Project 4: Using the Diary Survey to get a complete educational expenditure

Project 4

If you need to include complete estimates for education expenditures in your totals, you would use the diary EXPD file to fill in the blanks at the summarized level (using created number of children variable from the MEMD files for this example)

In this project you will:

- Learn how to navigate the Diary EXPD file
- Learn how to connect the EXPD and MEMD files
- Learn how to "integrate" data

Project 4 Steps

1. Concatenate 4 quarterly FMLD files to obtain a collection year of data
2. Repeat for the MEMD files
3. Generate the number of children per household by creating the Children count variable
4. Using the EXPD files, create summary Diary education expenditures at the household level using the education UCC that is sourced from the Diary survey (660000 - School supplies, etc. – unspecified)
5. Multiply estimates by 52 to obtain estimated annual totals from the weekly estimates
6. Calculate means based on number of children from Diary
7. Standard Error: Calculate standard error for each of the groups
8. Add Diary means for each group to the Interview means

Project 4 Results

CUs with 0 Children

Education Expenditure Type	Education Expenditure Mean	Education Expenditure Standard Error	Education Expenditure Percent Reporting
TUITION	$795.21	$62.76	4.7%
TEST	$8.61	$2.13	0.4%
BOOKS	$43.36	$3.36	3.6%
OTHER	$29.45	$3.73	1.5%
SUPPLIES	$43.54	$3.25	7.0%
Total	**$920.17**		

Project 4 Results

CUs with 1 Child

Education Expenditure Type	Education Expenditure Mean	Education Expenditure Standard Error	Education Expenditure Percent Reporting
TUITION	$1,491.75	$156.39	8.8%
TEST	$20.11	$8.16	0.8%
BOOKS	$77.43	$6.35	9.0%
OTHER	$61.67	$16.57	4.6%
SUPPLIES	$65.74	$10.46	9.4%
Total	**$1,716.70**		

Project 4 Results

CUs with 2 Children

Education Expenditure Type	Education Expenditure Mean	Education Expenditure Standard Error	Education Expenditure Percent Reporting
TUITION	$1,762.49	$198.57	10.8%
TEST	$49.03	$10.67	2.1%
BOOKS	$118.67	$10.24	14.5%
OTHER	$77.91	$8.85	8.0%
SUPPLIES	$126.83	$16.02	13.4%
Total	**$2,134.93**		

Project 4 Results

CUs with 3 Children

Education Expenditure Type	Education Expenditure Mean	Education Expenditure Standard Error	Education Expenditure Percent Reporting
TUITION	$1467.57	$257.57	11.0%
TEST	$32.04	$8.65	2.1%
BOOKS	$122.73	$12.47	15.6%
OTHER	$65.57	$15.63	7.5%
SUPPLIES	$188.38	$48.56	13.0%
Total	**$1,876.29**		

Project 4 Results

CUs with 4 or more Children

Education Expenditure Type	Education Expenditure Mean	Education Expenditure Standard Error	Education Expenditure Percent Reporting
TUITION	$723.20	$137.96	10.0%
TEST	$6.55	$3.03	0.8%
BOOKS	$116.53	$19.82	13.3%
OTHER	$75.03	$31.75	5.6%
SUPPLIES	$155.68	$51.41	14.2%
Total	**$1,076.99**		