-.0128553	.0564015
ldcl	-.4563195	.0746522	-6.11	0.000	-.6026351	-.3100039
ldcl_t	-.049747	.0308183	-1.61	0.106	-.1101497	.0106558
ldrdr	-.0467994	.0116047	-4.03	0.000	-.0695443	-.0240546
ldrdr_t	.0068971	.0045822	1.51	0.132	-.0020838	.015878
ldrdr_t	-.0862851	.0349716	-2.47	0.014	-.1548281	-.0177422
ldrdr_t	-.0115183	.0143171	-0.80	0.421	-.0395793	.0165427
ldrdr	.0021463	.011765	0.18	0.855	-.0209126	.0252053
ldrdr_t	-.0040147	.0048767	-0.82	0.410	-.0135729	.0055434
ldtt	.4225974	.0755712	5.59	0.000	.2744805	.5707143
ldtt_t	.0290101	.0321745	0.90	0.367	-.0340508	.0920711
_cons	.9059061	.2164737	4.18	0.000	.4816254	1.330187

## 6.4 Seniors

### 6.4.1 Quadratic Specification

model for seniors for site 11, xs/ts with hetero, xscorr  
 (sum of wgt is 1.4371e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
 Panels: heteroskedastic  
 Correlation: common AR(1) coefficient for all panels (0.6751)

Estimated covariances	=	89	Number of obs	=	356
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```

Estimated autocorrelations =      1      Number of groups =      89
Estimated coefficients     =     21      Time periods     =      4
Log likelihood             =  3.410252  Wald chi2(20)     =    760.01
                               Prob > chi2     =      0.0000

```

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.3925221	.0865576	-4.53	0.000	-.5621718	-.2228724
ld_t	.0734073	.0511647	1.43	0.151	-.0268736	.1736882
ld_t2	.0034953	.013044	0.27	0.789	-.0220704	.029061
ldcos	.2439851	.0688399	3.54	0.000	.1090613	.3789089
ldsin	.2122724	.03332	6.37	0.000	.1469664	.2775785
y1980	-.3047975	.1162774	-2.62	0.009	-.5326969	-.076898
y1990	-.811321	.2173644	-3.73	0.000	-1.237347	-.3852946
y2000	-1.577426	.3185419	-4.95	0.000	-2.201757	-.9530954
ldap	.3717661	.2015045	1.84	0.065	-.0231754	.7667076
ldap_t	.1059799	.0381268	2.78	0.005	.0312528	.180707
ldcl	-.1515369	.1612606	-0.94	0.347	-.4676019	.1645282
ldcl_t	.0281479	.0589214	0.48	0.633	-.087336	.1436317
ldrd	-.0453996	.0262474	-1.73	0.084	-.0968435	.0060443
ldrd_t	.022968	.0100197	2.29	0.022	.0033297	.0426063
ldrt	.3054023	.0892692	3.42	0.001	.1304378	.4803667
ldrt_t	-.1486189	.0336147	-4.42	0.000	-.2145025	-.0827353
ldrr	-.1183013	.023331	-5.07	0.000	-.1640292	-.0725734
ldrr_t	.0813314	.0090264	9.01	0.000	.0636399	.0990228
ldtt	.0865762	.1435243	0.60	0.546	-.1947262	.3678786
ldtt_t	.2571681	.0559121	4.60	0.000	.1475824	.3667537
_cons	-3.272707	.5060596	-6.47	0.000	-4.264565	-2.280848

## 6.4.2 Linear Specification

model for seniors for site 11, xs/ts with hetero, xscorr  
(sum of wgt is 1.4371e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.6784)

```

Estimated covariances     =      89      Number of obs     =     356
Estimated autocorrelations =      1      Number of groups  =      89
Estimated coefficients     =     20      Time periods     =      4
Log likelihood             =  3.914436  Wald chi2(19)    =    767.04
                               Prob > chi2     =      0.0000

```

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.4019191	.087905	-4.57	0.000	-.5742098	-.2296284
ld_t	.0880431	.0334635	2.63	0.009	.0224558	.1536303
ldcos	.2491943	.0696974	3.58	0.000	.1125899	.3857987
ldsin	.2123055	.0333844	6.36	0.000	.1468732	.2777378
y1980	-.3185937	.108524	-2.94	0.003	-.5312968	-.1058906
y1990	-.8286112	.2141417	-3.87	0.000	-1.248321	-.4089013



y2000		-1.588449	.3196642	-4.97	0.000	-2.214979	-.9619184
ldap		.3830239	.204106	1.88	0.061	-.0170166	.7830644
ldap_t		.1056874	.0383634	2.75	0.006	.0304965	.1808784
ldc1		-.1485056	.1617623	-0.92	0.359	-.4655538	.1685427
ldc1_t		.0290529	.058863	0.49	0.622	-.0863165	.1444224
ldr		-.0456465	.026064	-1.75	0.080	-.0967309	.0054379
ldr_t		.0226959	.0099282	2.29	0.022	.0032369	.0421548
ldrt		.3110278	.0912022	3.41	0.001	.1322747	.4897808
ldrt_t		-.1507376	.0340684	-4.42	0.000	-.2175105	-.0839647
ldrr		-.1190535	.023107	-5.15	0.000	-.1643425	-.0737646
ldrr_t		.0814431	.0089181	9.13	0.000	.063964	.0989222
ldtt		.0846856	.1437985	0.59	0.556	-.1971542	.3665255
ldtt_t		.2565694	.0558058	4.60	0.000	.147192	.3659469
_cons		-3.298184	.511237	-6.45	0.000	-4.30019	-2.296178

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## 7 Havertown PCP (PA)

### 7.1 Children Under Age 6

#### 7.1.1 Quadratic Specification

model for under6 for site 15, xs/ts with hetero, xscorr  
(sum of wgt is 3.6942e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.6550)

Estimated covariances	=	216	Number of obs	=	864
Estimated autocorrelations	=	1	Number of groups	=	216
Estimated coefficients	=	21	Time periods	=	4
			Wald chi2(20)	=	3085.32
Log likelihood	=	246.3753	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld	-.0226257	.0434815	-0.52	0.603	-.1078478 .0625964
ld_t	-.0165921	.0298595	-0.56	0.578	-.0751156 .0419314
ld_t2	-.0226723	.0088055	-2.57	0.010	-.0399308 -.0054139
ldcos	.027068	.036852	0.73	0.463	-.0451606 .0992966
ldsin	.0403758	.0260094	1.55	0.121	-.0106018 .0913534
y1980	-.2386597	.0701985	-3.40	0.001	-.3762461 -.1010732
y1990	.1614926	.1271496	1.27	0.204	-.0877161 .4107013
y2000	-.0130608	.1840477	-0.07	0.943	-.3737877 .3476661
ldap	-.1451159	.0430179	-3.37	0.001	-.2294295 -.0608024
ldap_t	-.0190917	.0158852	-1.20	0.229	-.0502261 .0120426
ldc1	-.2738927	.1233698	-2.22	0.026	-.5156931 -.0320922
ldc1_t	-.0771989	.0268636	-2.87	0.004	-.1298506 -.0245472
ldrd	.0107831	.0142321	0.76	0.449	-.0171113 .0386774
ldrd_t	.0032169	.0060357	0.53	0.594	-.0086127 .0150466
ldrt	-.0972969	.0381176	-2.55	0.011	-.172006 -.0225877
ldrt_t	.0538622	.0136656	3.94	0.000	.0270781 .0806463
ldrr	-.0088871	.0143524	-0.62	0.536	-.0370174 .0192432
ldrr_t	-.0021812	.0058846	-0.37	0.711	-.0137149 .0093524
ldtt	.151841	.0784152	1.94	0.053	-.00185 .3055321
ldtt_t	.0671626	.0277371	2.42	0.015	.012799 .1215263
_cons	-1.353578	.3425539	-3.95	0.000	-2.024971 -.6821849

### 7.2 Children Age 6 to 17

#### 7.2.1 Quadratic Specification

model for kid6to17 for site 15, xs/ts with hetero, xscorr  
(sum of wgt is 3.6942e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.6442)

Estimated covariances	=	216	Number of obs	=	864
Estimated autocorrelations	=	1	Number of groups	=	216
Estimated coefficients	=	21	Time periods	=	4
			Wald chi2(20)	=	2359.65
Log likelihood	=	261.0604	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.0050776	.038689	-0.13	0.896	-.0809067	.0707514
ld_t	.0057062	.0279327	0.20	0.838	-.0490409	.0604532
ld_t2	-.0150412	.008189	-1.84	0.066	-.0310913	.0010088
ldcos	.0690588	.0304532	2.27	0.023	.0093716	.128746
ldsin	-.0265748	.0221401	-1.20	0.230	-.0699687	.0168191
y1980	-.1043223	.0662604	-1.57	0.115	-.2341904	.0255457
y1990	-.08633	.1203341	-0.72	0.473	-.3221805	.1495205
y2000	.550851	.1744153	3.16	0.002	.2090032	.8926987
ldap	-.0182946	.0451303	-0.41	0.685	-.1067484	.0701592
ldap_t	-.0287311	.0176074	-1.63	0.103	-.0632409	.0057788
ldc1	-.0695828	.1043484	-0.67	0.505	-.2741018	.1349362
ldc1_t	-.1441645	.0269657	-5.35	0.000	-.1970164	-.0913126
ldrdr	.023314	.0129208	1.80	0.071	-.0020104	.0486384
ldrdr_t	-.0054176	.0055352	-0.98	0.328	-.0162663	.0054311
ldrdr_t	-.0111592	.0388875	-0.29	0.774	-.0873772	.0650589
ldrdr_t	.0381232	.0133009	2.87	0.004	.0120539	.0641925
ldrdr_t	.0198003	.0133423	1.48	0.138	-.0063502	.0459508
ldrdr_t	-.0037718	.0054584	-0.69	0.490	-.0144702	.0069265
ldtt	.0105404	.0681714	0.15	0.877	-.1230731	.144154
ldtt_t	.0672365	.025829	2.60	0.009	.0166125	.1178605
_cons	-.9030409	.2996318	-3.01	0.003	-1.490308	-.3157734

## 7.2.2 Linear Specification

model for kid6tol7 for site 15, xs/ts with hetero, xscorr  
(sum of wgt is 3.6942e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.6538)

Estimated covariances	=	216	Number of obs	=	864
Estimated autocorrelations	=	1	Number of groups	=	216
Estimated coefficients	=	20	Time periods	=	4
			Wald chi2(19)	=	2479.25
Log likelihood	=	264.9292	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
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ld		.0171319	.0382371	0.45	0.654	-.0578115	.0920752
ld_t		-.0409797	.0139649	-2.93	0.003	-.0683503	-.013609
ldcos		.066593	.0308315	2.16	0.031	.0061643	.1270216
ldsin		-.0317325	.0221053	-1.44	0.151	-.0750581	.0115932
y1980		-.0476372	.0579315	-0.82	0.411	-.1611809	.0659064
y1990		-.031229	.1149304	-0.27	0.786	-.2564885	.1940305
y2000		.5463716	.1720996	3.17	0.001	.2090624	.8836807
ldap		-.0150815	.0453375	-0.33	0.739	-.1039413	.0737783
ldap_t		-.0289738	.0175781	-1.65	0.099	-.0634261	.0054786
ldc1		-.0551085	.1051774	-0.52	0.600	-.2612524	.1510355
ldc1_t		-.1457036	.0270348	-5.39	0.000	-.1986908	-.0927163
ldrd		.0253684	.0129158	1.96	0.050	.0000538	.0506829
ldrd_t		-.0057409	.0054892	-1.05	0.296	-.0164996	.0050178
ldrt		-.0062141	.0384473	-0.16	0.872	-.0815695	.0691413
ldrt_t		.0399825	.0130617	3.06	0.002	.014382	.065583
ldrr		.0214344	.0130746	1.64	0.101	-.0041912	.0470601
ldrr_t		-.0044032	.0053009	-0.83	0.406	-.0147927	.0059863
ldtt		-.0040591	.0695653	-0.06	0.953	-.1404047	.1322864
ldtt_t		.0698959	.0259882	2.69	0.007	.01896	.1208318
_cons		-.9709121	.29872	-3.25	0.001	-1.556392	-.3854317

## 7.3 Adults

### 7.3.1 Quadratic Specification

model for adults for site 15, xs/ts with hetero, xscorr  
(sum of wgt is 3.6942e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (0.7200)

Estimated covariances	=	216	Number of obs	=	864
Estimated autocorrelations	=	1	Number of groups	=	216
Estimated coefficients	=	21	Time periods	=	4
			Wald chi2(20)	=	787.02
Log likelihood	=	531.0408	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]		
ld		-.0062598	.0274366	-0.23	0.820	-.0600345	.047515
ld_t		.0513898	.0183961	2.79	0.005	.0153341	.0874454
ld_t2		-.0012916	.005338	-0.24	0.809	-.0117538	.0091706
ldcos		.0075017	.0274908	0.27	0.785	-.0463792	.0613826
ldsin		.03595	.0182971	1.96	0.049	.0000883	.0718117
y1980		.0361203	.0479314	0.75	0.451	-.0578236	.1300642
y1990		-.112163	.0886967	-1.26	0.206	-.2860054	.0616794
y2000		-.2695055	.129434	-2.08	0.037	-.5231914	-.0158196
ldap		-.0390047	.0330858	-1.18	0.238	-.1038517	.0258422
ldap_t		.0058405	.0117204	0.50	0.618	-.0171311	.0288121
ldc1		-.0340185	.0824504	-0.41	0.680	-.1956184	.1275814
ldc1_t		.0935718	.0186876	5.01	0.000	.0569449	.1301987
ldrd		-.0153453	.012598	-1.22	0.223	-.0400369	.0093463

ldrd_t		.0046376	.0049474	0.94	0.349	-.0050591	.0143342
ldrt		.0076068	.0285693	0.27	0.790	-.0483879	.0636015
ldrt_t		-.0212384	.0093298	-2.28	0.023	-.0395245	-.0029524
ldrr		.0123586	.0116759	1.06	0.290	-.0105258	.0352429
ldrr_t		-.0266209	.0044081	-6.04	0.000	-.0352605	-.0179812
ldtt		.0792488	.048512	1.63	0.102	-.0158329	.1743305
ldtt_t		-.0853004	.0172358	-4.95	0.000	-.1190819	-.0515189
_cons		.308412	.2470966	1.25	0.212	-.1758884	.7927124

## 7.3.2 Linear Specification

model for adults for site 15, xs/ts with hetero, xscorr  
(sum of wgt is 3.6942e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.7226)

Estimated covariances	=	216	Number of obs	=	864
Estimated autocorrelations	=	1	Number of groups	=	216
Estimated coefficients	=	20	Time periods	=	4
			Wald chi2(19)	=	786.84
Log likelihood	=	531.7427	Prob > chi2	=	0.0000

depvar		Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld		-.0063825	.0276382	-0.23	0.817	-.0605524 .0477874
ld_t		.0476879	.0096552	4.94	0.000	.028764 .0666117
ldcos		.0073903	.0276075	0.27	0.789	-.0467194 .0614999
ldsin		.0356557	.0184023	1.94	0.053	-.0004121 .0717236
y1980		.0414034	.0434942	0.95	0.341	-.0438437 .1266504
y1990		-.1063959	.0863873	-1.23	0.218	-.275712 .0629202
y2000		-.2682224	.1293562	-2.07	0.038	-.521756 -.0146889
ldap		-.038225	.0332115	-1.15	0.250	-.1033184 .0268684
ldap_t		.0056007	.0117172	0.48	0.633	-.0173646 .0285659
ldcl		-.0344383	.0827385	-0.42	0.677	-.1966028 .1277262
ldcl_t		.0937828	.0186736	5.02	0.000	.0571833 .1303823
ldrd		-.0156127	.0126295	-1.24	0.216	-.0403661 .0091407
ldrd_t		.0046779	.0049438	0.95	0.344	-.0050118 .0143676
ldrt		.0085053	.0286979	0.30	0.767	-.0477416 .0647521
ldrt_t		-.021354	.0093264	-2.29	0.022	-.0396334 -.0030745
ldrr		.0122978	.0117135	1.05	0.294	-.0106603 .0352559
ldrr_t		-.0266088	.0044072	-6.04	0.000	-.0352467 -.0179708
ldtt		.0799784	.0486527	1.64	0.100	-.0153791 .1753359
ldtt_t		-.0855918	.0172212	-4.97	0.000	-.1193447 -.0518388
_cons		.304337	.2484066	1.23	0.221	-.1825311 .791205

## 7.4 Seniors

### 7.4.1 Quadratic Specification

model for seniors for site 15, xs/ts with hetero, xscorr

(sum of wgt is 3.6942e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.5890)

Estimated covariances	=	216	Number of obs	=	864
Estimated autocorrelations	=	1	Number of groups	=	216
Estimated coefficients	=	21	Time periods	=	4
			Wald chi2(20)	=	1992.85
Log likelihood	=	27.14838	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.0354188	.0348524	-1.02	0.310	-.1037284	.0328907
ld_t	-.0505774	.0258593	-1.96	0.050	-.1012606	.0001058
ld_t2	.0085381	.0076125	1.12	0.262	-.0063821	.0234584
ldcos	-.2446026	.0277372	-8.82	0.000	-.2989666	-.1902386
ldsin	-.1054534	.0233126	-4.52	0.000	-.1511451	-.0597616
y1980	.167647	.0720896	2.33	0.020	.026354	.30894
y1990	.1877779	.1350401	1.39	0.164	-.0768958	.4524516
y2000	-.1309663	.1979901	-0.66	0.508	-.5190197	.2570871
ldap	.2036518	.0487523	4.18	0.000	.1080991	.2992044
ldap_t	.061599	.0199063	3.09	0.002	.0225834	.1006146
ldcl	.4305686	.0921479	4.67	0.000	.249962	.6111751
ldcl_t	.0672907	.0277852	2.42	0.015	.0128326	.1217487
ldrd	-.0751152	.0158264	-4.75	0.000	-.1061343	-.044096
ldrd_t	.0278366	.0070455	3.95	0.000	.0140278	.0416455
ldrt	.2225298	.0445226	5.00	0.000	.1352672	.3097924
ldrt_t	-.0839386	.0142641	-5.88	0.000	-.1118959	-.0559814
ldrr	-.0763781	.0146706	-5.21	0.000	-.1051319	-.0476242
ldrr_t	.0658189	.0062741	10.49	0.000	.0535219	.0781159
ldtt	-.1366791	.0577126	-2.37	0.018	-.2497938	-.0235645
ldtt_t	.0995901	.0233945	4.26	0.000	.0537377	.1454425
_cons	-4.15527	.2882273	-14.42	0.000	-4.720185	-3.590355

## 7.4.2 Linear Specification

model for seniors for site 15, xs/ts with hetero, xscorr  
(sum of wgt is 3.6942e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.5897)

Estimated covariances	=	216	Number of obs	=	864
Estimated autocorrelations	=	1	Number of groups	=	216
Estimated coefficients	=	20	Time periods	=	4
			Wald chi2(19)	=	1907.86
Log likelihood	=	27.21592	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.0389544	.0344655	-1.13	0.258	-.1065055	.0285967
ld_t	-.0225167	.0129814	-1.73	0.083	-.0479599	.0029264
ldcos	-.2484567	.0278606	-8.92	0.000	-.3030625	-.1938509
ldsin	-.104317	.0233613	-4.47	0.000	-.1501042	-.0585297
y1980	.120677	.0666014	1.81	0.070	-.0098594	.2512134
y1990	.1275211	.1319872	0.97	0.334	-.1311691	.3862113
y2000	-.1743575	.1975802	-0.88	0.378	-.5616076	.2128927
ldap	.2022414	.0483685	4.18	0.000	.1074408	.297042
ldap_t	.0659007	.0196947	3.35	0.001	.0272999	.1045015
ldcl	.4409676	.0916602	4.81	0.000	.2613169	.6206183
ldcl_t	.0607816	.027362	2.22	0.026	.007153	.1144102
ldrd	-.0746668	.0157945	-4.73	0.000	-.1056234	-.0437102
ldrd_t	.0284407	.0070303	4.05	0.000	.0146615	.0422199
ldrt	.2187279	.0445251	4.91	0.000	.1314604	.3059954
ldrt_t	-.082694	.0143105	-5.78	0.000	-.1107421	-.0546459
ldrr	-.0762035	.0147831	-5.15	0.000	-.1051779	-.0472292
ldrr_t	.0644066	.0063563	10.13	0.000	.0519484	.0768648
ldtt	-.1396712	.0564021	-2.48	0.013	-.2502172	-.0291251
ldtt_t	.1066558	.0229303	4.65	0.000	.0617133	.1515983
_cons	-4.158457	.2871739	-14.48	0.000	-4.721307	-3.595606

## Appendix C-3

### Detailed Regression Results for Households With Children

#### 1 Sayerville Landfill (NJ)

##### 1.1 Married Couples With Children

###### 1.1.1 Quadratic Specification

model for pmcwkid for site 4, xs/ts with hetero, xscorr  
(sum of wgt is 1.4218e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.6110)

Estimated covariances	=	93	Number of obs	=	372
Estimated autocorrelations	=	1	Number of groups	=	93
Estimated coefficients	=	19	Time periods	=	4
			Wald chi2(18)	=	3391.90
Log likelihood	=	96.59032	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	.2386247	.0495527	4.82	0.000	.1415033	.3357462
ld_t	-.0618882	.0398857	-1.55	0.121	-.1400626	.0162863
ld_t2	.0069588	.0112847	0.62	0.537	-.0151589	.0290765
ldcos	.1788931	.0212035	8.44	0.000	.137335	.2204512
ldsin	.0509132	.0286517	1.78	0.076	-.0052432	.1070695
y1980	-.5143526	.0673014	-7.64	0.000	-.6462608	-.3824443
y1990	-.707744	.108508	-6.52	0.000	-.9204158	-.4950723
y2000	-.6288639	.1466005	-4.29	0.000	-.9161957	-.3415321
ldc1	.2164895	.0509471	4.25	0.000	.1166351	.3163439
ldc1_t	-.0638608	.0154803	-4.13	0.000	-.0942015	-.03352
ldrdrd	.1383238	.0281171	4.92	0.000	.0832153	.1934323
ldrdrd_t	-.0229744	.0109157	-2.10	0.035	-.0443687	-.0015801
ldrdrdt	-.1352933	.0492641	-2.75	0.006	-.2318492	-.0387374
ldrdrdt_t	-.0012029	.0200068	-0.06	0.952	-.0404154	.0380097
ldrdrrr	.1204453	.0224521	5.36	0.000	.07644	.1644507
ldrdrrr_t	-.044825	.0086464	-5.18	0.000	-.0617715	-.0278784
ldrdrdttd	.5416258	.0874356	6.19	0.000	.3702552	.7129964
ldrdrdttd_t	.0026006	.0238668	0.11	0.913	-.0441775	.0493788
_cons	-1.472462	.1666745	-8.83	0.000	-1.799138	-1.145786

###### 1.1.2 Linear Specification

model for pmcwkid for site 4, xs/ts with hetero, xscorr  
(sum of wgt is 1.4218e+06)



Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
 Panels: heteroskedastic  
 Correlation: common AR(1) coefficient for all panels (0.6143)

Estimated covariances	=	93	Number of obs	=	372
Estimated autocorrelations	=	1	Number of groups	=	93
Estimated coefficients	=	18	Time periods	=	4
			Wald chi2(17)	=	3469.59
Log likelihood	=	97.15539	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	.2362227	.0468174	5.05	0.000	.1444623	.3279832
ld_t	-.039249	.0186413	-2.11	0.035	-.0757854	-.0027127
ldcos	.1782251	.0212786	8.38	0.000	.1365198	.2199304
ldsin	.0506894	.0286948	1.77	0.077	-.0055514	.1069302
y1980	-.5436589	.0497719	-10.92	0.000	-.6412102	-.4461077
y1990	-.7393178	.0966348	-7.65	0.000	-.9287185	-.5499171
y2000	-.636063	.1436838	-4.43	0.000	-.917678	-.354448
ldc1	.2161263	.0507635	4.26	0.000	.1166317	.3156208
ldc1_t	-.0641718	.0153621	-4.18	0.000	-.094281	-.0340627
ldrd	.1391527	.0281772	4.94	0.000	.0839265	.1943789
ldrd_t	-.0230643	.0109112	-2.11	0.035	-.04445	-.0016786
ldrt	-.1342455	.049035	-2.74	0.006	-.2303523	-.0381387
ldrt_t	-.0019579	.0198818	-0.10	0.922	-.0409254	.0370097
ldrr	.12024	.0225237	5.34	0.000	.0760944	.1643856
ldrr_t	-.0445671	.0086489	-5.15	0.000	-.0615187	-.0276155
ldtt	.541424	.0873809	6.20	0.000	.3701607	.7126873
ldtt_t	.0028816	.0238097	0.12	0.904	-.0437846	.0495478
_cons	-1.46724	.1647968	-8.90	0.000	-1.790236	-1.144244

## 1.2 Male-Headed Household With Children

### 1.2.1 Quadratic Specification

model for pmhwkid for site 4, xs/ts with hetero, xscorr  
 (sum of wgt is 1.4218e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
 Panels: heteroskedastic  
 Correlation: common AR(1) coefficient for all panels (0.1780)

Estimated covariances	=	93	Number of obs	=	372
Estimated autocorrelations	=	1	Number of groups	=	93
Estimated coefficients	=	19	Time periods	=	4
			Wald chi2(18)	=	179.15
Log likelihood	=	-488.5535	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
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ld	-.2746123	.2376295	-1.16	0.248	-.7403576	.191133
ld_t	.6501363	.282196	2.30	0.021	.0970424	1.20323
ld_t2	-.1908808	.0843838	-2.26	0.024	-.3562701	-.0254915
ldcos	-.0673374	.0548532	-1.23	0.220	-.1748478	.0401729
ldsin	.0235874	.0610213	0.39	0.699	-.0960121	.1431869
y1980	-.6952674	.4091843	-1.70	0.089	-1.497254	.1067191
y1990	-.9064055	.5524503	-1.64	0.101	-1.989188	.1763773
y2000	.4599173	.6264765	0.73	0.463	-.7679541	1.687789
ldc1	-.3644048	.2212198	-1.65	0.100	-.7979875	.069178
ldc1_t	-.145269	.0943745	-1.54	0.124	-.3302395	.0397016
ldrd	-.0468149	.0834759	-0.56	0.575	-.2104246	.1167947
ldrd_t	-.0485002	.0406854	-1.19	0.233	-.1282422	.0312418
ldrt	.2882305	.181049	1.59	0.111	-.066619	.64308
ldrt_t	-.0879042	.0899538	-0.98	0.328	-.2642105	.0884021
ldrr	.1227401	.0705655	1.74	0.082	-.0155658	.261046
ldrr_t	-.0857617	.0309237	-2.77	0.006	-.1463711	-.0251523
ldtt	.1068776	.2494669	0.43	0.668	-.3820685	.5958238
ldtt_t	.1771038	.1023705	1.73	0.084	-.0235388	.3777464
_cons	-4.605343	.5098479	-9.03	0.000	-5.604627	-3.60606

## 1.3 Female-Headed Household With Children

### 1.3.1 Quadratic Specification

model for pfhwkid for site 4, xs/ts with hetero, xscorr  
(sum of wgt is 1.4218e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (0.2528)

Estimated covariances	=	93	Number of obs	=	372
Estimated autocorrelations	=	1	Number of groups	=	93
Estimated coefficients	=	19	Time periods	=	4
			Wald chi2(18)	=	349.75
Log likelihood	=	-185.03	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.0445403	.1053914	-0.42	0.673	-.2511036	.162023
ld_t	-.0622103	.1155914	-0.54	0.590	-.2887654	.1643448
ld_t2	.0153652	.0341997	0.45	0.653	-.0516649	.0823953
ldcos	-.1496175	.0293386	-5.10	0.000	-.2071201	-.0921148
ldsin	.0265581	.0330567	0.80	0.422	-.0382318	.091348
y1980	.339972	.169252	2.01	0.045	.0082442	.6716998
y1990	-.0564297	.2385954	-0.24	0.813	-.5240681	.4112087
y2000	.0581991	.288244	0.20	0.840	-.5067487	.623147
ldc1	-.5388906	.1025831	-5.25	0.000	-.7399497	-.3378314
ldc1_t	-.0589879	.04572	-1.29	0.197	-.1485975	.0306217
ldrd	-.1234144	.0445442	-2.77	0.006	-.2107195	-.0361093
ldrd_t	-.0029736	.0208193	-0.14	0.886	-.0437787	.0378315
ldrt	.1079129	.0766664	1.41	0.159	-.0423505	.2581763

ldrt_t		.0247128	.0371473	0.67	0.506	-.0480947	.0975202
ldrr		.0661962	.0356189	1.86	0.063	-.0036156	.136008
ldrr_t		-.0376567	.0164293	-2.29	0.022	-.0698575	-.0054558
ldtt		.1047317	.1335987	0.78	0.433	-.157117	.3665803
ldtt_t		.1104798	.0560872	1.97	0.049	.0005508	.2204088
_cons		-2.806968	.2509325	-11.19	0.000	-3.298787	-2.31515

### 1.3.2 Linear Specification

model for pfhwkid for site 4, xs/ts with hetero, xscorr  
(sum of wgt is 1.4218e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.2514)

Estimated covariances	=	93	Number of obs	=	372
Estimated autocorrelations	=	1	Number of groups	=	93
Estimated coefficients	=	18	Time periods	=	4
			Wald chi2(17)	=	350.89
Log likelihood	=	-185.1084	Prob > chi2	=	0.0000

depvar		Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld		-.0537228	.1041844	-0.52	0.606	-.2579205 .150475
ld_t		-.0169667	.0497019	-0.34	0.733	-.1143807 .0804474
ldcos		-.1494115	.0292622	-5.11	0.000	-.2067644 -.0920587
ldsin		.0260649	.0329998	0.79	0.430	-.0386135 .0907432
y1980		.2830423	.10601	2.67	0.008	.0752665 .4908181
y1990		-.1067096	.1980306	-0.54	0.590	-.4948424 .2814233
y2000		.0687274	.2923708	0.24	0.814	-.5043089 .6417636
ldc1		-.5363795	.1022312	-5.25	0.000	-.7367489 -.3360101
ldc1_t		-.0597197	.0455614	-1.31	0.190	-.1490184 .029579
ldrd		-.124005	.0445545	-2.78	0.005	-.2113302 -.0366798
ldrd_t		-.0031472	.0208342	-0.15	0.880	-.0439816 .0376871
ldrt		.1084219	.0770279	1.41	0.159	-.04255 .2593938
ldrt_t		.0241806	.0373074	0.65	0.517	-.0489406 .0973018
ldrr		.0669405	.0357029	1.87	0.061	-.0030358 .1369168
ldrr_t		-.037747	.0164831	-2.29	0.022	-.0700532 -.0054408
ldtt		.102667	.1332933	0.77	0.441	-.158583 .363917
ldtt_t		.1107034	.0559745	1.98	0.048	.0009954 .2204114
_cons		-2.792738	.2460134	-11.35	0.000	-3.274915 -2.31056

## 2 Cinnaminson Landfill (NJ)

### 2.1 Married Couples With Children

#### 2.1.1 Quadratic Specification

model for pmcwkid for site 5, xs/ts with hetero, xscorr  
(sum of wgt is 3.1536e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.5116)

Estimated covariances	=	177	Number of obs	=	708
Estimated autocorrelations	=	1	Number of groups	=	177
Estimated coefficients	=	23	Time periods	=	4
Log likelihood	=	30.99119	Wald chi2(22)	=	3214.80
			Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld	-.0412192	.0510009	-0.81	0.419	-.1411792 .0587408
ld_t	.0590837	.0510009	1.16	0.247	-.0408762 .1590436
ld_t2	-.0110707	.0156304	-0.71	0.479	-.0417057 .0195642
ldcos	-.0813244	.024488	-3.32	0.001	-.12932 -.0333288
ldsin	-.1316168	.0457688	-2.88	0.004	-.2213221 -.0419115
y1980	-.623713	.1147192	-5.44	0.000	-.8485586 -.3988674
y1990	-.8497805	.2030385	-4.19	0.000	-1.247729 -.4518323
y2000	-.9181398	.2906174	-3.16	0.002	-1.487739 -.3485402
ldap	-.033317	.0380266	-0.88	0.381	-.1078479 .0412138
ldap_t	.0162129	.0148958	1.09	0.276	-.0129823 .0454081
ldc1	.4426309	.102642	4.31	0.000	.2414562 .6438055
ldc1_t	-.1178491	.0392762	-3.00	0.003	-.1948291 -.0408691
ldc2	.1852487	.068701	2.70	0.007	.0505973 .3199002
ldc2_t	-.0282456	.025033	-1.13	0.259	-.0773094 .0208181
ldrd	.0424108	.017396	2.44	0.015	.0083153 .0765063
ldrd_t	-.0026823	.0079503	-0.34	0.736	-.0182646 .0129001
ldrt	-.3261683	.0528482	-6.17	0.000	-.4297488 -.2225878
ldrt_t	.1053989	.020311	5.19	0.000	.06559 .1452078
ldrr	.1498656	.0192438	7.79	0.000	.1121484 .1875829
ldrr_t	-.0489142	.0087057	-5.62	0.000	-.0659771 -.0318513
ldtt	.0046629	.0790609	0.06	0.953	-.1502935 .1596194
ldtt_t	.025668	.029646	0.87	0.387	-.032437 .083773
_cons	-.9446996	.3544518	-2.67	0.008	-1.639412 -.2499867

#### 2.1.2 Linear Specification

model for pmcwkid for site 5, xs/ts with hetero, xscorr  
(sum of wgt is 3.1536e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.5167)

Estimated covariances	=	177	Number of obs	=	708
Estimated autocorrelations	=	1	Number of groups	=	177
Estimated coefficients	=	22	Time periods	=	4
			Wald chi2(21)	=	3441.67
Log likelihood	=	33.36325	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld	-.046312	.0443109	-1.05	0.296	-.1331598 .0405359
ld_t	.0302242	.0188993	1.60	0.110	-.0068178 .0672662
ldcos	-.0775332	.024171	-3.21	0.001	-.1249076 -.0301588
ldsin	-.1321781	.0433224	-3.05	0.002	-.2170884 -.0472678
y1980	-.5950659	.0936824	-6.35	0.000	-.77868 -.4114518
y1990	-.8282384	.1859629	-4.45	0.000	-1.192719 -.4637578
y2000	-.9455778	.2784391	-3.40	0.001	-1.491308 -.3998471
ldap	-.02628	.0368748	-0.71	0.476	-.0985532 .0459932
ldap_t	.0152969	.0145628	1.05	0.294	-.0132456 .0438395
ldc1	.4509806	.1011991	4.46	0.000	.252634 .6493273
ldc1_t	-.1168007	.0389654	-3.00	0.003	-.1931715 -.04043
ldc2	.1898953	.0674251	2.82	0.005	.0577445 .3220461
ldc2_t	-.0301903	.0246918	-1.22	0.221	-.0785854 .0182047
ldrd	.0438029	.0173253	2.53	0.011	.0098459 .07776
ldrd_t	-.0028433	.0078882	-0.36	0.719	-.0183039 .0126173
ldrt	-.3339492	.0528152	-6.32	0.000	-.4374651 -.2304332
ldrt_t	.1073203	.0202776	5.29	0.000	.0675769 .1470637
ldrr	.1499843	.0191055	7.85	0.000	.1125382 .1874304
ldrr_t	-.048715	.0086123	-5.66	0.000	-.0655947 -.0318352
ldtt	.0052906	.0771637	0.07	0.945	-.1459474 .1565286
ldtt_t	.0257601	.0295153	0.87	0.383	-.0320889 .083609
_cons	-.9673254	.3310305	-2.92	0.003	-1.616133 -.3185175

## 2.2 Male-Headed Households With Children

### 2.2.1 Quadratic Specification

model for pmhwkid for site 5, xs/ts with hetero, xscorr  
(sum of wgt is 3.1536e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.1695)

Estimated covariances	=	177	Number of obs	=	708
Estimated autocorrelations	=	1	Number of groups	=	177
Estimated coefficients	=	23	Time periods	=	4
			Wald chi2(22)	=	618.55
Log likelihood	=	-961.0316	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	.085705	.2274748	0.38	0.706	-.3601375	.5315475
ld_t	.3706984	.2774561	1.34	0.182	-.1731055	.9145023
ld_t2	-.1539115	.0853407	-1.80	0.071	-.3211762	.0133531
ldcos	-.2679815	.0551407	-4.86	0.000	-.3760554	-.1599077
ldsin	.3491563	.1141244	3.06	0.002	.1254765	.5728361
y1980	-.4524848	.4983584	-0.91	0.364	-1.429249	.5242798
y1990	-.0769587	.7615547	-0.10	0.920	-1.569578	1.415661
y2000	1.117523	.9959016	1.12	0.262	-.8344079	3.069455
ldap	.1269998	.1075939	1.18	0.238	-.0838803	.33788
ldap_t	.0262493	.0486488	0.54	0.589	-.0691007	.1215993
ldc1	-1.542925	.2189363	-7.05	0.000	-1.972033	-1.113818
ldc1_t	-.0142849	.0984955	-0.15	0.885	-.2073325	.1787628
ldc2	.1951011	.2306101	0.85	0.398	-.2568864	.6470886
ldc2_t	.0553462	.1004539	0.55	0.582	-.1415398	.2522321
ldrdr	.1243018	.0673655	1.85	0.065	-.0077322	.2563358
ldrdr_t	-.0559727	.0343665	-1.63	0.103	-.1233298	.0113844
ldrdr_t	-.3235563	.089603	-3.61	0.000	-.499175	-.1479375
ldrdr_t	.1148676	.041823	2.75	0.006	.0328959	.1968392
ldrr	.064617	.0525531	1.23	0.219	-.0383852	.1676193
ldrr_t	-.061683	.0265494	-2.32	0.020	-.113719	-.009647
ldtt	-.0334026	.1901066	-0.18	0.861	-.4060046	.3391994
ldtt_t	-.0759139	.07626	-1.00	0.320	-.2253808	.073553
_cons	-1.138407	.9615886	-1.18	0.236	-3.023086	.7462719

## 2.2.2 Linear Specification

model for pmhwkid for site 5, xs/ts with hetero, xscorr  
(sum of wgt is 3.1536e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.1672)

Estimated covariances	=	177	Number of obs	=	708
Estimated autocorrelations	=	1	Number of groups	=	177
Estimated coefficients	=	22	Time periods	=	4
			Wald chi2(21)	=	588.37
Log likelihood	=	-964.2309	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	.2174738	.2138975	1.02	0.309	-.2017577	.6367053
ld_t	-.0873421	.108765	-0.80	0.422	-.3005176	.1258335
ldcos	-.2669172	.0558374	-4.78	0.000	-.3763565	-.157478
ldsin	.3447923	.1164349	2.96	0.003	.1165842	.5730005
y1980	.1903328	.3389499	0.56	0.574	-.4739969	.8546625
y1990	.5664873	.6696493	0.85	0.398	-.7460011	1.878976
y2000	1.098436	1.003724	1.09	0.274	-.8688262	3.065699
ldap	.1228384	.1076377	1.14	0.254	-.0881275	.3338044

ldap_t		.026182	.0487286	0.54	0.591	-.0693243	.1216884
ldc1		-1.539307	.2239186	-6.87	0.000	-1.978179	-1.100434
ldc1_t		-.0168398	.1007508	-0.17	0.867	-.2143077	.1806282
ldc2		.1922109	.233538	0.82	0.410	-.2655152	.6499371
ldc2_t		.0573657	.1014732	0.57	0.572	-.1415181	.2562495
ldrdr		.1254626	.0680016	1.84	0.065	-.0078181	.2587433
ldrdr_t		-.0580654	.0347465	-1.67	0.095	-.1261671	.0100364
ldrtr		-.321334	.0903423	-3.56	0.000	-.4984015	-.1442664
ldrtr_t		.1139402	.0421278	2.70	0.007	.0313713	.196509
ldrtrr		.0624826	.0535432	1.17	0.243	-.0424601	.1674253
ldrtrr_t		-.058738	.0271543	-2.16	0.031	-.1119595	-.0055165
ldtt		-.025603	.1931695	-0.13	0.895	-.4042083	.3530024
ldtt_t		-.076512	.0775112	-0.99	0.324	-.2284312	.0754072
_cons		-1.431475	.9595539	-1.49	0.136	-3.312166	.4492164

## 2.3 Female-Headed Households With Children

### 2.3.1 Quadratic Specification

model for pfhwkid for site 5, xs/ts with hetero, xscorr  
(sum of wgt is 3.1536e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (0.3409)

Estimated covariances	=	177	Number of obs	=	708
Estimated autocorrelations	=	1	Number of groups	=	177
Estimated coefficients	=	23	Time periods	=	4
			Wald chi2(22)	=	999.66
Log likelihood	=	-408.9005	Prob > chi2	=	0.0000

depvar		Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld		.1831675	.0918636	1.99	0.046	.0031183 .3632168
ld_t		-.1314079	.1071867	-1.23	0.220	-.34149 .0786742
ld_t2		.0361088	.0330563	1.09	0.275	-.0286805 .100898
ldcos		-.1911544	.035887	-5.33	0.000	-.2614916 -.1208172
ldsin		.1712904	.0686036	2.50	0.013	.0368297 .305751
y1980		.9030339	.2225512	4.06	0.000	.4668417 1.339226
y1990		1.149635	.3801639	3.02	0.002	.4045271 1.894742
y2000		1.814292	.5327599	3.41	0.001	.7701016 2.858482
ldap		.0624543	.0622321	1.00	0.316	-.0595183 .1844269
ldap_t		.0439414	.0254002	1.73	0.084	-.0058421 .0937249
ldc1		-.9150783	.175233	-5.22	0.000	-1.258529 -.571628
ldc1_t		-.3734926	.0718822	-5.20	0.000	-.5143791 -.232606
ldc2		.1486655	.1235162	1.20	0.229	-.0934217 .3907528
ldc2_t		.2388085	.0515515	4.63	0.000	.1377694 .3398476
ldrdr		-.0318246	.0307916	-1.03	0.301	-.092175 .0285258
ldrdr_t		-.0030102	.0151598	-0.20	0.843	-.0327229 .0267025
ldrtr		-.1234292	.0729237	-1.69	0.091	-.2663571 .0194986
ldrtr_t		.0177637	.0324787	0.55	0.584	-.0458933 .0814207
ldrtrr		-.0943563	.0305047	-3.09	0.002	-.1541444 -.0345682

ldrr_t		.0145704	.0149605	0.97	0.330	-.0147518	.0438925
ldtt		-.1145838	.1283693	-0.89	0.372	-.366183	.1370155
ldtt_t		.0265777	.0505375	0.53	0.599	-.072474	.1256295
_cons		-1.446358	.5884008	-2.46	0.014	-2.599602	-.2931136

### 2.3.2 Linear Specification

model for pfhwkid for site 5, xs/ts with hetero, xscorr  
(sum of wgt is 3.1536e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (0.3306)

Estimated covariances	=	177	Number of obs	=	708
Estimated autocorrelations	=	1	Number of groups	=	177
Estimated coefficients	=	22	Time periods	=	4
Log likelihood	=	-410.4705	Wald chi2(21)	=	997.73
			Prob > chi2	=	0.0000

depvar		Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld		.1557942	.0874772	1.78	0.075	-.0156579 .3272464
ld_t		-.0223177	.0416548	-0.54	0.592	-.1039596 .0593242
ldcos		-.1915058	.03535	-5.42	0.000	-.2607905 -.122221
ldsin		.1694458	.0675121	2.51	0.012	.0371245 .3017671
y1980		.7529966	.1794972	4.20	0.000	.4011886 1.104805
y1990		.9910754	.3553425	2.79	0.005	.294617 1.687534
y2000		1.789518	.5319124	3.36	0.001	.7469886 2.832047
ldap		.0605852	.0618234	0.98	0.327	-.0605865 .1817568
ldap_t		.0441221	.0253755	1.74	0.082	-.005613 .0938571
ldc1		-.9232261	.1734653	-5.32	0.000	-1.263212 -.5832403
ldc1_t		-.371577	.0716069	-5.19	0.000	-.5119239 -.2312302
ldc2		.1523232	.1231119	1.24	0.216	-.0889717 .3936181
ldc2_t		.2386344	.0516726	4.62	0.000	.137358 .3399107
ldrd		-.0301476	.030637	-0.98	0.325	-.090195 .0298998
ldrd_t		-.003888	.0151386	-0.26	0.797	-.0335592 .0257831
ldrt		-.1244435	.0723307	-1.72	0.085	-.2662091 .0173222
ldrt_t		.0178537	.032372	0.55	0.581	-.0455942 .0813015
ldrr		-.0930644	.0303135	-3.07	0.002	-.1524778 -.033651
ldrr_t		.0141506	.014921	0.95	0.343	-.015094 .0433951
ldtt		-.1120238	.1271326	-0.88	0.378	-.3611992 .1371516
ldtt_t		.0268221	.050491	0.53	0.595	-.0721384 .1257827
_cons		-1.377658	.5774059	-2.39	0.017	-2.509353 -.2459631



### 3 Bethpage Landfill (NY)

#### 3.1 Married Couples With Children

##### 3.1.1 Quadratic Specification

model for pmcwkid for site 6, xs/ts with hetero, xscorr  
(sum of wgt is 2.9014e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.4046)

Estimated covariances	=	147	Number of obs	=	588
Estimated autocorrelations	=	1	Number of groups	=	147
Estimated coefficients	=	21	Time periods	=	4
			Wald chi2(20)	=	8667.72
Log likelihood	=	140.8628	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.3349365	.0330521	-10.13	0.000	-.3997174	-.2701557
ld_t	.2797714	.0352416	7.94	0.000	.2106992	.3488436
ld_t2	-.0567885	.0108699	-5.22	0.000	-.0780932	-.0354838
ldcos	.0140307	.0100148	1.40	0.161	-.0055979	.0336592
ldsin	.0138839	.0134103	1.04	0.301	-.0123998	.0401677
y1980	-1.141539	.0674217	-16.93	0.000	-1.273683	-1.009394
y1990	-1.672234	.1121913	-14.91	0.000	-1.892125	-1.452343
y2000	-1.559861	.1553192	-10.04	0.000	-1.864281	-1.255441
ldap	.0375086	.0269269	1.39	0.164	-.0152672	.0902845
ldap_t	-.0239211	.0107281	-2.23	0.026	-.0449479	-.0028944
ldc1	.0961563	.0224377	4.29	0.000	.0521792	.1401333
ldc1_t	-.0257754	.0088783	-2.90	0.004	-.0431765	-.0083743
ldrd	.0598015	.0119123	5.02	0.000	.0364538	.0831491
ldrd_t	-.0234933	.005601	-4.19	0.000	-.034471	-.0125155
ldrt	.0199946	.0294871	0.68	0.498	-.0377991	.0777883
ldrt_t	-.0040741	.0133889	-0.30	0.761	-.0303158	.0221677
ldrr	.1817815	.0191125	9.51	0.000	.1443217	.2192413
ldrr_t	-.0322172	.0087814	-3.67	0.000	-.0494285	-.015006
ldtt	.0960621	.0517551	1.86	0.063	-.0053761	.1975003
ldtt_t	-.0082221	.0195133	-0.42	0.673	-.0464675	.0300232
_cons	.6415502	.1185543	5.41	0.000	.4091879	.8739124

#### 3.2 Male-Headed Households With Children

##### 3.2.1 Quadratic Specification

model for pmhwkid for site 6, xs/ts with hetero, xscorr  
(sum of wgt is 2.9014e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.0983)

Estimated covariances	=	147	Number of obs	=	588
Estimated autocorrelations	=	1	Number of groups	=	147
Estimated coefficients	=	21	Time periods	=	4
Log likelihood	=	-945.3956	Wald chi2(20)	=	153.90
			Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld	.027565	.2409069	0.11	0.909	-.4446038 .4997338
ld_t	.0003631	.254138	0.00	0.999	-.4977383 .4984645
ld_t2	.0386321	.0763886	0.51	0.613	-.1110868 .1883511
ldcos	-.3018514	.0556455	-5.42	0.000	-.4109146 -.1927882
ldsin	-.1185625	.0701877	-1.69	0.091	-.2561278 .0190029
y1980	-.3360784	.4475373	-0.75	0.453	-1.213235 .5410785
y1990	-.6030198	.6977219	-0.86	0.387	-1.97053 .76449
y2000	-.1688529	.9291615	-0.18	0.856	-1.989976 1.65227
ldap	.1586838	.1854639	0.86	0.392	-.2048188 .5221864
ldap_t	-.0630325	.0847843	-0.74	0.457	-.2292067 .1031416
ldc1	-.5023103	.1409863	-3.56	0.000	-.7786384 -.2259823
ldc1_t	.0721228	.0598323	1.21	0.228	-.0451463 .1893918
ldrd	-.0622339	.0601047	-1.04	0.300	-.180037 .0555692
ldrd_t	.0278247	.0315292	0.88	0.378	-.0339714 .0896207
ldrt	.1932856	.1450916	1.33	0.183	-.0910887 .4776599
ldrt_t	-.0126701	.074838	-0.17	0.866	-.1593498 .1340096
ldrr	-.0967896	.084766	-1.14	0.254	-.2629279 .0693487
ldrr_t	-.0209981	.0440167	-0.48	0.633	-.1072692 .0652731
ldtt	-.3735632	.2819398	-1.32	0.185	-.926155 .1790286
ldtt_t	-.0092912	.1241289	-0.07	0.940	-.2525794 .2339969
_cons	-4.098288	.6499842	-6.31	0.000	-5.372234 -2.824342

### 3.2.2 Linear Specification

model for pmhwkid for site 6, xs/ts with hetero, xscorr  
(sum of wgt is 2.9014e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.0989)

Estimated covariances	=	147	Number of obs	=	588
Estimated autocorrelations	=	1	Number of groups	=	147
Estimated coefficients	=	20	Time periods	=	4
Log likelihood	=	-945.4698	Wald chi2(19)	=	154.06
			Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld	-.0043815	.2264484	-0.02	0.985	-.4482123 .4394493

ld_t		.1086648	.1201952	0.90	0.366	-.1269135	.344243
ldcos		-.3022344	.0556134	-5.43	0.000	-.4112347	-.1932341
ldsin		-.1194188	.0702116	-1.70	0.089	-.2570309	.0181933
y1980		-.4973871	.3202993	-1.55	0.120	-1.125162	.1303881
y1990		-.767674	.6214188	-1.24	0.217	-1.985632	.4502844
y2000		-.1770702	.925775	-0.19	0.848	-1.991556	1.637415
ldap		.1582997	.184322	0.86	0.390	-.2029649	.5195642
ldap_t		-.0605063	.084328	-0.72	0.473	-.2257861	.1047735
ldc1		-.5037919	.140187	-3.59	0.000	-.7785534	-.2290304
ldc1_t		.0741866	.0592021	1.25	0.210	-.0418474	.1902205
ldrdr		-.0614086	.0603878	-1.02	0.309	-.1797665	.0569493
ldrdr_t		.0275722	.0316776	0.87	0.384	-.0345148	.0896591
ldrt		.1938225	.1453271	1.33	0.182	-.0910134	.4786584
ldrt_t		-.0124806	.0749403	-0.17	0.868	-.1593608	.1343996
ldrr		-.0990375	.084391	-1.17	0.241	-.2644408	.0663658
ldrr_t		-.0199448	.0437944	-0.46	0.649	-.1057802	.0658906
ldtt		-.3816967	.2806245	-1.36	0.174	-.9317106	.1683172
ldtt_t		-.0049639	.1232234	-0.04	0.968	-.2464773	.2365495
_cons		-4.012706	.6313891	-6.36	0.000	-5.250206	-2.775206

### 3.3 Female-Headed Households With Children

#### 3.3.1 Quadratic Specification

model for pfhwkid for site 6, xs/ts with hetero, xscorr  
(sum of wgt is 2.9014e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (0.3354)

Estimated covariances	=	147	Number of obs	=	588
Estimated autocorrelations	=	1	Number of groups	=	147
Estimated coefficients	=	21	Time periods	=	4
			Wald chi2(20)	=	412.25
Log likelihood	=	-260.0945	Prob > chi2	=	0.0000

depvar		Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld		.3408657	.0744823	4.58	0.000	.1948831 .4868483
ld_t		.0420998	.0623668	0.68	0.500	-.0801369 .1643366
ld_t2		-.0078925	.0174809	-0.45	0.652	-.0421544 .0263693
ldcos		-.1065589	.0209268	-5.09	0.000	-.1475746 -.0655432
ldsin		.0272036	.0226668	1.20	0.230	-.0172226 .0716297
y1980		.068538	.1237458	0.55	0.580	-.1739993 .3110753
y1990		-.3097827	.2153818	-1.44	0.150	-.7319234 .1123579
y2000		-.1124869	.3053121	-0.37	0.713	-.7108875 .4859137
ldap		-.1631544	.0665977	-2.45	0.014	-.2936835 -.0326253
ldap_t		-.018181	.0272527	-0.67	0.505	-.0715952 .0352333
ldc1		-.2440211	.0535278	-4.56	0.000	-.3489336 -.1391086
ldc1_t		.0295691	.0195517	1.51	0.130	-.0087516 .0678898
ldrdr		-.0173468	.0199656	-0.87	0.385	-.0564786 .021785
ldrdr_t		-.0054389	.0098063	-0.55	0.579	-.0246588 .013781

ldrt		-.0465243	.0462015	-1.01	0.314	-.1370775	.0440289
ldrt_t		.0340912	.0225599	1.51	0.131	-.0101254	.0783077
ldrr		-.0576406	.0244657	-2.36	0.018	-.1055925	-.0096886
ldrr_t		-.0415249	.0118414	-3.51	0.000	-.0647337	-.0183162
ldtt		-.1586664	.0911896	-1.74	0.082	-.3373948	.020062
ldtt_t		-.0247932	.0402591	-0.62	0.538	-.1036995	.0541131
_cons		-2.894256	.2223139	-13.02	0.000	-3.329984	-2.458529

### 3.3.2 Linear Specification

model for pfhwkid for site 6, xs/ts with hetero, xscorr  
(sum of wgt is 2.9014e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.3347)

Estimated covariances	=	147	Number of obs	=	588
Estimated autocorrelations	=	1	Number of groups	=	147
Estimated coefficients	=	20	Time periods	=	4
			Wald chi2(19)	=	418.60
Log likelihood	=	-259.7549	Prob > chi2	=	0.0000

depvar		Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld		.3414803	.0700526	4.87	0.000	.2041798 .4787808
ld_t		.0165605	.0343038	0.48	0.629	-.0506738 .0837948
ldcos		-.1069947	.0208974	-5.12	0.000	-.1479529 -.0660366
ldsin		.0246847	.022431	1.10	0.271	-.0192793 .0686487
y1980		.1013909	.1036195	0.98	0.328	-.1016996 .3044814
y1990		-.2717377	.2034519	-1.34	0.182	-.670496 .1270206
y2000		-.1030914	.3035666	-0.34	0.734	-.6980711 .4918882
ldap		-.1591702	.0657898	-2.42	0.016	-.288116 -.0302245
ldap_t		-.0192713	.0270354	-0.71	0.476	-.0722598 .0337172
ldc1		-.2432443	.0532057	-4.57	0.000	-.3475254 -.1389631
ldc1_t		.0298604	.0192832	1.55	0.121	-.007934 .0676549
ldrd		-.0163582	.0201555	-0.81	0.417	-.0558622 .0231458
ldrd_t		-.0056023	.0099067	-0.57	0.572	-.025019 .0138145
ldrt		-.0448037	.0462138	-0.97	0.332	-.1353811 .0457736
ldrt_t		.0340351	.022564	1.51	0.131	-.0101895 .0782597
ldrr		-.0589965	.0240831	-2.45	0.014	-.1061986 -.0117944
ldrr_t		-.0412131	.0116524	-3.54	0.000	-.0640514 -.0183749
ldtt		-.1669981	.0900397	-1.85	0.064	-.3434726 .0094764
ldtt_t		-.0237649	.0397386	-0.60	0.550	-.1016511 .0541213
_cons		-2.888779	.2194421	-13.16	0.000	-3.318878 -2.458681

## 4 CTS Printex Inc. (CA)

### 4.1 Married Couples With Children

#### 4.1.1 Quadratic Specification

model for pmcwkid for site 9, xs/ts with hetero, xscorr  
(sum of wgt is 1.6852e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.5810)

Estimated covariances	=	104	Number of obs	=	416
Estimated autocorrelations	=	1	Number of groups	=	104
Estimated coefficients	=	23	Time periods	=	4
			Wald chi2(22)	=	1441.73
Log likelihood	=	-85.80162	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	.5234849	.155584	3.36	0.001	.2185458	.8284239
ld_t	-.2358705	.0800484	-2.95	0.003	-.3927624	-.0789786
ld_t2	.0392901	.0157986	2.49	0.013	.0083253	.0702548
ldcos	-.0395282	.0852259	-0.46	0.643	-.206568	.1275116
ldsin	.2212804	.0876722	2.52	0.012	.0494461	.3931147
y1980	.0766545	1.269832	0.06	0.952	-2.412171	2.56548
y1990	.6521929	2.536012	0.26	0.797	-4.318299	5.622685
y2000	1.380931	3.800278	0.36	0.716	-6.067478	8.82934
ldap	-.1550312	.126189	-1.23	0.219	-.4023572	.0922948
ldap_t	.0956513	.0473538	2.02	0.043	.0028395	.1884632
ldc1	.971818	.4047192	2.40	0.016	.1785829	1.765053
ldc1_t	-.0359364	.1466712	-0.25	0.806	-.3234068	.2515339
ldc2	3.949859	1.351461	2.92	0.003	1.301045	6.598674
ldc2_t	-.2030147	.240845	-0.84	0.399	-.6750622	.2690329
ldrd	.0231755	.0284813	0.81	0.416	-.0326469	.0789978
ldrd_t	.0044224	.0116304	0.38	0.704	-.0183726	.0272175
ldrt	-.3895264	.111927	-3.48	0.001	-.6088992	-.1701535
ldrt_t	.0724135	.0431821	1.68	0.094	-.0122219	.1570489
ldrr	.223369	.0417132	5.35	0.000	.1416125	.3051254
ldrr_t	-.0509828	.0163803	-3.11	0.002	-.0830875	-.0188781
ldtt	-.2152802	.1093243	-1.97	0.049	-.4295519	-.0010085
ldtt_t	.0829891	.0420439	1.97	0.048	.0005846	.1653936
_cons	-18.13244	5.834531	-3.11	0.002	-29.56791	-6.696974

### 4.2 Male-Headed Households With Children

#### 4.2.1 Quadratic Specification

model for pmhwkid for site 9, xs/ts with hetero, xscorr  
(sum of wgt is 1.6852e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
 Panels: heteroskedastic  
 Correlation: common AR(1) coefficient for all panels (0.1684)

Estimated covariances	=	104	Number of obs	=	416
Estimated autocorrelations	=	1	Number of groups	=	104
Estimated coefficients	=	23	Time periods	=	4
			Wald chi2(22)	=	250.28
Log likelihood	=	-492.9135	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	.0162678	.3703227	0.04	0.965	-.7095513	.7420869
ld_t	.1227511	.257551	0.48	0.634	-.3820396	.6275419
ld_t2	-.0333248	.0610253	-0.55	0.585	-.1529323	.0862826
ldcos	.3092167	.1608438	1.92	0.055	-.0060314	.6244648
ldsin	-.1715843	.1763236	-0.97	0.330	-.5171721	.1740035
y1980	5.390072	3.161426	1.70	0.088	-.8062093	11.58635
y1990	10.28933	6.304781	1.63	0.103	-2.067817	22.64647
y2000	15.77672	9.443529	1.67	0.095	-2.732256	34.2857
ldap	.3789278	.2721675	1.39	0.164	-.1545106	.9123662
ldap_t	-.1549624	.1217387	-1.27	0.203	-.3935658	.083641
ldc1	-.2763494	.7009077	-0.39	0.693	-1.650103	1.097404
ldc1_t	.2368833	.3171361	0.75	0.455	-.3846919	.8584586
ldc2	-1.265	2.730622	-0.46	0.643	-6.61692	4.08692
ldc2_t	-1.215648	.609085	-2.00	0.046	-2.409433	-.0218634
ldrdr	.1039596	.0581572	1.79	0.074	-.0100263	.2179456
ldrdr_t	-.0160501	.0284383	-0.56	0.572	-.0717882	.039688
ldrdr_t	.4589876	.2449258	1.87	0.061	-.0210582	.9390334
ldrdr_t	-.3013903	.1082373	-2.78	0.005	-.5135315	-.0892492
ldrdr	-.4021369	.0708324	-5.68	0.000	-.5409658	-.263308
ldrdr_t	.0647434	.0351006	1.84	0.065	-.0040525	.1335393
ldtt	.002232	.2138126	0.01	0.992	-.416833	.421297
ldtt_t	-.0399242	.0987781	-0.40	0.686	-.2335257	.1536773
_cons	-.9769741	11.76329	-0.08	0.934	-24.0326	22.07866

### 4.2.2 Linear Specification

model for pmhwkid for site 9, xs/ts with hetero, xscorr  
 (sum of wgt is 1.6852e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
 Panels: heteroskedastic  
 Correlation: common AR(1) coefficient for all panels (0.1735)

Estimated covariances	=	104	Number of obs	=	416
Estimated autocorrelations	=	1	Number of groups	=	104
Estimated coefficients	=	22	Time periods	=	4
			Wald chi2(21)	=	246.15
Log likelihood	=	-490.8534	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.0556493	.3582658	-0.16	0.877	-.7578374	.6465388
ld_t	.0465008	.172164	0.27	0.787	-.2909344	.383936
ldcos	.3000312	.1632285	1.84	0.066	-.0198907	.6199532
ldsin	-.1487479	.1795791	-0.83	0.407	-.5007164	.2032206
y1980	5.197303	3.080233	1.69	0.092	-.839843	11.23445
y1990	9.824677	6.161726	1.59	0.111	-2.252084	21.90144
y2000	14.90319	9.24378	1.61	0.107	-3.214286	33.02067
ldap	.4210249	.271695	1.55	0.121	-.1114876	.9535373
ldap_t	-.1725739	.1203896	-1.43	0.152	-.4085331	.0633854
ldc1	-.3853282	.6963209	-0.55	0.580	-1.750092	.9794357
ldc1_t	.287534	.3078398	0.93	0.350	-.3158209	.890889
ldc2	-1.066208	2.766311	-0.39	0.700	-6.488078	4.355663
ldc2_t	-1.174458	.6011647	-1.95	0.051	-2.352719	.0038036
ldrdr	.104589	.0586746	1.78	0.075	-.0104112	.2195892
ldrdr_t	-.0157626	.0286859	-0.55	0.583	-.0719858	.0404607
ldrdr_t	.4662378	.2516336	1.85	0.064	-.026955	.9594306
ldrdr_t	-.3078032	.1115692	-2.76	0.006	-.5264747	-.0891316
ldrdr	-.3877603	.072247	-5.37	0.000	-.5293619	-.2461587
ldrdr_t	.0632043	.0357879	1.77	0.077	-.0069386	.1333472
ldtt	.0393901	.2104272	0.19	0.852	-.3730396	.4518198
ldtt_t	-.050429	.0979008	-0.52	0.606	-.242311	.141453
_cons	-1.435552	11.89243	-0.12	0.904	-24.74428	21.87317

### 4.3 Female-Headed Households With Children

#### 4.3.1 Quadratic Specification

model for pfhwkid for site 9, xs/ts with hetero, xscorr  
(sum of wgt is 1.6852e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (0.2698)

Estimated covariances	=	104	Number of obs	=	416
Estimated autocorrelations	=	1	Number of groups	=	104
Estimated coefficients	=	23	Time periods	=	4
Log likelihood	=	-206.1804	Wald chi2(22)	=	223.51
			Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.6487073	.1862966	-3.48	0.000	-1.013842	-.2835728
ld_t	.0056304	.1208203	0.05	0.963	-.231173	.2424338
ld_t2	.0451988	.026941	1.68	0.093	-.0076047	.0980023
ldcos	.1847755	.0796462	2.32	0.020	.0286719	.3408792
ldsin	.2361575	.0937326	2.52	0.012	.0524449	.4198701
y1980	3.359039	2.032831	1.65	0.098	-.6252362	7.343315
y1990	6.461387	4.061219	1.59	0.112	-1.498456	14.42123

y2000		9.540288	6.08962	1.57	0.117	-2.395147	21.47572
ldap		.6125201	.1550253	3.95	0.000	.3086762	.9163641
ldap_t		-.1653436	.0672344	-2.46	0.014	-.2971207	-.0335665
ldc1		-.7134721	.4008615	-1.78	0.075	-1.499146	.072202
ldc1_t		.0450865	.1709234	0.26	0.792	-.2899172	.3800901
ldc2		.345947	1.606706	0.22	0.830	-2.803139	3.495033
ldc2_t		-.7815074	.4101225	-1.91	0.057	-1.585333	.0223179
ldrdr		.0232509	.0290704	0.80	0.424	-.0337261	.0802279
ldrdr_t		.0032319	.0141666	0.23	0.820	-.0245341	.0309979
ldrt		.0808241	.1366071	0.59	0.554	-.1869208	.3485691
ldrt_t		-.0935084	.0625778	-1.49	0.135	-.2161585	.0291418
ldrr		-.2048597	.0458928	-4.46	0.000	-.2948079	-.1149115
ldrr_t		.0289494	.0221129	1.31	0.190	-.0143911	.0722899
ldtt		.3270645	.1228815	2.66	0.008	.0862212	.5679078
ldtt_t		-.0929207	.057029	-1.63	0.103	-.2046955	.0188541
_cons		-2.622207	7.066168	-0.37	0.711	-16.47164	11.22723

### 4.3.2 Linear Specification

model for pfhwkid for site 9, xs/ts with hetero, xscorr  
(sum of wgt is 1.6852e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.2677)

Estimated covariances	=	104	Number of obs	=	416
Estimated autocorrelations	=	1	Number of groups	=	104
Estimated coefficients	=	22	Time periods	=	4
			Wald chi2(21)	=	225.33
Log likelihood	=	-207.185	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld	-.7000253	.1877015	-3.73	0.000	-1.067913 - .3321371
ld_t	.1433616	.0893973	1.60	0.109	-.0318539 .3185771
ldcos	.1870589	.0791598	2.36	0.018	.0319086 .3422093
ldsin	.2317484	.0930407	2.49	0.013	.049392 .4141048
y1980	3.258089	2.04802	1.59	0.112	-.7559572 7.272135
y1990	6.429313	4.095907	1.57	0.116	-1.598517 14.45714
y2000	9.74388	6.144234	1.59	0.113	-2.298596 21.78636
ldap	.6225706	.1565295	3.98	0.000	.3157785 .9293628
ldap_t	-.1662717	.0677753	-2.45	0.014	-.2991089 -.0334345
ldc1	-.728736	.3947815	-1.85	0.065	-1.502494 .0450215
ldc1_t	.0381754	.1693307	0.23	0.822	-.2937066 .3700574
ldc2	.2478573	1.613713	0.15	0.878	-2.914962 3.410677
ldc2_t	-.797515	.4142795	-1.93	0.054	-1.609488 .014458
ldrdr	.0232383	.0290728	0.80	0.424	-.0337433 .0802199
ldrdr_t	.0042091	.0141773	0.30	0.767	-.023578 .0319961
ldrt	.078041	.1363841	0.57	0.567	-.1892669 .3453489
ldrt_t	-.0907309	.062253	-1.46	0.145	-.2127446 .0312828
ldrr	-.2093424	.0460568	-4.55	0.000	-.299612 -.1190727
ldrr_t	.031641	.022208	1.42	0.154	-.0118859 .075168



ldtt		.3272593	.123682	2.65	0.008	.084847	.5696716
ldtt_t		-.0884667	.0576772	-1.53	0.125	-.201512	.0245786
_cons		-2.109056	7.103422	-0.30	0.767	-16.03151	11.8134

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## 5 Montrose Chemical (CA)

### 5.1 Married Couples With Children

#### 5.1.1 Quadratic Specification

model for pmcwkid for site 10, xs/ts with hetero, xscorr  
(sum of wgt is 4.6880e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.1745)

Estimated covariances	=	271	Number of obs	=	1084
Estimated autocorrelations	=	1	Number of groups	=	271
Estimated coefficients	=	21	Time periods	=	4
Log likelihood	=	-1957.597	Wald chi2(20)	=	2222.44
			Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-2.084093	.1495943	-13.93	0.000	-2.377293	-1.790894
ld_t	1.017935	.1779541	5.72	0.000	.669151	1.366718
ld_t2	-.1310838	.0536477	-2.44	0.015	-.2362314	-.0259362
ldcos	-.0866675	.0534306	-1.62	0.105	-.1913895	.0180545
ldsin	-1.103302	.115659	-9.54	0.000	-1.329989	-.8766142
y1980	-6.4808	.6242294	-10.38	0.000	-7.704267	-5.257333
y1990	-13.07097	1.177559	-11.10	0.000	-15.37894	-10.763
y2000	-20.06283	1.728975	-11.60	0.000	-23.45156	-16.6741
ldap	.5491232	.1421765	3.86	0.000	.2704624	.827784
ldap_t	-.0516466	.0699232	-0.74	0.460	-.1886934	.0854003
ldcl	-9.466191	.6312968	-14.99	0.000	-10.70351	-8.228872
ldcl_t	1.560344	.1336448	11.68	0.000	1.298405	1.822283
ldrd	-.168893	.0772541	-2.19	0.029	-.3203084	-.0174777
ldrd_t	.0528655	.0383351	1.38	0.168	-.0222698	.1280008
ldrt	.4911245	.226419	2.17	0.030	.0473514	.9348977
ldrt_t	-.1620695	.1113658	-1.46	0.146	-.3803424	.0562034
ldrr	.2475247	.0703518	3.52	0.000	.1096377	.3854117
ldrr_t	-.0811236	.0344604	-2.35	0.019	-.1486648	-.0135825
ldtt	-2.55038	.1512467	-16.86	0.000	-2.846818	-2.253942
ldtt_t	1.11445	.0626655	17.78	0.000	.9916276	1.237272
_cons	32.22786	2.127021	15.15	0.000	28.05897	36.39674

### 5.2 Male-Headed Households With Children

#### 5.2.1 Quadratic Specification

model for pmhwkid for site 10, xs/ts with hetero, xscorr  
(sum of wgt is 4.6880e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.1467)

Estimated covariances	=	271	Number of obs	=	1084
Estimated autocorrelations	=	1	Number of groups	=	271
Estimated coefficients	=	21	Time periods	=	4
Log likelihood	=	-1343.707	Wald chi2(20)	=	5965.79
			Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld	1.034129	.1304527	7.93	0.000	.7784467 1.289812
ld_t	-.5348117	.155016	-3.45	0.001	-.8386374 -.230986
ld_t2	.0364215	.0467703	0.78	0.436	-.0552467 .1280897
ldcos	-.0270504	.0279252	-0.97	0.333	-.0817827 .0276819
ldsin	.5891216	.0645162	9.13	0.000	.4626722 .715571
y1980	5.852355	.3512913	16.66	0.000	5.163837 6.540873
y1990	9.693664	.6032217	16.07	0.000	8.511371 10.87596
y2000	15.74537	.8458507	18.61	0.000	14.08753 17.4032
ldap	-.5758035	.0521353	-11.04	0.000	-.6779868 -.4736201
ldap_t	.1824503	.025561	7.14	0.000	.1323518 .2325489
ldc1	5.453362	.3387276	16.10	0.000	4.789468 6.117256
ldc1_t	-1.180843	.0710035	-16.63	0.000	-1.320007 -1.041679
ldrdr	.1359934	.0422233	3.22	0.001	.0532373 .2187495
ldrdr_t	-.0608102	.0210938	-2.88	0.004	-.1021532 -.0194671
ldrtr	.3587347	.1186165	3.02	0.002	.1262507 .5912188
ldrtr_t	-.1299992	.0581715	-2.23	0.025	-.2440133 -.0159852
ldrr	.0466382	.0412809	1.13	0.259	-.0342709 .1275473
ldrr_t	-.0184643	.02041	-0.90	0.366	-.0584673 .0215386
ldtt	1.651763	.082833	19.94	0.000	1.489413 1.814112
ldtt_t	-.8326402	.0314381	-26.49	0.000	-.8942578 -.7710227
_cons	-23.44192	1.07561	-21.79	0.000	-25.55007 -21.33376

## 5.2.2 Linear Specification

model for pmhwkid for site 10, xs/ts with hetero, xscorr  
(sum of wgt is 4.6880e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.1463)

Estimated covariances	=	271	Number of obs	=	1084
Estimated autocorrelations	=	1	Number of groups	=	271
Estimated coefficients	=	20	Time periods	=	4
Log likelihood	=	-1344.385	Wald chi2(19)	=	5930.95
			Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
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ld		1.002827	.1241642	8.08	0.000	.7594699	1.246185
ld_t		-.4251798	.0610383	-6.97	0.000	-.5448126	-.3055469
ldcos		-.0275	.0279332	-0.98	0.325	-.082248	.0272479
ldsin		.5872255	.0646766	9.08	0.000	.4604616	.7139894
y1980		5.691334	.2870437	19.83	0.000	5.128739	6.25393
y1990		9.516772	.5678855	16.76	0.000	8.403737	10.62981
y2000		15.70492	.8501182	18.47	0.000	14.03872	17.37112
ldap		-.5768523	.0522455	-11.04	0.000	-.6792516	-.4744529
ldap_t		.1827047	.0256168	7.13	0.000	.1324967	.2329128
ldc1		5.436997	.340254	15.98	0.000	4.770112	6.103883
ldc1_t		-1.177656	.0715001	-16.47	0.000	-1.317794	-1.037519
ldr		.1363	.0423959	3.21	0.001	.0532055	.2193945
ldr_t		-.061039	.0211928	-2.88	0.004	-.102576	-.0195019
ldrt		.3561815	.1189784	2.99	0.003	.1229882	.5893748
ldrt_t		-.1276343	.0583337	-2.19	0.029	-.2419663	-.0133022
ldrr		.0472456	.0413448	1.14	0.253	-.0337888	.12828
ldrr_t		-.0188847	.0204498	-0.92	0.356	-.0589656	.0211961
ldtt		1.655719	.0825672	20.05	0.000	1.493891	1.817548
ldtt_t		-.8334427	.0313277	-26.60	0.000	-.8948439	-.7720414
_cons		-23.32833	1.076538	-21.67	0.000	-25.4383	-21.21835

## 5.3 Female-Headed Households With Children

### 5.3.1 Quadratic Specification

model for pfhwkid for site 10, xs/ts with hetero, xscorr  
(sum of wgt is 4.6880e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (0.3216)

Estimated covariances	=	271	Number of obs	=	1084
Estimated autocorrelations	=	1	Number of groups	=	271
Estimated coefficients	=	21	Time periods	=	4
			Wald chi2(20)	=	3493.27
Log likelihood	=	-825.0122	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]		
ld		-.4305522	.0611691	-7.04	0.000	-.5504414	-.310663
ld_t		.3603625	.0586729	6.14	0.000	.2453658	.4753591
ld_t2		-.0999997	.0168608	-5.93	0.000	-.1330463	-.066953
ldcos		.1645377	.0193047	8.52	0.000	.1267011	.2023742
ldsin		-.6162064	.0426592	-14.44	0.000	-.6998169	-.5325959
y1980		-.2722947	.2235657	-1.22	0.223	-.7104754	.165886
y1990		-.6667441	.4307518	-1.55	0.122	-1.511002	.1775138
y2000		-.7251227	.637442	-1.14	0.255	-1.974486	.5242407
ldap		.6301422	.0470656	13.39	0.000	.5378954	.722389
ldap_t		-.1712146	.0221914	-7.72	0.000	-.2147088	-.1277203
ldc1		-4.985431	.2482899	-20.08	0.000	-5.47207	-4.498791
ldc1_t		.1677207	.0550047	3.05	0.002	.0599134	.275528
ldr		-.0368784	.0243903	-1.51	0.131	-.0846826	.0109257

ldrd_t		-.0030657	.0113628	-0.27	0.787	-.0253365	.0192051
ldrt		-.0067921	.0755771	-0.09	0.928	-.1549204	.1413363
ldrt_t		.0507595	.0346996	1.46	0.144	-.0172505	.1187696
ldrr		-.0760452	.0270157	-2.81	0.005	-.128995	-.0230954
ldrr_t		.0064216	.0126295	0.51	0.611	-.0183317	.031175
ldtt		-.6716027	.0489512	-13.72	0.000	-.7675454	-.5756601
ldtt_t		.0402882	.0195563	2.06	0.039	.0019585	.0786179
_cons		13.06273	.7940312	16.45	0.000	11.50646	14.619

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## 6 Chem Central (MI)

### 6.1 Married Couples With Children

#### 6.1.1 Quadratic Specification

model for pmcwkid for site 11, xs/ts with hetero, xscorr  
(sum of wgt is 1.4371e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.5472)

Estimated covariances	=	89	Number of obs	=	356
Estimated autocorrelations	=	1	Number of groups	=	89
Estimated coefficients	=	21	Time periods	=	4
Log likelihood	=	43.68096	Wald chi2(20)	=	2267.39
			Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	.0158445	.0524868	0.30	0.763	-.0870278	.1187167
ld_t	-.0796881	.0388492	-2.05	0.040	-.1558312	-.0035451
ld_t2	.0023999	.0111177	0.22	0.829	-.0193903	.0241901
ldcos	.1084845	.0535232	2.03	0.043	.003581	.213388
ldsin	.0755806	.0246841	3.06	0.002	.0272006	.1239606
y1980	-.38153	.1115592	-3.42	0.001	-.600182	-.1628781
y1990	-.3809108	.2106568	-1.81	0.071	-.7937905	.0319689
y2000	-.4101482	.309687	-1.32	0.185	-1.017124	.1968271
ldap	.4734268	.1825775	2.59	0.010	.1155814	.8312722
ldap_t	-.0630901	.0383046	-1.65	0.100	-.1381657	.0119855
ldc1	.9199946	.0813375	11.31	0.000	.7605761	1.079413
ldc1_t	.1238625	.0368952	3.36	0.001	.0515493	.1961757
ldrdr	.0514548	.020468	2.51	0.012	.0113383	.0915713
ldrdr_t	-.0235605	.0086163	-2.73	0.006	-.0404482	-.0066728
ldrt	-.0867405	.067986	-1.28	0.202	-.2199905	.0465096
ldrt_t	.0885362	.02785	3.18	0.001	.0339512	.1431212
ldrr	.0994616	.0226691	4.39	0.000	.0550311	.1438922
ldrr_t	-.0423665	.009577	-4.42	0.000	-.061137	-.023596
ldtt	-.1245144	.1132065	-1.10	0.271	-.3463952	.0973663
ldtt_t	-.1994911	.0478806	-4.17	0.000	-.2933354	-.1056469
_cons	-2.565993	.4352111	-5.90	0.000	-3.418991	-1.712995

#### 6.1.2 Linear Specification

model for pmcwkid for site 11, xs/ts with hetero, xscorr  
(sum of wgt is 1.4371e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (0.5475)

Estimated covariances	=	89	Number of obs	=	356
Estimated autocorrelations	=	1	Number of groups	=	89
Estimated coefficients	=	20	Time periods	=	4
			Wald chi2(19)	=	2265.28
Log likelihood	=	43.7239	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	.0146133	.0521787	0.28	0.779	-.0876551	.1168818
ld_t	-.0724254	.0206151	-3.51	0.000	-.1128303	-.0320205
ldcos	.1083823	.0535139	2.03	0.043	.0034969	.2132676
ldsin	.0756274	.0246798	3.06	0.002	.0272557	.123999
y1980	-.3901962	.1051025	-3.71	0.000	-.5961933	-.1841992
y1990	-.3900747	.207308	-1.88	0.060	-.796391	.0162416
y2000	-.4117081	.3096506	-1.33	0.184	-1.018612	.1951959
ldap	.473124	.1825467	2.59	0.010	.1153391	.8309088
ldap_t	-.0630385	.0382991	-1.65	0.100	-.1381033	.0120264
ldc1	.9200053	.0813685	11.31	0.000	.7605261	1.079485
ldc1_t	.1237568	.0369033	3.35	0.001	.0514277	.196086
ldrd	.0513411	.0204714	2.51	0.012	.011218	.0914642
ldrd_t	-.023528	.008616	-2.73	0.006	-.040415	-.006641
ldrt	-.0870464	.0679683	-1.28	0.200	-.2202619	.0461691
ldrt_t	.0886668	.0278311	3.19	0.001	.0341188	.1432147
ldrr	.0994361	.0227019	4.38	0.000	.0549411	.143931
ldrr_t	-.0424106	.0095906	-4.42	0.000	-.0612079	-.0236134
ldtt	-.1244602	.1132457	-1.10	0.272	-.3464177	.0974972
ldtt_t	-.1993157	.0478899	-4.16	0.000	-.2931781	-.1054533
_cons	-2.563011	.4350935	-5.89	0.000	-3.415779	-1.710244

## 6.2 Male-Headed Households With Children

### 6.2.1 Quadratic Specification

model for pmhwkid for site 11, xs/ts with hetero, xscorr  
(sum of wgt is 1.4371e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (0.1801)

Estimated covariances	=	89	Number of obs	=	356
Estimated autocorrelations	=	1	Number of groups	=	89
Estimated coefficients	=	21	Time periods	=	4
			Wald chi2(20)	=	363.02
Log likelihood	=	-466.4951	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	.6422247	.2389495	2.69	0.007	.1738923	1.110557
ld_t	-.4684153	.2373877	-1.97	0.048	-.9336866	-.003144

ld_t2		.0719589	.0685208	1.05	0.294	-.0623394	.2062573
ldcos		.0126446	.1368888	0.09	0.926	-.2556525	.2809416
ldsin		-.1000457	.0658489	-1.52	0.129	-.2291072	.0290159
y1980		.3093393	.3707221	0.83	0.404	-.4172627	1.035941
y1990		1.102864	.5993746	1.84	0.066	-.071889	2.277616
y2000		1.528283	.8133917	1.88	0.060	-.0659352	3.122502
ldap		-.015623	.4240766	-0.04	0.971	-.846798	.8155519
ldap_t		.0951465	.1057332	0.90	0.368	-.1120867	.3023798
ldc1		1.009726	.3214552	3.14	0.002	.3796857	1.639767
ldc1_t		-.0971068	.1631407	-0.60	0.552	-.4168567	.2226431
ldrdr		-.0716721	.0662968	-1.08	0.280	-.2016113	.0582672
ldrdr_t		.0503382	.0314272	1.60	0.109	-.011258	.1119343
ldrt		-.1941541	.2263253	-0.86	0.391	-.6377435	.2494353
ldrt_t		.0178576	.1112955	0.16	0.873	-.2002776	.2359928
ldrr		.1031595	.060685	1.70	0.089	-.0157809	.2220999
ldrr_t		-.128811	.0306479	-4.20	0.000	-.1888798	-.0687421
ldtt		-1.624044	.3239079	-5.01	0.000	-2.258892	-.9891966
ldtt_t		.225015	.1643027	1.37	0.171	-.0970125	.5470425
_cons		-5.151769	1.041877	-4.94	0.000	-7.193811	-3.109726

## 6.2.2 Linear Specification

model for pmhwkid for site 11, xs/ts with hetero, xscorr  
(sum of wgt is 1.4371e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (0.1770)

Estimated covariances	=	89	Number of obs	=	356
Estimated autocorrelations	=	1	Number of groups	=	89
Estimated coefficients	=	20	Time periods	=	4
			Wald chi2(19)	=	361.03
Log likelihood	=	-466.7483	Prob > chi2	=	0.0000

depvar		Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld		.5779638	.2299657	2.51	0.012	.1272394 1.028688
ld_t		-.2462887	.1150238	-2.14	0.032	-.4717312 -.0208463
ldcos		.014399	.1353236	0.11	0.915	-.2508303 .2796283
ldsin		-.0967143	.0658983	-1.47	0.142	-.2258727 .032444
y1980		.0291456	.2792829	0.10	0.917	-.5182388 .57653
y1990		.8040949	.5385985	1.49	0.135	-.2515387 1.859729
y2000		1.466264	.8036075	1.82	0.068	-.1087777 3.041306
ldap		.0026411	.4212915	0.01	0.995	-.8230751 .8283573
ldap_t		.0878901	.1059546	0.83	0.407	-.1197772 .2955573
ldc1		.9743476	.3236474	3.01	0.003	.3400105 1.608685
ldc1_t		-.0820281	.164455	-0.50	0.618	-.404354 .2402978
ldrdr		-.0689804	.0669024	-1.03	0.303	-.2001067 .0621459
ldrdr_t		.0497709	.031688	1.57	0.116	-.0123365 .1118783
ldrt		-.2272579	.2299946	-0.99	0.323	-.678039 .2235232
ldrt_t		.0331362	.1129622	0.29	0.769	-.1882657 .2545381
ldrr		.1046002	.0596299	1.75	0.079	-.0122723 .2214726



ldrr_t		-.1300296	.0300961	-4.32	0.000	-.1890168	-.0710424
ldtt		-1.586649	.3259086	-4.87	0.000	-2.225418	-.9478794
ldtt_t		.2097022	.1653884	1.27	0.205	-.1144532	.5338576
_cons		-5.021474	1.024421	-4.90	0.000	-7.029302	-3.013646

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## 6.3 Female-Headed Households With Children

### 6.3.1 Quadratic Specification

model for pfhwkid for site 11, xs/ts with hetero, xscorr  
(sum of wgt is 1.4371e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.5077)

Estimated covariances	=	89	Number of obs	=	356
Estimated autocorrelations	=	1	Number of groups	=	89
Estimated coefficients	=	21	Time periods	=	4
Log likelihood	=	-102.0766	Wald chi2(20)	=	714.09
			Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld	-.0570695	.1156137	-0.49	0.622	-.2836682 .1695292
ld_t	.0747058	.0776797	0.96	0.336	-.0775436 .2269551
ld_t2	.0003088	.0196073	0.02	0.987	-.0381208 .0387384
ldcos	.281826	.065815	4.28	0.000	.1528309 .4108211
ldsin	-.2363044	.0322618	-7.32	0.000	-.2995364 -.1730725
y1980	.5313938	.1316012	4.04	0.000	.2734601 .7893274
y1990	.5192496	.2315768	2.24	0.025	.0653674 .9731319
y2000	.6682869	.3303641	2.02	0.043	.0207852 1.315789
ldap	.5343732	.1909923	2.80	0.005	.1600352 .9087113
ldap_t	.0249884	.0396648	0.63	0.529	-.0527532 .1027299
ldcl	.3959765	.1915055	2.07	0.039	.0206326 .7713203
ldcl_t	.0024219	.0838157	0.03	0.977	-.1618539 .1666977
ldrdr	.1000753	.0304538	3.29	0.001	.0403869 .1597636
ldrdr_t	-.0117483	.0124243	-0.95	0.344	-.0360995 .012603
ldrtr	.214676	.1095088	1.96	0.050	.0000427 .4293094
ldrtr_t	-.1043583	.0470768	-2.22	0.027	-.1966271 -.0120895
ldrr	-.0410067	.02667	-1.54	0.124	-.0932788 .0112655
ldrr_t	-.033271	.0118498	-2.81	0.005	-.0564962 -.0100458
ldtt	-1.167618	.1952325	-5.98	0.000	-1.550267 -.7849694
ldtt_t	-.0356308	.0894056	-0.40	0.690	-.2108626 .139601
_cons	-3.090268	.5029169	-6.14	0.000	-4.075967 -2.104569

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### 6.3.2 Linear Specification

model for pfhwkid for site 11, xs/ts with hetero, xscorr  
(sum of wgt is 1.4371e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.5075)

Estimated covariances	=	89	Number of obs	=	356
Estimated autocorrelations	=	1	Number of groups	=	89
Estimated coefficients	=	20	Time periods	=	4
Log likelihood	=	-101.9499	Wald chi2(19)	=	715.91
			Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.0580418	.1139532	-0.51	0.611	-.281386	.1653023
ld_t	.0763164	.0494397	1.54	0.123	-.0205837	.1732165
ldcos	.2834878	.0655117	4.33	0.000	.1550873	.4118883
ldsin	-.2361629	.0322053	-7.33	0.000	-.2992841	-.1730418
y1980	.5291191	.1125339	4.70	0.000	.3085567	.7496815
y1990	.5151948	.221035	2.33	0.020	.0819742	.9484154
y2000	.6634282	.3300464	2.01	0.044	.0165492	1.310307
ldap	.5381681	.1905025	2.82	0.005	.1647901	.9115461
ldap_t	.0249806	.0396755	0.63	0.529	-.052782	.1027432
ldc1	.3970155	.191358	2.07	0.038	.0219606	.7720703
ldc1_t	.0023653	.0837912	0.03	0.977	-.1618625	.166593
ldrd	.1006073	.0303988	3.31	0.001	.0410267	.1601879
ldrd_t	-.0119953	.0124134	-0.97	0.334	-.0363251	.0123345
ldrt	.2129115	.1089444	1.95	0.051	-.0006156	.4264386
ldrt_t	-.1041621	.0468951	-2.22	0.026	-.1960748	-.0122493
ldrr	-.0412627	.0264822	-1.56	0.119	-.0931669	.0106415
ldrr_t	-.033162	.0117708	-2.82	0.005	-.0562324	-.0100916
ldtt	-1.167414	.1953085	-5.98	0.000	-1.550211	-.7846162
ldtt_t	-.0358624	.0894692	-0.40	0.689	-.2112187	.139494
_cons	-3.095895	.5013853	-6.17	0.000	-4.078592	-2.113198

## 7 Havertown PCP (PA)

### 7.1 Married Couples With Children

#### 7.1.1 Quadratic Specification

model for pmcwkid for site 15, xs/ts with hetero, xscorr  
(sum of wgt is 3.6942e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.6056)

Estimated covariances	=	216	Number of obs	=	864
Estimated autocorrelations	=	1	Number of groups	=	216
Estimated coefficients	=	21	Time periods	=	4
Log likelihood	=	15.25121	Wald chi2(20)	=	4215.01
			Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld	-.1579345	.0411602	-3.84	0.000	-.2386071 -.077262
ld_t	.0006883	.0315765	0.02	0.983	-.0612005 .0625771
ld_t2	-.0210061	.0093338	-2.25	0.024	-.0393001 -.0027121
ldcos	-.0982563	.0333841	-2.94	0.003	-.1636879 -.0328247
ldsin	-.0541714	.02434	-2.23	0.026	-.1018769 -.0064659
y1980	-.8183519	.0828451	-9.88	0.000	-.9807253 -.6559784
y1990	-1.287466	.1529065	-8.42	0.000	-1.587157 -.9877748
y2000	-1.521816	.223078	-6.82	0.000	-1.959041 -1.084591
ldap	-.1768767	.0494939	-3.57	0.000	-.273883 -.0798704
ldap_t	.0225073	.0197981	1.14	0.256	-.0162963 .0613109
ldcl	.7638892	.1111715	6.87	0.000	.545997 .9817813
ldcl_t	.1360208	.0291308	4.67	0.000	.0789255 .1931161
ldrd	.0933802	.0175762	5.31	0.000	.0589315 .1278289
ldrd_t	.0008186	.0077639	0.11	0.916	-.0143983 .0160355
ldrt	.0012922	.0390989	0.03	0.974	-.0753403 .0779247
ldrt_t	.0008069	.0141625	0.06	0.955	-.0269511 .0285648
ldrr	.0621573	.0162638	3.82	0.000	.0302808 .0940338
ldrr_t	-.0352019	.0067804	-5.19	0.000	-.0484912 -.0219125
ldtt	.1574925	.0654087	2.41	0.016	.0292939 .2856911
ldtt_t	-.0450605	.0256494	-1.76	0.079	-.0953324 .0052115
_cons	-1.876935	.317986	-5.90	0.000	-2.500176 -1.253694

### 7.2 Male-Headed Households With Children

#### 7.2.1 Quadratic Specification

model for pmhwkid for site 15, xs/ts with hetero, xscorr  
(sum of wgt is 3.6942e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.0943)

Estimated covariances	=	216	Number of obs	=	864
Estimated autocorrelations	=	1	Number of groups	=	216
Estimated coefficients	=	21	Time periods	=	4
Log likelihood	=	-1266.12	Wald chi2(20)	=	448.69
			Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld	-.1877626	.1728741	-1.09	0.277	-.5265897 .1510645
ld_t	.5887021	.2251921	2.61	0.009	.1473337 1.03007
ld_t2	-.2305303	.0719746	-3.20	0.001	-.3715979 -.0894626
ldcos	.3814143	.0882916	4.32	0.000	.208366 .5544626
ldsin	.2547262	.0630902	4.04	0.000	.1310716 .3783807
y1980	-.6550814	.3953231	-1.66	0.098	-1.4299 .1197376
y1990	-.2467613	.583051	-0.42	0.672	-1.38952 .8959977
y2000	1.648936	.7533184	2.19	0.029	.1724587 3.125412
ldap	-.4068573	.1357868	-3.00	0.003	-.6729946 -.1407201
ldap_t	-.0487886	.0651879	-0.75	0.454	-.1765546 .0789774
ldc1	-1.827939	.3635677	-5.03	0.000	-2.540518 -1.115359
ldc1_t	-.2903801	.1217477	-2.39	0.017	-.5290013 -.0517589
ldrd	.074626	.0484796	1.54	0.124	-.0203922 .1696443
ldrd_t	-.0318208	.0261012	-1.22	0.223	-.0829781 .0193365
ldrt	-.0821643	.0975145	-0.84	0.399	-.2732892 .1089606
ldrt_t	.064617	.0443782	1.46	0.145	-.0223626 .1515966
ldrr	.06967	.0496564	1.40	0.161	-.0276548 .1669949
ldrr_t	-.0551883	.0267397	-2.06	0.039	-.107597 -.0027795
ldtt	.5934117	.2517533	2.36	0.018	.0999843 1.086839
ldtt_t	.3061793	.1131802	2.71	0.007	.0843502 .5280084
_cons	-.0269572	.9569698	-0.03	0.978	-1.902584 1.848669

### 7.3 Female-Headed Households With Children

#### 7.3.1 Quadratic Specification

model for pfhwkid for site 15, xs/ts with hetero, xscorr  
(sum of wgt is 3.6942e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.4156)

Estimated covariances	=	216	Number of obs	=	864
Estimated autocorrelations	=	1	Number of groups	=	216
Estimated coefficients	=	21	Time periods	=	4
Log likelihood	=	-494.5093	Wald chi2(20)	=	1541.99
			Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
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ld		.0731994	.0677043	1.08	0.280	-.0594986	.2058974
ld_t		.2095984	.0601841	3.48	0.000	.0916397	.3275572
ld_t2		-.0712523	.0182243	-3.91	0.000	-.1069713	-.0355333
ldcos		.2277917	.043712	5.21	0.000	.1421177	.3134656
ldsin		.0144195	.0349825	0.41	0.680	-.054145	.082984
y1980		.5187426	.1345662	3.85	0.000	.2549978	.7824875
y1990		.8922971	.238136	3.75	0.000	.4255591	1.359035
y2000		2.034409	.3420623	5.95	0.000	1.363979	2.704839
ldap		.1533286	.0789479	1.94	0.052	-.0014064	.3080636
ldap_t		-.2126901	.0347782	-6.12	0.000	-.2808541	-.1445261
ldcl		-1.675599	.1612885	-10.39	0.000	-1.991719	-1.35948
ldcl_t		-.1253152	.0508491	-2.46	0.014	-.2249777	-.0256527
ldrd		-.0976195	.0246775	-3.96	0.000	-.1459865	-.0492525
ldrd_t		.0073659	.0121363	0.61	0.544	-.0164208	.0311525
ldrt		-.0302417	.0559619	-0.54	0.589	-.1399251	.0794416
ldrt_t		.1058832	.0225363	4.70	0.000	.0617129	.1500535
ldrr		-.0267663	.026535	-1.01	0.313	-.0787741	.0252414
ldrr_t		.0024818	.0128032	0.19	0.846	-.022612	.0275756
ldtt		.3055172	.107752	2.84	0.005	.094327	.5167073
ldtt_t		.0428838	.0473325	0.91	0.365	-.0498862	.1356537
_cons		-.2349688	.4752699	-0.49	0.621	-1.166481	.6965432

## Appendix C-4

### Detailed Regression Results for Households Without Children

#### 1 Sayerville Landfill (NJ)

##### 1.1 Married Couples Without Children

###### 1.1.1 Quadratic Specification

model for pmcnkid for site 4, xs/ts with hetero, xscorr  
(sum of wgt is 1.4218e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (0.4008)

Estimated covariances	=	93	Number of obs	=	372
Estimated autocorrelations	=	1	Number of groups	=	93
Estimated coefficients	=	19	Time periods	=	4
			Wald chi2(18)	=	583.70
Log likelihood	=	105.2393	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.0533881	.0475179	-1.12	0.261	-.1465214	.0397452
ld_t	-.1429796	.0468201	-3.05	0.002	-.2347453	-.0512139
ld_t2	.0507911	.0135458	3.75	0.000	.0242419	.0773404
ldcos	.0959606	.0164653	5.83	0.000	.0636893	.1282319
ldsin	.0947652	.0179942	5.27	0.000	.0594973	.1300332
y1980	.2487118	.0675845	3.68	0.000	.1162485	.3811751
y1990	.1470802	.0994324	1.48	0.139	-.0478036	.3419641
y2000	-.4020936	.1242194	-3.24	0.001	-.6455591	-.158628
ldc1	.0840624	.0580436	1.45	0.148	-.0297009	.1978257
ldc1_t	.0600768	.0235981	2.55	0.011	.0138254	.1063283
ldrdr	-.0365775	.0208905	-1.75	0.080	-.0775221	.0043671
ldrdr_t	.0436047	.0093438	4.67	0.000	.0252912	.0619182
ldrdr_t	.0330525	.0319599	1.03	0.301	-.0295878	.0956928
ldrdr_t	-.0222705	.0140019	-1.59	0.112	-.0497138	.0051728
ldrdr	-.0484634	.0182224	-2.66	0.008	-.0841786	-.0127482
ldrdr_t	.0226142	.0079784	2.83	0.005	.0069769	.0382515
ldtt	.0471352	.0715835	0.66	0.510	-.093166	.1874364
ldtt_t	.0569856	.0275102	2.07	0.038	.0030666	.1109047
_cons	-1.298245	.1273844	-10.19	0.000	-1.547914	-1.048577

## 1.2 Male-Headed Households Without Children

### 1.2.1 Quadratic Specification

model for pmhnrkid for site 4, xs/ts with hetero, xscorr  
(sum of wgt is 1.4218e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.2020)

Estimated covariances	=	93	Number of obs	=	372
Estimated autocorrelations	=	1	Number of groups	=	93
Estimated coefficients	=	19	Time periods	=	4
Log likelihood	=	-227.9536	Wald chi2(18)	=	1670.73
			Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.4040437	.1221924	-3.31	0.001	-.6435365	-.1645509
ld_t	.0392327	.1247682	0.31	0.753	-.2053085	.2837739
ld_t2	.0135236	.0358896	0.38	0.706	-.0568188	.0838659
ldcos	-.0599027	.0298315	-2.01	0.045	-.1183713	-.0014341
ldsin	.0538535	.0319427	1.69	0.092	-.008753	.11646
y1980	-.0078799	.195754	-0.04	0.968	-.3915508	.3757909
y1990	.214319	.2782083	0.77	0.441	-.3309594	.7595973
y2000	.5054965	.3328474	1.52	0.129	-.1468723	1.157865
ldcl	-.4185486	.094403	-4.43	0.000	-.6035751	-.233522
ldcl_t	-.0215023	.0422174	-0.51	0.611	-.1042468	.0612423
ldrd	-.1443346	.0484148	-2.98	0.003	-.2392259	-.0494433
ldrd_t	.0209779	.0222723	0.94	0.346	-.0226749	.0646308
ldrt	.2117749	.1042941	2.03	0.042	.0073623	.4161876
ldrt_t	-.0463439	.0496552	-0.93	0.351	-.1436663	.0509784
ldrr	-.1836638	.0350799	-5.24	0.000	-.2524192	-.1149085
ldrr_t	.0518615	.0153837	3.37	0.001	.02171	.0820131
ldtt	.288463	.1113676	2.59	0.010	.0701865	.5067394
ldtt_t	-.0038654	.0525491	-0.07	0.941	-.1068597	.0991288
_cons	-3.607414	.2620283	-13.77	0.000	-4.12098	-3.093848

### 1.2.2 Linear Specification

model for pmhnrkid for site 4, xs/ts with hetero, xscorr  
(sum of wgt is 1.4218e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.2022)

Estimated covariances	=	93	Number of obs	=	372
Estimated autocorrelations	=	1	Number of groups	=	93
Estimated coefficients	=	18	Time periods	=	4





ldcl_t		-.0427005	.0390505	-1.09	0.274	-.119238	.033837
ldrdr		-.1083019	.0383086	-2.83	0.005	-.1833854	-.0332184
ldrdr_t		.0208318	.0185826	1.12	0.262	-.0155895	.0572531
ldrt		.1986849	.0469885	4.23	0.000	.1065892	.2907806
ldrt_t		-.082819	.0235901	-3.51	0.000	-.1290547	-.0365832
ldrr		-.081752	.0249456	-3.28	0.001	-.1306445	-.0328595
ldrr_t		.0406701	.0121135	3.36	0.001	.0169281	.0644121
ldtt		.1257209	.0849361	1.48	0.139	-.0407507	.2921926
ldtt_t		.0721476	.0395606	1.82	0.068	-.0053897	.1496849
_cons		-2.782962	.1730475	-16.08	0.000	-3.122129	-2.443795

### 1.3.2 Linear Specification

model for pfnhkid for site 4, xs/ts with hetero, xscorr  
(sum of wgt is 1.4218e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (0.1800)

Estimated covariances	=	93	Number of obs	=	372
Estimated autocorrelations	=	1	Number of groups	=	93
Estimated coefficients	=	18	Time periods	=	4
Log likelihood	=	-114.4684	Wald chi2(17)	=	723.64
			Prob > chi2	=	0.0000

depvar		Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld		-.4392363	.055614	-7.90	0.000	-.5482378 - .3302349
ld_t		.1200247	.0276289	4.34	0.000	.065873 .1741764
ldcos		-.133362	.02112	-6.31	0.000	-.1747564 -.0919675
ldsin		.1360527	.0237583	5.73	0.000	.0894872 .1826181
y1980		.2770087	.0704958	3.93	0.000	.1388394 .4151779
y1990		.5146633	.1288341	3.99	0.000	.2621531 .7671736
y2000		.4262388	.1887857	2.26	0.024	.0562256 .796252
ldcl		-.3948268	.0820345	-4.81	0.000	-.5556115 -.2340421
ldcl_t		-.0426265	.0390945	-1.09	0.276	-.1192503 .0339973
ldrdr		-.106282	.0375598	-2.83	0.005	-.1798978 -.0326662
ldrdr_t		.0198694	.0183714	1.08	0.279	-.0161379 .0558768
ldrt		.2008405	.0495489	4.05	0.000	.1037264 .2979547
ldrt_t		-.0853582	.0250712	-3.40	0.001	-.1344969 -.0362195
ldrr		-.0816964	.0242996	-3.36	0.001	-.1293227 -.0340702
ldrr_t		.0417204	.0118768	3.51	0.000	.0184423 .0649986
ldtt		.123781	.0841301	1.47	0.141	-.0411109 .288673
ldtt_t		.0728303	.0393492	1.85	0.064	-.0042927 .1499532
_cons		-2.686634	.1582438	-16.98	0.000	-2.996786 -2.376482

## 1.4 Non-Family Households Without Children

### 1.4.1 Quadratic Specification

model for pnonfam for site 4, xs/ts with hetero, xscorr

(sum of wgt is 1.4218e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (0.6143)

Estimated covariances	=	93	Number of obs	=	372
Estimated autocorrelations	=	1	Number of groups	=	93
Estimated coefficients	=	19	Time periods	=	4
			Wald chi2(18)	=	1786.75
Log likelihood	=	-43.62908	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.116237	.0553115	-2.10	0.036	-.2246456	-.0078285
ld_t	.0906274	.0463608	1.95	0.051	-.0002381	.1814929
ld_t2	-.034856	.0132547	-2.63	0.009	-.0608347	-.0088772
ldcos	-.2137802	.0312876	-6.83	0.000	-.2751027	-.1524577
ldsin	-.0955842	.0353721	-2.70	0.007	-.1649124	-.0262561
y1980	.3915728	.0764981	5.12	0.000	.2416393	.5415064
y1990	.5707858	.1245687	4.58	0.000	.3266357	.8149359
y2000	.7911681	.1689484	4.68	0.000	.4600354	1.122301
ldc1	-.2536711	.0868493	-2.92	0.003	-.4238926	-.0834496
ldc1_t	.121196	.030511	3.97	0.000	.0613956	.1809964
ldrd	-.130199	.0398778	-3.26	0.001	-.2083581	-.0520398
ldrd_t	.0142002	.0155255	0.91	0.360	-.0162292	.0446296
ldrt	.1015701	.0670799	1.51	0.130	-.0299041	.2330444
ldrt_t	.0191645	.0275159	0.70	0.486	-.0347657	.0730947
ldrr	-.1399276	.029363	-4.77	0.000	-.197478	-.0823773
ldrr_t	.0434156	.0117451	3.70	0.000	.0203956	.0664356
ldtt	-.6616912	.105537	-6.27	0.000	-.8685399	-.4548425
ldtt_t	-.0441881	.0348196	-1.27	0.204	-.1124333	.0240571
_cons	-.4517709	.2127487	-2.12	0.034	-.8687508	-.0347911

## 2 Cinnaminson Landfill (NJ)

### 2.1 Married Couples Without Children

#### 2.1.1 Quadratic Specification

model for pmcnkid for site 5, xs/ts with hetero, xscorr  
(sum of wgt is 3.1536e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.5002)

Estimated covariances	=	177	Number of obs	=	708
Estimated autocorrelations	=	1	Number of groups	=	177
Estimated coefficients	=	23	Time periods	=	4
Log likelihood	=	146.9916	Wald chi2(22)	=	1558.26
			Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	.0764901	.0458072	1.67	0.095	-.0132903	.1662705
ld_t	-.1635147	.0463996	-3.52	0.000	-.2544561	-.0725732
ld_t2	.0284691	.013938	2.04	0.041	.0011511	.0557871
ldcos	.0725483	.020891	3.47	0.001	.0316028	.1134939
ldsin	.016021	.0348651	0.46	0.646	-.0523134	.0843554
y1980	-.1229916	.0993684	-1.24	0.216	-.31775	.0717668
y1990	-.4989612	.1709824	-2.92	0.004	-.8340805	-.1638418
y2000	-1.185977	.239566	-4.95	0.000	-1.655518	-.7164367
ldap	-.1091743	.0358005	-3.05	0.002	-.179342	-.0390067
ldap_t	.0562177	.0134987	4.16	0.000	.0297607	.0826747
ldc1	.2875386	.0932431	3.08	0.002	.1047855	.4702917
ldc1_t	.2470102	.0323733	7.63	0.000	.1835596	.3104608
ldc2	-.4062596	.066683	-6.09	0.000	-.5369558	-.2755634
ldc2_t	-.0033517	.0254232	-0.13	0.895	-.0531802	.0464768
ldrd	-.0022089	.0143642	-0.15	0.878	-.0303622	.0259444
ldrd_t	.0158947	.0065212	2.44	0.015	.0031134	.0286761
ldrt	.2922546	.0369595	7.91	0.000	.2198152	.364694
ldrt_t	-.1471462	.0145367	-10.12	0.000	-.1756375	-.1186549
ldrr	-.0108848	.0139681	-0.78	0.436	-.0382618	.0164923
ldrr_t	.0327862	.0063385	5.17	0.000	.0203631	.0452094
ldtt	-.0052424	.0474025	-0.11	0.912	-.0981495	.0876648
ldtt_t	.0014171	.017904	0.08	0.937	-.033674	.0365082
_cons	-1.094757	.300184	-3.65	0.000	-1.683107	-.5064074

### 2.2 Male-Headed Households Without Children

#### 2.2.1 Quadratic Specification

model for pmhnikid for site 5, xs/ts with hetero, xscorr  
(sum of wgt is 3.1536e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.1716)

Estimated covariances	=	177	Number of obs	=	708
Estimated autocorrelations	=	1	Number of groups	=	177
Estimated coefficients	=	23	Time periods	=	4
			Wald chi2(22)	=	527.32
Log likelihood	=	-476.686	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.1834199	.095043	-1.93	0.054	-.3697007	.0028609
ld_t	.2541909	.1143649	2.22	0.026	.0300398	.4783419
ld_t2	-.0589375	.035139	-1.68	0.093	-.1278087	.0099336
ldcos	.0149514	.0321812	0.46	0.642	-.0481227	.0780255
ldsin	.1793264	.0673235	2.66	0.008	.0473749	.311278
y1980	-.3118488	.2362039	-1.32	0.187	-.7747998	.1511023
y1990	-.1126413	.4012337	-0.28	0.779	-.8990449	.6737624
y2000	.3847108	.5607039	0.69	0.493	-.7142487	1.48367
ldap	.1256726	.0579242	2.17	0.030	.0121433	.2392019
ldap_t	-.0101173	.0262345	-0.39	0.700	-.0615361	.0413015
ldc1	-.7262188	.150124	-4.84	0.000	-1.020456	-.4319812
ldc1_t	.0315271	.0695273	0.45	0.650	-.1047439	.1677981
ldc2	.2668383	.1308969	2.04	0.041	.0102851	.5233915
ldc2_t	-.0514184	.0545897	-0.94	0.346	-.1584123	.0555755
ldrdr	-.0878077	.0225018	-3.90	0.000	-.1319104	-.043705
ldrdr_t	.0260309	.0115437	2.25	0.024	.0034056	.0486562
ldrdr_t	.1069292	.0616404	1.73	0.083	-.0138838	.2277422
ldrdr_t	-.0664223	.0268289	-2.48	0.013	-.119006	-.0138385
ldrdr	-.1169571	.0286441	-4.08	0.000	-.1730986	-.0608157
ldrdr_t	.0379929	.0149002	2.55	0.011	.0087891	.0671967
ldtt	-.1228619	.1117999	-1.10	0.272	-.3419856	.0962618
ldtt_t	.0523926	.0463144	1.13	0.258	-.0383819	.1431671
_cons	-2.856498	.5477916	-5.21	0.000	-3.93015	-1.782847

## 2.2.2 Linear Specification

model for pmhkid for site 5, xs/ts with hetero, xscorr  
(sum of wgt is 3.1536e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.1675)

Estimated covariances	=	177	Number of obs	=	708
Estimated autocorrelations	=	1	Number of groups	=	177
Estimated coefficients	=	22	Time periods	=	4
			Wald chi2(21)	=	525.61
Log likelihood	=	-474.2047	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.1428463	.0849977	-1.68	0.093	-.3094388	.0237462
ld_t	.0736354	.0423259	1.74	0.082	-.0093219	.1565926
ldcos	.0152953	.0309829	0.49	0.622	-.0454302	.0760207
ldsin	.1711232	.0658071	2.60	0.009	.0421436	.3001027
y1980	-.0691927	.1858486	-0.37	0.710	-.4334493	.2950639
y1990	.1357189	.368122	0.37	0.712	-.5857871	.8572248
y2000	.4057659	.5514374	0.74	0.462	-.6750315	1.486563
ldap	.128714	.0579515	2.22	0.026	.0151311	.242297
ldap_t	-.0102447	.026249	-0.39	0.696	-.0616919	.0412024
ldc1	-.7299293	.1472296	-4.96	0.000	-1.018494	-.4413646
ldc1_t	.0282913	.0688707	0.41	0.681	-.1066928	.1632754
ldc2	.2796411	.1304962	2.14	0.032	.0238733	.5354089
ldc2_t	-.0485919	.0539682	-0.90	0.368	-.1543676	.0571839
ldr	-.0814675	.0228135	-3.57	0.000	-.1261811	-.0367539
ldr_t	.0256246	.0117267	2.19	0.029	.0026407	.0486085
ldrt	.1004934	.0618997	1.62	0.104	-.0208277	.2218145
ldrt_t	-.0652855	.0269832	-2.42	0.016	-.1181716	-.0123993
ldrr	-.120773	.0279612	-4.32	0.000	-.1755759	-.0659701
ldrr_t	.0393037	.0145459	2.70	0.007	.0107943	.0678131
ldtt	-.1106788	.1096583	-1.01	0.313	-.3256052	.1042476
ldtt_t	.052461	.0457733	1.15	0.252	-.0372529	.1421749
_cons	-2.966286	.5221374	-5.68	0.000	-3.989656	-1.942915

## 2.3 Female-Headed Households Without Children

### 2.3.1 Quadratic Specification

model for pfhnkid for site 5, xs/ts with hetero, xscorr  
(sum of wgt is 3.1536e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.2731)

Estimated covariances	=	177	Number of obs	=	708
Estimated autocorrelations	=	1	Number of groups	=	177
Estimated coefficients	=	23	Time periods	=	4
			Wald chi2(22)	=	1377.06
Log likelihood	=	-140.4165	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.096994	.0626227	-1.55	0.121	-.2197321	.0257442
ld_t	-.1610836	.0732549	-2.20	0.028	-.3046605	-.0175066
ld_t2	.0523271	.0225339	2.32	0.020	.0081615	.0964927
ldcos	.1106308	.0256006	4.32	0.000	.0604546	.1608069
ldsin	.0627298	.0471335	1.33	0.183	-.0296502	.1551098
y1980	.2695881	.1582066	1.70	0.088	-.0404911	.5796673
y1990	.3287491	.2732032	1.20	0.229	-.2067194	.8642177
y2000	-.0569359	.38595	-0.15	0.883	-.813384	.6995122

ldap		-.0036222	.0408769	-0.09	0.929	-.0837394	.076495
ldap_t		.0469782	.0186791	2.52	0.012	.0103678	.0835886
ldc1		-.7499388	.1220082	-6.15	0.000	-.9890706	-.510807
ldc1_t		.060465	.0519859	1.16	0.245	-.0414255	.1623556
ldc2		-.0403491	.0872507	-0.46	0.644	-.2113573	.1306591
ldc2_t		.0984684	.0363672	2.71	0.007	.0271901	.1697468
ldrdr		.0030072	.019647	0.15	0.878	-.0355002	.0415146
ldrdr_t		.0141716	.0099567	1.42	0.155	-.0053431	.0336863
ldrtr		.345957	.0482475	7.17	0.000	.2513936	.4405204
ldrtr_t		-.1750302	.0207845	-8.42	0.000	-.2157672	-.1342933
ldrtrr		-.1321351	.0200869	-6.58	0.000	-.1715046	-.0927655
ldrtrr_t		.0577595	.0102053	5.66	0.000	.0377575	.0777615
ldtt		.0737135	.0833493	0.88	0.376	-.0896482	.2370752
ldtt_t		.0518963	.0368356	1.41	0.159	-.0203002	.1240927
_cons		-1.843591	.3892169	-4.74	0.000	-2.606442	-1.08074

## 2.4 Non-Family Households Without Children

### 2.4.1 Quadratic Specification

model for pnonfam for site 5, xs/ts with hetero, xscorr  
(sum of wgt is 3.1536e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (0.5675)

Estimated covariances	=	177	Number of obs	=	708
Estimated autocorrelations	=	1	Number of groups	=	177
Estimated coefficients	=	23	Time periods	=	4
			Wald chi2(22)	=	3780.90
Log likelihood	=	-44.14132	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld	-.2544377	.057286	-4.44	0.000	-.3667161 -.1421592
ld_t	.2239983	.0529502	4.23	0.000	.1202177 .3277788
ld_t2	-.0579126	.0159217	-3.64	0.000	-.0891186 -.0267066
ldcos	.3028004	.0279804	10.82	0.000	.2479599 .3576409
ldsin	-.0373131	.0559399	-0.67	0.505	-.1469532 .072327
y1980	-.2107712	.1281519	-1.64	0.100	-.4619442 .0404018
y1990	-.587735	.2335374	-2.52	0.012	-1.04546 -.1300101
y2000	-.8418422	.3387517	-2.49	0.013	-1.505783 -.177901
ldap	.0608604	.0446991	1.36	0.173	-.0267482 .148469
ldap_t	-.0259156	.0162105	-1.60	0.110	-.0576876 .0058563
ldc1	-.2652796	.1304	-2.03	0.042	-.5208589 -.0097003
ldc1_t	.367022	.0480427	7.64	0.000	.2728601 .4611839
ldc2	.2482698	.1015009	2.45	0.014	.0493317 .4472078
ldc2_t	-.1448257	.035378	-4.09	0.000	-.2141652 -.0754862
ldrdr	-.0998396	.0202515	-4.93	0.000	-.1395319 -.0601473
ldrdr_t	.0266963	.0088308	3.02	0.003	.0093883 .0440043
ldrtr	-.2024839	.0607831	-3.33	0.001	-.3216165 -.0833513
ldrtr_t	.0245129	.0221617	1.11	0.269	-.0189232 .067949

ldrr		-.2290307	.0216949	-10.56	0.000	-.2715519	-.1865094
ldrr_t		.0599196	.0096037	6.24	0.000	.0410966	.0787425
ldtt		.0906697	.0945969	0.96	0.338	-.0947369	.2760762
ldtt_t		.0017606	.0349091	0.05	0.960	-.06666	.0701812
_cons		-1.749026	.435993	-4.01	0.000	-2.603557	-.8944958

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### 3 Bethpage Landfill (NY)

#### 3.1 Married Couples Without Children

##### 3.1.1 Quadratic Specification

model for pmcnkid for site 6, xs/ts with hetero, xscorr  
(sum of wgt is 2.9014e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.3636)

Estimated covariances	=	147	Number of obs	=	588
Estimated autocorrelations	=	1	Number of groups	=	147
Estimated coefficients	=	21	Time periods	=	4
Log likelihood	=	198.9131	Wald chi2(20)	=	3041.50
			Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	.1739556	.038488	4.52	0.000	.0985204	.2493908
ld_t	-.3336855	.0376038	-8.87	0.000	-.4073876	-.2599835
ld_t2	.0613477	.0114271	5.37	0.000	.038951	.0837443
ldcos	.0720903	.0089541	8.05	0.000	.0545406	.0896401
ldsin	-.0159475	.0110835	-1.44	0.150	-.0376709	.0057759
y1980	.8339339	.0728193	11.45	0.000	.6912107	.9766571
y1990	1.064208	.1194471	8.91	0.000	.8300956	1.29832
y2000	.6558985	.1636682	4.01	0.000	.3351147	.9766823
ldap	-.0359822	.033014	-1.09	0.276	-.1006885	.028724
ldap_t	.0426344	.0125348	3.40	0.001	.0180668	.0672021
ldc1	.0414696	.0195508	2.12	0.034	.0031507	.0797885
ldc1_t	.0419944	.0080006	5.25	0.000	.0263135	.0576753
ldrd	-.0117846	.0102489	-1.15	0.250	-.031872	.0083028
ldrd_t	.0134779	.0048766	2.76	0.006	.00392	.0230359
ldrt	.0216328	.0264066	0.82	0.413	-.0301232	.0733888
ldrt_t	-.0127498	.0124445	-1.02	0.306	-.0371405	.0116409
ldrr	-.0516753	.0145761	-3.55	0.000	-.0802439	-.0231068
ldrr_t	.0583591	.0069587	8.39	0.000	.0447202	.0719979
ldtt	.0239988	.046896	0.51	0.609	-.0679157	.1159133
ldtt_t	.0414368	.0205026	2.02	0.043	.0012525	.0816212
_cons	-1.540072	.1201652	-12.82	0.000	-1.775592	-1.304553

#### 3.2 Male-Headed Households Without Children

##### 3.2.1 Quadratic Specification

model for pmhnikid for site 6, xs/ts with hetero, xscorr  
(sum of wgt is 2.9014e+06)

Cross-sectional time-series FGLS regression



Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.1682)

Estimated covariances	=	147	Number of obs	=	588
Estimated autocorrelations	=	1	Number of groups	=	147
Estimated coefficients	=	21	Time periods	=	4
Log likelihood	=	-448.6655	Wald chi2(20)	=	560.57
			Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	.1948934	.0808831	2.41	0.016	.0363654	.3534213
ld_t	-.1193209	.1045094	-1.14	0.254	-.3241555	.0855137
ld_t2	.0365093	.0332298	1.10	0.272	-.02862	.1016386
ldcos	-.0819969	.0270332	-3.03	0.002	-.1349811	-.0290128
ldsin	-.0383203	.0298123	-1.29	0.199	-.0967514	.0201108
y1980	.2355965	.1933617	1.22	0.223	-.1433854	.6145784
y1990	.5199867	.3008064	1.73	0.084	-.069583	1.109556
y2000	.1926444	.4009181	0.48	0.631	-.5931406	.9784294
ldap	.0278092	.0452978	0.61	0.539	-.0609728	.1165912
ldap_t	-.021398	.0203198	-1.05	0.292	-.0612242	.0184281
ldc1	-.2273763	.0812616	-2.80	0.005	-.3866462	-.0681064
ldc1_t	.0049846	.026819	0.19	0.853	-.0475798	.0575489
ldrd	-.0234309	.0265579	-0.88	0.378	-.0754834	.0286216
ldrd_t	.0065247	.0138233	0.47	0.637	-.0205684	.0336179
ldrt	.0451633	.0634151	0.71	0.476	-.0791281	.1694547
ldrt_t	.0069283	.0319381	0.22	0.828	-.0556692	.0695258
ldrr	-.1913639	.0228569	-8.37	0.000	-.2361625	-.1465653
ldrr_t	.0399459	.0109985	3.63	0.000	.0183892	.0615026
ldtt	-.2601394	.1107389	-2.35	0.019	-.4771837	-.0430952
ldtt_t	.117861	.0469861	2.51	0.012	.0257699	.209952
_cons	-4.053111	.2930424	-13.83	0.000	-4.627464	-3.478758

### 3.2.2 Linear Specification

model for pmhnikid for site 6, xs/ts with hetero, xscorr  
(sum of wgt is 2.9014e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.1683)

Estimated covariances	=	147	Number of obs	=	588
Estimated autocorrelations	=	1	Number of groups	=	147
Estimated coefficients	=	20	Time periods	=	4
Log likelihood	=	-449.233	Wald chi2(19)	=	559.57
			Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	.1678978	.0768258	2.19	0.029	.0173219	.3184736

ld_t	-.0135138	.0407191	-0.33	0.740	-.0933218	.0662942
ldcos	-.0818207	.0270301	-3.03	0.002	-.1347988	-.0288427
ldsin	-.0385101	.0297992	-1.29	0.196	-.0969156	.0198953
y1980	.0876744	.1388419	0.63	0.528	-.1844507	.3597994
y1990	.37246	.2692224	1.38	0.167	-.1552063	.9001263
y2000	.1951939	.4007122	0.49	0.626	-.5901876	.9805753
ldap	.0254051	.0450821	0.56	0.573	-.0629543	.1137644
ldap_t	-.0198865	.0202043	-0.98	0.325	-.0594862	.0197132
ldc1	-.2281578	.0812382	-2.81	0.005	-.3873818	-.0689338
ldc1_t	.0058272	.0267917	0.22	0.828	-.0466835	.058338
ldrdr	-.023166	.0265609	-0.87	0.383	-.0752245	.0288925
ldrdr_t	.0063589	.0138244	0.46	0.646	-.0207365	.0334543
ldrt	.045349	.0634172	0.72	0.475	-.0789465	.1696445
ldrt_t	.0067984	.0319392	0.21	0.831	-.0558014	.0693982
ldrr	-.1914532	.0228439	-8.38	0.000	-.2362264	-.1466801
ldrr_t	.0399887	.0109904	3.64	0.000	.0184478	.0615295
ldtt	-.2625149	.1106972	-2.37	0.018	-.4794775	-.0455524
ldtt_t	.119029	.0469571	2.53	0.011	.0269948	.2110631
_cons	-3.98743	.2868884	-13.90	0.000	-4.549721	-3.425139

### 3.3 Female-Headed Households Without Children

#### 3.3.1 Quadratic Specification

model for pfhknid for site 6, xs/ts with hetero, xscorr  
(sum of wgt is 2.9014e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (0.2068)

Estimated covariances	=	147	Number of obs	=	588
Estimated autocorrelations	=	1	Number of groups	=	147
Estimated coefficients	=	21	Time periods	=	4
			Wald chi2(20)	=	3636.92
Log likelihood	=	-243.4113	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	.6320955	.0876554	7.21	0.000	.4602941	.803897
ld_t	-.45855	.0909069	-5.04	0.000	-.6367243	-.2803756
ld_t2	.0980275	.0274713	3.57	0.000	.0441847	.1518703
ldcos	-.0638764	.0147541	-4.33	0.000	-.0927939	-.0349589
ldsin	-.0208904	.0193194	-1.08	0.280	-.0587557	.0169749
y1980	1.051714	.1356129	7.76	0.000	.785918	1.317511
y1990	1.408877	.1860313	7.57	0.000	1.044262	1.773492
y2000	1.028443	.222515	4.62	0.000	.5923213	1.464564
ldap	-.09818	.0483126	-2.03	0.042	-.192871	-.0034891
ldap_t	.0294731	.0206934	1.42	0.154	-.0110852	.0700314
ldc1	-.3937782	.0416166	-9.46	0.000	-.4753452	-.3122112
ldc1_t	.0666891	.0175602	3.80	0.000	.0322718	.1011065
ldrdr	-.04761	.0210403	-2.26	0.024	-.0888483	-.0063718
ldrdr_t	.0203178	.0105793	1.92	0.055	-.0004172	.0410528

ldrt		-.1700927	.0378112	-4.50	0.000	-.2442014	-.0959841
ldrt_t		.0679708	.0188482	3.61	0.000	.0310291	.1049125
ldrr		-.1934722	.0281703	-6.87	0.000	-.2486849	-.1382595
ldrr_t		.0319251	.0143245	2.23	0.026	.0038496	.0600006
ldtt		-.1049352	.0711271	-1.48	0.140	-.2443417	.0344714
ldtt_t		.0531222	.027934	1.90	0.057	-.0016275	.1078719
_cons		-3.689551	.1797179	-20.53	0.000	-4.041792	-3.33731

### 3.4 Non-Family Households Without Children

#### 3.4.1 Quadratic Specification

model for pnonfam for site 6, xs/ts with hetero, xscorr  
(sum of wgt is 2.9014e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.4852)

Estimated covariances	=	147	Number of obs	=	588
Estimated autocorrelations	=	1	Number of groups	=	147
Estimated coefficients	=	21	Time periods	=	4
Log likelihood	=	-118.6024	Wald chi2(20)	=	3984.92
			Prob > chi2	=	0.0000

depvar		Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld		.7234424	.0706308	10.24	0.000	.5850085 .8618762
ld_t		-.2795527	.0676595	-4.13	0.000	-.4121628 -.1469425
ld_t2		.0373936	.02054	1.82	0.069	-.0028641 .0776513
ldcos		-.093789	.0168543	-5.56	0.000	-.1268228 -.0607553
ldsin		.0009674	.0196661	0.05	0.961	-.0375774 .0395122
y1980		1.086121	.1228037	8.84	0.000	.8454305 1.326812
y1990		1.756425	.1931779	9.09	0.000	1.377803 2.135047
y2000		2.163599	.2578611	8.39	0.000	1.658201 2.668998
ldap		-.1088165	.0278066	-3.91	0.000	-.1633163 -.0543167
ldap_t		.0295939	.0108044	2.74	0.006	.0084177 .0507701
ldc1		-.1758198	.0467309	-3.76	0.000	-.2674107 -.0842288
ldc1_t		-.0060655	.0138093	-0.44	0.660	-.0331313 .0210003
ldrd		-.0959584	.0188142	-5.10	0.000	-.1328335 -.0590833
ldrd_t		.0241292	.0087373	2.76	0.006	.0070044 .0412539
ldrt		-.0051611	.0492727	-0.10	0.917	-.1017339 .0914116
ldrt_t		-.000179	.0217441	-0.01	0.993	-.0427966 .0424386
ldrr		-.3631678	.0265839	-13.66	0.000	-.4152712 -.3110643
ldrr_t		.0652166	.0117475	5.55	0.000	.0421919 .0882413
ldtt		-.2422473	.0773583	-3.13	0.002	-.3938668 -.0906277
ldtt_t		.0273699	.0295002	0.93	0.354	-.0304495 .0851893
_cons		-3.300073	.21195	-15.57	0.000	-3.715487 -2.884658

#### 3.4.2 Linear Specification

model for pnonfam for site 6, xs/ts with hetero, xscorr

(sum of wgt is 2.9014e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (0.4860)

Estimated covariances	=	147	Number of obs	=	588
Estimated autocorrelations	=	1	Number of groups	=	147
Estimated coefficients	=	20	Time periods	=	4
			Wald chi2(19)	=	3959.32
Log likelihood	=	-119.8564	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	.6992862	.0712311	9.82	0.000	.5596758	.8388965
ld_t	-.1646899	.0322629	-5.10	0.000	-.227924	-.1014557
ldcos	-.092002	.0169135	-5.44	0.000	-.1251518	-.0588521
ldsin	.0013929	.0195416	0.07	0.943	-.0369079	.0396937
y1980	.9192058	.0875143	10.50	0.000	.747681	1.090731
y1990	1.581355	.1726473	9.16	0.000	1.242972	1.919737
y2000	2.135359	.2577746	8.28	0.000	1.63013	2.640588
ldap	-.1129749	.0285329	-3.96	0.000	-.1688984	-.0570515
ldap_t	.0309311	.0110577	2.80	0.005	.0092584	.0526039
ldcl	-.1733896	.0469053	-3.70	0.000	-.2653223	-.0814568
ldcl_t	-.0059688	.0138298	-0.43	0.666	-.0330747	.0211371
ldrdr	-.0959769	.0190075	-5.05	0.000	-.1332309	-.0587229
ldrdr_t	.0247645	.0088337	2.80	0.005	.0074507	.0420783
ldrt	-.0098888	.0492987	-0.20	0.841	-.1065125	.0867349
ldrt_t	.0008022	.0217328	0.04	0.971	-.0417932	.0433976
ldrr	-.3607044	.0266909	-13.51	0.000	-.4130176	-.3083911
ldrr_t	.064526	.011776	5.48	0.000	.0414455	.0876065
ldtt	-.2412849	.0772189	-3.12	0.002	-.3926312	-.0899385
ldtt_t	.0274875	.0295302	0.93	0.352	-.0303906	.0853656
_cons	-3.2415	.2099117	-15.44	0.000	-3.65292	-2.830081

## 4 CTS Printex Inc. (CA)

### 4.1 Married Couples Without Children

#### 4.1.1 Quadratic Specification

model for pmcnkid for site 9, xs/ts with hetero, xscorr  
(sum of wgt is 1.6852e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.4654)

Estimated covariances	=	104	Number of obs	=	416
Estimated autocorrelations	=	1	Number of groups	=	104
Estimated coefficients	=	23	Time periods	=	4
Log likelihood	=	5.169177	Wald chi2(22)	=	308.28
			Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld	.0249539	.1461741	0.17	0.864	-.2615421 .3114498
ld_t	.2285707	.0782586	2.92	0.003	.0751867 .3819548
ld_t2	-.0484025	.016089	-3.01	0.003	-.0799365 -.0168686
ldcos	.0945197	.0665269	1.42	0.155	-.0358706 .22491
ldsin	-.3087582	.0616484	-5.01	0.000	-.429587 -.1879295
y1980	-2.63872	1.212895	-2.18	0.030	-5.01595 -.2614906
y1990	-5.135244	2.422792	-2.12	0.034	-9.883829 -.386659
y2000	-7.617707	3.631969	-2.10	0.036	-14.73624 -.4991789
ldap	.1680125	.146027	1.15	0.250	-.1181951 .4542201
ldap_t	-.0407143	.0533781	-0.76	0.446	-.1453334 .0639048
ldc1	-.1027128	.3198761	-0.32	0.748	-.7296584 .5242329
ldc1_t	.235364	.1321209	1.78	0.075	-.0235882 .4943162
ldc2	-2.606106	1.089572	-2.39	0.017	-4.741628 -.4705851
ldc2_t	.5137429	.2312117	2.22	0.026	.0605763 .9669095
ldrd	-.0076517	.0219681	-0.35	0.728	-.0507083 .035405
ldrd_t	.0106394	.0095874	1.11	0.267	-.0081515 .0294303
ldrt	.2881207	.0976961	2.95	0.003	.0966398 .4796017
ldrt_t	-.0803893	.036682	-2.19	0.028	-.1522847 -.0084939
ldrr	.100548	.0333483	3.02	0.003	.0351866 .1659094
ldrr_t	.0376114	.0147132	2.56	0.011	.008774 .0664488
ldtt	-.0307144	.0784032	-0.39	0.695	-.1843819 .122953
ldtt_t	-.0546988	.032929	-1.66	0.097	-.1192384 .0098408
_cons	8.529475	4.789787	1.78	0.075	-.8583343 17.91728

### 4.2 Male-Headed Households Without Children

#### 4.2.1 Quadratic Specification

model for pmhnikid for site 9, xs/ts with hetero, xscorr  
(sum of wgt is 1.6852e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
 Panels: heteroskedastic  
 Correlation: common AR(1) coefficient for all panels (0.1614)

Estimated covariances	=	104	Number of obs	=	416
Estimated autocorrelations	=	1	Number of groups	=	104
Estimated coefficients	=	23	Time periods	=	4
Log likelihood	=	-379.7997	Wald chi2(22)	=	377.63
			Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-1.145322	.2179054	-5.26	0.000	-1.572409	-.7182357
ld_t	.5833407	.1442518	4.04	0.000	.3006124	.8660689
ld_t2	-.0728183	.0322697	-2.26	0.024	-.1360658	-.0095709
ldcos	.2649787	.1132898	2.34	0.019	.0429347	.4870226
ldsin	-.0089378	.1413617	-0.06	0.950	-.2860017	.2681261
y1980	4.149255	3.086773	1.34	0.179	-1.90071	10.19922
y1990	8.402502	6.169376	1.36	0.173	-3.689252	20.49426
y2000	12.77806	9.251604	1.38	0.167	-5.35475	30.91087
ldap	.7614514	.1609791	4.73	0.000	.4459382	1.076965
ldap_t	-.3054335	.0741617	-4.12	0.000	-.4507878	-.1600792
ldc1	-2.216418	.6013807	-3.69	0.000	-3.395102	-1.037733
ldc1_t	.5716673	.236514	2.42	0.016	.1081084	1.035226
ldc2	-1.687651	2.417859	-0.70	0.485	-6.426568	3.051266
ldc2_t	-1.100022	.6438544	-1.71	0.088	-2.361953	.1619095
ldrd	-.0061504	.0402633	-0.15	0.879	-.085065	.0727643
ldrd_t	.025241	.0196429	1.28	0.199	-.0132584	.0637404
ldrt	1.05356	.2414305	4.36	0.000	.5803645	1.526755
ldrt_t	-.5360255	.1161845	-4.61	0.000	-.7637429	-.3083081
ldrr	-.1682264	.0617291	-2.73	0.006	-.2892132	-.0472396
ldrr_t	.02551	.0296822	0.86	0.390	-.032666	.083686
ldtt	.5611514	.1975024	2.84	0.004	.1740538	.9482491
ldtt_t	-.2037847	.0951527	-2.14	0.032	-.3902806	-.0172887
_cons	5.95782	10.71441	0.56	0.578	-15.04204	26.95768

### 4.3 Female-Headed Households Without Children

#### 4.3.1 Quadratic Specification

model for pfhnkid for site 9, xs/ts with hetero, xscorr  
 (sum of wgt is 1.6852e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
 Panels: heteroskedastic  
 Correlation: common AR(1) coefficient for all panels (0.1748)

Estimated covariances	=	104	Number of obs	=	416
Estimated autocorrelations	=	1	Number of groups	=	104
Estimated coefficients	=	23	Time periods	=	4
			Wald chi2(22)	=	313.80

Log likelihood = -214.978 Prob > chi2 = 0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.1981576	.1956748	-1.01	0.311	-.5816733	.185358
ld_t	-.0159385	.1249331	-0.13	0.898	-.260803	.2289259
ld_t2	.0307231	.0269504	1.14	0.254	-.0220986	.0835448
ldcos	.2164735	.0799936	2.71	0.007	.059689	.373258
ldsin	-.1333759	.0859569	-1.55	0.121	-.3018484	.0350966
y1980	3.207144	2.294578	1.40	0.162	-1.290146	7.704435
y1990	6.132982	4.585329	1.34	0.181	-2.854097	15.12006
y2000	8.711703	6.875627	1.27	0.205	-4.764278	22.18768
ldap	.497222	.1473531	3.37	0.001	.2084151	.7860288
ldap_t	-.1895479	.0656678	-2.89	0.004	-.3182545	-.0608413
ldc1	-.6874497	.4946335	-1.39	0.165	-1.656914	.2820141
ldc1_t	-.0188502	.2079964	-0.09	0.928	-.4265156	.3888153
ldc2	-3.821087	1.505187	-2.54	0.011	-6.771199	-.8709753
ldc2_t	-.531699	.449951	-1.18	0.237	-1.413587	.3501886
ldrdr	-.0746757	.0295913	-2.52	0.012	-.1326735	-.0166779
ldrdr_t	.0470689	.0144055	3.27	0.001	.0188347	.0753031
ldrt	.2680039	.1307228	2.05	0.040	.0117919	.5242158
ldrt_t	-.1614723	.0617493	-2.61	0.009	-.2824988	-.0404459
ldrr	-.0902891	.0431892	-2.09	0.037	-.1749383	-.0056398
ldrr_t	.0288612	.0206137	1.40	0.161	-.011541	.0692634
ldtt	-.0199332	.1103192	-0.18	0.857	-.2361548	.1962884
ldtt_t	-.0086386	.0521316	-0.17	0.868	-.1108147	.0935375
_cons	12.0241	6.909323	1.74	0.082	-1.51792	25.56613

### 4.3.2 Linear Specification

model for pfnhkid for site 9, xs/ts with hetero, xscorr  
(sum of wgt is 1.6852e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (0.1785)

Estimated covariances	=	104	Number of obs	=	416
Estimated autocorrelations	=	1	Number of groups	=	104
Estimated coefficients	=	22	Time periods	=	4
			Wald chi2(21)	=	313.71
Log likelihood	=	-215.3621	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.2389412	.1944712	-1.23	0.219	-.6200978	.1422154
ld_t	.0800725	.0929525	0.86	0.389	-.1021111	.262256
ldcos	.2198926	.0798023	2.76	0.006	.063483	.3763023
ldsin	-.1365061	.0870262	-1.57	0.117	-.3070743	.0340622
y1980	3.082107	2.299004	1.34	0.180	-1.423859	7.588073
y1990	5.997529	4.598107	1.30	0.192	-3.014595	15.00965

y2000		8.673546	6.897375	1.26	0.209	-4.845062	22.19215
ldap		.4988611	.1487972	3.35	0.001	.2072239	.7904983
ldap_t		-.1887727	.0662696	-2.85	0.004	-.3186587	-.0588866
ldc1		-.6824721	.4935746	-1.38	0.167	-1.64986	.2849164
ldc1_t		-.0212061	.2075186	-0.10	0.919	-.4279351	.3855228
ldc2		-3.874173	1.523001	-2.54	0.011	-6.859201	-.8891445
ldc2_t		-.5289526	.4519252	-1.17	0.242	-1.41471	.3568046
ldrdr		-.0733769	.0295376	-2.48	0.013	-.1312696	-.0154842
ldrdr_t		.0466368	.0143656	3.25	0.001	.0184807	.0747929
ldrtr		.2658317	.1294729	2.05	0.040	.0120695	.5195939
ldrtr_t		-.1602156	.0611595	-2.62	0.009	-.280086	-.0403452
ldrtrr		-.0889511	.0437944	-2.03	0.042	-.1747865	-.0031156
ldrtrr_t		.0283294	.0208977	1.36	0.175	-.0126294	.0692882
ldtrr		-.0178009	.1099026	-0.16	0.871	-.233206	.1976042
ldtrr_t		-.0104838	.0518813	-0.20	0.840	-.1121693	.0912017
_cons		12.293	6.979433	1.76	0.078	-1.386442	25.97243

## 4.4 Non-Family Households Without Children

### 4.4.1 Quadratic Specification

model for pnonfam for site 9, xs/ts with hetero, xscorr  
(sum of wgt is 1.6852e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (0.6730)

Estimated covariances	=	104	Number of obs	=	416
Estimated autocorrelations	=	1	Number of groups	=	104
Estimated coefficients	=	23	Time periods	=	4
Log likelihood	=	-107.1147	Wald chi2(22)	=	1153.72
			Prob > chi2	=	0.0000

depvar		Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld		-.7440408	.1706459	-4.36	0.000	-1.078501 - .409581
ld_t		.3357718	.0785485	4.27	0.000	.1818196 .4897241
ld_t2		-.0513992	.016274	-3.16	0.002	-.0832956 -.0195028
ldcos		-.2303411	.1082151	-2.13	0.033	-.4424389 -.0182433
ldsin		-.117086	.0997164	-1.17	0.240	-.3125266 .0783547
y1980		-2.342252	1.684037	-1.39	0.164	-5.642904 .958399
y1990		-5.007755	3.3663	-1.49	0.137	-11.60558 1.590071
y2000		-7.645435	5.048235	-1.51	0.130	-17.53979 2.248925
ldap		.0170182	.1986513	0.09	0.932	-.3723311 .4063675
ldap_t		-.1072756	.0610292	-1.76	0.079	-.2268906 .0123395
ldc1		-1.49649	.552624	-2.71	0.007	-2.579613 -.4133671
ldc1_t		.142027	.1735916	0.82	0.413	-.1982062 .4822603
ldc2		-3.078566	1.783528	-1.73	0.084	-6.574216 .4170848
ldc2_t		.6195262	.3273534	1.89	0.058	-.0220748 1.261127
ldrdr		-.0284777	.0338601	-0.84	0.400	-.0948422 .0378869
ldrdr_t		-.0208627	.0126942	-1.64	0.100	-.0457429 .0040176
ldrtr		.2013145	.1310428	1.54	0.124	-.0555247 .4581537



ldrt_t		-.049266	.04537	-1.09	0.278	-.1381895	.0396575
ldrr		-.2616704	.0432364	-6.05	0.000	-.3464122	-.1769285
ldrr_t		.031255	.0159598	1.96	0.050	-.0000257	.0625356
ldtt		.2383373	.0910115	2.62	0.009	.0599581	.4167165
ldtt_t		-.0748348	.0317239	-2.36	0.018	-.1370125	-.0126571
_cons		15.40234	8.008023	1.92	0.054	-.2930924	31.09778

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## 5 Montrose Chemical (CA)

### 5.1 Married Couples Without Children

#### 5.1.1 Quadratic Specification

model for pmcnkid for site 10, xs/ts with hetero, xscorr  
(sum of wgt is 4.6880e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (-0.1287)

Estimated covariances	=	271	Number of obs	=	1084
Estimated autocorrelations	=	1	Number of groups	=	271
Estimated coefficients	=	21	Time periods	=	4
			Wald chi2(20)	=	1406.85
Log likelihood	=	-2057.996	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-1.35219	.2514408	-5.38	0.000	-1.845005	-.8593754
ld_t	-.1707987	.3287075	-0.52	0.603	-.8150536	.4734562
ld_t2	.1131165	.1006571	1.12	0.261	-.0841679	.3104009
ldcos	-.0694048	.0481898	-1.44	0.150	-.1638552	.0250455
ldsin	-1.2025	.10998	-10.93	0.000	-1.418057	-.9869432
y1980	2.153692	.7885979	2.73	0.006	.6080687	3.699316
y1990	-1.787073	1.370069	-1.30	0.192	-4.472358	.8982127
y2000	-3.743422	1.938482	-1.93	0.053	-7.542777	.0559327
ldap	.391592	.1321281	2.96	0.003	.1326258	.6505582
ldap_t	-.0413562	.0695781	-0.59	0.552	-.1777267	.0950143
ldc1	-8.294121	.606818	-13.67	0.000	-9.483463	-7.10478
ldc1_t	.4458514	.1463307	3.05	0.002	.1590486	.7326542
ldrd	-.1009043	.0818738	-1.23	0.218	-.2613741	.0595654
ldrd_t	-.0001415	.0430489	-0.00	0.997	-.0845158	.0842328
ldrt	.6950048	.2392087	2.91	0.004	.2261642	1.163845
ldrt_t	-.2579916	.1264038	-2.04	0.041	-.5057386	-.0102447
ldrr	.1979851	.0735433	2.69	0.007	.0538428	.3421273
ldrr_t	-.0587857	.0381539	-1.54	0.123	-.1335659	.0159945
ldtt	-1.01992	.1413158	-7.22	0.000	-1.296894	-.7429464
ldtt_t	.3028456	.0647239	4.68	0.000	.1759891	.4297021
_cons	24.0209	2.067059	11.62	0.000	19.96954	28.07226

#### 5.1.2 Linear Specification

model for pmcnkid for site 10, xs/ts with hetero, xscorr  
(sum of wgt is 4.6880e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (-0.1292)

Estimated covariances	=	271	Number of obs	=	1084
Estimated autocorrelations	=	1	Number of groups	=	271
Estimated coefficients	=	20	Time periods	=	4
			Wald chi2(19)	=	1405.08
Log likelihood	=	-2059.006	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-1.481505	.2182295	-6.79	0.000	-1.909227	-1.053783
ld_t	.1830153	.113971	1.61	0.108	-.0403638	.4063944
ldcos	-.0696677	.0482648	-1.44	0.149	-.164265	.0249297
ldsin	-1.206803	.1101885	-10.95	0.000	-1.422769	-.9908377
y1980	1.659673	.6581668	2.52	0.012	.3696901	2.949656
y1990	-2.316126	1.294817	-1.79	0.074	-4.85392	.2216682
y2000	-3.829534	1.938313	-1.98	0.048	-7.628557	-.0305115
ldap	.3985941	.13227	3.01	0.003	.1393497	.6578384
ldap_t	-.0443176	.0696528	-0.64	0.525	-.1808347	.0921994
ldc1	-8.330136	.6096059	-13.66	0.000	-9.524941	-7.13533
ldc1_t	.4478594	.1472407	3.04	0.002	.1592728	.736446
ldrdr	-.1010386	.0818589	-1.23	0.217	-.2614791	.059402
ldrdr_t	-.0000888	.04305	-0.00	0.998	-.0844653	.0842876
ldrt	.6779562	.2380466	2.85	0.004	.2113935	1.144519
ldrt_t	-.2580441	.1257713	-2.05	0.040	-.5045513	-.0115369
ldrr	.1961085	.0738103	2.66	0.008	.0514429	.340774
ldrr_t	-.0584326	.0383031	-1.53	0.127	-.1335052	.0166401
ldtt	-1.016324	.1417612	-7.17	0.000	-1.294171	-.7384773
ldtt_t	.3026263	.0648916	4.66	0.000	.1754412	.4298115
_cons	24.41299	2.057445	11.87	0.000	20.38047	28.44551

## 5.2 Male-Headed Households Without Children

### 5.2.1 Quadratic Specification

model for pmhnrkid for site 10, xs/ts with hetero, xscorr  
 (sum of wgt is 4.6880e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (-0.0160)

Estimated covariances	=	271	Number of obs	=	1084
Estimated autocorrelations	=	1	Number of groups	=	271
Estimated coefficients	=	21	Time periods	=	4
			Wald chi2(20)	=	2420.49
Log likelihood	=	-1365.296	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	.7051434	.1286819	5.48	0.000	.4529316	.9573552
ld_t	-.8216644	.1682516	-4.88	0.000	-1.151431	-.4918973

ld_t2		.1738618	.0516869	3.36	0.001	.0725573	.2751663
ldcos		-.1975209	.0282109	-7.00	0.000	-.2528133	-.1422285
ldsin		.5064574	.0616911	8.21	0.000	.3855451	.6273696
y1980		2.711347	.36707	7.39	0.000	1.991903	3.430791
y1990		7.693704	.6212664	12.38	0.000	6.476044	8.911363
y2000		11.46247	.8671746	13.22	0.000	9.762843	13.1621
ldap		-.3633101	.0573459	-6.34	0.000	-.4757059	-.2509142
ldap_t		.0211345	.0294483	0.72	0.473	-.0365831	.0788521
ldc1		4.059776	.3521458	11.53	0.000	3.369583	4.749969
ldc1_t		-.9089052	.0738437	-12.31	0.000	-1.053636	-.7641743
ldrdr		.0231936	.0417217	0.56	0.578	-.0585795	.1049667
ldrdr_t		.0104193	.0216304	0.48	0.630	-.0319755	.0528141
ldrt		.177593	.111759	1.59	0.112	-.0414507	.3966366
ldrt_t		.0302963	.0583685	0.52	0.604	-.084104	.1446965
ldrr		-.0403367	.0385617	-1.05	0.296	-.1159162	.0352428
ldrr_t		.0236304	.0195918	1.21	0.228	-.0147688	.0620296
ldtt		1.025252	.0882133	11.62	0.000	.8523573	1.198147
ldtt_t		-.4596907	.0349348	-13.16	0.000	-.5281616	-.3912197
_cons		-17.63123	1.113571	-15.83	0.000	-19.81379	-15.44867

## 5.3 Female-Headed Households Without Children

### 5.3.1 Quadratic Specification

model for pfhknid for site 10, xs/ts with hetero, xscorr  
(sum of wgt is 4.6880e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (0.3313)

Estimated covariances	=	271	Number of obs	=	1084
Estimated autocorrelations	=	1	Number of groups	=	271
Estimated coefficients	=	21	Time periods	=	4
			Wald chi2(20)	=	5727.24
Log likelihood	=	-707.7383	Prob > chi2	=	0.0000

depvar		Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld		.0464066	.0381506	1.22	0.224	-.0283672 .1211804
ld_t		.2827562	.0403066	7.02	0.000	.2037567 .3617558
ld_t2		-.0561979	.0118863	-4.73	0.000	-.0794947 -.0329011
ldcos		.0211638	.0193506	1.09	0.274	-.0167626 .0590902
ldsin		.2940937	.0393551	7.47	0.000	.2169591 .3712283
y1980		-.1155795	.1960328	-0.59	0.555	-.4997967 .2686378
y1990		-.4795869	.3817322	-1.26	0.209	-1.227768 .2685945
y2000		-1.435133	.5673464	-2.53	0.011	-2.547111 -.3231544
ldap		.0064174	.0418999	0.15	0.878	-.0757049 .0885397
ldap_t		-.0428842	.0197413	-2.17	0.030	-.0815764 -.004192
ldc1		.6221937	.2205499	2.82	0.005	.1899239 1.054463
ldc1_t		.2664722	.0476982	5.59	0.000	.1729855 .3599589
ldrdr		-.0427446	.0241648	-1.77	0.077	-.0901066 .0046175
ldrdr_t		.0094731	.0115061	0.82	0.410	-.0130785 .0320248

ldrt		.0801573	.0683355	1.17	0.241	-.0537779	.2140925
ldrt_t		-.0890335	.0323964	-2.75	0.006	-.1525293	-.0255377
ldrr		-.0316014	.0217081	-1.46	0.145	-.0741485	.0109456
ldrr_t		-.0034578	.0101444	-0.34	0.733	-.0233405	.0164248
ldtt		-.2733148	.0503706	-5.43	0.000	-.3720393	-.1745902
ldtt_t		.1982415	.0196972	10.06	0.000	.1596357	.2368473
_cons		-5.742205	.7160206	-8.02	0.000	-7.14558	-4.338831

## 5.4 Non-Family Households Without Children

### 5.4.1 Quadratic Specification

model for pnonfam for site 10, xs/ts with hetero, xscorr  
(sum of wgt is 4.6880e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.0971)

Estimated covariances	=	271	Number of obs	=	1084
Estimated autocorrelations	=	1	Number of groups	=	271
Estimated coefficients	=	21	Time periods	=	4
Log likelihood	=	-899.2502	Wald chi2(20)	=	5300.81
			Prob > chi2	=	0.0000

depvar		Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld		-.0476264	.0822606	-0.58	0.563	-.2088541 .1136014
ld_t		-.2472398	.1066217	-2.32	0.020	-.4562145 -.038265
ld_t2		.1000037	.0327276	3.06	0.002	.0358589 .1641486
ldcos		-.0002083	.0190322	-0.01	0.991	-.0375106 .0370941
ldsin		.0510328	.0457412	1.12	0.265	-.0386184 .1406839
y1980		-1.814876	.2668983	-6.80	0.000	-2.337988 -1.291765
y1990		-2.043308	.4767652	-4.29	0.000	-2.977751 -1.108865
y2000		-4.577623	.6832531	-6.70	0.000	-5.916774 -3.238472
ldap		.2578816	.0390517	6.60	0.000	.1813417 .3344215
ldap_t		-.2106124	.0193118	-10.91	0.000	-.2484629 -.1727619
ldc1		-.5909527	.2645134	-2.23	0.025	-1.109389 -.072516
ldc1_t		.5558144	.062676	8.87	0.000	.4329717 .6786571
ldrd		-.0733801	.02747	-2.67	0.008	-.1272203 -.0195399
ldrd_t		.0467081	.0139533	3.35	0.001	.0193601 .0740561
ldrt		.0002273	.0665787	0.00	0.997	-.1302645 .1307192
ldrt_t		.0878764	.0327703	2.68	0.007	.0236478 .152105
ldrr		-.1189344	.0257625	-4.62	0.000	-.169428 -.0684407
ldrr_t		.0764651	.0129078	5.92	0.000	.0511664 .1017638
ldtt		-.3409046	.0558416	-6.10	0.000	-.4503521 -.2314572
ldtt_t		.266624	.0215486	12.37	0.000	.2243895 .3088585
_cons		-.2532126	.8157377	-0.31	0.756	-1.852029 1.345604

## 6 Chem Central (MI)

### 6.1 Married Couples Without Children

#### 6.1.1 Quadratic Specification

model for pmcnkid for site 11, xs/ts with hetero, xscorr  
(sum of wgt is 1.4371e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.6662)

Estimated covariances	=	89	Number of obs	=	356
Estimated autocorrelations	=	1	Number of groups	=	89
Estimated coefficients	=	21	Time periods	=	4
			Wald chi2(20)	=	1086.46
Log likelihood	=	139.696	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.2799708	.0531953	-5.26	0.000	-.3842317	-.17571
ld_t	.0182642	.0369881	0.49	0.621	-.054231	.0907595
ld_t2	-.0004499	.0102546	-0.04	0.965	-.0205486	.0196488
ldcos	.1813566	.0456022	3.98	0.000	.0919778	.2707353
ldsin	.1215335	.0231681	5.25	0.000	.0761248	.1669422
y1980	-.4411991	.0821337	-5.37	0.000	-.6021783	-.28022
y1990	-.9561102	.1511526	-6.33	0.000	-1.252364	-.6598565
y2000	-1.57637	.2198005	-7.17	0.000	-2.007171	-1.145569
ldap	.3404695	.1406142	2.42	0.015	.0648707	.6160682
ldap_t	.0637783	.0269446	2.37	0.018	.0109678	.1165888
ldc1	.3316465	.1034592	3.21	0.001	.1288702	.5344228
ldc1_t	.0507039	.0402372	1.26	0.208	-.0281596	.1295674
ldrdr	-.057608	.0181272	-3.18	0.001	-.0931367	-.0220794
ldrdr_t	.0162057	.0069354	2.34	0.019	.0026125	.0297988
ldrt	.1253113	.0629817	1.99	0.047	.0018695	.2487532
ldrt_t	-.0153348	.0232486	-0.66	0.510	-.0609013	.0302316
ldrr	-.0245738	.0167519	-1.47	0.142	-.0574069	.0082593
ldrr_t	.0445274	.0065342	6.81	0.000	.0317206	.0573343
ldtt	.045074	.0900909	0.50	0.617	-.1315008	.2216489
ldtt_t	.1252486	.0378142	3.31	0.001	.0511342	.199363
_cons	-2.292894	.3432934	-6.68	0.000	-2.965737	-1.620052

#### 6.1.2 Linear Specification

model for pmcnkid for site 11, xs/ts with hetero, xscorr  
(sum of wgt is 1.4371e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (0.6656)

Estimated covariances	=	89	Number of obs	=	356
Estimated autocorrelations	=	1	Number of groups	=	89
Estimated coefficients	=	20	Time periods	=	4
			Wald chi2(19)	=	1078.21
Log likelihood	=	139.8063	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.2783254	.0516566	-5.39	0.000	-.3795705	-.1770803
ld_t	.0159449	.0199729	0.80	0.425	-.0232013	.0550911
ldcos	.1815528	.0451714	4.02	0.000	.0930185	.2700871
ldsin	.121934	.0231348	5.27	0.000	.0765906	.1672774
y1980	-.4363181	.0746152	-5.85	0.000	-.5825612	-.290075
y1990	-.9503274	.1470695	-6.46	0.000	-1.238578	-.6620764
y2000	-1.570804	.2197021	-7.15	0.000	-2.001412	-1.140196
ldap	.3419576	.1393283	2.45	0.014	.0688792	.615036
ldap_t	.0634457	.026864	2.36	0.018	.0107932	.1160982
ldc1	.3331749	.103477	3.22	0.001	.1303636	.5359861
ldc1_t	.0508963	.0402865	1.26	0.206	-.0280638	.1298564
ldrd	-.0580684	.0180684	-3.21	0.001	-.0934817	-.022655
ldrd_t	.0163845	.0069194	2.37	0.018	.0028227	.0299463
ldrt	.1234571	.0618607	2.00	0.046	.0022124	.2447018
ldrt_t	-.014648	.0229295	-0.64	0.523	-.059589	.0302931
ldrr	-.0242617	.0164404	-1.48	0.140	-.0564843	.007961
ldrr_t	.0444497	.0064182	6.93	0.000	.0318703	.0570291
ldtt	.0437779	.0903716	0.48	0.628	-.1333471	.2209029
ldtt_t	.1250238	.0379752	3.29	0.001	.0505938	.1994537
_cons	-2.297907	.340384	-6.75	0.000	-2.965047	-1.630766

## 6.2 Male-Headed Household Without Children

### 6.2.1 Quadratic Specification

model for pmhnrkid for site 11, xs/ts with hetero, xscorr  
(sum of wgt is 1.4371e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (0.0532)

Estimated covariances	=	89	Number of obs	=	356
Estimated autocorrelations	=	1	Number of groups	=	89
Estimated coefficients	=	21	Time periods	=	4
			Wald chi2(20)	=	332.92
Log likelihood	=	-390.6914	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.1590807	.1797065	-0.89	0.376	-.511299	.1931376
ld_t	.1296948	.2016096	0.64	0.520	-.2654528	.5248424

ld_t2		-.0374047	.0605305	-0.62	0.537	-.1560423	.0812329
ldcos		.1480718	.1168431	1.27	0.205	-.0809364	.3770801
ldsin		-.0751082	.0499746	-1.50	0.133	-.1730566	.0228403
y1980		.0988605	.3148817	0.31	0.754	-.5182962	.7160172
y1990		.1481545	.5134209	0.29	0.773	-.8581319	1.154441
y2000		1.011918	.7027256	1.44	0.150	-.3653987	2.389235
ldap		.8926244	.3835715	2.33	0.020	.1408381	1.644411
ldap_t		-.0660808	.0962228	-0.69	0.492	-.2546741	.1225125
ldc1		.4638447	.3018545	1.54	0.124	-.1277794	1.055469
ldc1_t		.1702348	.1528309	1.11	0.265	-.1293082	.4697778
ldrdr		.1682947	.0528439	3.18	0.001	.0647225	.2718669
ldrdr_t		-.0303872	.0268236	-1.13	0.257	-.0829604	.022186
ldrt		.2211244	.1673846	1.32	0.186	-.1069434	.5491922
ldrt_t		-.0478317	.0816242	-0.59	0.558	-.2078121	.1121487
ldrr		-.0331478	.0502026	-0.66	0.509	-.1315431	.0652474
ldrr_t		-.0347099	.025978	-1.34	0.182	-.0856257	.016206
ldtt		-1.01782	.2904426	-3.50	0.000	-1.587077	-.4485629
ldtt_t		-.1366424	.1496622	-0.91	0.361	-.4299749	.1566901
_cons		-5.752275	.9309607	-6.18	0.000	-7.576924	-3.927625

## 6.2.2 Linear Specification

model for pmhnrkid for site 11, xs/ts with hetero, xscorr  
(sum of wgt is 1.4371e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (0.0555)

Estimated covariances	=	89	Number of obs	=	356
Estimated autocorrelations	=	1	Number of groups	=	89
Estimated coefficients	=	20	Time periods	=	4
Log likelihood	=	-390.8059	Wald chi2(19)	=	331.84
			Prob > chi2	=	0.0000

depvar		Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld		-.1222946	.1709019	-0.72	0.474	-.4572562 .212667
ld_t		.0148167	.0867553	0.17	0.864	-.1552205 .1848539
ldcos		.14705	.1172311	1.25	0.210	-.0827187 .3768187
ldsin		-.0757064	.0500372	-1.51	0.130	-.1737775 .0223647
y1980		.224195	.2467903	0.91	0.364	-.2595052 .7078951
y1990		.2782319	.4725511	0.59	0.556	-.6479511 1.204415
y2000		1.024422	.7026295	1.46	0.145	-.3527062 2.401551
ldap		.8882761	.384421	2.31	0.021	.1348247 1.641727
ldap_t		-.0646521	.0961168	-0.67	0.501	-.2530377 .1237334
ldc1		.4662283	.3023779	1.54	0.123	-.1264214 1.058878
ldc1_t		.1684604	.1530191	1.10	0.271	-.1314514 .4683723
ldrdr		.1682996	.0527882	3.19	0.001	.0648366 .2717626
ldrdr_t		-.0299047	.0267832	-1.12	0.264	-.0823988 .0225893
ldrt		.222959	.1674254	1.33	0.183	-.1051887 .5511067
ldrt_t		-.0481433	.0816136	-0.59	0.555	-.208103 .1118164



ldrr		-.0332792	.0504585	-0.66	0.510	-.1321761	.0656178
ldrr_t		-.0346055	.0261	-1.33	0.185	-.0857605	.0165496
ldtt		-1.019474	.2911068	-3.50	0.000	-1.590033	-.4489157
ldtt_t		-.136296	.1499616	-0.91	0.363	-.4302154	.1576233
_cons		-5.804513	.9289735	-6.25	0.000	-7.625268	-3.983758

## 6.3 Female-Headed Households Without Children

### 6.3.1 Quadratic Specification

model for pfnhkid for site 11, xs/ts with hetero, xscorr  
(sum of wgt is 1.4371e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.1097)

Estimated covariances	=	89	Number of obs	=	356
Estimated autocorrelations	=	1	Number of groups	=	89
Estimated coefficients	=	21	Time periods	=	4
			Wald chi2(20)	=	640.51
Log likelihood	=	-105.2114	Prob > chi2	=	0.0000

depvar		Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld		-.1973832	.0452821	-4.36	0.000	-.2861345 - .1086319
ld_t		-.0390679	.0504804	-0.77	0.439	-.1380077 .059872
ld_t2		.0150387	.0155107	0.97	0.332	-.0153618 .0454392
ldcos		.2764094	.0380868	7.26	0.000	.2017606 .3510582
ldsin		-.0018597	.0226461	-0.08	0.935	-.0462453 .0425258
y1980		.1023469	.1227102	0.83	0.404	-.1381607 .3428545
y1990		.4614182	.2211733	2.09	0.037	.0279266 .8949099
y2000		.5272026	.3206202	1.64	0.100	-.1012014 1.155607
ldap		.4975363	.1141426	4.36	0.000	.2738209 .7212517
ldap_t		-.0116322	.0357284	-0.33	0.745	-.0816586 .0583942
ldcl		.359292	.1441961	2.49	0.013	.0766729 .6419111
ldcl_t		.1860563	.0745404	2.50	0.013	.0399599 .3321527
ldrdr		.0540883	.0282145	1.92	0.055	-.0012112 .1093878
ldrdr_t		.0044252	.0133488	0.33	0.740	-.021738 .0305883
ldrdr2		.366288	.0728366	5.03	0.000	.2235308 .5090452
ldrdr_t		-.0960167	.0349979	-2.74	0.006	-.1646114 -.0274221
ldrr		-.047941	.0316179	-1.52	0.129	-.109911 .0140289
ldrr_t		-.0100303	.0158199	-0.63	0.526	-.0410367 .0209762
ldtt		-.7747127	.1520775	-5.09	0.000	-1.072779 -.4766462
ldtt_t		-.1090354	.0791214	-1.38	0.168	-.2641105 .0460398
_cons		-4.219688	.2969865	-14.21	0.000	-4.801771 -3.637605

### 6.3.2 Linear Specification

model for pfnhkid for site 11, xs/ts with hetero, xscorr  
(sum of wgt is 1.4371e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.1054)

Estimated covariances	=	89	Number of obs	=	356
Estimated autocorrelations	=	1	Number of groups	=	89
Estimated coefficients	=	20	Time periods	=	4
			Wald chi2(19)	=	653.63
Log likelihood	=	-105.8021	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.1999632	.0487896	-4.10	0.000	-.2955892	-.1043373
ld_t	.0037163	.0241399	0.15	0.878	-.0435972	.0510297
ldcos	.2767355	.0384013	7.21	0.000	.2014703	.3520007
ldsin	-.0028019	.0226017	-0.12	0.901	-.0471004	.0414966
y1980	.0521513	.1143238	0.46	0.648	-.1719192	.2762218
y1990	.4139321	.217712	1.90	0.057	-.0127755	.8406398
y2000	.5327928	.3218397	1.66	0.098	-.0980014	1.163587
ldap	.500139	.1152029	4.34	0.000	.2743454	.7259326
ldap_t	-.012517	.035877	-0.35	0.727	-.0828346	.0578006
ldc1	.3562489	.1441742	2.47	0.013	.0736726	.6388252
ldc1_t	.1884765	.0745804	2.53	0.011	.0423016	.3346514
ldrd	.0529938	.0281307	1.88	0.060	-.0021414	.108129
ldrd_t	.0047428	.0133254	0.36	0.722	-.0213745	.0308601
ldrt	.3586394	.0744774	4.82	0.000	.2126664	.5046123
ldrt_t	-.0939463	.0359573	-2.61	0.009	-.1644214	-.0234713
ldrr	-.0481024	.0314234	-1.53	0.126	-.1096912	.0134863
ldrr_t	-.0100316	.0157466	-0.64	0.524	-.0408944	.0208312
ldtt	-.7764992	.1521463	-5.10	0.000	-1.0747	-.4782979
ldtt_t	-.1102607	.0792002	-1.39	0.164	-.2654903	.0449688
_cons	-4.204804	.2997665	-14.03	0.000	-4.792336	-3.617272

## 6.4 Non-Family Households Without Children

### 6.4.1 Quadratic Specification

model for pnonfam for site 11, xs/ts with hetero, xscorr  
(sum of wgt is 1.4371e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.5359)

Estimated covariances	=	89	Number of obs	=	356
Estimated autocorrelations	=	1	Number of groups	=	89
Estimated coefficients	=	21	Time periods	=	4
			Wald chi2(20)	=	2029.83
Log likelihood	=	-2.338401	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	.0579701	.0787906	0.74	0.462	-.0964566	.2123969
ld_t	.038626	.0535245	0.72	0.471	-.0662801	.143532
ld_t2	.0039129	.0140528	0.28	0.781	-.0236301	.0314558
ldcos	-.1486469	.0687539	-2.16	0.031	-.283402	-.0138918
ldsin	-.0534655	.0297318	-1.80	0.072	-.1117388	.0048078
y1980	.2553072	.1221213	2.09	0.037	.0159539	.4946605
y1990	.0490892	.2308171	0.21	0.832	-.403304	.5014825
y2000	-.080551	.3392231	-0.24	0.812	-.7454161	.5843141
ldap	-.6463886	.219196	-2.95	0.003	-1.076005	-.2167722
ldap_t	.0681337	.0426218	1.60	0.110	-.0154036	.151671
ldc1	-1.088006	.0893815	-12.17	0.000	-1.263191	-.9128219
ldc1_t	-.1536234	.040381	-3.80	0.000	-.2327688	-.0744781
ldrd	-.0518702	.0229524	-2.26	0.024	-.096856	-.0068843
ldrd_t	.0069334	.0098646	0.70	0.482	-.0124009	.0262677
ldrt	.0208724	.0813213	0.26	0.797	-.1385145	.1802593
ldrt_t	-.0862114	.0342747	-2.52	0.012	-.1533885	-.0190343
ldrr	-.1359271	.0196562	-6.92	0.000	-.1744525	-.0974017
ldrr_t	.0440269	.0084353	5.22	0.000	.027494	.0605597
ldtt	.2114189	.1151197	1.84	0.066	-.0142116	.4370494
ldtt_t	.3371551	.0480558	7.02	0.000	.2429674	.4313427
_cons	1.10945	.5168225	2.15	0.032	.0964961	2.122403

## 6.4.2 Linear Specification

model for pnonfam for site 11, xs/ts with hetero, xscorr  
(sum of wgt is 1.4371e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (0.5351)

Estimated covariances	=	89	Number of obs	=	356
Estimated autocorrelations	=	1	Number of groups	=	89
Estimated coefficients	=	20	Time periods	=	4
			Wald chi2(19)	=	2007.88
Log likelihood	=	-2.684225	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	.0585799	.0784314	0.75	0.455	-.0951428	.2123025
ld_t	.048512	.0331675	1.46	0.144	-.0164951	.113519
ldcos	-.1454033	.0689293	-2.11	0.035	-.2805022	-.0103044
ldsin	-.0535849	.0297524	-1.80	0.072	-.1118984	.0047287
y1980	.2468987	.1143189	2.16	0.031	.0228378	.4709596
y1990	.0418353	.2263243	0.18	0.853	-.4017522	.4854228
y2000	-.0743075	.3385241	-0.22	0.826	-.7378025	.5891875
ldap	-.6346064	.2199513	-2.89	0.004	-1.065703	-.2035099
ldap_t	.0673968	.0425606	1.58	0.113	-.0160205	.1508141
ldc1	-1.089057	.089346	-12.19	0.000	-1.264171	-.9139418
ldc1_t	-.1531171	.0404214	-3.79	0.000	-.2323416	-.0738925
ldrd	-.0516638	.0233755	-2.21	0.027	-.0974788	-.0058487

ldrd_t		.0068753	.010037	0.68	0.493	-.0127968	.0265475
ldrt		.0125464	.0824844	0.15	0.879	-.1491201	.1742129
ldrt_t		-.08441	.0346746	-2.43	0.015	-.1523708	-.0164491
ldrr		-.136853	.0197663	-6.92	0.000	-.1755943	-.0981117
ldrr_t		.044688	.0085089	5.25	0.000	.0280108	.0613652
ldtt		.2124911	.1159507	1.83	0.067	-.0147681	.4397502
ldtt_t		.3368377	.0484594	6.95	0.000	.2418591	.4318164
_cons		1.092808	.5175299	2.11	0.035	.0784678	2.107148

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## 7 Havertown PCP (PA)

### 7.1 Married Couples Without Children

#### 7.1.1 Quadratic Specification

model for pmcnkid for site 15, xs/ts with hetero, xscorr  
(sum of wgt is 3.6942e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.4343)

Estimated covariances	=	216	Number of obs	=	864
Estimated autocorrelations	=	1	Number of groups	=	216
Estimated coefficients	=	21	Time periods	=	4
Log likelihood	=	219.4219	Wald chi2(20)	=	5669.37
			Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.1056062	.0217534	-4.85	0.000	-.1482421	-.0629704
ld_t	-.1024709	.018761	-5.46	0.000	-.1392417	-.0657001
ld_t2	.028805	.0055811	5.16	0.000	.0178663	.0397437
ldcos	-.1704717	.0189877	-8.98	0.000	-.2076869	-.1332565
ldsin	-.0473334	.0142294	-3.33	0.001	-.0752225	-.0194443
y1980	-.2390945	.0527061	-4.54	0.000	-.3423966	-.1357923
y1990	-.6494643	.0985383	-6.59	0.000	-.8425959	-.4563327
y2000	-1.368219	.1444702	-9.47	0.000	-1.651375	-1.085062
ldap	.0582396	.0378036	1.54	0.123	-.0158542	.1323333
ldap_t	.0251308	.01685	1.49	0.136	-.0078946	.0581561
ldc1	.615848	.0602899	10.21	0.000	.497682	.7340141
ldc1_t	.2091491	.0188771	11.08	0.000	.1721506	.2461476
ldrdr	.0327872	.0100495	3.26	0.001	.0130906	.0524838
ldrdr_t	.0256015	.0048557	5.27	0.000	.0160846	.0351185
ldrt	.0995707	.027669	3.60	0.000	.0453404	.153801
ldrt_t	-.0501848	.0107064	-4.69	0.000	-.071169	-.0292007
ldrr	-.0113334	.010257	-1.10	0.269	-.0314367	.0087699
ldrr_t	.02195	.0050145	4.38	0.000	.0121219	.0317782
ldtt	.1184317	.0355051	3.34	0.001	.048843	.1880204
ldtt_t	-.0303511	.0155137	-1.96	0.050	-.0607573	.0000552
_cons	-2.674304	.1771995	-15.09	0.000	-3.021608	-2.326999

### 7.2 Male-Headed Households Without Children

#### 7.2.1 Quadratic Specification

model for pmhknid for site 15, xs/ts with hetero, xscorr  
(sum of wgt is 3.6942e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.1924)

Estimated covariances	=	216	Number of obs	=	864
Estimated autocorrelations	=	1	Number of groups	=	216
Estimated coefficients	=	21	Time periods	=	4
Log likelihood	=	-632.3728	Wald chi2(20)	=	493.83
			Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.1112106	.0702937	-1.58	0.114	-.2489837	.0265626
ld_t	.017732	.0813604	0.22	0.827	-.1417315	.1771955
ld_t2	-.0154224	.0255206	-0.60	0.546	-.0654419	.0345971
ldcos	-.0560379	.0435396	-1.29	0.198	-.1413741	.0292982
ldsin	-.0443784	.0363026	-1.22	0.222	-.1155302	.0267734
y1980	-.0342361	.1688729	-0.20	0.839	-.365221	.2967487
y1990	.1233307	.283884	0.43	0.664	-.4330717	.6797331
y2000	.340142	.3986208	0.85	0.393	-.4411404	1.121424
ldap	-.0693854	.0814295	-0.85	0.394	-.2289842	.0902134
ldap_t	.0028914	.0377999	0.08	0.939	-.0711952	.0769779
ldc1	-.6281905	.1477125	-4.25	0.000	-.9177016	-.3386794
ldc1_t	-.1275809	.0508349	-2.51	0.012	-.2272156	-.0279463
ldrd	-.0041437	.0226614	-0.18	0.855	-.0485592	.0402717
ldrd_t	-.0140459	.0119844	-1.17	0.241	-.0375349	.0094432
ldrt	.2171987	.0650754	3.34	0.001	.0896532	.3447441
ldrt_t	.0157597	.0296281	0.53	0.595	-.0423103	.0738297
ldrr	-.0565405	.0234277	-2.41	0.016	-.1024579	-.010623
ldrr_t	.0129209	.0122541	1.05	0.292	-.0110968	.0369385
ldtt	.216256	.1035672	2.09	0.037	.0132681	.419244
ldtt_t	.1550461	.0487599	3.18	0.001	.0594784	.2506137
_cons	-3.048529	.4467497	-6.82	0.000	-3.924142	-2.172916

## 7.2.2 Linear Specification

model for pmhnikid for site 15, xs/ts with hetero, xscorr  
(sum of wgt is 3.6942e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.1922)

Estimated covariances	=	216	Number of obs	=	864
Estimated autocorrelations	=	1	Number of groups	=	216
Estimated coefficients	=	20	Time periods	=	4
Log likelihood	=	-632.5952	Wald chi2(19)	=	486.54
			Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.0856553	.0652404	-1.31	0.189	-.213524	.0422135

ld_t	-.0340713	.0303085	-1.12	0.261	-.0934749	.0253322
ldcos	-.0619285	.0434846	-1.42	0.154	-.1471568	.0232998
ldsin	-.0452283	.0363721	-1.24	0.214	-.1165164	.0260597
y1980	.0398326	.1341469	0.30	0.767	-.2230905	.3027557
y1990	.2145285	.2639283	0.81	0.416	-.3027616	.7318185
y2000	.390035	.3945904	0.99	0.323	-.3833481	1.163418
ldap	-.0701039	.0799323	-0.88	0.380	-.2267683	.0865606
ldap_t	.0046783	.0372656	0.13	0.900	-.0683608	.0777175
ldc1	-.6132311	.1489077	-4.12	0.000	-.9050849	-.3213773
ldc1_t	-.1292023	.0514451	-2.51	0.012	-.2300327	-.0283718
ldrdr	-.0053965	.0229348	-0.24	0.814	-.0503478	.0395549
ldrdr_t	-.0131253	.0121544	-1.08	0.280	-.0369475	.0106969
ldrtr	.220994	.0651351	3.39	0.001	.0933315	.3486564
ldrtr_t	.0135763	.02967	0.46	0.647	-.0445759	.0717285
ldrtrr	-.0536774	.0233571	-2.30	0.022	-.0994565	-.0078983
ldrtrr_t	.01189	.0122193	0.97	0.331	-.0120594	.0358394
ldtt	.2136069	.103534	2.06	0.039	.0106839	.4165298
ldtt_t	.154824	.0487595	3.18	0.001	.0592572	.2503908
_cons	-3.141842	.4433914	-7.09	0.000	-4.010873	-2.272811

## 7.3 Female-Headed Households Without Children

### 7.3.1 Quadratic Specification

model for pfhknid for site 15, xs/ts with hetero, xscorr  
(sum of wgt is 3.6942e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: heteroskedastic

Correlation: common AR(1) coefficient for all panels (0.4953)

Estimated covariances	=	216	Number of obs	=	864
Estimated autocorrelations	=	1	Number of groups	=	216
Estimated coefficients	=	21	Time periods	=	4
			Wald chi2(20)	=	985.07
Log likelihood	=	-218.6084	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	-.0592164	.0513575	-1.15	0.249	-.1598753	.0414425
ld_t	-.0282084	.0458345	-0.62	0.538	-.1180425	.0616257
ld_t2	-.0010655	.0139561	-0.08	0.939	-.0284189	.026288
ldcos	-.0728321	.039311	-1.85	0.064	-.1498802	.004216
ldsin	-.0456531	.0316984	-1.44	0.150	-.1077808	.0164747
y1980	.7600406	.1078948	7.04	0.000	.5485707	.9715105
y1990	1.444495	.1933149	7.47	0.000	1.065605	1.823385
y2000	1.985764	.2788122	7.12	0.000	1.439302	2.532226
ldap	.2250669	.0626641	3.59	0.000	.1022476	.3478863
ldap_t	-.0592873	.0259224	-2.29	0.022	-.1100943	-.0084803
ldc1	-.7834898	.1373823	-5.70	0.000	-1.052754	-.5142254
ldc1_t	-.1392397	.0396533	-3.51	0.000	-.2169587	-.0615207
ldrdr	-.0624687	.021585	-2.89	0.004	-.1047745	-.020163
ldrdr_t	.0130764	.0101178	1.29	0.196	-.0067541	.032907

ldrt		.2813645	.0590046	4.77	0.000	.1657176	.3970114
ldrt_t		-.0592972	.0217725	-2.72	0.006	-.1019704	-.016624
ldrr		-.1165721	.0213351	-5.46	0.000	-.1583882	-.0747561
ldrr_t		.0560034	.0099506	5.63	0.000	.0365006	.0755063
ldtt		.2948228	.0893639	3.30	0.001	.1196727	.4699728
ldtt_t		.0676394	.037335	1.81	0.070	-.0055359	.1408147
_cons		-2.69924	.3961404	-6.81	0.000	-3.475661	-1.922819

### 7.3.2 Linear Specification

model for pfhnkid for site 15, xs/ts with hetero, xscorr  
(sum of wgt is 3.6942e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
Panels: heteroskedastic  
Correlation: common AR(1) coefficient for all panels (0.4962)

Estimated covariances	=	216	Number of obs	=	864
Estimated autocorrelations	=	1	Number of groups	=	216
Estimated coefficients	=	20	Time periods	=	4
			Wald chi2(19)	=	984.46
Log likelihood	=	-218.3872	Prob > chi2	=	0.0000

depvar		Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
ld		-.059838	.0505157	-1.18	0.236	-.1588469 .0391709
ld_t		-.0328165	.020353	-1.61	0.107	-.0727077 .0070746
ldcos		-.0718578	.0392386	-1.83	0.067	-.148764 .0050485
ldsin		-.0446278	.031641	-1.41	0.158	-.1066431 .0173874
y1980		.7662098	.094227	8.13	0.000	.5815282 .9508914
y1990		1.451235	.1862439	7.79	0.000	1.086204 1.816266
y2000		1.98887	.2786363	7.14	0.000	1.442753 2.534987
ldap		.2226707	.0627366	3.55	0.000	.0997091 .3456322
ldap_t		-.0588585	.0259532	-2.27	0.023	-.1097259 -.0079911
ldcl		-.7877111	.1370817	-5.75	0.000	-1.056386 -.519036
ldcl_t		-.1394739	.0396114	-3.52	0.000	-.2171108 -.061837
ldrd		-.0621903	.0215927	-2.88	0.004	-.1045111 -.0198694
ldrd_t		.0130859	.0101155	1.29	0.196	-.00674 .0329118
ldrt		.2808918	.0590539	4.76	0.000	.1651482 .3966353
ldrt_t		-.0591214	.0217496	-2.72	0.007	-.1017499 -.0164929
ldrr		-.1164738	.0212966	-5.47	0.000	-.1582143 -.0747333
ldrr_t		.0556805	.0099325	5.61	0.000	.0362132 .0751477
ldtt		.2967576	.0891856	3.33	0.001	.1219571 .4715582
ldtt_t		.0681609	.0372709	1.83	0.067	-.0048889 .1412106
_cons		-2.684012	.3948809	-6.80	0.000	-3.457965 -1.91006

## 7.4 Non-Family Households Without Children

### 7.4.1 Quadratic Specification

model for pnonfam for site 15, xs/ts with hetero, xscorr  
(sum of wgt is 3.6942e+06)



Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
 Panels: heteroskedastic  
 Correlation: common AR(1) coefficient for all panels (0.6952)

Estimated covariances	=	216	Number of obs	=	864
Estimated autocorrelations	=	1	Number of groups	=	216
Estimated coefficients	=	21	Time periods	=	4
			Wald chi2(20)	=	4440.73
Log likelihood	=	3.2461	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	.2241924	.047004	4.77	0.000	.1320663	.3163186
ld_t	-.0024086	.0314037	-0.08	0.939	-.0639587	.0591414
ld_t2	.0119109	.0092315	1.29	0.197	-.0061826	.0300043
ldcos	-.1035559	.0417053	-2.48	0.013	-.1852968	-.021815
ldsin	.0266508	.0311135	0.86	0.392	-.0343306	.0876322
y1980	.1245206	.0852727	1.46	0.144	-.0426108	.2916521
y1990	-.0894973	.1591244	-0.56	0.574	-.4013754	.2223808
y2000	-.3750352	.2330996	-1.61	0.108	-.831902	.0818316
ldap	.0597683	.06003	1.00	0.319	-.0578883	.177425
ldap_t	.0395855	.0209833	1.89	0.059	-.0015411	.0807121
ldc1	-.1059384	.1151035	-0.92	0.357	-.331537	.1196603
ldc1_t	.1222627	.0222851	5.49	0.000	.0785846	.1659407
ldrd	-.1449821	.0194361	-7.46	0.000	-.1830761	-.106888
ldrd_t	.0209233	.0079375	2.64	0.008	.005366	.0364805
ldrt	-.0671518	.0481617	-1.39	0.163	-.161547	.0272434
ldrt_t	-.0127556	.0147395	-0.87	0.387	-.0416445	.0161334
ldrr	-.0482551	.0169283	-2.85	0.004	-.0814338	-.0150763
ldrr_t	-.0059638	.0068265	-0.87	0.382	-.0193436	.0074159
ldtt	-.4158848	.0506912	-8.20	0.000	-.5152378	-.3165318
ldtt_t	.0372207	.0181928	2.05	0.041	.0015635	.072878
_cons	-1.37215	.39796	-3.45	0.001	-2.152137	-.5921624

### 7.4.2 Linear Specification

model for pnonfam for site 15, xs/ts with hetero, xscorr  
 (sum of wgt is 3.6942e+06)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares  
 Panels: heteroskedastic  
 Correlation: common AR(1) coefficient for all panels (0.6969)

Estimated covariances	=	216	Number of obs	=	864
Estimated autocorrelations	=	1	Number of groups	=	216
Estimated coefficients	=	20	Time periods	=	4
			Wald chi2(19)	=	4338.47
Log likelihood	=	3.325429	Prob > chi2	=	0.0000

depvar	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
ld	.2170647	.045655	4.75	0.000	.1275825	.3065469
ld_t	.034591	.015673	2.21	0.027	.0038726	.0653095
ldcos	-.1038597	.0418071	-2.48	0.013	-.1858001	-.0219193
ldsin	.026688	.0311457	0.86	0.392	-.0343565	.0877325
y1980	.0756742	.0778904	0.97	0.331	-.0769881	.2283365
y1990	-.1415643	.1550079	-0.91	0.361	-.4453742	.1622456
y2000	-.3851671	.2321903	-1.66	0.097	-.8402517	.0699175
ldap	.0596529	.0602215	0.99	0.322	-.058379	.1776849
ldap_t	.0400974	.0209714	1.91	0.056	-.0010058	.0812006
ldcl	-.1031033	.11467	-0.90	0.369	-.3278524	.1216459
ldcl_t	.1220991	.0223193	5.47	0.000	.078354	.1658441
ldrd	-.145266	.0195969	-7.41	0.000	-.1836752	-.1068567
ldrd_t	.0209523	.0079895	2.62	0.009	.0052931	.0366115
ldrt	-.0680539	.0482522	-1.41	0.158	-.1626266	.0265187
ldrt_t	-.0129002	.0147788	-0.87	0.383	-.041866	.0160657
ldrr	-.0489526	.0171428	-2.86	0.004	-.082552	-.0153532
ldrr_t	-.0059406	.0068939	-0.86	0.389	-.0194524	.0075711
ldtt	-.4178209	.0497715	-8.39	0.000	-.5153713	-.3202706
ldtt_t	.0374163	.0179189	2.09	0.037	.0022958	.0725367
_cons	-1.360771	.3966961	-3.43	0.001	-2.138281	-.5832611