

Chicago Longitudinal Study:
Risk Indicators and Indexes and Selected Measures of Well Being

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Project Director: Arthur Reynolds

Dylan Roberson

The following report examines measures and indices of family risk in the Chicago Longitudinal Study (CLS) in relation to selected indicators of youth and young adult well being. Primary data sources for the family risk measures include: parent surveys (student grades 2, 4, 6 and 11), student surveys (grades 3, 10), young adult survey (ages 21-22), the Illinois Department of Public Health (IDPH), the Chicago Public School Student Information System (CPSSIS) and the Illinois Public Assistance Research Database (ILPARD) maintained by Chapin Hall Center for Children at the University of Chicago. ILPARD is a longitudinal database of public assistance cases in Illinois based on monthly abstracts of the Illinois Department of Human Services Client Database. Family data which included category of public assistance, education, employment, family membership and family structure were collected each time someone applied or reapplied for public assistance from February 1, 1989 to August 31, 2003. Secondary data sources for measures of youth and adult well being used in this report include child and family reports, the Illinois Department of Child and Family Services (IDCFS), the Cook County Juvenile Court (CCJC), the Cook County Adult Court (CCAC), the Chicago Public Schools (CPS), and Illinois Board of Higher Education (IBHE).

Family Risk Indicators. Table 1a, 1b, 1c and 1d provide indicators of family risk by child age period in relation to CPC preschool participation, juvenile delinquency, adult incarceration and college attendance. These measures of family risk are the most recent created from the above data sources finalized around May of 2005. Eight dichotomous indicators were summed to make a composite family risk measure at different child age periods: 60% or greater poverty in school attendance area (kindergarten), single parent-mother, mother less than 18 years of age at participant's birth, mother did not complete high school, 4 or more children in the household, AFDC participation, Free Lunch participation, and mother not employed full or part time. The values for mother less than 18 and 60% or greater poverty in the school attendance did not vary by child's age.

Tables 2a, 2b, 2c and 2d show indicators of family risk by child age period in relation to CPC preschool participation, juvenile delinquency, adult incarceration and college attendance. These measures of family risk were created and finalized around March of 2004. Six dichotomous indicators were summed to make a composite family risk measure at different child age periods: single parent-mother, mother less than 18 years of age at participant's birth, mother did not complete high school, 4 or more children in the household, Free Lunch participation, and substantiated abuse or neglect prior to child age 4.

Tables 3a, 3b and 3c provide the same descriptive information for measures of family risk created and finalized in January of 2003. Six dichotomous indicators were summed to make a composite family risk measure at different child age periods: single parent-mother, mother less than 18 years of age at participant's birth, mother did not complete high school, 4 or more children in the household, Free Lunch participation, and 60% or greater poverty in school attendance area (kindergarten).

Table 4 provides the available data sources by family risk indicator. The overall strategy for creating age-appropriate measures of family risk was as follows. In general, CLS data was emphasized and supplemented with the closest age appropriate measure available in administrative data. The data sources and the order of the variables used does yield minor differences in the risk measures (see Appendix 1 for additional details, comments and general suggestions about all the risk measures and indicators

Single Parent (SP). Single parent status was derived from birth records from the IDPH, ILPARD, parent and students reports. To construct the under age four measure (sp03) the

following imputation strategy was applied. First, data from p11q4a was used. Second, missing values were filled with data from the IDPH. Third, missing values were then filled with birth records, asq115, and so forth. To make other age appropriate measures a similar strategy was applied.

Mother's Age at Child's Birth (agemom0). The age of the mother at the time of the CLS participant's birth was created based on data obtained from IDPH, ILPARD, parent and student reports. For this measure, birth record data was used first and supplemented by student, parent and administrative data. A dummy measure (mage) was created by recoding mother's age in years to mage where 1 is less than 18 and 0 is greater than or equal to 18 years of age.

Mother's education in years. (meyr). The education of the mother before the CLS participant's fourth birthday was created based on data obtained from parent surveys, IDPH, ILPARD, and student reports. In general, CLS parent data was used first and supplemented with the closest age appropriate measure available from other student, parent and administrative data. A dummy measure (mnhs) was created by recoding mother's education in years to 1 when the mother did not complete high school or obtain a GED and to 0 when the mother had greater than or equal to 12 years of education. A summary of the most recent maternal education measures by data source is provided in Appendix 2. As shown in Appendix 2, we have additional measures of maternal education using alternative methods and more clearly defined child age periods.

Number of Children. (nch). The number of children in the household was calculated from data obtained from parent and student surveys and administrative data from IDPH, ILPARD and the CPSSIS. A dummy measure (nchd) was created by recoding number of children in the household to 1 when there were 4 or more children and to 0 when there were less than 4 children.

AFDC/TANF Participation (TF). The number of months of AFDC/TANF participation was obtained from CH data which provides start and end dates for spells of Medicaid, AFDC/TANF and Food Stamps from February 1st, 1989 to August 31, 2003. Family participation was measured from February 1, 1989 to January 31, 1999. Young adult CLS participant participation was measured from February 1st, 1999 to August 31, 2003. To approximate family AFDC receipt before child age four (19840901), we considered all families receiving AFDC benefits on February 1st of 1989 to be likely to have received AFDC benefits prior to the participant's fourth birthday (TF03). All other public aid measures (months and dummy measures) represent actual participation during a specific age period.

Free Lunch Participation/Eligibility (free). Participation in the National School Lunch Act was determined from parent and student reports, and administrative data from the CPSSIS, and CH. In general, age appropriate data was used from parent and student reports and supplemented by CPSSIS and CH data. An exception was Free03. Age-appropriate data for Free Lunch Eligibility prior to child age 8 does not exist. To approximate free lunch eligibility before child age four, we used the following methodology. First, data from p2q27 was used. Second, if data was missing we added data from p4q60. Third, if data was missing we added TF03.

Mother Not Employed Full- or Part-time (mnemp). Data for this measure comes primarily from parent surveys and the adult survey and is supplemented by school lunch application records from the Chicago Public School Student Information System (CPSSIS) and education data from the Illinois Public Assistance Research Database (ILPARD). Mothers who were reported no monthly income on their children's Free Lunch applications or mothers who reported no work history when applying for public aid were considered not employed full or part

time. To estimate mothers that were not employed before child age four, we used the following methodology. First, data from p11q8a was used. Second, if data was missing we added data from p4q59. Third, if data was missing we added data from ILPARD. We considered mothers who reported no work history when applying for public aid on February 1st, 1989 to be likely not to be employed full or part time and mothers with work histories to be likely to be employed. A summary of the most recent maternal employment measures by data source is provided in Appendix 3.

School-Level Poverty (inc60). School attendance area poverty rates were determined from CPSSIS data. Poverty rate values (0% to 100%) were assigned to all children in the study based on their kindergarten school attendance region. A dummy measure (inc60) was created by recoding school attendance area poverty rates to 1 when they exceeded 59% and to 0 otherwise.

Composite-Risk Index (n8risk). The composite risk indexes are simply the sum of age-appropriate dichotomized indicators for family risk. For example, for the most recent risk indexes (n8risk and l8rski), the values assigned to each child are based on the sum of sp, mage, mshs, nch4d, TF, free, mnemp, inc60. The same strategy was used for other indexes.

Table 1a. Indicators of family risk (birth to age 3, 8 indicators, May 2005)

Variable	Label	N	Min	Max	Mean	St. dev.	Anyprek	jdad296j	everinca	anyc803a
Child under age 4										
L8risk03i	Risk index, Imputed, 8 vars, LISREL (mage03i,mnhs03i,sp03i,nchd03i, tf03i,free03i, mnemp03i,inc60), age 0 to 3	1539	.00	7.00	4.52	1.69	-.006	.120**	.060*	-.194**
inc60	60% or greater poverty in school attendance area	1539	.00	1.00	.76	.43	.053*	.014	-.040	-.015
sp03i	Imputed, Single parent, child age 0 to 3	1539	.00	1.00	.76	.42	.008	.082**	-.002	-.094**
Mage03i	Imputed, Mother is less than 18 years, child's birth	1539	.00	1.00	.16	.37	-.022	.029	.040	-.041
Mnhs03i	Imputed, Mother did not complete HS, child age 0 to 3	1539	.00	1.00	.54	.50	-.089**	.075**	.084**	-.183**
nch03di	Imputed, 4 or more children, child age 0 to 3	1539	.00	1.00	.17	.37	-.024	.000	.026	-.002
TF03i	Imputed, TF participation at earliest data collection (19890201), age 0 to 3	1539	.00	1.00	.63	.48	.009	.114**	.062*	-.162**
mnemp03i	Imputed, Mother not employed full/part time, child age 0 to 3	1539	.00	1.00	.66	.47	.028	.073**	.016	-.126**
free03i	Imputed, Eligible for free lunch, if missing free3 use TF03, child age 0 to 3	1539	.00	1.00	.84	.37	.017	.062*	.041	-.092**
N8rsk03	non imputed risk, 8 vars (mage03,mnhs03,sp03,nchd03, tf03,free03, mnemp03,inc60), child age 0 to 3	1539	.00	7.00	4.24	1.78	.022	.144**	.049	-.194**
sp03	Single parent, child age 0 to 3	1482	.00	1.00	.76	.43	.014	.088*	-.007	-.096**
mage03	Mother is less than 18 years of age, child's birth	1493	.00	1.00	.17	.37	-.027	.026	.041	-.041
agemom0	Age of mom at child's birth	1493	13.0	42.0	22.60	5.51	-.011	-.059*	-.058*	.086**
mnhs03	Mother did not complete HS, child age 0 to 3, based on me03yr	1475	.00	1.00	.54	.50	-.085**	.074**	.075**	-.186**
me03yr	Mother edu in years, child age 0 to age 3	1475	6.00	17.00	11.10	1.72	.086**	-.055*	-.057*	.151**
nch03d	4 or more children in household, child age 0 to 3	1482	.00	1.00	.17	.38	-.029	-.003	.030	-.001
Nchd03	Number of children in household, child age 0 to 3	1482	1.00	11.00	2.29	1.50	-.085**	.032	.049	-.022
TF03	TANF/AFDC participation at earliest data collection (19890201), age 0 to 3	1440	.00	1.00	.62	.49	.014	.125**	.071**	-.169**
mnemp03r	Mother not employed full/part time, child age 0 to 3	1342	.00	1.00	.63	.48	.043	.084**	.012	-.126**
Free03	Eligible for free lunch, if missing free8 use TF03, child age 0 to 3	1445	.00	1.00	.83	.38	.023	.072**	.042	-.097**
mrsk03	Any missing risk, child 0 to age 3	1539	.00	1.00	.16	.37	-.054*	-.035	.048	-.032
n8mrsk03	n of missing risk, 8 vars (mage03,mnhs03,sp03,nchd03, tf03,free03, mnemp03,inc60), child age 0 to 3	1539	.00	7.00	.40	1.11	-.064*	-.075**	.028	.023

Note. Inc60, mage03 and mage03i are repeated in the appropriate model and not shown for the rest of Table 1.

Table 1b. Indicators of family risk index (child age 8)

Variable	Label	N	Min	Max	Mean	St. dev.	Anyprek	jdad296j	everinca	anyc803a
		Child age 8								
l8risk8i	Risk index, Imputed, 8 vars, LISREL (mage03i,mnhs8i,sp8i,nch8di,tf8i,free8i,mnemp8i,inc60), child age 8	1539	.0	8.0	4.25	1.79	-.037	.145**	.091**	-.205**
sp8i	Imputed, Single parent, child age 8	1539	.0	1.0	.61	.49	-.024	.065*	.051	-.054*
mnhs8i	Imputed, Mother did not complete HS, child age 8	1539	.0	1.0	.44	.50	-.115	.062*	.060*	-.206**
nch8di	Imputed, 4 or more children, child age 8	1539	.0	1.0	.32	.47	-.053*	.071**	.031	-.084**
tf8i	Imputed, TF/AFDC participation between feb.1 1990 to Jan. 31 1991, child age 8	1539	.0	1.0	.60	.49	.011	.117**	.086**	-.154**
mnemp8i	Imputed, Mother not employed full/part time, child age 8	1539	.0	1.0	.52	.50	.001	.119**	.066**	-.148**
Free8i	Imputed, Eligible for free lunch, if missing free8 use TF08, child age 8	1539	.0	1.0	.83	.37	.019	.080**	.058**	-.085**
n8rsk8	Non imputed risk index, 8 vars (mage03 mnhs8r nch8d free8 spar8 mnemp8r inc60 TF8), child age 8	1539	.0	8.0	4.07	1.86	-.022	.169**	.093**	-.210**
sp8	Single parent, child age 8	1500	.0	1.0	.60	.49	-.019	.070**	.047	-.059*
mnhs8r	Mother did not complete HS, based on me8yrr, child age 8	1510	.0	1.0	.45	.50	-.123**	.060*	.064*	-.205**
me8yrr	Maternal education in years, use me8yr, if missing use me03yr, child age 8	1510	6.0	17.0	11.29	1.67	.106**	-.042	-.069**	.186**
nch8d	4 or more children in household, child age 8	1521	.0	1.0	.33	.47	-.058*	.067*	.032	-.084**
nch8	Number of children in household, child age 8	1521	1.0	11.0	3.04	1.62	-.088**	.053*	.039	-.086**
TF8	Any TANF/AFDC, Feb 1, 1990 to Jan 31, 1991, child age 8	1440	.0	1.0	.59	.49	.014	.131**	.095**	-.156**
Free8	Eligible for free lunch, if missing free8 use TF8, child age 8	1445	.0	1.0	.82	.38	.025	.092**	.060*	-.090**
mnemp8r	mother not employed full/part time, child age 8	1407	.0	1.0	.52	.50	.004	.123**	.072**	-.149**
n8mrsk8	n of missing risk, 8 vars (mage03 mnhs8r nch8d free8 spar8 mnemp8r inc60 TF8), child age 8	1539	.0	7.0	.30	1.01	-.051*	-.091**	.001	.046
msrk8	Any missing risk, 8 vars (mage03 mnhs8r nch8d free8 spar8 mnemp8r inc60 TF8), child age 8	1539	.0	1.0	.11	.31	-.023	-.082**	.006	.021

Table 1c. Indicators of family risk index (child age 12)

Variable	Label	N	Min	Max	Mean	St. dev.	Anyprek	jdad296j	everinca	anyc803a
		Child age 12								
l8risk12i	Risk index, Imputed, 8 vars, LISREL (mage03i,mnhs12i,sp12i,nch12di,tf12i,free12i, mnemp12i,inc60), child age 12	1539	.0	8.0	4.23	1.82	-.042	.145**	.092**	-.180**
sp12i	Imputed, Single parent, child age 12	1539	.0	1.0	.68	.46	.018	.103**	.045	-.065*
mnhs12i	Imputed, Mother did not complete HS, child age 12	1539	.0	1.0	.45	.50	-.118**	.077**	.087**	-.160**
nch12di	Imputed, 4 or more children, child age 12	1539	.0	1.0	.31	.46	-.069**	.060*	.070**	-.097**
tf12i	Imputed, Any TANF/AFDC, Feb 1, 1992 to Jan 31, 1993, child age 12	1539	.0	1.0	.55	.50	-.003	.113**	.069**	-.148**
mnemp12i	Imputed, Mother not employed full/part time, child age 12	1539	.0	1.0	.53	.50	-.032	.105**	.056*	-.115**
Free12i	Imputed, Eligible for free lunch, if missing free12 use TF12, child age 12	1539	.0	1.0	.80	.40	.022	.062*	.033	-.061*
n8rsk12	Non imputed risk index, 8 vars (mage03 mnhs12r nch12d free12 spar12 mnemp12r inc60 TF12), child age 12	1539	.0	8.0	4.02	1.91	-.023	.174**	.092**	-.190**
sp12	Single parent, child age 12	1509	.0	1.0	.68	.47	.022	.108**	.044	-.065*
mnhs12r	Mother did not complete HS, based on me12yrr, child age 12	1512	.0	1.0	.45	.50	-.115**	.075**	.091**	-.166**
me12yrr	Maternal education in years, use me12yrr, if missing use me8yrr, child age 12	1512	6.0	19.0	11.38	1.88	.111**	-.033	-.071**	.153**
nch12d	4 or more children in household, child age 12	1521	.0	1.0	.31	.46	-.065*	.061*	.070**	-.097**
nch12	Number of children in household, child age 12	1521	1.0	11.0	2.94	1.54	-.082**	.081**	.059*	-.126**
TF12	Any TANF/AFDC, Feb 1, 1992 to Jan 31, 1993, child age 12	1440	.0	1.0	.52	.50	-.002	.136**	.074**	-.160**
mnemp12r	mother not employed full/part time, child age 12	1433	.0	1.0	.50	.50	-.027	.131**	.058*	-.124**
Free12	Eligible for free lunch, if missing free12 use TF12, child age 12	1445	.0	1.0	.79	.41	.018	.070**	.035	-.067*
n8mrsk12	n of missing risk, 8 vars (mage03i,mnhs12i,sp12i,nch12di, tf12i,free12i, mnemp12i,inc60), child age 12	1539	.0	7.0	.27	.99	-.053*	-.089**	.003	.053*
msrsk12	Any missing risk, 8 vars (mage03i,mnhs12i,sp12i,nch12di, tf12i,free12i, mnemp12i,inc60), child age 12	1539	.0	1.0	.09	.29	-.039	-.086**	.004	.036

Table 1.d. Indicators of family risk index (child age 17)

Variable	Label	N	Min	Max	Mean	St. dev.	Anyprek	jdad296j	everinca	anyc803a	
		Child age 17									
l8rsk17i	Risk index, Imputed, 8 vars, LISREL (mage03i,mnhs17i,sp17i,nch17di,tf17i,free17i, mnemp17i,inc60), child age 17	1539	.0	8.0	3.74	1.62	-.044	.132**	.098**	-.167**	
sp17i	Imputed, Single parent, child age 17	1539	.0	1.0	.70	.46	.012	.059*	.029	-.071**	
mnhs17i	Imputed, Mother did not complete HS, child age 17	1539	.0	1.0	.25	.43	-.109**	.033	.058*	-.145**	
nch17di	Imputed, 4 or more children, child age 17	1539	.0	1.0	.28	.45	-.059*	.080**	.094**	-.096**	
tf17i	Imputed, Any TANF/AFDC, Feb 1, 1996 to Jan 31, 1997, child age 17	1539	.0	1.0	.38	.49	.025	.081**	.031	-.104**	
mnemp17i	Imputed, Mother not employed full/part time, child age 17	1539	.0	1.0	.45	.50	-.050*	.097**	.083**	-.095**	
Free17i	Imputed, Eligible for free lunch, if missing free17 use TF17, child age 17	1539	.0	1.0	.75	.43	-.010	.074**	.058*	-.044	
n8rsk17	Non imputed risk index, 8 vars (mage03 mnhs17r nch17d free17 spar17 mnemp17r inc60 TF17), child age 17	1539	.0	8.0	3.65	1.67	-.027	.147**	.096**	-.169**	
sp17	Single parent, child age 17	1510	.0	1.0	.69	.46	.015	.063*	.027	-.070*	
mnhs17r	Mother did not complete HS, based on me17yrr, child age 17	1521	.0	1.0	.25	.43	-.105**	.035	.058*	-.145**	
me17yrr	Maternal education in years, use me17yrr, if missing use me8yrr, child age 17	1521	6.0	20.0	12.48	2.37	.076**	-.025	-.051+	.121**	
nch17d	4 or more children in household, child age 17	1520	.0	1.0	.28	.45	-.055*	.081**	.095**	-.095**	
nch17	Number of children in household, child age 17	1519	1.0	11.0	2.82	1.56	-.051*	.081**	.070**	-.103**	
TF17	Any TANF/AFDC, Feb 1, 1996 to Jan 31, 1997, child age 17	1440	.0	1.0	.41	.49	.018	.066**	.029	-.097**	
mnemp17r	mother not employed full/part time, child age 17	1486	.0	1.0	.46	.50	-.046	.092**	.085*	-.090**	
Free17	Eligible for free lunch, if missing free17 use TF17, child age 17	1445	.0	1.0	.74	.44	-.004	.088**	.060*	-.050+	
n8mrsk17	n of missing risk, 8 vars (mage03i,mnhs17i,sp17i,nch17di, tf17i,free17i, mnemp17i,inc60), child age 17	1539	.0	7.0	.23	.90	-.054*	-.085**	.005	.058*	
msrsk17	Any missing risk, 8 vars (mage03i,mnhs17i,sp17i,nch17di, tf17i,free17i, mnemp17i,inc60), child age 17	1539	.0	1.0	.09	.28	-.051*	-.085**	-.001	.044	

Table 2a. Indicators of family risk index (birth to age 3, 6 indicators, March 2004)

Variable	Label	N	Min	Max	Mean	St. dev.	Anyprek	jdad296j	everinca	anyc803a
Child under age 4										
nrisk0	N of risk factors, child's birth (P not HS grad, 4 or more children, CAN 0-3, mother <=19, sparent, Low BW)	1523	.0	5.0	1.66	1.09	-.049	.076**	.019	-.147**
pnhsd0	parent is not a HS graduate at child's birth	1456	.0	1.0	.40	.49	-.069**	.085**	.074**	-.173**
ncd4d0	4 or more children at child's birth	1346	.0	1.0	.10	.30	-.067*	.001	.003	-.003
any03i	Any indicated neglect or abuse from chapin or court data age 0 to 3	1408	.0	1.0	.02	.14	-.040	.024	.070**	-.039
spar0	Child lives in single parent/Non married family at birth	1456	.0	1.0	.75	.43	.016	.089**	-.009	-.094**
lowbw	Low birthweight (<2500 gms)	1456	.0	1.0	.12	.33	-.041	-.016	-.035	-.040
mage19	Mother is 19 years of age or less at child's birth	1456	.0	1.0	.35	.48	-.010	.006	.013	-.068*
mrisk0	N of missing risk factors, child's birth (P not HS grad, 4 or more children, CAN 0-3, mother <=19, spar, Low BW)	1539	.0	6.0	.43	1.11	-.067**	-.082**	.025	.009

Note.

Table2b. Indicators of family risk index (child age 8)

Variable	Label	N	Min	Max	Mean	St. dev.	Anyprek	jdad296j	everinca	anyc803a
Child age 8										
nrisk8	N of risk factors, child age 8 (p not HS grad, 4 or more children, free lunch age 8, spar age 8, p not emp 8)	1539	.0	5.0	2.54	1.29	-.017	.155**	.086**	.155**
pnhsd8	Parent is not a HS grad by child age 8	1510	.0	1.0	.43	.50	-.065**	.083**	.086**	-.213**
nchd4d8	4 or more children child age 8	1453	.0	1.0	.36	.48	-.096**	.071**	.101**	-.050+
free8	Any free lunch child age 8	1265	.0	1.0	.88	.33	-.003	.063*	.054+	-.115**
spar8	Child lives in single parent/non married family, child age 8	1500	.0	1.0	.60	.49	-.019	.070**	.047+	-.059*
pemp8	Parent reported not being employed FT/PT, child age 8	1282	.0	1.0	.56	.50	.054+	.051+	.004	-.034
mrisk8	N of missing risk indicators age 8	1539	.0	5.0	.45	.91	-.061*	-.092**	.045+	-.018

Table2c. Indicators of family risk index (child age 12)

Variable	Label	N	Min	Max	Mean	St. dev.	Anyprek	jdad296j	everinca	anyc803a
		Child age 12								
nrisk12	N of risks factors, child age 12 (p not HS grad, 4 or more children, free lunch age 12, spar age 12, p not emp12)	1539	.0	5.0	2.58	1.35	-.036	.164**	.094**	-.153**
pnhsgd12	Parent is not a HS graduate, child age 12	1513	.0	1.0	.44	.50	-.080**	.065*	.085**	-.151**
pemp12	Parent reported not being employed FT/PT, child age 12	1301	.0	1.0	.51	.50	.000	.080**	.040	-.093**
free12	Any free lunch child age 12	1323	.0	1.0	.84	.37	-.006	.062*	.072*	-.104**
spar12	Child lives in single parent/non married family, child age 12	1509	.0	1.0	.68	.47	.022	.108**	.044	-.065*
nchd4d12	4 or more children children, child age 12	1461	.0	1.0	.35	.48	-.112**	.087**	.105**	-.073*
mrisk12	N of missing risk indicators, child age 12	1539	.0	5.0	.38	.89	-.055*	-.082**	.057*	-.029

Table2d. Indicators of family risk index (child age 17)

Variable	Label	N	Min	Max	Mean	St. dev.	Anyprek	jdad296j	everinca	anyc803a
		Child age 17								
nrisk17	N of risks factors	1539	.0	5.0	2.44	1.32	-.066**	.157**	.095**	-.185**
pnhsgd17	Parent is not HS grad	1519	.0	1.0	.42	.49	-.074**	.074**	.071**	-.193**
pemp17	Parent reported not being employed FT/PT	1307	.0	1.0	.43	.50	-.067*	.053+	.047+	-.074**
free17	Any free lunch	1323	.0	1.0	.79	.41	-.037	.088**	.093**	-.094**
spar17	Child lives in single parent/non married family	1510	.0	1.0	.69	.46	.015	.0638	.027	-.070**
nchd4d17	4 or more children	1474	.0	1.0	.31	.46	-.111**	.109**	.106**	-.129**
mrisk17	N of missing risk factors	1539	.0	5.0	.37	.88	-.059*	-.076**	.067*	-.036

Table3a. Indicators of family risk index (child age 8, 6 indicators)

Variable	Label	N	Min	Max	Mean	St. dev.	Anyprek	jdad296j	everinca	anyc803a	
		Child age 8									
risk8c	composite risk-six items (sp, unemployed, 60% pov, free lunch, parent not HS grad, 4 or more children)	1539	.0	6.0	2.91	1.59	.034	.125**	.037	-.134**	
sp8c	Single parent status (p11q4a then mstatus & bs1<7)	1096	.0	1.0	.58	.49	-.026	.065*	.071*	-.058+	
cped8d	Parent is not a HS	1193	.0	1.0	.43	.50	-.062*	.086**	.086**	-.219**	
nc12s10	n of children (use p46 then p2 then ch then s3q42+1 then p11 then s10)	1395	.0	14.0	3.19	1.79	-.084**	.132**	.104**	-.083**	
nc4ds10	4 or more children, based on nc12s10	1395	.0	1.0	.36	.48	-.082**	.092**	.110**	-.090**	
cpemp8	Parent reported not being employed FT/PT, child age 8 (p2q27,bs1<7)	1094	.0	1.0	.57	.50	.063*	.049	-.011	-.034	
free8dm	free or reduced lunch with MC proxy	1444	.0	1.0	.71	.45	.046+	.052*	.014	-.096**	

Note. Inc60 and 4 or more children (nc4ds10) are repeated for the rest of Table 3.

Table3b. Indicators of family risk index (child age 12)

Variable	Label	N	Min	Max	Mean	St. dev.	Anyprek	jdad296j	everinca	anyc803a	
		Child age 12									
risk12c	composite risk-six items (sp, unemployed, 60% pov, free lunch, parent not HS grad, 4 or more children)	1539	.0	6.0	3.22	1.54	.000	.137**	.052*	-.137**	
sp12c	single parent status (p46q55,mstats and bs<55, sp8)	1258	.0	1.0	.69	.46	.026	.106**	.059*	-.070*	
cped12d	Parent is not a HS	1304	.0	1.0	.43	.50	-.089**	.067*	.081**	-.149**	
cpemp12	Parent reported not being employed FT/PT, (p46q59r,workexp & bs1<55)	1260	.0	1.0	.51	.50	-.003	.089**	.042	-.102**	
free12dm	Free or reduced lunch (p46,p2,mc<55)	1445	.0	1.0	.83	.37	-.005	.031	.022	-.064*	

Table3c. Indicators of family risk index (child age 17)

Variable	Label	N	Min	Max	Mean	St. dev.	Anyprek	jdad296j	everinca	anyc803a	
		Child age 17									
risk17c	composite risk-six items (sp, unemployed, 60% pov, free lunch, parent not HS grad, 4 or more children)	1539	.0	6.0	3.16	1.49	-.005	.124**	.056*	-.151*	
sp17c	single parent status, child age 17, (p11q4b,mstatus & bs1<115, sp12,sp8)	1261	.0	1.0	.71	.46	-.018	.051	.040	-.075*	
cped17d	Parent is not a HS	1344	.0	1.0	.41	.49	.016	.084*	.064*	-.191**	
cpemp17	Parent reported not being employed FT/PT, child age 17 (p11q60,workexp &bs1<115, s10-m,f,g-age12)	1307	.0	1.0	.43	.50	-.073**	.053	.047	-.074**	
free17dm	Free or reduced lunch, child age 17 (s10q73,s10q74,free12d,MC & BS1<115)	1445	.0	1.0	.81	.39	-.067*	.042	.054*	-.071**	

Table4. Available data sources by family risk indicator

Variable stem	Label	Source (s)
Sp+	Single parent	p46q55, p11q4a, p11q4b, s9q71, asq115, IDPH, ILPARD
Mage+	Mother is less than 18 years of age, child's birth	p46q54, p11q60, ILPARD, IDPH
agemom0	Age of mom at child's birth	p46q54, p11q60, ILPARD, IDPH
Mnhs+	Mother did not complete HS	p2q26, p46q58r, p46q58o, p11q8b, p11q63a, s9q69m, asq113m, asq114f, IDPH, ILPARD
meyr	Mother education in years	p2q26, p46q58r, p46q58o, p11q8b, p11q63a, s9q69m, s9q70f, asq113m, asq114f, IDPH, ILPARD
Nch4d+	4 or more children in household	p2q28, p46q61, p11q66, s3q42, s9q75c, IDPH, ILPARD, CPS1993, CPS1994, CPS1995
Nch	Number of children in household	p2q28, p46q61, p11q66, s3q42, s9q75c, IDPH, ILPARD, CPS1993, CPS1994, CPS1995
TF+	TANF/AFDC participation	ILPARD, CH
mnempr+	Mother not employed full/part time	p11q8a, p46q59, p11q65, s9q72m, s9q79f, CPS1993, CPS1994, CPS1995, ILPARD
Free+	Eligible for free lunch	p2q27, p46q60, s9q73, s9q74, CPS1993, CPS1994, CPS1995
Inc60+	60% or greater poverty in school attendance area	CPS1984
Mrsk	Any missing risk	All sources
n8mrsk	n of missing risk, 8 vars (mage, mnhs, sp, nch4d, tf, free, mnemp, inc60)	All sources
N8rsk	non imputed risk, 8 vars (mage, mnhs, sp, nch4d, tf, free, mnemp, inc60)	All sources

Note. +included in risk index. CPS is data from Chicago Public School Student Information System (CPSSIS). IDPH is data from the Illinois Department of Public Health (IDPH). ILPARD is data from the Illinois Public Assistance Research Database (ILPARD). CH is public aid data from Chapin Hall. In CH data we have only start and end dates for public aid participation. Data sources starting with p are the parent survey. For example, p2q26 is the second grade parent survey question number 26. Similar notations are used for the student survey (s), and the young adult survey (as).

Appendix 1

Comments and suggestions about the family risk measures.

The intent of this report was to provide a general overview about how the measures of family risk were created given the multiple data sources available in relation to different child age points. In what I believe are minor ways, the level of detail that is warranted in this report is incomplete because I was unable to locate the syntax files and the hard copies of the specific details about how some of the measures were created. For some of the older measures shown in Tables 2 and 3, I do not believe these records exist. Although, I am confident that I can recreate from memory these measures from the various data sources overtime, I would most likely be less than 100% accurate. Having worked with this data over the years, I can attest that the data sources used and the way missing data is imputed (i.e., filled in from other data sources) does have impacts on measures of family risk. Given the constancy of the associations between the different family measures overtime and CPC program participation and the indicators of youth and adult well being shown in Tables 1, 2 and 3, I believe all these measures are valid and provide reasonably accurate estimates of what they are suppose to measure. Nonetheless, I have some concerns related to the construction and replication of some measures given the different data sources and age points used to construct the measures. To maximize sample size at a given age point, the general strategy of using CLS data and supplementing it with administrative data makes sense for most measures. I am not sure whether this strategy should be used consistently overtime and applied equally to all measures based on the same age cutoff. For some measures such as maternal age, we may want to emphasize administrative data (ILPARD) because this data contains exact birthdates. Moreover, a general imputation strategy may not be the most appropriate for measures that are to be examined as outcomes rather than covariates and predictors. Given this, I would recommend recreating the measures of family risk for two reasons. First, we need to be able to definitively show how all of the family measures were created. Others who have access to the data should be able to replicate these measures exactly. Second, I believe that we may want to more fully examine all family risk measures by data source and more clearly defined child age points similar to the maternal education and employment measures presented in Appendices 2 and 3. This examination could yield valuable insight beneficial to strategies aimed at increasing sample size and improving the reliability and validity of the family measures.

Appendix 2

Maternal Education

Filename: meduvarsfinal11292004r

Child age 0 to 21 data indicators

nmed017 Total number of maternal education indicators from child's birth to 21

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid .00	18	1.2	1.2	1.2
1.00	91	5.9	5.9	7.1
2.00	176	11.4	11.4	18.5
3.00	179	11.6	11.6	30.1
4.00	204	13.3	13.3	43.4
5.00	223	14.5	14.5	57.9
6.00	210	13.6	13.6	71.5
7.00	181	11.8	11.8	83.3
8.00	113	7.3	7.3	90.6
9.00	110	7.1	7.1	97.8
10.00	34	2.2	2.2	100.0
Total	1539	100.0	100.0	

Birth to age 0 to 3

medu03m Child birth to age 3 mother edu data sources

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1.00 birth records	1281	83.2	86.8	86.8
2.00 use p11q8a (BR > p11q8a)	178	11.6	12.1	98.9
3.00 use CH (missing BR & p11q8a & CHedu8 <12)	16	1.0	1.1	100.0
Total	1475	95.8	100.0	
Missing System	64	4.2		
Total	1539	100.0		

me03yr Mother education in years, child age 0 to 3

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 6.00	43	2.8	2.9	2.9
7.00	7	.5	.5	3.4
8.00	45	2.9	3.1	6.4
9.00	85	5.5	5.8	12.2
10.00	316	20.5	21.4	33.6
11.00	300	19.5	20.3	54.0
12.00	491	31.9	33.3	87.3
13.00	102	6.6	6.9	94.2
14.00	51	3.3	3.5	97.6
15.00	15	1.0	1.0	98.6
16.00	16	1.0	1.1	99.7
17.00	4	.3	.3	100.0
Total	1475	95.8	100.0	
Missing System	64	4.2		
Total	1539	100.0		

meb0yr mother edu in years, child's birth from birth records

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	6	43	2.8	3.0	3.0
	7	7	.5	.5	3.4
	8	36	2.3	2.5	5.9
	9	88	5.7	6.0	12.0
	10	180	11.7	12.4	24.3
	11	386	25.1	26.5	50.8
	12	516	33.5	35.4	86.3
	13	78	5.1	5.4	91.6
	14	76	4.9	5.2	96.8
	15	23	1.5	1.6	98.4
	16	16	1.0	1.1	99.5
	17	7	.5	.5	100.0
	Total	1456	94.6	100.0	
Missing	System	83	5.4		
Total		1539	100.0		

me03yr Mother education in years, child age 0 to 3

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	6.00	43	2.8	2.9	2.9
	7.00	7	.5	.5	3.4
	8.00	45	2.9	3.1	6.4
	9.00	85	5.5	5.8	12.2
	10.00	316	20.5	21.4	33.6
	11.00	300	19.5	20.3	54.0
	12.00	491	31.9	33.3	87.3
	13.00	102	6.6	6.9	94.2
	14.00	51	3.3	3.5	97.6
	15.00	15	1.0	1.0	98.6
	16.00	16	1.0	1.1	99.7
	17.00	4	.3	.3	100.0
	Total	1475	95.8	100.0	
Missing	System	64	4.2		
Total		1539	100.0		

mebr0yr mother edu in years, child's birth from birth records

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	6	43	2.8	3.0	3.0
	7	7	.5	.5	3.4
	8	36	2.3	2.5	5.9
	9	88	5.7	6.0	12.0
	10	180	11.7	12.4	24.3
	11	386	25.1	26.5	50.8
	12	516	33.5	35.4	86.3
	13	78	5.1	5.4	91.6
	14	76	4.9	5.2	96.8
	15	23	1.5	1.6	98.4
	16	16	1.0	1.1	99.5
	17	7	.5	.5	100.0
	Total	1456	94.6	100.0	
Missing	System	83	5.4		
Total		1539	100.0		

mnhs03 Mother did not complete HS, child age 0 to 3, based on me03yr

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	679	44.1	46.0	46.0
	1.00	796	51.7	54.0	100.0
	Total	1475	95.8	100.0	
Missing	System	64	4.2		
Total		1539	100.0		

mnhs03i Imputed, mother did not complete HS, child age 0 to 3

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	704	45.7	45.7	45.7
	1.00	835	54.3	54.3	100.0
	Total	1539	100.0	100.0	

Child age 8

medu8m Age 8 mother edu data sources

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 data only available from p11retro	142	9.2	11.5	11.5
	2.00 data only available from p2	94	6.1	7.6	19.1
	3.00 data only available from CH public aid	359	23.3	29.1	48.2
	4.00 data same in all data sources	335	21.8	27.1	75.4
	5.00 2 or more different reports, max from p11q8a	201	13.1	16.3	91.7
	6.00 2 or more different reports, max from p2	56	3.6	4.5	96.2
	7.00 2 or more different reports, max from chapin hall 8	47	3.1	3.8	100.0
	Total	1234	80.2	100.0	
Missing	System	305	19.8		
Total		1539	100.0		

nmed8 Number of maternal education indicators, child age 8

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	305	19.8	19.8	19.8
	1.00	595	38.7	38.7	58.5
	2.00	459	29.8	29.8	88.3
	3.00	180	11.7	11.7	100.0
	Total	1539	100.0	100.0	

mech8yr mother edu in years, child age 8 from public aid records

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	6 some elementary	17	1.1	1.9	1.9
	8 all elementary	27	1.8	3.0	4.8
	10 some HS	526	34.2	57.6	62.4
	12 all HS	255	16.6	27.9	90.4
	13 some college	86	5.6	9.4	99.8
	16 all college (4 years)	2	.1	.2	100.0
	Total	913	59.3	100.0	
Missing	System	626	40.7		
Total		1539	100.0		

mech8d mother completed HS, child age 8 from public aid records

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	570	37.0	62.4	62.4
	1.00	343	22.3	37.6	100.0
	Total	913	59.3	100.0	
Missing	System	626	40.7		
Total		1539	100.0		

**mep8yr mother edu in years, child age 8 from parent survey
p2q26, only reports hs completer 12 or not 10**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	10.00	206	13.4	41.0	41.0
	12.00	296	19.2	59.0	100.0
	Total	502	32.6	100.0	
Missing	System	1037	67.4		
Total		1539	100.0		

mep8d mother completed HS, child age 8 from parent survey p2q26

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	206	13.4	41.0	41.0
	1.00	296	19.2	59.0	100.0
	Total	502	32.6	100.0	
Missing	System	1037	67.4		
Total		1539	100.0		

me8yr Maternal education in years, child age 8

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	6.00	7	.5	.6	.6
	8.00	23	1.5	1.9	2.4
	10.00	503	32.7	40.8	43.2
	12.00	464	30.1	37.6	80.8
	13.00	200	13.0	16.2	97.0
	14.00	14	.9	1.1	98.1
	16.00	23	1.5	1.9	100.0
	Total	1234	80.2	100.0	
Missing	System	305	19.8		
Total		1539	100.0		

mnhs8 Mother did complete high school, child age 8, based on me8yr

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	701	45.5	56.8	56.8
	1.00	533	34.6	43.2	100.0
	Total	1234	80.2	100.0	
Missing	System	305	19.8		
Total		1539	100.0		

**me8yrr Maternal education in years by child age 8, risk variable,
use me8yr, if missing use me03yr**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	6.00	32	2.1	2.1	2.1
	7.00	2	.1	.1	2.3
	8.00	30	1.9	2.0	4.2
	9.00	13	.8	.9	5.1
	10.00	542	35.2	35.9	41.0
	11.00	55	3.6	3.6	44.6
	12.00	548	35.6	36.3	80.9
	13.00	220	14.3	14.6	95.5
	14.00	31	2.0	2.1	97.5
	15.00	5	.3	.3	97.9
	16.00	28	1.8	1.9	99.7
	17.00	4	.3	.3	100.0
	Total	1510	98.1	100.0	
Missing	System	29	1.9		
Total		1539	100.0		

mnhs8r Mother not HS grad by child age 8, risk variable, based on me8yrr

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	836	54.3	55.4	55.4
	1.00	674	43.8	44.6	100.0
	Total	1510	98.1	100.0	
Missing	System	29	1.9		
Total		1539	100.0		

mnhs8i Imputed, mother did not complete HS, child age 8

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	862	56.0	56.0	56.0
	1.00	677	44.0	44.0	100.0
	Total	1539	100.0	100.0	

Child age 12

medu12m Age 12 mother edu data sources

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 mother report only, p46q58r	308	20.0	30.6	30.6
	2.00 chapin hall report only, mech12yr	361	23.5	35.9	66.6
	3.00 report from both data sources equal	180	11.7	17.9	84.5
	4.00 used max, p4q58r > ch12yr	129	8.4	12.8	97.3
	5.00 used max, ch12yr > p46q58r	27	1.8	2.7	100.0
	Total	1005	65.3	100.0	
Missing	System	534	34.7		
Total		1539	100.0		

nmed12 Number of maternal education indicators, child age 12

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	534	34.7	34.7	34.7
	1.00	669	43.5	43.5	78.2
	2.00	336	21.8	21.8	100.0
	Total	1539	100.0	100.0	

mech12yr mother edu in years, child age 12 from public aid records

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 none	7	.5	1.0	1.0
	6 some elementary	6	.4	.9	1.9
	8 all elementary	24	1.6	3.4	5.3
	10 some HS	392	25.5	56.2	61.5
	12 all HS	202	13.1	29.0	90.5
	13 some college	61	4.0	8.8	99.3
	16 all college (4 years)	5	.3	.7	100.0
	Total	697	45.3	100.0	
Missing	System	842	54.7		
Total		1539	100.0		

mech12d mother completed HS, child age 12 from public aid records

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	429	27.9	61.5	61.5
	1.00	268	17.4	38.5	100.0
	Total	697	45.3	100.0	
Missing	System	842	54.7		
Total		1539	100.0		

mep12yr mother edu in years, child age 10-12, from parent survey, p46q58r

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	4.00	1	.1	.2	.2
	6.00	6	.4	.9	1.1
	8.00	12	.8	1.9	3.0
	10.00	198	12.9	30.7	33.7
	12.00	178	11.6	27.6	61.3
	13.00	210	13.6	32.6	93.9
	16.00	23	1.5	3.6	97.5
	17.00	8	.5	1.2	98.8
	19.00	8	.5	1.2	100.0
	Total	644	41.8	100.0	
Missing	System	895	58.2		
Total		1539	100.0		

mep12d mother completed HS, child age 10-12, from parent survey, p46q58r

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	217	14.1	33.7	33.7
	1.00	427	27.7	66.3	100.0
	Total	644	41.8	100.0	
Missing	System	895	58.2		
Total		1539	100.0		

me12yr Maternal education in years, child age 12

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	6.00	11	.7	1.1	1.1
	8.00	25	1.6	2.5	3.6
	10.00	403	26.2	40.1	43.7
	12.00	287	18.6	28.6	72.2
	13.00	235	15.3	23.4	95.6
	16.00	28	1.8	2.8	98.4
	17.00	8	.5	.8	99.2
	19.00	8	.5	.8	100.0
	Total	1005	65.3	100.0	
Missing	System	534	34.7		
Total		1539	100.0		

mnhs12 Mother did not complete HS, child age 12, based on me12yr

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	565	36.7	56.2	56.2
	1.00	440	28.6	43.8	100.0
	Total	1005	65.3	100.0	
Missing	System	534	34.7		
Total		1539	100.0		

mnhs12r Mother not HS grad by child age 12, risk variable, based on me12yr

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	835	54.3	55.2	55.2
	1.00	677	44.0	44.8	100.0
	Total	1512	98.2	100.0	
Missing	System	27	1.8		
Total		1539	100.0		

mnhs12i Imputed, mother did not complete HS, child age 12

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	854	55.5	55.5	55.5
	1.00	685	44.5	44.5	100.0
	Total	1539	100.0	100.0	

me12yrr Mother edu in years, risk, risk var, use me12yr, if missing use me8yr, then use me03yr

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	6.00	33	2.1	2.2	2.2
	7.00	2	.1	.1	2.3
	8.00	38	2.5	2.5	4.8
	9.00	11	.7	.7	5.6
	10.00	555	36.1	36.7	42.3
	11.00	38	2.5	2.5	44.8
	12.00	460	29.9	30.4	75.2
	13.00	296	19.2	19.6	94.8
	14.00	18	1.2	1.2	96.0
	15.00	3	.2	.2	96.2
	16.00	38	2.5	2.5	98.7
	17.00	12	.8	.8	99.5
	19.00	8	.5	.5	100.0
	Total	1512	98.2	100.0	
Missing	System	27	1.8		
Total		1539	100.0		

Child age 17

medu17m Child age 17 mother edu data sources

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 data only available from p11	32	2.1	2.5	2.5
	2.00 data only available from age 17 chapin hall	64	4.2	4.9	7.4
	3.00 data only available from s10	67	4.4	5.2	12.6
	4.00 data only available from adult survey(s21)	246	16.0	19.0	31.5
	5.00 multiple data sources, consistent medu report	314	20.4	24.2	55.7
	6.00 inconsistent, max report used from p17	124	8.1	9.6	65.3
	7.00 inconsistent, max from s10	176	11.4	13.6	78.8
	8.00 inconsistent, max used from CH17yr	20	1.3	1.5	80.4
	9.00 inconsistent, max used from adult survey	255	16.6	19.6	100.0
	Total	1298	84.3	100.0	
Missing	System	241	15.7		
Total		1539	100.0		

nmedta17 Number of maternal education indicators, child age 17+

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	241	15.7	15.7	15.7
	1.00	409	26.6	26.6	42.2
	2.00	385	25.0	25.0	67.3
	3.00	373	24.2	24.2	91.5
	4.00	131	8.5	8.5	100.0
Total		1539	100.0	100.0	

mep17yr mother edu in years, child age 17 from parent survey, p11q58

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	8.00	17	1.1	2.7	2.7
	10.00	155	10.1	24.6	27.3
	12.00	213	13.8	33.8	61.1
	13.00	170	11.0	27.0	88.1
	14.00	41	2.7	6.5	94.6
	16.00	24	1.6	3.8	98.4
	18.00	10	.6	1.6	100.0
	Total	630	40.9	100.0	
Missing	System	909	59.1		
Total		1539	100.0		

mep17d mother completed HS, child age 17 from parent survey, p11q58

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	172	11.2	27.3	27.3
	1.00	458	29.8	72.7	100.0
	Total	630	40.9	100.0	
Missing	System	909	59.1		
Total		1539	100.0		

mes16yr mother edu in years, child age 16 from student survey, s10q69

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	8.00	24	1.6	3.3	3.3
	10.00	147	9.6	19.9	23.2
	12.00	195	12.7	26.5	49.7
	13.00	240	15.6	32.6	82.2
	16.00	84	5.5	11.4	93.6
	18.00	39	2.5	5.3	98.9
	20.00	8	.5	1.1	100.0
	Total	737	47.9	100.0	
Missing	System	802	52.1		
Total		1539	100.0		

mes16d mother completed HS, child age 16 from student survey, s10q69

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	171	11.1	23.2	23.2
	1.00	566	36.8	76.8	100.0
	Total	737	47.9	100.0	
Missing	System	802	52.1		
Total		1539	100.0		

mech17yr mother edu in years, child age 17 from public aid records

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	3	.2	.7	.7
	6.00	6	.4	1.3	2.0
	8.00	19	1.2	4.2	6.1
	10.00	259	16.8	56.7	62.8
	12.00	136	8.8	29.8	92.6
	13.00	19	1.2	4.2	96.7
	14.00	10	.6	2.2	98.9
	15.00	2	.1	.4	99.3
	16.00	3	.2	.7	100.0
	Total	457	29.7	100.0	
Missing	System	1082	70.3		
Total		1539	100.0		

mech17d mother completed HS, child age 17 from public aid records

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	287	18.6	62.8	62.8
	1.00	170	11.0	37.2	100.0
	Total	457	29.7	100.0	
Missing	System	1082	70.3		
Total		1539	100.0		

mes21yr Mother edu in years, child age 21, from adult suvey, asq113

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	8.00	63	4.1	6.3	6.3
	10.00	143	9.3	14.3	20.6
	12.00	365	23.7	36.6	57.2
	13.00	251	16.3	25.2	82.4
	14.00	33	2.1	3.3	85.7
	16.00	111	7.2	11.1	96.8
	18.00	28	1.8	2.8	99.6
	20.00	4	.3	.4	100.0
	Total	998	64.8	100.0	
Missing	System	541	35.2		
Total		1539	100.0		

mes21d mother completed HS, child age 21, from adult suvey, asq113

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	206	13.4	20.6	20.6
	1.00	792	51.5	79.4	100.0
	Total	998	64.8	100.0	
Missing	System	541	35.2		
Total		1539	100.0		

me17yr mother education in years, child age 17+ (includes adult survey data)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	6.00	3	.2	.2	.2
	8.00	47	3.1	3.6	3.9
	10.00	215	14.0	16.6	20.4
	12.00	391	25.4	30.1	50.5
	13.00	352	22.9	27.1	77.7
	14.00	53	3.4	4.1	81.7
	15.00	2	.1	.2	81.9
	16.00	163	10.6	12.6	94.5
	18.00	60	3.9	4.6	99.1
	20.00	12	.8	.9	100.0
	Total	1298	84.3	100.0	
Missing	System	241	15.7		
Total		1539	100.0		

mnhs17 Mother did not complete HS, child age 17+, based on me17yr

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	1033	67.1	79.6	79.6
	1.00	265	17.2	20.4	100.0
	Total	1298	84.3	100.0	
Missing	System	241	15.7		
Total		1539	100.0		

me17yrr Maternal education in years by child age 17+, risk variable, if missing use me12yr, me8yr, me03yr

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	6.00	12	.8	.8	.8
	7.00	1	.1	.1	.9
	8.00	51	3.3	3.4	4.2
	9.00	6	.4	.4	4.6
	10.00	299	19.4	19.7	24.3
	11.00	14	.9	.9	25.2
	12.00	462	30.0	30.4	55.6
	13.00	375	24.4	24.7	80.2
	14.00	57	3.7	3.7	84.0
	15.00	2	.1	.1	84.1
	16.00	167	10.9	11.0	95.1
	17.00	2	.1	.1	95.2
	18.00	60	3.9	3.9	99.1
	19.00	1	.1	.1	99.2
	20.00	12	.8	.8	100.0
	Total	1521	98.8	100.0	
Missing	System	18	1.2		
Total		1539	100.0		

**mnhs17r mother did not complete HS, child age 17+, risk variable,
based on me17yrr**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	1138	73.9	74.8	74.8
	1.00	383	24.9	25.2	100.0
	Total	1521	98.8	100.0	
Missing	System	18	1.2		
Total		1539	100.0		

mnhs17i Imputed, mother did not complete HS, child age 17

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	1150	74.7	74.7	74.7
	1.00	389	25.3	25.3	100.0
	Total	1539	100.0	100.0	

Child age 8 to 12

medu812m Child age 8 to 12 mother edu data sources

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 only report available is from p46	56	3.6	4.3	4.3
	2.00 only report available from ch12yr	1	.1	.1	4.4
	3.00 only report available from p2	57	3.7	4.4	8.8
	4.00 report from all data sources equal	532	34.6	41.2	50.0
	5.00 only report available from p11 retro	67	4.4	5.2	55.2
	6.00 only report available is from CH 19920101	80	5.2	6.2	61.4
	7.00 inconsistant, max from p46	260	16.9	20.1	81.6
	8.00 inconsistant, max from p11retro	108	7.0	8.4	89.9
	9.00 inconsistant, max from ch12yr	68	4.4	5.3	95.2
	10.00 inconsistant, max from p2	44	2.9	3.4	98.6
	11.00 inconsistant, max from ch8yr	18	1.2	1.4	100.0
Total		1291	83.9	100.0	
Missing	System	248	16.1		
Total		1539	100.0		

nmed812 Number of maternal education indicator, child ages 8 to 12

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00	261	17.0	20.2	20.2
	2.00	372	24.2	28.8	49.0
	3.00	333	21.6	25.8	74.8
	4.00	235	15.3	18.2	93.0
	5.00	90	5.8	7.0	100.0
Total		1291	83.9	100.0	
Missing	System	248	16.1		
Total		1539	100.0		

me812yr Maternal education in years, child age 12

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	6.00	8	.5	.6	.6
	8.00	22	1.4	1.7	2.3
	10.00	451	29.3	34.9	37.3
	12.00	437	28.4	33.8	71.1
	13.00	306	19.9	23.7	94.8
	14.00	12	.8	.9	95.7
	16.00	39	2.5	3.0	98.8
	17.00	8	.5	.6	99.4
	19.00	8	.5	.6	100.0
	Total	1291	83.9	100.0	
Missing	System	248	16.1		
Total		1539	100.0		

mnhs812 Mother did not complete HS, child age 12, based on me812yr

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	810	52.6	62.7	62.7
	1.00	481	31.3	37.3	100.0
	Total	1291	83.9	100.0	
Missing	System	248	16.1		
Total		1539	100.0		

me812yrr Maternal education in years, child age 12, risk variable, if missing use me03yr

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	6.00	29	1.9	1.9	1.9
	7.00	2	.1	.1	2.1
	8.00	28	1.8	1.9	3.9
	9.00	11	.7	.7	4.6
	10.00	484	31.4	32.0	36.6
	11.00	38	2.5	2.5	39.2
	12.00	507	32.9	33.5	72.7
	13.00	322	20.9	21.3	94.0
	14.00	27	1.8	1.8	95.8
	15.00	3	.2	.2	96.0
	16.00	41	2.7	2.7	98.7
	17.00	12	.8	.8	99.5
	19.00	8	.5	.5	100.0
	Total	1512	98.2	100.0	
Missing	System	27	1.8		
Total		1539	100.0		

**mnhs812r Mother did not complete HS, child age 12, risk variable,
based on me812yrr**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	920	59.8	60.8	60.8
	1.00	592	38.5	39.2	100.0
	Total	1512	98.2	100.0	
Missing	System	27	1.8		
Total		1539	100.0		

Child age 12 to 21

med1217m child age 12 to 17 mother education measures

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 data available from parent survey only	11	.7	.8	.8
	2.00 data available from ch17yr only	2	.1	.1	.9
	3.00 data available from s10 only	30	1.9	2.2	3.1
	4.00 data available from adult survey only	149	9.7	10.8	13.9
	5.00 data available from p46 parent survey only	32	2.1	2.3	16.2
	6.00 data available from ch12yr only	38	2.5	2.7	18.9
	7.00 consistent, edu reports same in 2 or more sources	343	22.3	24.8	43.7
	8.00 inconsistent, max from p11	54	3.5	3.9	47.6
	9.00 inconsistent, max from s10	197	12.8	14.2	61.8
	10.00 inconsistent, max from ch17yr	13	.8	.9	62.7
	11.00 inconsistent, max from adult survey	323	21.0	23.3	86.1
	12.00 inconsistent, max from p46	133	8.6	9.6	95.7
	13.00 inconsistent, max from ch12yr	60	3.9	4.3	100.0
	Total	1385	90.0	100.0	
Missing	System	154	10.0		
Total		1539	100.0		

**nmed1217 Number of maternal education indicator, child ages
12 to 17+**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	154	10.0	10.0	10.0
	1.00	262	17.0	17.0	27.0
	2.00	281	18.3	18.3	45.3
	3.00	331	21.5	21.5	66.8
	4.00	289	18.8	18.8	85.6
	5.00	142	9.2	9.2	94.8
	6.00	80	5.2	5.2	100.0
Total		1539	100.0	100.0	

me1217yr mother education in years, child age 12 to 17+

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	6.00	2	.1	.1	.1
	8.00	37	2.4	2.7	2.8
	10.00	240	15.6	17.3	20.1
	12.00	401	26.1	29.0	49.1
	13.00	397	25.8	28.7	77.8
	14.00	51	3.3	3.7	81.4
	15.00	2	.1	.1	81.6
	16.00	173	11.2	12.5	94.1
	17.00	4	.3	.3	94.4
	18.00	58	3.8	4.2	98.6
	19.00	8	.5	.6	99.1
	20.00	12	.8	.9	100.0
	Total	1385	90.0	100.0	
Missing	System	154	10.0		
Total		1539	100.0		

mnhs1217 mother did not complete HS, child age 12 to 17+, based on me1217yr

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	1106	71.9	79.9	79.9
	1.00	279	18.1	20.1	100.0
	Total	1385	90.0	100.0	
Missing	System	154	10.0		
Total		1539	100.0		

m1217yrr mother education in years, child age 12 to 17+, if missing use me8yr

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	6.00	2	.1	.1	.1
	8.00	38	2.5	2.6	2.8
	10.00	271	17.6	18.8	21.6
	12.00	421	27.4	29.3	50.9
	13.00	398	25.9	27.7	78.6
	14.00	51	3.3	3.5	82.1
	15.00	2	.1	.1	82.3
	16.00	173	11.2	12.0	94.3
	17.00	4	.3	.3	94.6
	18.00	58	3.8	4.0	98.6
	19.00	8	.5	.6	99.2
	20.00	12	.8	.8	100.0
	Total	1438	93.4	100.0	
Missing	System	101	6.6		
Total		1539	100.0		

nhs1217r mother did not complete HS grad, child age 12 to 17+,
based on m1217yrr

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	1127	73.2	78.4	78.4
	1.00	311	20.2	21.6	100.0
	Total	1438	93.4	100.0	
Missing	System	101	6.6		
Total		1539	100.0		

Appendix 3

Maternal employment

Filename: Motheremployment02162005

Child ages 0 to 3

memp03m Mother employment data sources 0 to 3, prediction

	Freq	Pct	Valid Percent	Cum Percent
1.00 mother employment from p11 retro	639	41.5	52.9	52.9
2.00 mother emp[loyment from p4	192	12.5	15.9	68.8
3.00 data from workexp (>1 = emp, <=1 = not emp)	377	24.5	31.2	100.0
Total	1208	78.5	100.0	
Miss System	331	21.5		
Total	1539	100.0		

memp03p Mother employed full/part time, child age 0 to 3, prediction

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid .00	746	48.5	61.8	61.8
1.00	462	30.0	38.2	100.0
Total	1208	78.5	100.0	
Missing System	331	21.5		
Total	1539	100.0		

mnemp03p Mother not employed full/part time, child age 0 to 3, prediction

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid .00	462	30.0	38.2	38.2
1.00	746	48.5	61.8	100.0
Total	1208	78.5	100.0	
Missing System	331	21.5		
Total	1539	100.0		

mnemp03r Mother not employed full/part time, child age 0 to 3, risk

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid .00	498	32.4	37.1	37.1
1.00	844	54.8	62.9	100.0
Total	1342	87.2	100.0	
Missing System	197	12.8		
Total	1539	100.0		

mnemp03i Imputed, Mother not employed full/part time, child age 0 to 3, risk + imputation

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid .00	518	33.7	33.7	33.7
1.00	1021	66.3	66.3	100.0
Total	1539	100.0	100.0	

Child age 8

mempm8 Mother employment data sources, child age 8, prediction

	Freq	Pct	Valid Percent	Cum Percent
1.00 mother employment from p11 retro	150	9.7	12.4	12.4
2.00 mother emp[loyment from p4	414	26.9	34.3	46.7
3.00 data from workexp (>1 = emp, <=1 = not emp)	644	41.8	53.3	100.0
Total	1208	78.5	100.0	
Miss System	331	21.5		
Total	1539	100.0		

wrkex8 Work experience 19890201

	Freq	Pct	Valid Percent	Cumulative Percent
Valid 0 Insufficient attachment to labor force	9	.6	1.0	1.0
1 No work experience	408	26.5	44.4	45.4
2 Professional, Technical	12	.8	1.3	46.7
4 Clerical	111	7.2	12.1	58.8
5 Sales	23	1.5	2.5	61.3
6 Craftsman, Foreman	4	.3	.4	61.8
7 Operatives	49	3.2	5.3	67.1
8 Service	166	10.8	18.1	85.2
9 Farm and Other Labor	136	8.8	14.8	100.0
Total	918	59.6	100.0	
Missing System	621	40.4		
Total	1539	100.0		

nwork8d no prior work experience, public aid, 19890201

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid .00 no	501	32.6	54.6	54.6
1.00 yes	417	27.1	45.4	100.0
Total	918	59.6	100.0	
Missing System	621	40.4		
Total	1539	100.0		

memp8p Mother employed full/part time, child age 8, prediction

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid .00	609	39.6	50.4	50.4
1.00	599	38.9	49.6	100.0
Total	1208	78.5	100.0	
Missing System	331	21.5		
Total	1539	100.0		

mnemp8p Mother not employed full/part time, child age 8, prediction

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid .00	599	38.9	49.6	49.6
1.00	609	39.6	50.4	100.0
Total	1208	78.5	100.0	
Missing System	331	21.5		
Total	1539	100.0		

mnemp8r Mother not employed full/part time, child age 8, risk

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	672	43.7	47.8	47.8
	1.00	735	47.8	52.2	100.0
	Total	1407	91.4	100.0	
Missing	System	132	8.6		
Total		1539	100.0		

Mnemp8i Imputed, Mother not employed full/part time, child age 8, risk + imputation

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	732	47.6	47.6	47.6
	1.00	807	52.4	52.4	100.0
	Total	1539	100.0	100.0	

Child age 12

mempm12 Mother employment data sources, child age 12, prediction

		Freq	Pct	Valid Percent	Cumulative Percent
Valid	1.00 mother employment comes from p46	641	41.7	50.8	50.8
	2.00 mother employment comes from workexp92, >1 =emp, <=1 = no em	382	24.8	30.2	81.0
	3.00 mother employment comes from any income 93-94 school lunch	240	15.6	19.0	100.0
	Total	1263	82.1	100.0	
Miss	System	276	17.9		
Total		1539	100.0		

wrkex12 Work experience 19920201

		Freq	Pct	Valid Percent	Cumulative Percent
Valid	0 Insufficient attachment to labor force	120	7.8	16.5	16.5
	1 No work experience	278	18.1	38.2	54.7
	2 Professional, Technical	8	.5	1.1	55.8
	4 Clerical	65	4.2	8.9	64.8
	5 Sales	12	.8	1.7	66.4
	6 Craftsman, Foreman	4	.3	.6	67.0
	7 Operatives	24	1.6	3.3	70.3
	8 Service	120	7.8	16.5	86.8
	9 Farm and Other Labor	96	6.2	13.2	100.0
	Total	727	47.2	100.0	
Miss	System	812	52.8		
Total		1539	100.0		

nwork12d no prior work experience, public aid, 19920201

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00 no	329	21.4	45.3	45.3
	1.00 yes	398	25.9	54.7	100.0
	Total	727	47.2	100.0	
Missing	System	812	52.8		
Total		1539	100.0		

memp12p Mother employed full/part time, child age 12, prediction

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	695	45.2	55.0	55.0
	1.00	568	36.9	45.0	100.0
	Total	1263	82.1	100.0	
Missing	System	276	17.9		
Total		1539	100.0		

mnemp12p Mother not employed full/part time, child age 12, prediction

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	568	36.9	45.0	45.0
	1.00	695	45.2	55.0	100.0
	Total	1263	82.1	100.0	
Missing	System	276	17.9		
Total		1539	100.0		

mnemp12r Mother not employed full/part time, child age 12, risk

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	712	46.3	49.7	49.7
	1.00	721	46.8	50.3	100.0
	Total	1433	93.1	100.0	
Missing	System	106	6.9		
Total		1539	100.0		

mnemp12i Imputed, Mother not employed full/part time, child age 12, risk + imputation

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	716	46.5	46.5	46.5
	1.00	823	53.5	53.5	100.0
	Total	1539	100.0	100.0	

Child age 17

mempm17 Mother employment data sources, child age 17, prediction

	Freq	Pct	Valid Percent	Cumulative Percent
Valid 1.00 mother employment comes from p11 non retro	629	40.9	45.6	45.6
2.00 mother employment comes from s10	248	16.1	18.0	63.6
3.00 mother employment comes from any income school lunch records	503	32.7	36.4	100.0
Total	1380	89.7	100.0	
Miss System	159	10.3		
Total	1539	100.0		

wrkex17 work experience 19960201

	Freq	Pct	Valid Percent	Cumulative Percent
Valid 0 Insufficient attachment to labor force	113	7.3	46.5	46.5
1 No work experience	51	3.3	21.0	67.5
2 Professional, Technical	3	.2	1.2	68.7
4 Clerical	13	.8	5.3	74.1
5 Sales	4	.3	1.6	75.7
6 Craftsman, Foreman	1	.1	.4	76.1
7 Operatives	6	.4	2.5	78.6
8 Service	29	1.9	11.9	90.5
9 Farm and Other Labor	23	1.5	9.5	100.0
Total	243	15.8	100.0	
Miss System	1296	84.2		
Total	1539	100.0		

nwork17d no prior work experience, public aid, 19960201

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid .00 no	79	5.1	32.5	32.5
1.00 yes	164	10.7	67.5	100.0
Total	243	15.8	100.0	
Missing System	1296	84.2		
Total	1539	100.0		

memp17p Mother employed full/part time, child age 17, prediction

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid .00	668	43.4	48.4	48.4
1.00	712	46.3	51.6	100.0
Total	1380	89.7	100.0	
Missing System	159	10.3		
Total	1539	100.0		

mnemp17p Mother not employed full/part time, child age 17, prediction

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	712	46.3	51.6	51.6
	1.00	668	43.4	48.4	100.0
	Total	1380	89.7	100.0	
Missing	System	159	10.3		
Total		1539	100.0		

mnemp17r Mother not employed full/part time, child age 17, risk

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	807	52.4	54.3	54.3
	1.00	679	44.1	45.7	100.0
	Total	1486	96.6	100.0	
Missing	System	53	3.4		
Total		1539	100.0		

mnemp17i Imputed, Mother not employed full/part time, child age 17, risk + imputation

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	854	55.5	55.5	55.5
	1.00	685	44.5	44.5	100.0
	Total	1539	100.0	100.0	