

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
15,688	0 children	\$666.07	\$58.17	4.1%
4,421	1 child	\$1,308.03	\$124.02	9.3%
3,359	2 children	\$1,423.89	\$175.50	10.5%
1,328	3 children	\$1,179.81	\$188.33	10.5%
645	4 or more children	\$1,199.77	\$362.74	11.0%



Project 3 Results

Test preparation and tutoring services:

Count	Number of Children	Education Expenditure Mean	Education Expenditure Standard Error	Education Expenditure Percent Reporting
15,688	0 children	\$4.31	\$1.29	0.3%
4,421	1 child	\$19.82	\$6.60	1.2%
3,359	2 children	\$38.21	\$7.31	1.8%
1,328	3 children	\$67.21	\$20.95	1.9%
645	4 or more children	\$18.67	\$10.14	1.6%



Project 3 Results

School books, supplies, and equipment:

Count	Number of Children	Education Expenditure Mean	Education Expenditure Standard Error	Education Expenditure Percent Reporting
15,688	0 children	\$42.64	\$3.96	3.3%
4,421	1 child	\$101.97	\$11.41	10.0%
3,359	2 children	\$107.56	\$9.17	13.5%
1,328	3 children	\$116.05	\$11.83	14.4%
645	4 or more children	\$107.36	\$13.92	16.3%



Project 3 Results

Other school expenses including rentals:

Count	Number of Children	Education Expenditure	Education Expenditure Standard Error	Percent Reporting Education Expenditure
15,688	0 children	\$28.37	\$3.76	1.4%
4,421	1 child	\$62.39	\$10.24	4.0%
3,359	2 children	\$58.34	\$6.49	6.0%
1,328	3 children	\$65.78	\$6.16	5.6%
645	4 or more children	\$50.45	\$9.75	8.2%

