Project 3: Adding More Detail About Expenditures

Project 3

What if you want to know about specific types of education expenses? We can use the monthly expenditure file (**MTBI**) to add information to our dataset

In this project you will:

- Learn more about the MTBI file
- Create detailed summarized estimates from the MTBI file

Project 3 Steps

1. Concatenate 4 quarterly MTBI files to obtain collection year of data
2. Calculate totals by number of children for each NEWID using the following education expense groupings.

Tuition:	670110, 670210, 670410, 670901
Test preparation and tutoring services:	670903
School books, supplies, and equipment:	660110, 660210, 660410, 660901, 660902
Other school expenses including rentals:	670902

3. Merge new expenditure groups with the FMLI information
4. Calculate means, standard errors, and percent reporting

Project 3 Results

Tuition:

Count	Number of Children	Education Expenditure Mean	Education Expenditure Standard Error	Education Expenditure Percent Reporting
15,140	0 children	$795.21	$62.76	4.7%
4,268	1 child	$1,491.75	$156.39	8.8%
3,181	2 children	$1,762.49	$198.57	10.8%
1,298	3 children	$1,467.57	$257.57	11.0%
592	4 or more children	$723.20	$137.96	10.0%

Project 3 Results

Test preparation and tutoring services:

Count	Number of Children	Education Expenditure Mean	Education Expenditure Standard Error	Education Expenditure Percent Reporting
15,140	0 children	$8.61	$2.13	0.4%
4,268	1 child	$20.11	$8.16	0.8%
3,181	2 children	$49.03	$10.67	2.1%
1,298	3 children	$32.04	$8.65	2.1%
592	4 or more children	$6.55	$3.03	0.8%

Project 3 Results

School books, supplies, and equipment:

Count	Number of Children	Education Expenditure Mean	Education Expenditure Standard Error	Education Expenditure Percent Reporting
15,140	0 children	$43.36	$3.36	3.6%
4,268	1 child	$77.43	$6.35	9.0%
3,181	2 children	$118.67	$10.24	14.5%
1,298	3 children	$122.73	$12.47	15.6%
592	4 or more children	$116.53	$19.82	13.3%

Project 3 Results

Other school expenses including rentals:

Count	Number of Children	Education Expenditure	Education Expenditure Standard Error	Percent Reporting Education Expenditure
15,140	0 children	$29.45	$3.73	1.5%
4,268	1 child	$61.67	$16.57	4.6%
3,181	2 children	$77.91	$8.85	8.0%
1,298	3 children	$65.57	$15.63	7.5%
592	4 or more children	$75.03	$31.75	5.6%