# NUTRITION CRSP

## BASIC DATA SET

September 1984

Berkeley, California

Project # 931-1309

# Preface

The materials assembled here provide a complete set of current information on the CRSP Basic Data Set. Included here are:

1. The memorandum of the Management Entity of June 20, 1984 which defined the Basic Data Set.
2. Tables specifying Basic Data Set measures and frequency of collection; and preliminary lists of Common and Project-Specific data.
3. Schedules for the Basic Data Set collection.
4. Basic Variables Lists

Variables lists contained here replace those previously circulated in the Data Management Manual of September 1983 and the revised Manual of May 1984. Other materials included in the Data Management Manual on creating SAS files, on quality control, and on data flow are still in effect.

Following the September 1984 SCB and EEP meetings, any additional design deviations which affect the collection and handling of Common and Project-Specific Data will be prepared and circulated. Until that time, projects should prepare all non-Basic Data for submission to the Management Entity in SAS format according to the Data Management Manual or in raw format with complete documentation.

September 7, 1984
Berkeley, California

BASIC DATA SET

Table of Contents

# Basic Data Set

From among the variables already adopted or planned for implementation, a list of basic variables that constitute an absolute minimum for the examination of a set of the hypotheses included in the SCB-and EEP-approved design have been selected. These variables will be collected by all projects and will be subject to interproject analyses at the completion of the Nutrition CRSP. These variables are identified in the attached table of Basic Variables.

Referring to "Revised Research Design - Phase II," June, 1983, the Basic Variables are selected to be minimally adequate to examine the following hypotheses:

- IA Maternal intake during pregnancy and lactation influences the infant's endowment at birth and development during the first six months of breast feeding (page 11)
- IB Maternal intake influences maternal child care and sanitation practices in relation to the infant (page 11)
- IIA Food intake of the toddler during the period from 18 months until 30 months affects the toddler's morbidity, body weight, and psychological development (page 19)
- IIB Maternal intake during this period (toddler's age 18 to 30 months) affects maternal child care and sanitation practices (page 19)
- Added Maternal intake affects maternal child care and sanitation practices in the household (not necessarily referred to a target child)
- IVA (Variant) Food intake of women influences their morbidity and their allocation of time across normal activities (page 23)
- Added Male usage of food influences food intake by target individuals
- Added Male intake of food influences allocation of time to normal activities (for males based in household)
- V In adults a reduction of RMR provides a major path of adaptation in maintaining energy balance (page 25)
- VI Household food intake affects household morbidity (page 26)
- Added Household food intake, household anthropometry, adult time allocation and seasonal agricultural or other cycles are interrelated in the maintenance of long term energy equilibrium.

The basic list of variables omits the possibility of examining the original hypothesis about school age children, viz,

IIIA Food intake of the 7 to 9 year old child affects his/her morbidity and behavior, including such behaviors as school performance.

It is expected that one or more of the projects will choose to retain the ability to examine this hypothesis. In the event that a project so elects, the variables identified in Basic Variables, Supplementary List will be collected and submitted to Management as potentially available for inter-project analyses.

Beyond the Basic Variables and Basic Variables, Supplementary List it is to be expected that the projects will continue to measure most of the variables now being measured in common. If so, these will be managed as potential interproject analyses files. However, projects may elect to delete these variables or to add other variables, subject to presentation of a hypothesis and supporting research design that concerns the relationship of food intake of one or members of the household to an area of function, consistent with the original intent of the Nutrition CRSP. The relevance and scientific merit of the design would be subject to review by SCB, by EEP and by AID. All data collected under such designs will be copied to Berkeley on the same schedule as the above data. For the above data set, and for variables that are measured in two or more projects (Common Variables) data files will be established and will be made available for potential interproject analyses. Data unique to a single project (Project-specifc Data Set) will be stored archivally for eventual transfer to AID.

# BASIC VARIABLES[1] LIST

## Community Description

Community descriptions based upon Phase I data collections will be submitted by each project. These descriptions shall be reviewed and updated to reflect significant community changes at approximately one year intervals

| | | |
|---|---|---|
| Climatic date | Average rainfall | Monthly |
| | Average noon temperature | Monthly |
| | Barometric pressure, each research site | Once only |

## Household Data

| | | |
|---|---|---|
| Household entry data (as defined in variable list) | | At entry |
| Household demography | | At entry + 3 month updates |
| Household Social and Economic Measures[2] | | At entry and exit |
| Disabilities and Chronic Illness in Household | | At entry & 3 month update |
| Anthropometry (nontarget): | Height | Once |
| | Weight | Twice, by season[3] |
| Household Food Use | | 2 days/month |
| Household Morbidity | | Weekly recall |

## Lead Female

| | | |
|---|---|---|
| Reproductive history | | At entry |
| Physical Assessment of Nutrition and Pregnancy Related Variables | | At entry, 5th, 8th month pregnancy, a delivery, 6 months postpartum, at exi |
| Pregnancy/lactation status | | Monthly |
| Anthropometry, | Weight | Monthly |
| | Height | Twice when not pregnant |
| Food Intake | | 2 days/month |
| Morbidity | | Weekly recall |
| Illness Disability and Task Assignment Subroutine[4a] | | As indicated |
| RMR - | nonpregnant, nonlactating target | Every 3 months |
| - | pregnant | 5th, 8th month |
| - | lactating | 1st, 4th month, and at exit |
| Sanitation and Child Care Activities[5] | | Monthly |
| Blood analyses, pregnancy only - IgG, albumin, hemoglobin | | 8th month |
| Milk analyses - | secretory IgA, IgG | Day 1-3, 1, 3 and 6 months |
| Time Allocation[6] | | Monthly |

| | |
|---|---|
| **Lead Female - contd.** | |
| Psychology[7] - Ravens Matrices | Once |
| - WAIS (Subscales) | Once |
| **Lead Male** | |
| Food Intake - use of household food on same days as other individuals (not necessarily total intake) | 2 days/week |
| Anthropometry - Weight | Monthly |
| - Height | Twice |
| Morbidity | Weekly recall |
| RMR | Every 3 months |
| Time allocation[6] | Monthly |
| Psychology[7] - Ravens Matrices | Once |
| - WAIS (Subscales) | Once |
| **Infant (from Target Pregnancy)** | |
| Food Intake (if breast fed, quantitative estimate of supplementary food intake; otherwise estimate of total intake | 2 days/month |
| Anthropometry - length, weight, head circumference, arm circumference | Monthly |
| Morbidity | Weekly recall |
| Dubowitz Scale (first edition) | Within 3 days |
| Physical assessment - birth condition | At birth |
| - nutrition-related variables | 6 months |
| Psychology[7] - Brazelton | 1-7 days |
| - Bayley Motor Scale | 6 months |
| - Infant Behavior Record | 6 months |
| - Observation of caretaker and child | 3, 6 months |
| **Target Toddler - 18 to 30 months** | |
| Food Intake (by observation or combination of observation and reporting) | 2 days/month |
| Anthropometry - length, weight, arm circumference, head circumference | Monthly |
| Physical Assessment of Nutrtion Related Variables | Entry and exit |
| Physical Assessment of Vision and Hearing | Entry and exit |
| Morbidity | Weekly recall |
| Morbidity subroutine[4b] | As indicated |
| Psychology[7] - Bayley Mental Scale | 18, 24, 30 months |
| - Bayley Motor Scale | 18, 24, 30 months |
| - Bayley Infant Behavior Record | 18, 24, 30 months |
| - Observation of Caretaker and Child | 18, 24, 30 months |

## Explanatory Footnotes

1 Minimal list of variables that will be collected by all projects and which, as a minimum, will be subjected to inter-project analyses

2 Each project will report variables collected and will specify how these are to be weighted and combined to yield a classification of households on a Social Scale and on an Economic Scale appropriate to the community. The original variables will be stored centrally.

3 To correspond to seasons of "plenty" and "want" as appropriate to each project.

4a Illness Disability and Task Assignment Subroutine: Every three days during illness, current and retrospective data concerning degree of disability in performance of normal tasks and identification of task assignments to others. For this purpose, illness is deemed to end when there has been no reported disability for three consecutive days.

4b Morbidity Subroutine: (for all illnesses detected as starting within 24 hours prior to weekly visit except: localized skin lesions, minor trauma, conjunctivitis, pains of less than 1 day duration, headache. If upper respiratory tract infection, there shall be an automatic visit next day to determine whether illness continues; if so follow as per schedule.) Subroutine to include: revisit every 3 days until recovery and record state of illness (diagnosis and severity indicators), weight (initial, 3 days, and at recovery), quantitative one day intake (recall of past 24 hours) by report of care-giver. Recovery is defined as three consecutive days without symptoms (2 recall + current observation)

5 Sanitation and Child Care Activities (of lead female): These variables will be collected by all projects. Management strongly recommends that the instrument be a modification of that presented by the Egypt project and involving 2 x 2 hours of observation per month during which both Sanitation Activities and Child Care Activities would be recorded and reported. For the latter, the children for whom care is being given will be recorded. The variable could have a 0 time response for these activities.

BASIC VARIABLES, Contd.

p. 4

Explanatory Footnotes - contd.

6 All projects have agreed to collect this information in Year 2. Management strongly recommends that the recall approach developed by Mexico and the categorization framework developed by Kenya be adapted for use in all projects. Each project will identify and report the specific variables recorded as well as the method by which they are to be aggregated into the Kenya composite descriptors.

7 Psychological Tests: Individual projects may use culturally appropriate subscales and/or different numbers of components of the tests. The projects will report the actual variables recorded and the weighting factors and groupings to be used in deriving a composite rating/score for the test.

## BASIC VARIABLES, SUPPLEMENTARY LIST [1]

School Age Target Child (7-10 years)

| | | |
|---|---|---|
| Food Intake | | 2 days/month |
| Anthropometry | - Height, head circumference | Entry and exit |
| | - Weight, arm circumference | Every 3 months |
| Morbidity | | Weekly recall |
| School attendance (days present/days of school) | | Monthly |
| Psychology [2] | - WISC-R (Subscales) | Entry and exit |
| | - Ravens Matrices | Entry and exit |
| | - Barrett-Yarrow-Klein Classroom observation | Twice during school year |
| Physical assessment of vision and hearing | | Entry and exit |

[1] These variables are to be measured if projects retain school age children in their country project design

[2] Psychological tests: Individual projects may use culturally appropriate subscales and/or different numbers of components of the tests. The projects will report the actual variables recorded and weighting factors and groupings for derivation of a composite rating/score for each test.

DHC/GB
6/84

## Summary of Protocols

In the following pages we summarize the methods and frequency of collection of all measures included in the Basic Data Set. We also indicate measures which are included in the Common and Project-Specific Data Sets at this writing (9/6/84). When revisions are made for Common and Project-Specific Data, portions of these tables will be revised.

Included here are the following summaries of protocols:



Earlier versions of these tables were circulated to the projects. The present tables were revised on August 17, 1984.

Table 1

Summary of Food Intake Protocol

| Target Subject | Frequency | Method |
|---|---|---|
| | BASIC DATA SET | |
| Household | 2d/mo to coincide with 24-hr intakes of target S's | Method as per SCB 5/84: all food consumed by HH members from HH supply [a] |
| Lead Male | 2d/mo | Included in HH measurement only* |
| Lead Female | 2d/mo | 2-24 hr intakes by recall and weighing |
| Toddler | 2d/mo | 2-24 hr intakes reported by mother (or alternate care-giver) and/or by direct observation |
| Toddler | Illness, days 1,3,7,14.... | 24-hr recall by mother (or alternative care-giver) |
| Infant | 2d/mo* | 2-24 hr reports of supplementary feeding by mother (or alternative care-giver). If not breast-fed, mother's (or alternative care-giver) report of total food intake* [b] |
| | BASIC SUPPLEMENT | |
| Schooler | 2d/mo | 2-24 hr intakes, self-report and mother's (or alternative care-giver) recall |
| | COMMON DATA SET | |
| Lead Male<br>" " (M,K) | Illness, every 1,3,7,14... days* Total 24-hr intake | Qualitative, 5-point scale (SCB 5/84)* [c] Recall + observation |
| Lead Female | Illness, every 1,3,7,14... days* | Qualitative, 5-point scale (SCB 5/84)* [c] Recall + observation |
| Schooler | Illness, every 1,3,7,14... days* | Qualitative 5-point scale (SCB 5/84)* [c] Recall + observation |
| Infant | Illness, every 1,3,7,14... days* | Qualitative 5-point scale (SCB 5/84)* [c] Recall + observation |

Table 1
(Continued)

PROJECT-SPECIFIC DATA**

| | | |
|---|---|---|
| Household-Mexico current (M1) | 1/mo | 7-day recall of food purchased, sold, gathered, given and corn-milling record, to yield Household food consumption and price data. |
| Household-Egypt proposed (E1) | 3/yr | Pattern of consumption of 'core' and 'ceremonial' foods and beverages, and contribution of each to total energy intake. |
| Illness-Egypt proposed (E3) | q3d | Intake quantitative-all targets. |
| Household-Kenya proposed | 2d/mo | Foods eaten outside the household by target individuals. |

*Method or frequency changed from Phase II core; deletions are not shown

**Items to be reviewed by SCB

[a] Total kcal and g. prot, fat, carb to be reported pending definition of consumer units. Please see attached

[b] Please see variables list attached

[c] 1 = no change 2 = decrease in fluid and solid intake 3 = caloric fluids only
4 = noncaloric fluids only 5 = nothing by mouth

Table 1A

Reporting Household food consumption, BASIC DATA SET

1. Record, each day

| Consumers | | Number at[a] Meal 1 | Meal 2 | Meal 3 | Meal 4 | etc. |
|---|---|---|---|---|---|---|
| Male - lead | | | | | | |
| Male, other | 50+ yr | | | | | |
| | 18-49.99 yr | | | | | |
| | 12-17.99 yr | | | | | |
| | 7-11.99 yr [b] | | | | | |
| Female - lead | | | | | | |
| Females, other [c] | 50+ yr | | | | | |
| | 18-49.99 yr | | | | | |
| | 12-17.99 yr | | | | | |
| | 7-11.99 yr | | | | | |
| | 4-6.99 yr | | | | | |
| Children | 4-6.99 yr | | | | | |
| Target toddler | 1 1/2 - 2 1/2 yr. | | | | | |
| Children, other | 1 - 3.99 yr | | | | | |
| Target infant | 0 - 1/2 yr | | | | | |
| Infants, other | 0 - 0.99 yr | | | | | |

2. Summarized "Meals" for each day

   Consumed all meals = 1.0 per person
   Consumed some meals, list as fraction, 1/2, 2/3, etc.
   Example: HH had three meals. Of three 12-17.99 yr males in HH, one ate all meals (1.0), one ate two meals in HH and carried lunch (1.0), one ate two meals only (2/3 or 0.67). Total for age/sex category is 2.67.

3. Convert HH intake to amount per consumer unit. SCB must now decide which of several alternative methods will be used to calculate consumer units [d]

[a] Includes food prepared from household supply and eaten away from home. Meal is an organized eating event and may vary from one to several on a given day.

[b] List target schooler separately for BASIC SUPPLEMENT

[c] Identify number of pregnant women for later calculation of consumer uints. Lactating women do not need to be identified as allowance will be made for infant.

[d] See next page

Table 1A
(Continued)

[d] Some Possible Approaches to Definition of "Consumer Units"

Definitional Options

1. Determine the average anthropometric descriptor for individuals of the age/sex range specified for the community under study (will come out of anthropometric data analysis).

   On the basis of that average anthropometry, calculate mean energy requirements for "moderate activity" according to FAO/WHO/UNU report (not yet published but available from UCB). Assign weights to the class of individual on the basis of relative energy requirement calculated in this manner, giving weight 1 to a reference man (25-30 years old, moderately active).

2. On the basis of average anthropometry for the community and predicted BMR (using regression equations of the FAO/WHO/UNU report), assign relative weights to the classes of individuals as above.

3. On the basis of predicted BMR adjusted for any systematic difference between observed BMR (RMR) and predicted BMR (RMR), proceed as above.

4. Using actual anthropometry of the individuals in the particular household proceed with either the calculation of energy requirement or BMR and weighting as above.

5. Using actual BMR where available and predicted BMR when measured value is not available, proceed with weighting.

Analytic Options

1. Household energy consumption per "consumer unit" is the conventional research variable, with 1.0 CU defined as the energy requirement of a 25-30 year-old moderately active male. The variable would be computed as:

$$\frac{\text{HH energy consumption (kcal/d)}}{\text{HH consumer units (adjusted for missed meals)}} \rightarrow \text{kcal/CU}$$

2. Alternatively, "HH requirement" could be total BMR. The research variable would be computed as:

$$\frac{\text{HH energy consumption (kcal/d)}}{\text{HH BMR (kcal/d) (adjusted for missed meals)}} \rightarrow \text{multiples of BMR}$$

Table 2

Summary of Anthropometry Protocol

| Measure | Subject | | | | | | |
|---|---|---|---|---|---|---|---|
| | All targets | Lead Male | Lead Female | Infant | Toddler | Schooler | All oth HH |
| **BASIC DATA SET & BASIC SUPPLEMENT** | | | | | | | |
| Body weight | 1/mo | | | Illness, 1st, 3rd, 7th day, weekly if over 1 week and last day* | | | 2/yr*by season [a] |
| Height or length | | twice | twice | 1/mo | 1/mo | 1/3 mo* | Once |
| Arm circumference | | | | 1/mo | 1/mo | 1/3 mo* | |
| Head circumference | | | | 1/mo | 1/mo | 1st & 12th mo* | |
| **COMMON DATA SET** | | | | | | | |
| Head circumference | | twice | twice | | | | |
| Arm circumference | | 1/3 mo | 1/3 mo | | | | |
| Skinfold - biceps | | 1/3 mo | 1/3 mo | 1/mo | 1/3 mo | 1/3 mo | |
| triceps | | 1/3 mo | 1/3 mo | 1/mo | 1/3 mo | 1/3 mo | |
| subscapular(K,M only*) | | 1/3 mo | 1/3 mo | 1/mo | 1/3 mo | 1/3 mo | |
| Body weight | Illness 1st, 3rd and last day, weekly if over 1 week | | | | | | |
| **PROJECT-SPECIFIC DATA SET**** | | | | | | | |
| Skinfolds - suprailiac | Kenya(K1)current | | 5th & 8th mopg & lactation(1,3,6 mos?) | | | | |
| -middorsal thigh, suprailiac | Kenya(K1)current | | 5th & 8th mopg & lactation(1,3,6 mos?) | | 1/mo | | |
| Anthropometric measures | Egypt(E4) | 1/mo | 1/mo | | 1/mo | 1/mo | |

[a] Once during 'hunger' period, once during period of 'plenty'.

* Method or frequency changed from Phase II core; deletions are not shown
**Items to be reviewed by SCB

Table 3

Summary of RMR Protocols

| Subject | BASIC DATA | Frequency |
|---|---|---|
| Lead Male | | every 3 mo |
| Lead Female | | every 3 mo |
| NPNL* | | |
| Pregnant | | 5th & 8th mo |
| Lactating | | 1st & 3rd mo, & 6th mo. |
| | COMMON DATA | |
| Schooler | | every 3 mo |

Table 3A

Variables to be reported:

Body temperature

Body weight, if measured concurrently

Height, if measured concurrently

Data from minutes 18, 19, 20 and 28, 29, 30 of respiration test

Oxygen consumption, ml/min STSP

Respiratory quotient

Heart rate

Resting metabolic rate, kcal/d
Resting metabolic rate, kcal/kg

*Women may be lactating (or become pregnant) but are entered in study as lead females of households having target toddler and/or schooler, rather than as target pregnancies. If the 5th or 8th months of NPNL pregnancy occur during the study, RMR measurements should be scheduled for these intervals.

Table 4

Medical and Reproductive Histories and Assessments
Including Immunology

| Measure | Subjects | | | | | | |
|---|---|---|---|---|---|---|---|
| | All Targets | Lead Male | Lead Female | Infant | Toddler | Schooler | b All oth HH mem |
| **BASIC DATA SET** | | | | | | | |
| History of disabilities, chronic cond. [a] | Entry | | | | | | Entry |
| Reproductive history | | | Entry | | | | |
| Physical examination | | | | | | | |
| Nutrition-related | | Entry & exit | Entry & exit; 5th & 8th-mopg delivery, 6 mo pp | 6 mo | Entry & exit | Entry & exit | |
| Vision and hearing | | | | | Entry & exit | Entry & exit | |
| Pregnancy related | | | Entry,5th & 8th mopg, 6 mo pp | | | | |
| Pregnancy outcome | | | Delivery | at birth | | | |
| Pregnancy/lactation status | | | | | | | |
| Conception survey | | | NPNL, every mo | | | | |
| Pregnancy Survey | | | Preg.,every mo | | | | |
| Lactation/infant feeding survey | | | Lact.,every mo | | | | |
| Laboratory assessment | | | | | | | |
| Hemoglobin | | | 8th mo pg. | | | | |
| Serum albumin | | | 8th mo pg. | | | | |
| Serum IgG | | | 8th mo pg. | | | | |
| Breast milk IgA, IgG | | | Days 1-3; 1, 3 and 6 mo lact. | | | | |

Table 4
(Continued)

| Measure | Subjects | | | | | |
|---|---|---|---|---|---|---|
| | All Targets | Lead Male | Lead Female | Infant | Toddler | Schooler |
| | | COMMON DATA SET[c] | | | | |
| Expanded clinical examination and history[d] | Entry & every 6 mo. | | | | | |
| Vision and hearing tests | | Once | Once | | | |
| Tonsilar size | | | | | every 6 mo | every 6 mo |
| Skin test, intradermal, PPD[e], Other[f] | Once<br>Once | | | | | |
| Laboratory assessment | | | | | | |
| Urine protein (semiquant) | | every 6 mo | NPNL every 6 mo PG 5th, 8th, Del, 6th mo pp | | | every 6 mo |
| Urine glucose (semiquant) | | every 6 mo | S a m e | | | every 6 mo |
| Urine ketones (semiquant) | | every 6 mo | S a m e | | | every 6 mo |
| Urine blood (semiquant) | | every 6 mo | S a m e | | | every 6 mo |
| Hemoglobin | | every 6 mo | NPNL 2/yr 5th mo pg, 6 mo pp | @ 6 mo | every 6 mo | every 6 mo |
| Hematocrit | | every 6 mo | Same + 8th mo pg | @ 6 mo | every 6 mo | every 6 mo |
| Serum ferritin | | every 6 mo | Same + 8th mo pg | @ 6 mo | every 6 mo | every 6 mo |
| Fecal parasites (E,K) | | every 6 mo | 5th & 8th mo pg every 6 mo NP | | every 6 mo | every 6 mo |
| Lymphocyte count | | Entry + 12 mo | Entry + 12 mo | K,E @ 6 mo | every(M,K) 6 mo | every(M,K) 6 mo |
| T- lymphocyte count | | Entry + 12 mo | Entry + 12 mo | K,E @ 6 mo | every(M,K) 6 mo | every(M,K) 6 mo |

Table 4
(Continued)

| Measure | Subjects | | | | | | |
|---|---|---|---|---|---|---|---|
| | All Targets | Lead Male | Lead Female | Infant | Toddler | Schooler | NT |
| Serum pre-albumin | | 2/yr | 2/yr | | 2/yr | 2/yr | |
| Serum albumin | | 2/yr | 2/yr | | 2/yr | 2/yr | |
| Serum complement | | 2/yr | 2/yr | | 2/yr | 2/yr | |
| Serum C-reactive protein | | 2/yr | 2/yr | | 2/yr | 2/yr | |
| Serum IgA, IgM, IgG (K,E only) | | every 6 mo | every 6 mo | | | | |
| Saliva IgA, IgG (all), lysozyme (K,E only) | | 2/yr | NPNL 2/yr<br>5th & 8 mo pg<br>& at delivery<br>6 mo lact(K,E) | @ 6 mo | 2/yr | 2/yr | |
| Breast milk lysozyme | | | Days 1-3, 1,3 and 6 mo pp | | | | |
| Serum zinc (E; K&M possible) | | 2/yr | NPNL 2/yr<br>5,8 mo pg,<br>6 mo pp | @ 6 mo | every 6 mo | every 6 mo | |
| **PROJECT-SPECIFIC DATA** | | | | | | | |
| Blood smears, malaria Dx (K) | Same schedule as other blood tests | | | | | | |
| Urine schistosomiasis Dx (E) | All targets every 6 mo | | | | | | ever 6 mo |
| Pertussis antibody titer, post-vac (K-2)[g] | | | | @ 6 mo | | | |
| Urine pH, specific gravity (E-2) | Same schedule as other urine tests | | | | | | |
| Skin test, (tetanus) 3rd antigen (K-3)[g] | | | | | | | |
| Skin tests, increased frequency (K-4)[g] | (concurrent with T-cells) | | | | | | |
| Breastmilk Zn (E5) | | | every mo. lact. | | | | |
| Urine gluc, prot, spgr etc. (E6) | | | every mo<br>Pg. & Lact | | | | |
| Ferritin,Hb,Hct,serum Zn (E7) | | | 1 mo pp | | | | |
| Hair Zn (E8) | | | 1 mo pp | | | | |

[a] History given by lead female (or self if competent and available) to include major chronic diseases (diabetes, cardiovascular, epilepsy, etc.) and disabilities (mental retardation, blindness, deafness, crippling, etc.) To serve as a descriptor of household and changes to capture new demands on resources. Changes will be extracted from routine morbidity data, to update every three months. See Table 4A.

[b] Basic Data Set includes schooler only it also included for food intake, morbidity and psychology.

[c] Some items may be added or additional test intervals in common to 2 projects. This is the minimum identifiable data set. Please report discrepancies to ME, especially as to scheduling.

[d] There may be a number of project-specific variables within this item. A list of these will be prepared when ME receives a complete set of revised forms from each project. Unless notified to the contrary, ME assumes that all projects will submit all items listed on version 2 of the clinical examination variables list, which was based on the Kenya form.

[e] Egypt is examining feces for ova and parasites every 6 mo, all targets except infant. It is not clear what Kenya and Mexico propose regarding adults.

[f] Kenya and Egypt are using Candida

[g] Subject to approval by SCB, EEP

Table 5

Morbidity Protocol

| Subject | Weekly Morbidity Recall[a] (today and past 6 days) | Illness subroutines (Days 1,3,7,14 Recovery)[b] Food intake | Qualitative Activity index (MDELACT) | Task assignment[c] |
|---|---|---|---|---|
| **BASIC DATA SET** | | | | |
| Non-target household memb. | ID illness only | | | |
| Lead Male | x | | x | x |
| Lead Female | x | | x | x |
| Toddler | x[(d)] | 24-hr recall by care-giver | x | |
| Infant | x | e | | |
| **BASIC SUPPLEMENT** | | | | |
| Schooler | x | | | |
| **COMMON DATA SET** | | | | |
| Lead Male | | Qualitative (MDELFOOD) | | |
| Lead Female | | " | | |
| Schooler | | " | | |

[a] Administered by physicians in Mexico and Egypt, aides in Kenya

[b] Also see anthropometry protocol

[c] Added variables after MDELACT, as appropriate to your project, to include:

i. Did you work outside of home (employment) since Dx or last visit?
1 = no change 2 = less hours/vigor 3 = unable to work

ii. Did you do farm work?

if 2 or 3: Did anyone also do/help with your work because you were ill?
1 = yes 2 = no if 1, who?

iii. Did you do household work?

if 2 or 3: Did anyone also do/help with your work because you were ill?

iv. Did you cook meals?

if 2 or 3: Did anyone also do/help with your work because you were ill?

v. Did you care for children?

if 2 or 3: Did anyone also do/help with your work because you were ill?

Table 5
(Continued)

[d]Added variables for toddler whose diagnosis is diarrhea on day of report, 3rd day and so forth until recovery.

Number of bowel movements in past 24-hr; stools liquid; stools bloody; stools foul-smelling.

[e]The monthly lactation form asks about infant feeding during common illnesses.

Table 6
Summary of Measures of Psychological Function

| Target Subject | Timing/Frequency | Method/Test |
|---|---|---|
| | BASIC DATA SET | |
| Lead Male and Female | Once | WAIS subscales* all to include:<br>Block design<br>Digit span<br>Ravens progressive matrices |
| Infant at Birth | 1-7 days, once | Brazelton Neonatal Assessment Scale (BNAS) |
| Infant | At 3, 6 months | Observations of caretaker and infant including physical contact, talking to infant, response to infant vocalization, amount of vocalization |
| | At 6 months | Bayley motor scale* |
| | At 6 months | Bayley Infant Behavior Record |
| Toddler | At 18,24,30 mos | Bayley Mental Scale* |
| | At 18,24,30 mos | Bayley Motor Scale* |
| | At 18,24,30 mos | Bayley Infant Behavior Record |
| | At 18,24,30 mos | Observation of caretaker and child including physical contact, carrying, adult vocalization to child, child vocalization, caretaker response to child. |
| | BASIC SUPPLEMENTARY DATA SET | |
| Schooler | Entry and exit | WISC-R subscales* all to include:<br>Block design<br>Digit span<br>Ravens progressive matrices |
| | Twice during school year | Barrett-Yarrow-Klein classroom observation |

*Individual projects may choose to use culturally appropriate subscales and/or different numbers of components of tests. Projects will report actual variables recorded and weighting factors and groupings for the construction of a composite rating/score for each test.

Table 6
(Psychological Function continued)

| Target Subject | Timing/Frequency | Method/Test |
|---|---|---|
| | COMMON DATA SET | |
| Infant | Birth - 6 months (timing to be described in more detail by projects) | Dimensions added to caretaker-child observations (# of persons in home, location, caretaker, active involvement by caretaker and infant, response to infant distress) (Egypt and Mexico) |
| | 6 months | Fagan test of infant novelty preference (Egypt, Kenya) |
| Toddler | At 18, 24, 30 mos | Toy play dimensions |
| Toddler | At 18, 24, 30 mos | Additional home observation dimension (location, # of persons in home, caretaker, response to distress) (Egypt, Kenya) |
| Adults | Once | Psychomotor Performance (Egypt, Mexico) |
| | PROJECT-SPECIFIC DATA SET | |
| Infant | Birth - 6 months | Additional dimensions of caretaker-child mother-infant face to face interaction (Kenya) |
| Toddler | At 18, 24, 30 mos | Additional home observation dimensions: touch child, child's emotional state (Kenya) |
| Toddler | At 18, 24, 30 mos | Uzgiris-Hunt Scales including object permanence means/ends, verbal imitation, schemes (Kenya) |
| Schooler | 2 times/year | Verbal meaning scale from the East African Test for children (Kenya) |
| | | Draw-a-person test (Kenya) |
| | | Free-call learning (Egypt) |
| | | Ravans impulsivity score (Egypt) |
| Adults | Once | Auditory Vigilance Test (Egypt)<br>Picture vocabulary Test (Mexico)<br>Proverbs (Egypt) |
| Adults | Once | Porteus Mazes (Mexico) |

Table 7

SANITARY ASPECTS OF THE ENVIRONMENT

BASIC DATA SET

| Measure | Frequency |
|---|---|
| Household Hygienic Adequacy Scale* | Every 3 months |

*To be constructed from appropriate measures at each field site. Each project will report all data collected in constructing the scale, as well as the method in its construction, and the score for each household.

PROJECT-SPECIFIC DATA SET

| | | |
|---|---|---|
| Mexico: | Quantitative measure of household contamination using floor swabs | Every 3 months |
| Egypt: | Bacteriological examination of household water supply by monthly samples from three households chosen randomly from the four sources of water supply in the village. Measures to be reported include volume, source, standard of plate count/ml of water, coli from colonies per ml of water, c. jejuni/coli per ml water. | Monthly |
| Kenya: | Proposes to do measures of water quality and household contamination not yet specified in detail, using Septi-stix for coliform count | |

Table 8

HOUSEHOLD DEMOGRAPHIC, SOCIAL, AND ECONOMIC MEASURES

| Measure | Frequency |
|---|---|
| **BASIC DATA SET** | |
| Household Demographic Measures* include: | Entry and 3 month updates |
| Household members present on their: | |
| Birth date, sex, marital status, education, occupation | |
| Characteristics of House** including: | Entry, exit |
| Type of dwelling | |
| Number of buildings | |
| Materials used for roof, walls, floors, windows, doors | |
| Quality of construction and condition of repair | |
| Type of kitchen, cooking facilities | |
| Lighting and cooking source | |
| Water source | |
| Toilet system | |
| Garbage disposal | |
| Score of Household Social Status*** | Entry, exit |
| Score of Household Economic Status** | |

*Some of these variables were included in earlier version of the Data Management Manual under "Demography" and some under "SES". Please note the location of the variables as revised here.

**There may be no variation in some of these variables (e.g. in Kenya all walls are made of mud) and therefore it will not be necessary to record information on such aspects of house construction. There may be a few additional variables (e.g. in Egypt, the presence of the entry room in the house is significant while in Mexico whether the house is plastered or painted); these few variables should be added to the description of housing.

***Two scales, one for social status and one for economic status, appropriate to each field project, will be constructed. All data used in constructing the scales will be submitted regularly as well as the method of constructing the scales. The computed score for each household will be reported regularly as well. Social or economic status will be reflected in this scale which will include when appropriate:

occupation and education of lead adults
assets including type of housing, land, animals, tools, and vehicles owned

Table 8 (Continued)

Social and Economic Measures

COMMON DATA SET

| | |
|---|---|
| Employment information: type of work and time employed | Every 3 months |
| Expenditures on food, housing, clothing, education, health care | Every 3 months |
| Community-level data on prices of common foods and wages of common occupations | Every 3 months |
| Ownership of land, animals, tools, vehicles | Entry, exit |

Note: Since much of this set of data may be difficult to collect, projects should obtain that information which is appropriate and reliable. Community-level information will make estimation of expenditures and wages feasible where individual information canot be obtained, and will provide a check of the reliability of individual information.

PROJECT-SPECIFIC DATA SET

Mexico proposes to continue extensive socio-demographic surveys as begun in Phase I. Mexico also proposes to collect additional socio-cultural data such as parental attitudes and expectations.

These proposals are referred to the SCB for discussion and recomendations.

Table 9

COMMUNITY CLIMATIC AND SES DATA

(included in community level/SES measures)

BASIC DATA SET

| | |
|---|---|
| Average Rainfall | Monthly |
| Average daily temperature[a)] | Monthly |
| Average barometric pressure | Once |

Note: It is essential to collect these data monthly in order to record seasonal changes which will vary yearly and which will affect food availability, intake, morbidity, and activities.

PROJECT-SPECIFIC DATA

Project-specific proposals have been received as follows:

Kenya reports that it has not yet begun to collect rainfall data as the gauges were late in arriving. Kenya will begin to collect data at cluster offices shortly.

Egypt proposes to use government source documents for weather patterns on a weekly basis.

[a)]Noon or stipulated times selected by projects.

Table 10

CHILD-CARE AND SANITATION ACTIVITIES OF THE LEAD FEMALE

BASIC DATA SET

| Measure | Frequency |
|---|---|
| Based on observation of lead female's activities, a score will be determined to denote the lead female's proficiency in performing care-giving activities. Each score will be based on the frequency, duration, quality, and appropriateness in the performance of specific care-giving activities for categories such as nutrition, hygiene, illness care, child supervision. | Monthly |

Note: Management awaits responses from the projects on their observational methods, instruments, and scoring. ME strongly recommends that Egypt project's method be adopted by the other projects; this involves four hours of observation per month during which sanitation and child-care activities are recorded.

Table 11

TIME ALLOCATION

The Basic Data Set includes Time Allocation measures for the Lead Male and Female to be collected monthly.

All projects have agreed to collect Time Allocation information for the Lead Male and Lead Female during Year 2. Each project will identify and report the specific variables recorded as well as the method by which they are to be aggregated according to the common set of classifications agreed-upon at the May 1984 SCB meeting.

Management has not yet received these reports.

## Schedules of Basic Data Collection

The schedules of observations shown in the following pages summarize types of measures to be made by target group or individual. These schedules are presented as follows:

# Community Description
## Basic Data Set

Community descriptions will be submitted by each project and will be reviewed and updated to reflect significant community changes at approximately one year intervals.

Months in Study

| | START | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | ... | END |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Climatic data:** | | | | | | | | | | | | | | | |
| Average rainfall | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | ... | (monthly) |
| Average daily temperature | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | ... | (monthly) |

(Temperature is selected to represent variation from one day to another at the same time, e.g. noon, 6 a.m. -- other times may be acceptable. The time selected should be indicated in documentation.)

Barometric pressure (once only at each research site)

Household Data
Basic Data Set

Months in Study

| | ENTRY 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 ... | EXIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Household Entry | X | | | | | | | | | | | | |
| Household Changes | whenever change occurs in composition of household: entrance or exit of target and non-target individuals, or change in reproductive status of the lead female | | | | | | | | | | | | |
| Household Demography | X | | 3 | | | 6 | | | 9 | | | 12 ... | |
| | (at entry and 3 month updates for each individual in the household) | | | | | | | | | | | | |
| Household Social and Economic Measures | X | | | | | | | | | | | | X |
| | (at entry and exit) | | | | | | | | | | | | |
| Disabilities and Chronic Illness in Household | X | | 3 | | | 6 | | | 9 | | | 12 ... | |
| | (at entry and 3 month updates for each individual in the household) | | | | | | | | | | | | |
| Anthropometry | (height once, weight twice per year by season for each nontarget individual in the household) | | | | | | | | | | | | |
| Household Food Use | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 12 ... | |
| | (7 days per month as long as in study) | | | | | | | | | | | | |

---

| | |
|---|---|
| sehold<br>Morbidity | 1 2 3 4 5 6 7 8 9 10 11 12 ...<br>(weekly recall for each nontarget individual in the household) |

---

# Lead Male
## Basic Data Set

.entry when child of lead male is entered into the study and/or it is anticipated that the man will be the father of a 6-month-old infant by the end of the 2-year data collection period)

Months in Study

| | ENTRY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19... |
|---|---|
| Within-household Food Intake | 1 2 3 4 5 6 7 8 9 10 11 12 ... (2 days per month for as long as in study -- included in HH measurement only) |
| Anthropometry | 1 2 3 4 5 6 7 8 9 10 11 12 ... (weight monthly, height twice per year) |
| M idity | 1 2 3 4 5 6 7 8 9 10 11 12 ... (weekly recall) |
| Illness Subroutine: | (As indicated -- Qualitative Activity Index and Task Assignment days 1, 3, 7, 14, 21, ... during illness) |
| RMR | 3 6 9 12 (every 3 months) |
| Time allocation | 1 2 3 4 5 6 7 8 9 10 11 12 (2 days/month -- Kenya and Mexico; 12 hours/3 months -- Egypt) |

Psychology:
WAIS subscales all to include: (to be given once)
- Block design
- Digit span
- Ravens progressive matrices

Lead Female: Non-pregnant, non-lactating
with respect to target infant

Basic Data Set

(possible entry when toddler is 18 months or schooler is between the ages of 7 and 9 AND/OR it is anticipated the woman will be 3 months pregnant by the beginning of the 2nd year of the data collection period)

Months in Study

| | ENTRY 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | ... | EXIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reproductive History | X (at entry) | | | | | | | | | | | | | |
| Physical Assessment: | | | | | | | | | | | | | | |
| Nutrition Related Variables | X (at entry and exit) | | | | | | | | | | | | | X |
| Monthly Conception Survey | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | ... | |
| | (monthly until pregnant) | | | | | | | | | | | | | |
| Anthropometry | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | ... | |
| | (weight monthly, height twice per year) | | | | | | | | | | | | | |
| Individual Food Intake | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | ... | |
| | (2 days per month for as long as in study) | | | | | | | | | | | | | |
| Morbidity | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | ... | |

(weekly recall)

---

Illness
Subroutine: (As indicated -- Qualitative Activity Index and Task Assignment on days 1, 3, 7, 14, 21, ... during illness)

---

RMR 3 6 9 12 ... (every 3 months)

---

Sanitation and
Child Care 1 2 3 4 5 6 7 8 9 10 11 12 ... (monthly)

---

Time allocation 1 2 3 4 5 6 7 8 9 10 11 12 ...
(4 days/month -- Kenya and Mexico;
12 hours/3 months -- Egypt)

---

Psychology:

WAIS subscales all to include:
block design
Digit span
Ravens progressive matrices (to be given once)

---

Jul 27 09:58 1984 Pregnant_Female Page 1

Lead Female: Pregnant or lactating
with respect to target infant

Basic Data Set

(possible entry as a pregnancy at 1st through 3rd months of pregnancy; generally, the woman will have entered the study previously as an anticipated pregnancy -- entry as the mother of a target toddler and/or schooler may overlap entry for pregnancy)

| | Months of Pregnancy | | | | | | | | | Months Postpartum | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ENTRY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | At or near DELIVERY | 1 | 2 | 3 | 4 | 5 | 6 |
| Reproductive History | X (at entry) | | | | | | | | | | | | | | | | |
| Physical Assessment: | | | | | | | | | | | | | | | | | |
| Nutrition Related Variables | X | | | | | 5 | | | 8 | | X | | | | | | 6 |
| egnancy Related Variables | X | | | | | 5 | | | 8 | | X | | | | | | 6 |
| | (at entry, 5th and 8th month of pregnancy, at delivery, and at 6 months postpartum) | | | | | | | | | | | | | | | | |
| Monthly Pregnancy Survey | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | | | | | | |
| | (monthly during pregnancy, from confirmation to delivery) | | | | | | | | | | | | | | | | |
| Pregnancy Outcome | | | | | | | | | | | X (at delivery) | | | | | | |
| Lactation/ Infant Feeding | | | | | | | | | | | | 1 | 2 | 3 | 4 | 5 | 6 |
| | | | | | | | | | | | (monthly during lactation) | | | | | | |
| throphometry | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 ... | | | | | | | |
| | (weight monthly, height twice per year when not pregnant) | | | | | | | | | | | | | | | | |

---

Individual
Food Intake 1 2 3 4 5 6 7 8 9 ...
(2 days per month for as long as in study)

---

Morbidity 1 2 3 4 5 6 7 8 9 ...
(weekly recall as long as in study)

---

Illness
Subroutine: (As indicated -- Qualitative Activity Index and
Task Assignment days 1, 3, 7, 14, 21, ...
during illness)

---

RMR 5 P 1 3/ 4 6
(5th and 9th month of pregnancy,
1st, 3rd or 4th, and 6th month of lactation)

---

Sanitation and
Child Care 1 2 3 4 5 6 7 8 9 ... (monthly)

---

Laboratory
Assessment:

Blood Analyses 6
(6th month of pregnancy)
Milk Analyses Day 1-3 1 3 6
(day 1-3, 1, 3, and 6 months lactation)

---

Time allocation 1 2 3 4 5 6 7 8 9 ...
(2 days/month -- Kenya and Mexico;
12 hours/3 months -- Egypt)

---

Psychology:

WAIS subscales all to include:
block design
Digit span
Ravens progressive matrices (to be given once)

# Target Infant
# Basic Data Set

(infant is in study from birth through 6 months of age)

| | Months in Study | | | | | |
|---|---|---|---|---|---|---|
| | BIRTH | 1 | 2 | 3 | 4 | 5 | 6 |
| Supplementary Feeding: Infant (2 days/month) | | 1 | 2 | 3 | 4 | 5 | 6 |
| Anthropometry (length, weight, head circumference, and arm circumference) | | 1 | 2 | 3 | 4 | 5 | 6 |
| Morbidity | weekly recall | | | | | | |

Dubowitz Scale within 72 hours after birth
(first edition)

Physical Assessment:

| | | |
|---|---|---|
| Birth Condition (Pregnancy Outcome) | At birth | |
| Nutrition Related Variables | 6 | |

---

| | | |
|---|---|---|
| Psychological Functions | | |
| BNAS (Brazelton) | Between 1 and 7 days after birth | |
| Bayley Motor Scale | | 6 months |
| Infant Behavior Record | | 6 months |
| Observation of caretaker and child | 3 | 6 months |

# Target Toddler
## Basic Data Set

(entry when child is 18 months old for a period of 12 months)

| | Months in Study | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ENTRY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Individual Food Intake | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | | (2 days per month) | | | | | | | | | | | |
| Anthropometry | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

(length, weight, arm circumference, and head circumference)

Physical Assessment:

| | |
|---|---|
| Nutrition Related Variables | Entry and Exit |
| Vision and Hearing | Entry and Exit |

orbidity Weekly recall

---

__rbidity subroutine — As indicated --
Food intake 24-hr recall by care-giver
Body weight ~~every 3 days~~ during illness
days 1, 3, 7, 14, ...

---

Psychological Function:

| | | | |
|---|---|---|---|
| Bayley Mental | 1b | 24 | 30 months |
| Bayley Motor | 1b | 24 | 30 months |
| Bayley Infant behavior Record | 1b | 24 | 30 months |
| Observation of Caretaker and Child | 1b | 24 | 30 months |

# Target Schooler
## Basic Supplementary Data Set

(entry when child is between 7 and 9 years of age for a period of 12 months)

| | Months in Study | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ENTRY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Individual Food Intake | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | | (2 days per month) | | | | | | | | | | | |
| Anthropometry: | | | | | | | | | | | | | |
| Height and Head Circum. | X | | | | | | | | | | | | X (entry and exit) |
| Weight and Arm Circum. | X | | | 3 | | | 6 | | | 9 | | | 12 (every 3 months) |
| Morbidity | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 (weekly recall) |
| School Attendance | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 (monthly) |
| Psychology: | | | | | | | | | | | | | |
| WISC-R Subscales: Block design, Digit span, Ravens Matrices | X | | | | | | | | | | | | X (entry and exit) |
| Classroom | | | | | | | | | | | | | |

| | | | |
|---|---|---|---|
| Observation | (twice during the school year) | | |
| Physical Assessment: | | | |
| Vision and Hearing | X | X | (entry and exit) |

# BASIC VARIABLES LISTS

The lists that follow represent all Basic Variables which are collected by Nutrition CRSP projects. These variables constitute a sub-set of the "core" variables listed in earlier versions of the complete Data Management Manual. In some cases variables have been redefined according to decisions reached at the May 1984 meeting of the Scientific Coordination Board.

# HOUSEHOLD ENTRY, CHANGE, OR EXIT

The purpose of this file is to record the entry of households into the study, exit of households from the study, and changes in status of participating households. This information is required for schedule verification and the organization of data for analysis.
For each household in the study, a record must appear in this file whenever any of the following changes occur:

1) Household entry: values must be entered for variables pertaining to household entry and to members of the household who are target subjects at that time.

2) Household exit: values are to be entered for variables pertaining to household exit and to members of the household who were target immediately prior to exit.

3) Change in household status: values are to be entered for variables pertaining to persons whose status has changed. The following events are considered changes in status:

   a) Entry of a subject to target status, i.e.,
      i) Birth of a target infant,
      ii) Entry of toddler as target at 18 months of age, or
      iii) Entry of school-age child as target.
      As stated above, entry to target status of persons who are target at household entry (for instance, the lead male and female) will be recorded at that time.

   b) Exit of a subject from target status, i.e.,
      i) Completion of study:
         -- after 6 months, for target infant
         -- after 12 months, for target toddler or school-age child, and for lead male and female who have no target children and will not produce a target infant
         -- after all children have completed the study, for lead male and female with target children.
      ii) Leaving study before completion (e.g., due to death, refusal to participate further, moving from the household permanently).
      As stated above, exit from target status of persons who were target immediately prior to household exit will be recorded at that time.

   c) Change in reproductive status of the lead female, i.e.,
      i) Anticipation of target pregnancy: (Anticipation of pregnancy at household entry should be recorded at that time.)
      ii) Confirmation of pregnancy: (Pregnancy of the lead female at household entry should be recorded at that time; confirmation of the lead female's pregnancy at any time during the study must be recorded, even when the result is a non-target infant.

iii) Termination of pregnancy by live birth, stillbirth, or miscarriage: (The result of any pregnancy of the lead female must be recorded; entry of the infant as a target or non-target subject must be recorded also.)

iv) Failure to conceive a target infant: (This should be recorded 12 months after entry, if applicable; however, any subsequent non-target pregnancy must be reported, as noted above, if the household is still in the study.)

d) Temporary absence of the lead male (e.g. due to migration) and return of the lead male from a temporary absence: (If the lead male is absent when the household enters the study, this should be recorded.)

e) Non-target persons moving into or out of the household: (This includes the entry of a non-target infant to the household by birth to the lead female or another household member, or the death of any non-target household member; it does not include change of status from target to non-target subject.)

Note that changes in status of several household members during a quarter (e.g. entry of household to study and entry of lead male, lead female, and toddler to target status, with lead female listed as an anticipated pregnancy) may be entered on a single record, with the date of each change specified as required; however, changes to an individual subject which occur on different dates (e.g. birth and death of a target infant) must be entered on separate records.

| VARIABLE | LENGTH | DESCRIPTION |
|---|---|---|
| XCOUNTRY | 1 | 1=Egypt<br>2=Kenya<br>3=Mexico |
| XLOCATN | | Code the number for village, block number, or tract<br>1= (Projects should fill in)<br>2=.....(as many codes as villages) |
| XCURRHH | | Code number of the household for which entry, change, or exit is being recorded. |
| XOHHTYP | 1 | Code the number for type of household before this entry, change or exit, i.e., the previous status of the household. If the household is now being entered into the study, code 0.<br>0= Not in the study<br>1= Anticipated or confirmed target pregnancy or infan<br>2= Toddler in study<br>3= Schooler in study<br>4= Target pregnancy (anticipated or confirmed) or infant in study AND toddler in study<br>5= Target pregnancy (anticipated or confirmed) or |

infant in study AND schooler in study
6= Toddler and schooler in study
7= Target pregnancy (anticipated or confirmed) or infant in study AND toddler AND schooler in study.

XNHHTYP 1 Code number for type of household after this entry, change or exit, i.e., the current status of the household. If the household is leaving the study, code 0.
0= Not in the study
1= Anticipated or confirmed target pregnancy or infan
2= Toddler in study
3= Schooler in study
4= Target pregnancy (anticipated or confirmed) or infant in study AND toddler in study
5= Target pregnancy (anticipated or confirmed) or infant in study AND schooler in study
6= Toddler and schooler in study
7= Target pregnancy (anticipated or confirmed) or infant in study AND toddler AND schooler in study.

XSECTION 2 Section code: This variable must appear on each record. It is a 2-digit code indicating file type. The codes for this file are as follows:

01- Household entry
02- Household changes (including exit)

XMOMID The identification number of the lead female in the household.

XPOPID The identification number of the lead male in the household.

*** Values for the following 8 variables should be entered regarding the current entry, change, or exit for this household. ***

XENTRY 1 Is this a record of household entry to the study?
1 = yes (enter values for HOUSEHOLD ENTRY variables below)
2 = no (enter missing value for HOUSEHOLD ENTRY variables)

XINFANT 1 Has a target infant been born or left target status?
1 = yes (enter values for INFANT variables below)
2 = no (enter missing value for INFANT variables)

XTODDLER 1 Has a toddler entered or left target status?
1 = yes (enter values for TODDLER variables below)
2 = no (enter missing value for TODDLER variables)

SCHLAGE 1 Has a school-age child entered or left target status?
1 = yes (enter values for SCHOOL-AGE CHILD variables below)

2 = no (enter missing value for SCHOOL-AGE CHILD variables)

XFEMALE 1 Has the lead female entered or left the study or changed reproductive status?
1 = yes (enter values for LEAD FEMALE variables below)
2 = no (enter missing value for LEAD FEMALE variables)

XMALE 1 Has the lead male entered or left the study, or returned to or left the household?
1 = yes (enter values for LEAD MALE variables below)
2 = no (enter missing value for LEAD MALE variables)

XMOVE 1 Have non-target persons moved into or out of the household?
1 = yes (enter values for NON-TARGET variables below)
2 = no (enter missing value for NON-TARGET variables

XEXIT 1 Is the household leaving the study?
1 = yes (enter values for HOUSEHOLD EXIT variables below)
2 = no (enter missing value for HOUSEHOLD EXIT variables)

## HOUSEHOLD ENTRY

XEDATE 6 Date of household entry (SAS date)

XETARGET 1 Number of target household members at entry

XENONTGT 2 Number of non-target household members at entry

XETOTAL 2 Total number of household members at entry

## INFANT

XIID Identification number of target infant

XIDATE 6 Date change in status of target infant occurred (SAS date)

XINTRY 1 Does current change include birth of target infant?
1 = yes
2 = no

COMP 1 Has the target infant completed the study?
1 = yes
2 = no

| | | |
|---|---|---|
| LAVE | 1 | Has the target infant left the study before completion?<br>1 = Yes, the infant has died or left the household.<br>2 = Yes, the infant is too ill to continue the study.<br>3 = Yes, the parents have refused to allow the infant to participate further.<br>4 = Yes, other reason.<br>5 = No. |

## T O D D L E R

| | | |
|---|---|---|
| XTID | | Identification number of target toddler |
| XTLATE | 6 | Date the change in status of target toddler occurred (SAS date) |
| XTNTRY | 1 | Does current change include entry of the toddler as a target subject?<br>1 = yes<br>2 = no |
| XTCOMP | 1 | Has the target toddler completed the study?<br>1 = yes<br>2 = no |
| XTLEAVE | 1 | Has the target toddler left the study before completion?<br>1 = Yes, the toddler has died or left the household.<br>2 = Yes, the toddler is too ill to continue the study.<br>3 = Yes, the parents have refused to allow the toddler to participate further.<br>4 = Yes, other reason.<br>5 = No. |

## S C H O O L - A G E C H I L D

| | | |
|---|---|---|
| XSID | | Identification number of target school-age child |
| XSDATE | 6 | Date the change in status of target school-age child occurred (SAS date) |
| XSNTRY | 1 | Does current change include entry of the school-age child as a target subject?<br>1 = yes<br>2 = no |
| XSCOMP | 1 | Has the target school-age child completed the study? |

1 = yes
2 = no

XSLEAVE 1 has the target school-age child left the study before completion?
1 = Yes, the school-age child has died or left the household.
2 = Yes, the school-age child is too ill to continue the study.
3 = Yes, the parents have refused to allow the school-age child to participate further.
4 = Yes, other reason.
5 = No.

## LEAD FEMALE

XFDATE 6 Date the change in status of lead female occurred (SAS date)

XFNTRY 1 Does this change include entry of lead female in the study?
1 = yes
2 = no

ANTICP 1 Does current change include anticipation of lead female's target pregnancy?
1 = yes
2 = no

XFCONFRM 1 Does current change include confirmation of lead female's target or non-target pregnancy?
1 = yes
2 = no

XFTERM 1 Does current change include termination of lead female's target or non-target pregnancy?
1 = Yes, with a live birth
2 = Yes, with a stillbirth
3 = Yes, with a miscarriage
4 = No.

XFAIL 1 Does current change include failure of lead female to conceive a target infant?
1 = yes
2 = no

XFCOMP 1 Has the lead female completed the study?
1 = yes
2 = no

XFLEAVE 1 Has the lead female left the study before completion?
1 = Yes, she has died or left the household.

2 = Yes, she is too ill to continue the study.
3 = Yes, she has refused to participate further.
4 = Yes, all target children have left the study before completion.
5 = Yes, other reason.
6 = No.

| LEAD MALE |
|---|

| | | |
|---|---|---|
| XMDATE | 6 | Date the change in status of the lead male occurred (SAS date) |
| XMNTRY | 1 | Does this change include entry of the lead male in the study?<br>1 = yes<br>2 = no |
| XMABSENT | 1 | Does current change include lead male leaving the household temporarily?<br>1 = Yes, due to migration<br>2 = Yes, due to illness<br>3 = Yes, other reason<br>4 = No. |
| RETURN | 1 | Does current change include return of lead male to the household?<br>1 = yes<br>2 = no |
| XMCOMP | 1 | Has the lead male completed the study?<br>1 = yes<br>2 = no |
| XMLEAVE | 1 | Has the lead male left the study before completion?<br>1 = Yes, he died or left the household permanently.<br>2 = Yes, he is too ill to complete the study.<br>3 = Yes, he has refused to participate further.<br>4 = Yes, the lead female and all target children have left the study before completion.<br>5 = Yes, other reason.<br>6 = No. |

| NON-TARGET |
|---|

| | | |
|---|---|---|
| XNDATE | 6 | Date non-target subject(s) moved into or out of the household (SAS date) |
| XNIN | 2 | Number of non-target subjects who moved into |

| | | |
|---|---|---|
| | | the household with this change |
| UT | 2 | Number of non-target subjects who moved out of the household with this change |

## HOUSEHOLD EXIT

| | | |
|---|---|---|
| XHDATE | 6 | Date of household exit (SAS date) |
| XHREAS | 1 | The household is leaving the study because:<br>1 = The household has moved out of the area.<br>2 = The household has resigned from the study because of illness or economic hardship.<br>3 = The household has resigned from the study because they object to the intrusion.<br>4 = The household has been dropped from the project for non-cooperation.<br>5 = All target individuals have died or left the household.<br>6 = All target individuals have completed the study.<br>7 = The household has left the study for some other reason. |

# MORTALITY NOTIFICATION AND DIAGNOSIS

| VARIABLE | LENGTH | DESCRIPTION |
|---|---|---|
| ZCOUNTRY | 1 | THE FOLLOWING NINE VARIABLES ARE INCLUDED ON ALL SAS FILES. (FOR INDIVIDUAL SUBJECTS) FOR A DESCRIPTION OF THESE VARIABLES, PLEASE SEE THE SECTION ENTITLED "SAS IDENTIFICATION INFORMATION." |
| ZLOCATN | | |
| ZCURRHH | | |
| ZHHTYPE | 1 | |
| ZID | | |
| ZMEMBER | 1 | |
| ZBIRTH | 6 | |
| ZSEX | 1 | |
| ZSECTION | 2 | |
| ZDATE | 6 | Date of death<br>(SAS date) |
| ZCAUSE | 1 | What was cause of death?<br>1=Accident<br>2=Illness<br>3=Other |
| ZQUEST | 1 | Was a morbidity questionnaire filled out?<br>1=Yes<br>2=No |
| ZMEDCARE | 1 | Was medical care sought ?<br>1=Yes<br>2=No |

# HOUSEHOLD FOOD INTAKE SUMMARY

A record should be filled out for each day of intake data collection.

| VARIABLE | LENGTH | DESCRIPTION |
|---|---|---|
| UCOUNTRY | 1 | THE FOLLOWING FIVE VARIABLES ARE INCLUDED ON ALL SAS FILES. (FOR HOUSEHOLDS) FOR A DESCRIPTION OF THESE VARIABLES, PLEASE SEE THE SECTION ENTITLED "SAS IDENTIFICATION INFORMATION." |
| ULOCATN | | |
| UCURRHH | | |
| UHHTYPE | 1 | |
| USECTION | 2 | |
| UDAT | 6 | Date: intake data collected (SAS date) |
| UDAY | 1 | Day of week:<br>Sunday=1<br>Monday=2<br>Tuesday=3<br>Wednesday=4<br>Thursday=5<br>Friday=6<br>Saturday=7 |
| UINTER | | Code number for interviewer. This variable may be u later in quality control checks. |
| UMETHOD | 1 | Code for method of measurement:<br>1=Recall alone<br>2=Recall and weighing of food<br>3=Recall,weighing and observation<br>4=Recall and observation |
| UINTAK | 5 | Household Adjusted Intake:<br>This variable will be in grams per 24 hour period for all food consumed by household members from household supply. |

| | |
|---|---|
| UKCAL | Total Kcals consumed by household |
| UPROT | Total g. protein consumed by household |
| UFAT | Total g. fat consumed by household |
| UCARBO | Total g. carbohydrates consumed by household |
| UKCALLM | Total Kcal consumed by lead male from household supply |
| UPROTLM | Total g. protein consumed by lead male from household supply |
| UFATLM | Total g. fat consumed by lead male from household supply |
| UCARBOLM | Total g. carbohydrates consumed by lead male from household supply |

# INDIVIDUAL FOOD INTAKE SUMMARY

A record should be filled out for each day of intake data collection.

| VARIABLE | LENGTH | DESCRIPTION |
|---|---|---|
| NCOUNTRY | 1 | THE FOLLOWING NINE VARIABLES ARE INCLUDED ON ALL SAS FILES. (FOR INDIVIDUAL SUBJECTS) FOR A DESCRIPTION OF THESE VARIABLES, PLEASE SEE THE SECTION ENTITLED "SAS IDENTIFICATION INFORMATION." |
| NLOCATN | | |
| NCURRHH | | |
| NHHTYPE | 1 | |
| NID | | |
| NMEMBER | 1 | |
| NBIRTH | 6 | |
| NSEX | 1 | |
| NSECTION | 2 | |
| NDAT | 6 | Date intake data collected (SAS date) |
| NDAY | 1 | Day of Week<br>Sunday=1<br>Monday=2<br>Tuesday=3<br>Wednesday=4<br>Thursday=5<br>Friday=6<br>Saturday=7 |
| NMETHOD | 1 | Collection Method<br>1=Regular<br>2=Special<br>In most cases the value of this variable will be 1 the collection methods used will follow the normal protocol for that age/sex group. However, in Mexic on Sundays a special protocol will be followed. |

| | |
|---|---|
| NINTER | Code number for interviewer. This variable may be u later in quality control checks. |
| NCODE | Food composition code: Code to indicate nutrient conversion method used. variable may have to be updated as time goes by. for this variable will be: (projects to supply list.) |

| | Intake | |
|---|---|---|
| NKCAL | 5 | Kcals per day |
| NPROT | 4 | Proteins in grams per day |
| NFAT | 4 | Fats in grams per day |
| NCARBO | 4 | Carbohydrates in grams per day |

(This list may have 12 items depending on the decisions made regarding food analysis.)

# SUPPLEMENTARY FEEDING: INFANT

| VARIABLE | LENGTH | DESCRIPTION |
|---|---|---|
| FCOUNTRY | 1 | THE FOLLOWING NINE VARIABLES ARE INCLUDED ON ALL SAS FILES. (FOR INDIVIDUAL SUBJECTS) FOR A DESCRIPTION OF THESE VARIABLES, PLEASE SEE THE SECTION ENTITLED "SAS IDENTIFICATION INFORMATION." |
| FLOCATN | | |
| FCURRHH | | |
| FHHTYPE | 1 | |
| FID | | |
| FMEMBER | 1 | |
| FBIRTH | 6 | |
| FSEX | 1 | |
| FSECTION | 2 | |
| FMOTHER | | ID of infant's mother |
| FDAT | 6 | Date of Observation. (SAS date) |
| FDAY | 1 | Day of week<br>1=Sunday<br>2=Monday<br>3=Tuesday<br>4=Wednesday<br>5=Thursday<br>6=Friday<br>7=Saturday |
| FOBSID | 3 | Code number of observer |

**********

*** PLEASE NOTE: If the answers to two of the following variables-- FFOOD and FWATER -- are '2', i.e. 'No', then all other questions in this section should receive the missing value code for 'not applicable.' If the infant received formula or other food, including sugar, proceed with the 24-hour recall of everything caloric consumed.

| | | |
|---|---|---|
| FFOOD | 1 | Did infant consume anything other than breast milk?<br>1=Yes<br>2=No |
| FFORM | 1 | Did infant consume formula or milk from bottle, cup or spoon?<br>1=Yes<br>2=No |
| FWATER | 1 | Did infant consume any water?<br>1=Yes<br>2=No |
| FSUGAR | 1 | Was sugar added to the water?<br>1=Yes<br>2=No |

Other nutrients

| | | |
|---|---|---|
| FKCAL | 4 | Kcal intake exclusive of breast milk per 24 hour p |
| FPROT | 4 | Grams of protein exclusive of breast milk per 24 hour period |
| FFAT | 4 | Grams of fat exclusive of breast milk per 24 hour period |
| FCARBO | 4 | Grams of carbohydrates exclusive of breast milk p 24 hour period |

This list will include up to 12 other nutrients.

# ANTHROPOMETRY-TARGET SUBJECTS

## IDENTIFICATION INFORMATION

| NAME | DIGITS | MEANING |
|---|---|---|
| ACOUNTRY | 1 | THE FOLLOWING NINE VARIABLES ARE INCLUDED ON ALL SAS FILES. (FOR INDIVIDUAL SUBJECTS) FOR A DESCRIPTION OF THESE VARIABLES, PLEASE SEE THE SECTION ENTITLED "SAS IDENTIFICATION INFORMATION." |
| ALOCATN | | |
| ACURRHH | | |
| AHHTYPE | 1 | |
| AID | | |
| AMEMBER | 1 | |
| ABIRTH | 6 | |
| ASEX | 1 | |
| ASECTION | 2 | |

## OBSERVER INFORMATION

| NAME | DIGITS | MEANING |
|---|---|---|
| ATAKEN | 1 | Were anthropometry measurements taken?<br>1 = Yes<br>2 = No. |
| ADAT | 6 | Date of test. (SAS date) |
| AOBSID | | ID code of person taking measurments. |

## ANTHROPOMETRIC MEASURMENTS

| NAME | DIGITS | MEANING |
|---|---|---|
| AHT | 4 | Height in centimeters |
| AWT | 4 | Weight in kilograms |
| ASUP | 3 | Supine length for infants and toddlers in centimet |

| | | |
|---|---|---|
| AARM | 3 | Arm circumference in centimeters |
| AHEAD | 3 | Head circumference in centimeters |

# ANTHROPOMETRY- NON-TARGET SUBJECTS

## IDENTIFICATION INFORMATION

| NAME | DIGITS | MEANING |
|---|---|---|
| ACOUNTRY | 1 | THE FOLLOWING NINE VARIABLES ARE INCLUDED ON ALL SAS FILES CONTAINING DATA ABOUT INDIVIDUAL SUBJECTS. FOR A DESCRIPTION OF THESE VARIABLES, PLEASE SEE THE SECTION ENTITLED "SAS IDENTIFICATION INFORMATION". |
| ALOCATN | | |
| ACURRHH | | |
| AHHTYPE | 1 | |
| AID | | |
| AMEMBER | 1 | |
| ABIRTH | 6 | |
| ASEX | 1 | |
| ASECTION | 2 | |

## OBSERVER INFORMATION

| NAME | DIGITS | MEANING |
|---|---|---|
| ATAKEN | 1 | were anthropometry measurements taken?<br>1 = Yes<br>2 = No. |
| ADAT | 6 | Date measurements were taken. (SAS date) |
| AOBSID | | ID code of person taking measurements. |

## ANTHROPOMETRIC MEASUREMENTS

| NAME | DIGITS | MEANING |
|---|---|---|
| AHT | 4 | Height in cm. |
| AWT | 4 | Weight in kg. |
| ASUP | 3 | Supine length of infants through 30 mo. in cm. |

METABOLIC ADAPTATION

| VARIABLE | LENGTH | DESCRIPTION |
|---|---|---|
| RCOUNTRY | 1 | THE FOLLOWING NINE VARIABLES ARE INCLUDED ON ALL SAS FILES. (FOR INDIVIDUAL SUBJECTS) FOR A DESCRIPTION OF THESE VARIABLES, PLEASE SEE THE SECTION ENTITLED "SAS IDENTIFICATION INFORMATION." |
| RLOCATN | | |
| RCURRHH | | |
| RHHTYPE | 1 | |
| RID | | |
| RMEMBER | 1 | |
| RBIRTH | 6 | |
| RSEX | 1 | |
| RSECTION | 2 | |
| RDAT | 6 | Date measurements taken (SAS date) |
| ROBS | | Code number of person determining measurements |
| RWT | 4 | Weight of subject in kilograms (if measured concurrently) |
| RHT | 4 | Height of subject in centimeters (if measured concurrently) |
| RTEMP | 3 | Body temperature of subject |
| RKCLKG18 | 3 | Kcal per kilogram of body weight: minute 18 |
| RKCLD18 | 4 | Kcal per day: minute 18 |
| ROXYG18 | 2 | Oxygen consumption per minute: minute 18 |
| RESPQT18 | 2 | Respiratory quotient: minute 18 |
| RHRT18 | 3 | Heart rate: minute 18 |

| | | |
|---|---|---|
| RKCLKG19 | 3 | Kcal per kilogram of body weight: minute 19 |
| RKCLD19 | 4 | Kcal per day: minute 19 |
| ROXYG19 | 2 | Oxygen consumption per minute: minute 19 |
| RESPQT19 | 2 | Respiratory quotient: minute 19 |
| RHRT19 | 3 | Heart rate: minute 19 |
| RKCLKG20 | 3 | Kcal per kilogram of body weight: minute 20 |
| RKCLD20 | 4 | Kcal per day: minute 20 |
| ROXYG20 | 2 | Oxygen consumption per minute: minute 20 |
| RESPQT20 | 2 | Respiratory quotient: minute 20 |
| RHRT20 | 3 | Heart rate: minute 20 |
| RKCLKG28 | 3 | Kcal per kilogram of body weight: minute 28 |
| RKCLD28 | 4 | Kcal per day: minute 28 |
| ROXYG28 | 2 | Oxygen consumption: minute 28 |
| RESPQT28 | 2 | Respiratory quotient: minute 28 |
| RHRT28 | 3 | Heart rate: minute 28 |
| RKCLKG29 | 3 | Kcal per kilogram of body weight: minute 29 |
| RKCLD29 | 4 | Kcal per day: minute 29 |
| ROXYG29 | 2 | Oxygen consumption per minute: minute 29 |
| RESPQT29 | 2 | Respiratory quotient: minute 29 |
| RHRT29 | 3 | Heart rate: minute 29 |
| RKCLKG30 | 3 | Kcal per kilogram of body weight: minute 30 |
| RKCLD30 | 4 | Kcal per day: minute 30 |
| ROXYG30 | 2 | Oxygen consumption: minute 30 |
| RESPQT30 | 2 | Respiratory quotient: minute 30 |
| RHRT30 | 3 | Heart rate: minute 30 |

# HISTORICAL ASSESSMENT:
# DISABILITIES AND CHRONIC ILLNESS

## IDENTIFICATION INFORMATION

| NAME | DIGITS | MEANING |
|---|---|---|
| KCOUNTRY | 1 | THE FOLLOWING NINE VARIABLES ARE INCLUDED ON ALL SAS FILES CONTAINING DATA ABOUT INDIVIDUAL SUBJECTS. FOR A DESCRIPTION OF THESE VARIABLES, PLEASE SEE THE SECTION ENTITLED "SAS IDENTIFICATION INFORMATION". |
| KLOCATN | | |
| KCURRHH | | |
| KHHTYPE | 1 | |
| KID | | |
| KMEMBER | 1 | |
| KBIRTH | 6 | |
| KSEX | 1 | |
| KSECTION | 2 | |

## OBSERVER INFORMATION

| NAME | DIGITS | MEANING |
|---|---|---|
| KTAKEHS | 1 | Was a historical assessment of disabilities and chronic illness performed?<br>1 = Yes<br>2 = No. |
| KDATHS | 6 | Date of historical assessment (SAS date). |
| KOBSIDHS | | ID code of person doing historical assessment. |

## CHRONIC ORGANIC DISEASE

| name | digits | meaning |
|---|---|---|
| KCHRON | 1 | Does the subject have a chronic organic disease such as diabetes, cardiovascular disease, epilepsy, cancer or any other chronic organic disease?<br>1 = Yes,<br>2 = No. |

If yes, enter ICD codes for up to 3 illnesses.
If no, enter missing value code for 'not applicable'.
If less than 3 illnesses, enter missing value code for 'not applicable' when appropriate (i.e. if only one illness is present, KCHRNTP2 and KCHRNTP3 are not applicable).
More variables may be added if necessary.

| | | |
|---|---|---|
| KCHRNTP1 | 4 | ICD code of 1st chronic disease. |

KCHRNTP2 4 ICD code of 2nd chronic disease.
KCHRNTP3 4 ICD code of 3rd chronic disease.

ACUTE DISEASE

| NAME | DIGITS | MEANING |
|---|---|---|
| KACUTE | 1 | Does the subject have an acute illness such as tuberculosis, respiratory disease, sexually transmitted disease, gastrointestinal disease or genito-urinary disease other than STD?<br>1 = Yes,<br>2 = No. |

If yes, enter ICD codes for up to 3 illnesses.
If no, enter missing value code for 'not applicable'.
If less than 3 illnesses, enter missing value code for 'not applicable' when appropriate (i.e. if only one illness is present, KACUTP2 and KACUTP3 are not applicable).
More variables may be added if necessary.

KACUTP1 4 ICD code of 1st acute disease.
KACUTP2 4 ICD code of 2nd acute disease.
KACUTP3 4 ICD code of 3rd acute disease.

PHYSICAL HANDICAP

| NAME | DIGITS | MEANING |
|---|---|---|
| KPHYSIMP | 1 | Does the subject have a permanent physical handicap?<br>1 = Yes,<br>2 = No. |

If the subject has a physical handicap, the next 5 variables should be coded as follows:
1 = Yes,
2 = No.
If the subject does not have a marked physical handicap, the missing value code for 'not applicable' should be entered for the next 5 variables.

| | | |
|---|---|---|
| KBLIND | 1 | Is the subject blind? |
| KDEAF | 1 | Is the subject deaf? |
| KARM | 1 | Does the subject have an arm or hand missing or useless? |
| KLEG | 1 | Does the subject have a leg or foot missing or useless? |
| KOTHIMP | 1 | Does the subject have any other permanent physical handicap? |

MENTAL HANDICAP

| NAME | DIGITS | MEANING |
|---|---|---|
| KMENTLOW | 1 | Is the subject's mental development below normal for age?<br>1 = Yes,<br>2 = No. |

# REPRODUCTIVE HISTORY

Values for the following variables will be entered once for each target woman in the study.

## IDENTIFICATION INFORMATION

| NAME | DIGITS | MEANING |
|---|---|---|
| OCOUNTRY | 1 | THE FOLLOWING NINE VARIABLES ARE INCLUDED ON ALL SAS FILES CONTAINING DATA ABOUT INDIVIDUAL SUBJECTS. FOR A DESCRIPTION OF THESE VARIABLES, PLEASE SEE THE SECTION ENTITLED "SAS IDENTIFICATION INFORMATION". |
| OLOCATN | | |
| OCURRHH | | |
| OHHTYPE | 1 | |
| OID | | |
| OMEMBER | 1 | |
| OBIRTH | 6 | |
| OSEX | 1 | |
| OSECTION | 2 | |

## OBSERVER INFORMATION

| NAME | DIGITS | MEANING |
|---|---|---|
| OTAKEN | 1 | Was the subject's reproductive history taken?<br>1 = Yes<br>2 = No. |
| ODAT | 6 | Date reproductive history taken (SAS date). |
| OOBSID | | Interviewer ID code. |

## REPRODUCTIVE HISTORY

| NAME | DIGITS | MEANING |
|---|---|---|
| OMARRLEN | 2 | Duration of present marriage (number of years).<br>Code 0 if married less than a year.<br>If unmarried code 'not applicable' using missing values code. |
| OMARRAGE | 2 | Age at first marriage (no. of years). (Kenya, Egypt only) |
| OPREGAGE | 2 | Age when first pregnant (no. of years). (Kenya, Egypt only) |
| OMARRNUM | 1 | Number of marriages. (Kenya, Egypt only) |
| OLVCHILD | 2 | Number of living children. |
| OPREGNUM | 2 | Number of pregnancies. |
| OLVBNUM | 2 | Number of live births. |
| OABORT | 2 | Number of abortions and miscarriages -- until 28th week of pregnancy. |
| OSTILL | 2 | Number of stillbirths -- |

| | | |
|---|---|---|
| | | after 28th week of pregnancy. |
| OBREECH | 2 | Number of breech deliveries. |
| OFORNUM | 2 | Number of deliveries with forceps. |
| OSECTNUM | 2 | Number of deliveries by Caesarean section. |
| OCONTROL | 1 | Present birth control measures.<br>Code '1' for IUD,<br>'2' for Pill,<br>'3' for indigenous measures,<br>'4' for local measures,<br>'5' for other measures,<br>'6' for no birth control measures. |
| OMENAGE | 2 | Age at menarche (number of years). |
| OBTWEEN | 2 | Number of days between menstrual periods. |
| OPERIOD | 2 | Number of days duration of menstrual periods. |
| OREGMEN | 1 | Regularity of menses.<br>Code '1' for regular,<br>'2' for irregular. |
| OPAIN | 1 | Does the subject have pain during menses?<br>Code '1' for yes,<br>'2' for no,<br>'3' for no answer. |
| OPREG | 1 | Is the subject pregnant?<br>Code '1' for pregnant,<br>'2' for not pregnant,<br>'3' for not sure. |
| OLACT | 1 | Is the subject lactating?<br>Code '1' for yes<br>'2' for no. |
| OBRSTFED | 1 | Was any child not breast-fed?<br>Code '1' for yes,<br>'2' for no. |
| OFEEDST | 1 | Number of days after birth usually started breast-feeding. |
| OFEEDLEN | 2 | Average number of months usually breast-fed children. |
| OSUPPST | 2 | Number of months after birth usually started supplementary feedings in addition to breast milk or formula. |

# PHYSICAL ASSESSMENT:
# NUTRITION RELATED VARIABLES

## IDENTIFICATION INFORMATION

| NAME | DIGITS | MEANING |
|---|---|---|
| KCOUNTRY | 1 | THE FOLLOWING NINE VARIABLES ARE INCLUDED ON ALL SAS FILES CONTAINING DATA ABOUT INDIVIDUAL SUBJECTS. FOR A DESCRIPTION OF THESE VARIABLES, PLEASE SEE THE SECTION ENTITLED "SAS IDENTIFICATION INFORMATION". |
| KLOCATN | | |
| KCURRHH | | |
| KHHTYPE | 1 | |
| KID | | |
| KMEMBER | 1 | |
| KBIRTH | 6 | |
| KSEX | 1 | |
| KSECTION | 2 | |

## OBSERVER INFORMATION

| NAME | DIGITS | MEANING |
|---|---|---|
| KTAKENR | 1 | Was a physical assessment of nutrition related variables performed?<br>1 = Yes<br>2 = No. |
| KDATNR | 6 | Date nutritional assessment performed (SAS date). |
| KOBSIDNR | | ID code of person doing nutritional assessment. |

## NUTRITIONAL ASSESSMENT

| NAME | DIGITS | MEANING |
|---|---|---|
| KGENNUTR | 1 | General nutritional status:<br>1 = Normal<br>2 = Undernutrition<br>3 = Kwashiorkor<br>4 = Marasmus<br>5 = Marasmic Kwashiorkor. |
| | | Each of the following 7 variables may assume the values:<br>1 = Yes<br>2 = No. |
| KVITA | 1 | Does the subject have Vitamin A deficiency? |
| KVITB | 1 | Does the subject have B-vitamins deficiency? |
| KVITC | 1 | Does the subject have C-vitamin deficiency? |

| | | |
|---|---|---|
| KRICKETS | 1 | Does the subject have rickets? |
| KIODINF | 1 | Does the subject have iodine deficiency? |
| KIRON | 1 | Does the subject have iron deficiency? |
| KFLROSIS | 1 | Does the subject have fluorosis? |

## Vision and Hearing

| | | |
|---|---|---|
| KHEARING | 1 | Hearing:<br>1=Normal<br>2=Decreased. |
| KVISR | 3 | Right eye vision: 20-xxx. |
| KVISL | 3 | Left eye vision: 20-xxx. |
| KVISB | 3 | Both eyes vision: 20-xxx. |

# PHYSICAL ASSESSMENT SPECIFICALLY DURING PREGNANCY

(Note that supplementary information from urine analysis is in the COMMON DATA SET).

IDENTIFICATION INFORMATION

| NAME | DIGITS | MEANING |
|---|---|---|
| KCOUNTRY | 1 | THE FOLLOWING NINE VARIABLES ARE INCLUDED ON ALL SAS FILES CONTAINING DATA ABOUT INDIVIDUAL SUBJECTS. FOR A DESCRIPTION OF THESE VARIABLES, PLEASE<br><br>INFORMATION". |
| KLOCATN | | |
| KCURRHH | | |
| KHHTYPE | 1 | |
| KID | | |
| KMEMBER | 1 | |
| KBIRTH | 6 | |
| KSEX | 1 | |
| KSECTION | 2 | |

OBSERVER INFORMATION

| NAME | DIGITS | MEANING |
|---|---|---|
| KTAKEPR | 1 | Was a physical assessment of pregnancy related variables performed?<br>1 = Yes<br>2 = No. |
| KDATPR | 6 | Date of physical assessment (SAS date). |
| KOBSIDPR | | ID code of person doing physical assessment. |

PHYSICAL ASSESSMENT

| NAME | DIGITS | MEANING |
|---|---|---|
| KSYST | 3 | Systolic blood pressure. |
| KDIAST | 3 | Diastolic blood pressure. |
| KFETLHRT | 1 | Were fetal heart sounds observed? (during pregnancy only)<br>1=yes<br>2=no |

# PREGNANCY OUTCOME

## IDENTIFICATION INFORMATION

| NAME | DIGITS | MEANING |
|---|---|---|
| BCOUNTRY | 1 | THE FOLLOWING NINE VARIABLES ARE INCLUDED ON ALL SAS FILES CONTAINING DATA ABOUT INDIVIDUAL SUBJECTS. FOR A DESCRIPTION OF THESE VARIABLES, PLEASE SEE THE SECTION ENTITLED "SAS IDENTIFICATION INFORMATION". |
| BLOCATN | | Location of mother's current household. |
| BCURRHH | | Code number of mother's current household. |
| BHHTYPE | 1 | Type of mother's current household. |
| BID | | Mother's ID code. |
| BMEMBER | 1 | Relationship of mother to lead male and female. |
| BBIRTH | 6 | Mother's date of birth (SAS date). |
| BSEX | 1 | Female (i.e. sex of mother). |
| BSECTION | 2 | |
| BIDINF | | Infant's ID code. |
| BSEXINF | 1 | Sex of infant. |

## OBSERVER INFORMATION

| NAME | DIGITS | MEANING |
|---|---|---|
| BINTRVW | 1 | Was an interview regarding the pregnancy outcome obtained? Code '1' for yes, '2' for no. |
| BDATIN | 6 | Date of interview (SAS date). |
| BOBSIDIN | | Interviewer ID code. |
| BTAKEWT | 1 | Was the infant's birth weight measured? Code '1' for yes, '2' for no. |
| BDATWT | 6 | Date birth weight measured (SAS date). |
| BOBSIDWT | | ID code of person measuring birth weight. |
| BTAKEAN | 1 | Were the infant's anthropometry measurements taken approximately 8 days after birth? Code '1' for yes, '2' for no. |
| BDATAN | 6 | Date anthropometry measurements taken (SAS date). |
| BOBSIDAN | | ID code of person taking anthropometry measurements. |
| BTAKEDU | 1 | Was the Dubowitz test given? Code '1' for yes, '2' for no. |
| BDATDU | 6 | Date of Dubowitz test (SAS date). |
| BOBSIDD | | ID code of person giving Dubowitz test. |

PREGNANCY OUTCOME

| NAME | DIGITS | MEANING |
|---|---|---|
| BDATTERM | 6 | Date of pregnancy termination (SAS date). |
| BOUTCOME | 1 | Outcome of pregnancy.<br>Code '1' for live birth,<br>'2' for stillbirth (after 28th week),<br>'3' for abortion or miscarriage (before 28th week) |
| BDIFFCLT | 1 | Difficulty of delivery (if live birth).<br>Code '1' for normal delivery,<br>'2' for complicated delivery. |
| BHEMORR | 1 | Did the delivery involve hemorrhage (if live birth)?<br>Code '1' for yes,<br>'2' for no. |
| BFORCEPS | 1 | Did the delivery require forceps (if live birth)?<br>Code '1' for yes,<br>'2' for no. |
| BCSECT | 1 | Was the delivery by Caesarean section (if live birth)?<br>Code '1' for yes,<br>'2' for no. |
| BPLURAL | 1 | Plurality.<br>Code '1' for single baby,<br>'2' for twins,<br>'3' for triplets or more. |
| BATTEND | 1 | Persons attending the birth.<br>Code '1' if the mother was alone or with family,<br>'2' if a paramedical attended,<br>'3' if a traditional midwife attended,<br>'4' if a physician attended or the birth took place in a hospital. |
| BRTHWT | 3 | Birth weight of infant in kg. |
| BRTHWTAG | 2 | Infant's age (in hours) when birth wt measured. |
| BRTHLN | 3 | Birth length of infant in cm. |
| BRTHLNAG | 2 | Infant's age (in hours) when birth length measured. |
| BWT | 3 | Infant's weight in kg at approximately 8 days. |
| BLEN | 3 | Infant's supine length in cm at approximately 8 days. |
| BHEAD | 3 | Head circumference of infant in cm at approximately 8 days. |
| BARM | 3 | Left mid-arm circumference of infant in cm at approximately 8 days. |
| BANTHAGE | 2 | Infants's age (in days) when anthropometry measurements taken. |
| BGESTMEN | 2 | Gestational age in weeks: by menstrual history. |
| BGESTDU | 2 | Gestational age in weeks: by Dubowitz score. |
| BAGEDU | 2 | Age in hours when scored. |
| | | For the following 5 variables code '1' if present in the infant, code '2' if not. |
| BCRY | 1 | Did the infant cry immediately after birth? |
| BRESPDTR | 1 | Did the infant exhibit respiratory distress? |
| BINFECT | 1 | Did the infant have an infection? |
| BBIRINJ | 1 | Did the infant have a birth injury? |
| BCONGABN | 1 | Did the infant have a congenital abnormality? |
| BIDENCA | 2 | If yes, identify: (projects to provide codes) |

BMEDFU 1 Does the mother require medical follow-up?
1=yes, for bleeding/blood loss
2=yes, for infection
3=yes, other reason
4=no.

MONTHLY CONCEPTION SURVEY

| VARIABLE | LENGTH | DESCRIPTION |
|---|---|---|
| WCOUNTRY | 1 | THE FOLLOWING NINE VARIABLES ARE INCLUDED ON ALL SEE THE SECTION ENTITLED "SAS IDENTIFICATION INFORMATION". |
| WLOCATN | | |
| WCURRHH | | |
| WHHTYPE | 1 | |
| WID | | |
| WMEMBER | 1 | |
| WBIRTH | 6 | |
| WSEX | 1 | |
| WSECTION | 2 | |

OBSERVER INFORMATION

| NAME | DIGITS | MEANING |
|---|---|---|
| WTAKEN | 1 | Was information regarding the subject's menstrual status obtained? Code '1' for yes, '2' for no. |
| WDAT | 6 | Date of interview (SAS date). |
| WOBSID | | Interviewer ID code. |

MONTHLY CONCEPTION SURVEY

| NAME | DIGITS | MEANING |
|---|---|---|
| WVISIT | 2 | Visit number. |
| WDATMEN | 6 | Date of last menses (SAS date). |
| WLAST | 1 | Was the date of last menses established by: Code '1' for Exact calendar, '2' for Calendar of events. |
| WURINPRG | 1 | Was a urine sample obtained for pregnancy test? Code '1' for yes, '2' for no. |
| WPREG | 1 | Is the subject pregnant? Code '1' for pregnant, '2' for not pregnant, '3' for not sure. |

# MONTHLY PREGNANCY SURVEY

## IDENTIFICATION INFORMATION

| NAME | DIGITS | MEANING |
|---|---|---|
| WCOUNTRY | 1 | THE FOLLOWING NINE VARIABLES ARE INCLUDED ON ALL SAS FILES CONTAINING DATA ABOUT INDIVIDUAL SUBJECTS. FOR A DESCRIPTION OF THESE VARIABLES, PLEASE SEE THE SECTION ENTITLED "SAS IDENTIFICATION INFORMATION". |
| WLOCATN | | |
| WCURRHH | | |
| WHHTYPE | 1 | |
| WID | | |
| WMEMBER | 1 | |
| WBIRTH | 6 | |
| WSEX | 1 | |
| WSECTION | 2 | |

## OBSERVER INFORMATION

| NAME | DIGITS | MEANING |
|---|---|---|
| WINTRVW | 1 | Was the subject interviewed?<br>Code '1' for yes,<br>'2' for no. |
| WDAT | 6 | Date of interview/exam. (SAS date) |
| WOBSIDIN | | ID code of person interviewing subject. |

## MONTHLY PREGNANCY SURVEY

| NAME | DIGITS | MEANING |
|---|---|---|
| WDATMENP | 6 | Date of last menses (SAS date). |
| WGESTAPP | 2 | Apparent month of gestation. |
| WSICK | 1 | Has the subject experienced morning sickness in the past week?<br>Code '1' for yes,<br>'2' for no. |
| WCRAVING | 1 | Has the subject experienced cravings in the past week?<br>Code '1' for yes,<br>'2' for no. |
| WQUICK | 1 | Has the subject experienced quickening/fetal movement in the past week?<br>Code '1' for yes,<br>'2' for no. |
| WEDEMA | 1 | Does the subject have lower-limb edema?<br>Code '1' for yes,<br>'2' for no. |

| | | |
|---|---|---|
| WBRFEED | 1 | Is the subject breast-feeding?<br>Code '1' for yes,<br>'2' for no. |
| WMEDSUPP | 1 | Does the subject take any medications or supplements?<br>Code '1' for yes,<br>'2' for no. |
| | | If yes, answer the follcwing 13 variables.<br>If no, enter the missing value code for 'not applicable'. |
| WIRUN | 1 | Does the subject take iron supplements?<br>Code '1' for yes,<br>'2' for no,<br>'3' for no answer. |
| WIRUNLEN | 2 | Length of use of iron (weeks). |
| WBCUMPLX | 1 | Does the subject take B-complex supplements?<br>Code '1' for yes,<br>'2' for no,<br>'3' for no answer. |
| WBCLEN | 2 | Length of use of B-complex (weeks). |
| WOTHVIT | 1 | Does the subject take other mineral/vitamin supplements?<br>Code '1' for yes,<br>'2' for no,<br>'3' for no answer. |
| WOVITLEN | 2 | Length of use of other mineral/vitamin supplements (weeks). |
| WHEALTH | 1 | Did the subject obtain supplements from health center?<br>Code '1' for yes,<br>'2' for no,<br>'3' for no answer. |
| WPRESCR | 1 | Is the subject taking prescription medication?<br>Code '1' for yes,<br>'2' for no,<br>'3' for no answer. |
| WPRLEN | 2 | Length of use of prescription medication (weeks). |
| WHERBAL | 1 | Is the subject taking herbal medication?<br>Code '1' for yes.<br>'2' for no,<br>'3' for no answer. |
| WHRBLEN | 2 | Length of use of herbal medication (weeks). |
| WOTHMED | 1 | Is the subject taking other medication?<br>Code '1' for yes,<br>'2' for no,<br>'3' for no answer. |
| WOMEDLEN | 2 | Length of use of other medication (weeks). |
| WCIGLM | 1 | Does the lead male smoke cigarettes?<br>Code '1' for yes,<br>'2' for no,<br>'3' for no answer. |

# LACTATION AND INFANT FEEDING

## IDENTIFICATION INFORMATION

| NAME | DIGITS | MEANING |
|---|---|---|
| LCOUNTRY | 1 | THE FOLLOWING NINE VARIABLES ARE INCLUDED ON ALL SAS FILES CONTAINING DATA ABOUT INDIVIDUAL SUBJECTS. FOR A DESCRIPTION OF THESE VARIABLES, PLEASE SEE THE SECTION ENTITLED "SAS IDENTIFICATION INFORMATION". |
| LLOCATN | | |
| LCURRHH | | |
| LHHTYPE | 1 | |
| LID | | Mother's ID code. |
| LMEMBER | 1 | Relationship of mother to lead male and female. |
| LBIRTH | 6 | Mother's date of birth (SAS date). |
| LSEX | 1 | Female (i.e., sex of mother). |
| LSECTION | 2 | |
| LIDINF | | Infant's ID code. |
| LBRTHINF | 6 | Infant's date of birth (SAS date). |
| LSEX | 1 | Sex of infant. |

## OBSERVER INFORMATION

| NAME | DIGITS | MEANING |
|---|---|---|
| LINTRVW | 1 | Was lactation data obtained?<br>Code '1' for yes,<br>'2' for no. |
| LDATIN | 6 | Date of interview (sas date). |
| LOBSIDIN | | Interviewer ID code. |
| LTAKEMLK | 1 | Were milk or colostrum samples taken?<br>Code '1' for yes,<br>'2' for no. |

## LACTATION VARIABLES

| NAME | DIGITS | MEANING |
|---|---|---|
| LTYPE | 1 | How is the baby fed?<br>Code '1' for entirely breastfed:<br>receives no formula<br>(or other substitute milk),<br>'2' for primarily breastfed:<br>does not receive formula every day,<br>'3' for breast and formula fed:<br>receives breast milk and formula daily,<br>'4' for entirely formula fed: |

receives no breast milk.

| | | |
|---|---|---|
| LOTHER | 1 | Is the mother breastfeeding another child?<br>Code '1' for yes,<br>'2' for no. |
| LELSE | 1 | Is the infant breastfed by someone other than his/her mother?<br>Code '1' for yes,<br>'2' for no. |
| LFSUPPL | 1 | Have food supplements been introduced?<br>Code '1' for yes,<br>'2' for no. |
| LADVICE | 1 | Did the mother receive advice about feeding the baby?<br>Code '1' for yes,<br>'2' for no. |

The following 4 variables should receive the missing value for 'not applicable' if the baby is not does not receive breast milk.

| | | |
|---|---|---|
| LWHEN | 1 | Number of days after birth baby was first put on breast. |
| LDEMAND | 1 | Is the baby fed on demand?<br>Code '1' for yes,<br>'2' for no. |
| LBOTH | 1 | Does the baby get both breasts?<br>Code '1' for yes,<br>'2' for no. |
| LBRADEQ | 1 | Is the breast milk adequate?<br>Code '1' for yes,<br>'2' for no. |

The following 9 variables should receive the missing value for 'not applicable' if the baby is not formula fed.

| | | |
|---|---|---|
| LFORM | 1 | Type of formula used.<br>Code '1' for cows milk,<br>'2' for buffalo milk,<br>'3' for goats milk,<br>'4' for powdered dry milk,<br>'5' for other.<br>(Appropriate list to be determined by projects.) |
| LDAYFORM | 2 | Number of times during day baby is formula fed. |
| LNTFORM | 2 | Number of times during night baby is formula fed. |
| LDILUTE | 1 | Do you dilute fresh milk?<br>Code '1' for yes,<br>'2' for no. |
| LFRESH | 3 | Ml of fresh milk in ratio of fresh milk to water. |
| LWATFR | 3 | Ml of water in ratio of fresh milk to water. |
| LDRY | 3 | Measures of dry milk powder in ratio of dry milk powder to water. |
| LWATDR | 3 | Ml of water in ratio of dry milk powder to water. |
| LBOILED | 1 | Is the formula water boiled?<br>Code '1' for yes,<br>'2' for no. |

The following 3 variables should receive the missing value code for 'not applicable' if the baby receives no supplements.

LWHYSUP 1 Why was supplementation started?
Code '1' if breast milk was scanty,
'2' if infant was hungry,
'3' if doctor or nurse advised it,
'4' if infant was not growing,
'5' for other reasons.

LSUPADEQ 1 Are supplements adequate?
Code '1' for yes,
'2' for no.

LSIDSUPP 1 Have there been side effects from supplements?
Code '1' for yes,
'2' for no.

The following 2 variables will receive the missing value code 'not applicable' in months when breast milk immunology tests are not scheduled.

LBIGALEV Breast milk: secretory IgA level: mg/dl.
LBIGGLEV Breast milk: secretory IgG level: mg/dl.

# LABORATORY ASSESSMENTS, INCLUDING IMMUNOLOGY

| VARIABLE | LENGTH | DESCRIPTION |
|---|---|---|
| ICOUNTRY | 1 | THE FOLLOWING NINE VARIABLES ARE INCLUDED ON ALL SAS FILES. (FOR INDIVIDUAL SUBJECTS) FOR A DESCRIPTION OF THESE VARIABLES, PLEASE SEE THE SECTION ENTITLED "SAS IDENTIFICATION INFORMATION." |
| ILOCATN | | |
| ICURRHH | | |
| IHHTYPE | 1 | |
| IID | | |
| IMEMBER | 1 | |
| IBIRTH | 6 | |
| ISEX | 1 | |
| ISECTION | 2 | |

## BLOOD TESTS

| | | |
|---|---|---|
| IBLDOBS | | ID code of person drawing blood for blood tests |
| IBLDAT | 6 | Date blood sample drawn (SAS date) |
| IBLTIME | 4 | Time blood drawn: hour/minute |
| IHEMOGLB | | Hemoglobin (g/dl) |
| IHIGGLEV | | IgG level: mg/dl |
| IALBULEV | | Serum albumin level: mg/dl |

# MORBIDITY/ILLNESS EPISODES

This file is part of the morbidity report along with the file containing a summary of days ill and days well: Morbidity Summary.

INTRODUCTION:

According to the Nutrition CRSP protocol, morbidity information on target individuals is to be collected weekly. If illness is present in a target subject, detailed information about the illness is to be collected on the type of illness present, as well as its severity and duration on days 1, 3, 7, 14..., until recovery.

At UC-berkeley we are requesting a summary of the morbidity visits whenever an episode of illness occurs in the household.

Records should be entered for a subject only if the subject was ill; if no illness occured no record is needed. A separate record must be filled out for each subject who was ill for each visit in which illness was reported. That is, when a subject is ill, a record for each follow-up visit will appear up to and including that in which the end of the illness is reported.

| VARIABLE | LENGTH | DESCRIPTION |
|---|---|---|
| MCOUNTRY | 1 | The following nine variables are included on all SAS files for individual subjects. For a description of these variables please see the section entitled "SAS IDENTIFICATION INFORMATION". |
| MLOCATN | | |
| MCURRHH | | |
| MHHTYPE | 1 | |
| MID | | |
| MMEMBER | 1 | |
| MBIRTH | 6 | |
| MSEX | 1 | |
| MSECTION | 2 | (Section code = 30 for morbidity) |

| | | |
|---|---|---|
| IDATE | 6 | Date of morbidity visit (SAS date) |
| MORGAN | 2 | Record the code number of the main organ system affected by the illness or the category of illness:<br>(Other categories can be added. Please inform UC-berkeley and give the categories 2-digit codes.)<br>01=Skin<br>02=Eye<br>03=Ear<br>04=Mouth, Teeth, Gums<br>05=Respiratory<br>06=Cardiovascular<br>07=Digestive<br>08=Genito-urinary<br>09=Extremities<br>10=Nervous system<br>11=Communicable diseases<br>12=Fever<br>13=Nutritional<br>14=Miscellaneous |
| MILLNESS | 4 | ICD code of illness |
| MDAY | 3 | Day number of this episode of illness (e.g. MDAY=1 if visit is on the first day of illness, MDAY=3 if visit is on the 3rd day of illness,...) |
| MBEGDAT | 6 | Date this episode of the illness began (SAS date) |
| MENDDAT | 3 | Date this episode of the illness ended (SAS date). Enter missing value for 'not applicable' if illness has not ended yet. |
| MSEVERE | 1 | How severe is the illness?<br>1=mild<br>2=severe<br><br>PLEASE NOTE: Mild and severe are carefully defined in the Morbidity Manual. |
| MDIAG | 1 | Who diagnosed this illness?<br>1=auxiliary or enumerator<br>2=nurse<br>3=physician |
| MSOUR | 1 | What was the source of the diagnosis?<br>1=subject's recall<br>2=interviewer observation<br>3=full physical examination |

Treatment:

| | | |
|---|---|---|
| MPLAC | 1 | The subject received treatment since last visit<br>1 = yes<br>2 = no |
| MTRAD | 1 | The subject received traditional treatment since last visit<br>1 = yes<br>2 = no |
| MSYMP | 1 | The subject received modern symptomatic treatment since last visit<br>1 = yes<br>2 = no |
| MANT | 1 | The subject received modern anti-biotic treatment since last visit<br>1 = yes<br>2 = no |
| MHELM | 1 | The subject received antihelminthics since last visit<br>1 = yes<br>2 = no |
| MDELACT | 1 | Change in activity during illness<br>1 = no change<br>2 = moderate reduction<br>3 = confined to bed<br>4 = critically ill |

Lead Male and Female:

| | | |
|---|---|---|
| MOUTHOME | 1 | Did subject work outside of home (employment since diagnosis or last visit?<br>1 = no change<br>2 = less hours/vigor<br>3 = unable to work |
| MFARM | 1 | Did subject do farm work?<br>1 = no change<br>2 = less hours/vigor<br>3 = unable to work<br>If the answer is '2' or '3': |
| MFARMHLP | 1 | Did anyone also do/help with subject farm work because he/she was ill?<br>1 = yes<br>2 = no<br>If the answer is '1': |
| MFARMWHO | 1 | Who helped with subject's farm work because |

| | | |
|---|---|---|
| | | he/she was ill?<br>1 = spouse<br>2 = child<br>3 = other family member<br>4 = other |
| MHOUSE | 1 | Did subject do household work?<br>1 = no change<br>2 = less hours/vigor<br>3 = unable to work<br>If the answer is '2' or '3':<br>Did anyone also do/help with subject's household work because he/she was ill?<br>1 = yes<br>2 = no |
| MHOUSEHP | 1 | |
| MCOOK | 1 | Did subject cook meals?<br>1 = no change<br>2 = less hours/vigor<br>3 = unable to work<br>If the answer is '2' or '3':<br>Did anyone also do/help with subject's meal preparation because he/she was ill?<br>1 = yes<br>2 = no |
| MCOOKHLP | 1 | |
| MCARE | 1 | Did subject care for children?<br>1 = no change<br>2 = less hours/vigor<br>3 = unable to work<br>If the answer is '2' or '3':<br>Did anyone also do/help with subject's child care because he/she was ill?<br>1 = yes<br>2 = no |
| MCAREHLP | 1 | |
| Toddler:<br>-------- | | |
| MANDAT1 | 6 | Date anthropometry measurements taken at the beginning of the illness (SAS date) |
| MBWT | | Weight in kilograms |
| MANDAT2 | 6 | Date anthropometry measurements taken at the and of the illness |
| | | Intake (24-hr recall): |
| MKCAL | 5 | Kcals |
| MPROT | 4 | g. protein |
| MFAT | 4 | g. fat |
| MCARBO | 4 | g. carbohydrates |
| MDIAR | 1 | Did the subject have diarrhea on the day |

| | | |
|---|---|---|
| | | of report?<br>1 = yes<br>2 = no<br>If yes: |
| MNUBM | 2 | Nember of bowel movements in past 24 hours |
| MLIQUID | 1 | Were the stools liquid?<br>1 = yes<br>2 = no |
| MBLUODY | 1 | Were the stools bloody?<br>1 = yes<br>2 = no |
| MSMELL | 1 | Were the stools foul-smelling?<br>1 = yes<br>2 = no |

# MORBIDITY SUMMARY

This file is part of the quarterly morbidity report along with the file containing a record of illnesses: Illness Episodes. This file contains information about the number of days for which morbidity information was collected-- the number of days a subject was ill, the number of days a subject was well, and the total number of days for which morbidity information was available. A separate record should be entered every quarter for every target and non-target individual in the study.

| VARIABLE | LENGTH | DESCRIPTION |
|---|---|---|
| MCOUNTRY | 1 | The following nine variables are included on all SAS files for individual subjects. For a description of these variables please see the section entitled "SAS IDENTIFICATION INFORMATION". |
| MLOCATN | | |
| MCURRHH | | |
| MHHTYPE | 1 | |
| MID | | |
| MMEMBER | 1 | |
| MBIRTH | 6 | |
| MSEX | 1 | |
| MSECTION | 2 | (Section code = 31 for morbidity summary) |
| MDATE | 6 | Date of quarterly morbidity report (SAS date) |
| NOWELL | 3 | Number of days free from all illnesses during the current quarter |
| NOILL | 3 | Number of days ill during the current quarter |
| NOMISS | 3 | Numer of days for which no morbidity information was available during the current quarter |
| TOTDAYS | 3 | Total number of days morbidity information |

was available for the current quarter--
this should equal the sum of:
number of well days
number of ill days

# PSYCHOLOGICAL FUNCTION

Note: There should be a separate file for each of the different age categories: Infant, Toddler, Schooler, Lead female, and Lead Male.

It may be necessary to put observational data in a separate file. Also, instead of just one ID, there may be two if observational data is based on mother-infant, mother-toddler, etc. pairs.

| VARIABLE | LENGTH | DESCRIPTION |
|---|---|---|
| PCOUNTRY | 1 | THE FOLLOWING NINE VARIABLES ARE INCLUDED ON ALL SAS FILES. (FOR INDIVIDUAL SUBJECTS) FOR A DESCRIPTION OF THESE VARIABLES, PLEASE SEE THE SECTION ENTITLED "SAS IDENTIFICATION INFORMATION." |
| PLOCATN | | |
| PCURRHH | | |
| PHHTYPE | 1 | |
| PID | | |
| PMEMBER | 1 | |
| PBIRTH | 6 | |
| PSEX | 1 | |
| PSECTION | 2 | |

## NEWBORN

| | | |
|---|---|---|
| PBNAS | 1 | BNAS Test taken: 1=Yes<br>2=No, infant ill.<br>3=No, infant died.<br>4=No, infant not available.<br>5=No, mother refused to allow test.<br>6=No, other reason. |
| PBNSET | 1 | BNAS Setting: Test taken<br>1=At home<br>2=Clinic<br>3=Other |

| | | |
|---|---|---|
| PBNSDAT | 6 | Date BNAS test completed (SAS date) |
| PBNSAGE | 3 | Age of infant taking the BNAS test:<br>Number of days |
| PBNTEST | | Code number of individual administering BNAS |
| PBNO1-xx | | BNAS Scores ( Projects to provide list of items tested with variable names ). |

INFANT

| | | |
|---|---|---|
| POBSERV1 | 1 | Observational Test done: at 3 months<br>1=Yes<br>2=No, infant ill.<br>3=No, infant died.<br>4=No, infant not available.<br>5=No, mother refused to allow test.<br>6=No, other reason. |
| POBSDAT1 | 6 | Date observation completed: at 3 months (SAS date) |
| POBSCO1 | | Code number for test observer: at 3 months |
| | | Infant's actual age in months and days when 3-month observational test completed: |
| POBSMOS1 | 1 | months |
| POBSDAY1 | 2 | days |
| POBSO1-xx | | Observational test scores: at 3 months (projects to provide list) |
| PBAYLEY1 | 1 | Bayley motor test taken: at 6 months<br>1=Yes<br>2=No, infant ill.<br>3=No, infant died.<br>4=No, infant not available.<br>5=No, mother refused to allow test.<br>6=No, other reason. |
| PBAYSET1 | 1 | Bayley motor test taken: at 6 months<br>1=At home<br>2=Clinic<br>3=Other |

| | | |
|---|---|---|
| PBAYDAT1 | 6 | Date Bayley motor test completed: at 6 months (SAS date) |
| | | Infant's actual age in months and days when 6-month Bayley motor test completed: |
| PBAYMOS1 | 1 | months |
| PBAYDAY1 | 2 | days |
| PBAYTST1 | | Code number of individual admistering test: at 6 months |
| PBAY01-xx | | Bayley motor test scores: at 6 months (projects to provide list) |
| PBIBR1 | 1 | Bayley Infant (BIBR) taken: at 6 months<br>1=Yes<br>2=No, infant ill.<br>3=No, infant died.<br>4=No, infant not available.<br>5=No, mother refused to allow test.<br>6=No, other reason. |
| PBIBSET1 | 1 | Test taken: at 6 months<br>1=At home<br>2=Clinic<br>3=Other |
| PBIBDAT1 | 6 | Date BIBR test completed: at 6 months (SAS date) |
| | | Infant's actual age in months and days when 6-month BIBR test completed. |
| PBIBMOS1 | 1 | months |
| PBIBDAY1 | 2 | days |
| PBIBTST1 | | Code number of individual administering test: at 6 months |
| PBIBR01-xx | | BIBR scores: at 6 months (projects to provide list) |
| POBSERV2 | 1 | Observational Test done: at 6 months<br>1=yes<br>2=No, infant ill.<br>3=No, infant died.<br>4=No, infant not available.<br>5=No, mother refused to allow test.<br>6=No, other reason. |
| POBSDAT2 | 6 | Date observation completed: at 6 months (SAS date) |
| POBSCD2 | | Code number for test observer: at 6 months |
| | | Infant's actual age in months and days when 6-month observational test completed. |
| POBSMOS2 | 1 | months |
| POBSDAY2 | 2 | days |
| POBSO2-xx | | Observational test scores: at 6 months (projects to provide list) |

## Toddler

| | | |
|---|---|---|
| PMENTAL1 | 1 | Bayley Mental- test taken: at 18 months<br>1=Yes<br>2=No, child ill.<br>3=No, child died.<br>4=No, child not available.<br>5=No, mother refused to allow test.<br>6=No, other reason. |
| PMENSET1 | 1 | Test taken: at 18 months<br>1=At home<br>2=Clinic<br>3=Other |
| PMENDAT1 | 6 | Date Bayley Mental test completed: at 18 months (SAS date) |
| PMENAGE1 | 2 | Child's actual age in months when 18-month Bayley Mental test completed. |
| PMENTST1 | | Code number of individual administering test: at 18 months |
| PMEN01-xx | | Bayley Mental test scores: at 18 months (projects to provide list) |
| PBMOTOR1 | 1 | Bayley Motor test taken: at 18 months<br>1=Yes<br>2=No, child ill.<br>3=No, child died.<br>4=No, child not available.<br>5=No, moter refused to allow test.<br>6=No, other reason. |
| PBMSET1 | 1 | Bayley motor test taken: at 18 months<br>1=At home<br>2=Clinic<br>3=Other |
| PBMDAT1 | 6 | Date Bayley Motor test completed: at 18 months (SAS date) |
| PBMAGE1 | 2 | Child's actual age in months when 18-month Mayley Motor test completed. |
| PBMTEST1 | | Code number of individual administering test: at 18 months |
| PBM01-xx | | Bayley Motor test scores: at 18 months (projects to provide list) |

| | | |
|---|---|---|
| PBIBR1 | 1 | Bayley Infant (BIBR) taken: at 18 months<br>1=Yes<br>2=No, child ill.<br>3=No, child died.<br>4=No, child not available.<br>5=No, mother refused to allow test.<br>6=No, other reason. |
| PBIBSET1 | 1 | Test taken: at 18 months<br>1=At home<br>2=Clinic<br>3=Other |
| PBIBDAT1 | 6 | Date BIBR test completed: at 18 months (SAS test) |
| PBIBAGE1 | 2 | Child's actual age in months when 18-month BIBR test completed. |
| PBIBIST1 | | Code number of individual administering test: at 18 months |
| PBIBR01-xx | | BIBR scores: at 18 months<br>(projects to provide list) |
| POBSERV1 | 1 | Observational Test done: at 18 months<br>1=Yes<br>2=No, child ill.<br>3=No, child died.<br>4=No, child not available.<br>5=No, mother refused to allow test.<br>6=No, other reason. |
| POBSDAT1 | 6 | Date observation completed: at 18 months (SAS date) |
| POBSCD1 | | Code number for test observer: at 18 months |
| POBSAGE1 | 2 | Child's actual age in months when 18-month observational test completed. |
| POBS01-xx | | Scores for Observational test: at 18 months<br>(projects to provide list) |
| PMENTAL2 | 1 | Bayley Mental- test taken: at 24 months<br>1=Yes<br>2=No, child ill.<br>3=No, child died.<br>4=No, child not available.<br>5=No, mother refused to allow test.<br>6=No, other reason. |
| PMENSET2 | 1 | Test taken: at 24 months<br>1=At home<br>2=Clinic<br>3=Other |

| | | |
|---|---|---|
| PMENDAT2 | 6 | Date Bayley Mental test completed: at 24 months (SAS date) |
| PMENAGE2 | 2 | Child's actual age in months when 24-month Bayley Mental test completed. |
| PMENTST2 | | Code number of individual administering test: at 24 months |
| PMEN02-xx | | Bayley Mental test scores: at 24 months (projects to provide list) |
| PBMUTOR2 | 1 | Bayley Motor test taken: at 24 months<br>1=Yes<br>2=No, child ill.<br>3=No, child died.<br>4=No, child not available.<br>5=No, moter refused to allow test.<br>6=No, other reason. |
| PBMSET2 | 1 | Bayley motor test taken: at 24 months<br>1=At home<br>2=Clinic<br>3=Other |
| PBMDAT2 | 6 | Date Bayley Motor test completed: at 24 months (SAS date) |
| PBMAGE2 | 2 | Child's actual age in months when 24-month Bayley Motor test completed. |
| PBMTST2 | | Code number of individual administering test: at 24 months |
| PBM02-xx | | Bayley Motor test scores: at 24 months (projects to provide list) |
| PBIBR2 | 1 | Bayley Infant (BIBR) taken: at 24 months<br>1=Yes<br>2=No, child ill.<br>3=No, child died.<br>4=No, child not available.<br>5=No, mother refused to allow test.<br>6=No, other reason. |
| PBIBSET2 | 1 | Test taken: at 24 months<br>1=At home<br>2=Clinic<br>3=Other |

| | | |
|---|---|---|
| PBIBDAT2 | 6 | Date BIBR test completed: at 24 months (SAS test) |
| PBIBAGE2 | 2 | Child's actual age in months when 24-month BIBR test completed. |
| PBIBTST2 | | Code number of individual administering test: at 24 months |
| PBIBR02-xx | | BIBR scores: at 24 months (projects to provide list) |
| POBSERV2 | 1 | Observational test done: at 24 months<br>1=Yes<br>2=NO, child ill.<br>3=No, child died.<br>4=No, child not available.<br>5=No, mother refused to allow test.<br>6=No, other reason. |
| POBSDAT2 | 6 | Date observation completed: at 24 months (SAS date) |
| POBSCD2 | | Code number for test observer: at 24 months |
| POBSAGE2 | 2 | Child's actual age in months when 24-month observational test completed. |
| POBS02-xx | | Scores for Observational test: at 24 months (projects to provide list) |
| PMENTAL3 | 1 | Bayley Mental- test taken: at 30 months<br>1=Yes<br>2=No, child ill.<br>3=No, child died.<br>4=No, child not available.<br>5=No, mother refused to allow test.<br>6=No, other reason. |
| PMENSET3 | 1 | Test taken: at 30 months<br>1=At home<br>2=Clinic<br>3=Other |
| PMENDAT3 | 6 | Date Bayley Mental test completed: at 30 months (SAS date) |
| PMENAGE3 | 2 | Child's actual age in months when 30-month Bayley Mental test completed. |
| PMENTST3 | | Code number of individual administering test: at 30 months |
| PMEN03-xx | | Bayley Mental test scores: at 30 months (projects to provide list) |

| | | |
|---|---|---|
| PBMOTOR3 | 1 | Bayley Motor test taken: at 30 months<br>1=Yes<br>2=No, child ill.<br>3=No, child died.<br>4=No, child not available.<br>5=No, moter refused to allow test.<br>6=No, other reason. |
| PBMSET3 | 1 | Bayley motor test taken: at 30 months<br>1=At home<br>2=Clinic<br>3=Other |
| PBMDAT3 | 6 | Date Bayley Motor test completed: at 30 months (SAS date) |
| PBMAGE3 | 2 | Child's actual age in months when 30-month Bayley Motor test completed. |
| PBMTST3 | | Code number of individual administering test: at 30 months |
| PBM03-xx | | Bayley Motor test scores: at 30 months (projects to provide list) |
| PBIBR3 | 1 | Bayley Infant (BIBR) taken: at 30 months<br>1=Yes<br>2=No, child ill.<br>3=No, child died.<br>4=No, child not available.<br>5=No, mother refused to allow test.<br>6=No, other reason. |
| PBIBSET3 | 1 | Test taken: at 30 months<br>1=At home<br>2=Clinic<br>3=Other |
| PBIBDAT3 | 6 | Date BIBR test completed: at 30 months (SAS test) |
| PBIBAGE3 | 2 | Child's actual age in months when 30-month BIBR test completed. |
| PBIBTST3 | | Code number of individual administering test: at 30 months |
| PBIBR03-xx | | BIBR scores: at 30 months (projects to provide list) |
| POBSERV3 | 1 | Observational Test done: at 30 months<br>1=Yes<br>2=NO, child ill.<br>3=No, child died.<br>4=No, child not available.<br>5=No, mother refused to allow test.<br>6=No, other reason. |

| | | |
|---|---|---|
| POBSDAT3 | 6 | Date observation completed: at 30 months (SAS date) |
| POBSCD3 | | Code number for test observer: at 30 months |
| POBSAGE3 | 2 | Child's actual age in months when 30-month observational test completed. |
| POBS03-xx | | Scores for Observational test: at 30 months (projects to provide list) |

School Age: 7-9 Years

| | | |
|---|---|---|
| PWECHN | 1 | Wechsler test taken: at entry<br>1=Yes<br>2=No, child ill.<br>3=No, child died.<br>4=No, child not available.<br>5=No, mother refused to allow test.<br>6=No, other reason. |
| PWCHSETN | 1 | Wechsler test taken: at entry<br>1=At home<br>2=At school<br>3=At clinic |
| PWCHDATN | 6 | Date Wechsler test completed: at entry (SAS date) |
| PWCHAGEN | 3 | Wechsler test: At entry<br>age of child in months |
| PWCHTSTN | 3 | Code number of indiv. administering Wechsler test: at entry |
| PWCHON-xx | | Wechsler Scores: at entry<br>(projects to provide list) |
| PBARRET1 | 1 | Barrett-Yarrow-Klein classroom observation<br>Test taken: at the first time<br>1=Yes<br>2=No, child ill.<br>3=No, child died.<br>4=No, child not available.<br>5=No, mother refused to allow test.<br>6=No, other reason. |
| PBARDAT1 | 6 | Date Barrett-Yarrow-Klein observation completed: at the first time (SAS date) |
| PBARAGE1 | 3 | Barrett-Yarrow-Klein: at the first time<br>age at testing in months |
| PBARTST1 | | Barrett-Yarrow-Klein: at the first timt, Tester<br>Code number of individual administering test |

| | | |
|---|---|---|
| PBARO1-xx | | Barrett-Yarrow-Klein scores: at the first time (projects to provide list) |
| PWECHX | 1 | Wechsler test taken: at exit<br>1=Yes<br>2=No, child ill.<br>3=No, child died.<br>4=No, child not available.<br>5=No, mother refused to allow test.<br>6=No, other reason. |
| PWCHSETX | 1 | Wechsler test taken: at exit<br>1=At home<br>2=At school<br>3=At clinic |
| PWCHDATX | 6 | Date Wechsler test completed: at exit (SAS date) |
| PWCHAGEX | 3 | Wechsler test: at exit<br>age of child in months |
| PWCTSTX | 3 | Code number of indiv. administering Wechsler test: at exit |
| PWCHOX--xx | | Wechsler Scores: at exit<br>(projects to provide list) |
| PBARRET2 | 1 | Barrett-Yarrow-Klein classroom observation<br>Test taken: at the second time<br>1=Yes<br>2=No, child ill.<br>3=No, child died.<br>4=No, child not available.<br>5=No, mother refused to allow test.<br>6=No, other reason. |
| PBARDAT2 | 6 | Date Barrett-Yarrow-Klein observation completed: at the second time (SAS date) |
| PBARAGE2 | 3 | Barrett-Yarrow-Klein: at the second time<br>age at testing in months |
| PBARTST2 | | Barrett-Yarrow-Klein: at the second time, Tester<br>Code number of individual administering test |
| PBARO2-xx | | Barrett-Yarrow-Klein scores: at the second time (projects to provide list) |

## Adult Women

| | | |
|---|---|---|
| PWAIS | 1 | Adult WAIS test<br>Test taken: 1=Yes<br>2=No, subject ill.<br>3=No, subject died.<br>4=No, subject not available.<br>5=No, subject refused to take test.<br>6=No, other reason. |
| PWAISSET | 1 | WAIS setting- Test taken<br>1=At home<br>2=Other |
| PWAISDAT | 6 | Date WAIS test completed (SAS date) |
| PWAISAGE | 2 | WAIS-Age in years |
| PWAISTST | | WAIS Test- Code number of individual administering test |
| PWAISMAR | 1 | WAIS test<br>1=Married<br>2=Single<br>3=Divorced<br>4=Separated |
| PWAISOCC | 1 | WAIS Occupation Categories: |
| PWAISED | 1 | WAIS Education level: |
| PWAIS01-xx | | WAIS scores (projects to provide list) |

## Adult Male

| | | |
|---|---|---|
| PWAIS | 1 | Adult WAIS<br>Test taken: 1=Yes<br>2=No, subject ill.<br>3=No, subject died.<br>4=No, subject not available.<br>5=No, subject refused to take test.<br>6=No, other reason. |
| PWAISSET | 1 | WAIS Test taken: 1=At home<br>2=Clinic<br>3=Other |
| PWAISDAT | 6 | Date WAIS test completed (SAS date) |
| PWAISAGE | 2 | WAIS Test- Age in years |
| PWAISTST | | WAIS Test- Code number of individual administering test. |
| PWAISMAR | 1 | WAIS Test- Marital Categories:<br>1=Married<br>2=Single<br>3=Divorced<br>4=Separated |
| PWAISOCC | 1 | WAIS TEST<br>Occupation Categories: |
| PWAISED | 1 | WAIS TEST<br>Education Categories: |
| PWAIS01-xx | | WAIS Scores (projects to provide list) |

# HOUSEHOLD SANITATION

Values for the following variables are to be entered for each household every 3 months. It is assumed that:

1) Each variable value denotes the household's adequacy score wi respect to sanitation. At each field site households will be observed and reports obtained regarding specific items from w the adequacy score will be determined.
2) Each score value will be chosen from a list of exhaustive, mutually exclusive categories indicating degree of adequacy. Categories must be well-defined and described fully.
3) Berkeley will be provided with each project's list of categories for each variable, as well as a clear definition of each category and the method for determining scores.

## IDENTIFICATION INFORMATION

| VARIABLE | LENGTH | DESCRIPTION |
|---|---|---|
| SCOUNTRY | 1 | THE FOLLOWING FIVE VARIABLES ARE INCLUDED ON ALL SAS FILES. FOR A DESCRIPTION OF THESE VARIABLES, PLE SEE THE SECTION ENTITLED "SAS IDENTIFICAT INFORMATION". |
| SLOCATN | | |
| SCURRHH | | |
| SHHTYPE | 1 | |
| SSECTION | 2 | |

## OBSERVER INFORMATION

| VARIABLE | LENGTH | DESCRIPTION |
|---|---|---|
| SOBS | 1 | Was the household observed? 1 = Yes 2 = No. |
| SOBSID | | Observer code. |
| SDAT | 6 | Date of observation (SAS date). |

## SANITATION AREAS

| VARIABLE | LENGTH | EXAMPLES OF ITEMS INCLUDED |
|---|---|---|
| SHYGIEN | | Household hygienic adequacy score |

# INDIVIDUAL DEMOGRAPHIC DATA

## IDENTIFICATION INFORMATION

| NAME | DIGITS | MEANING |
|---|---|---|
| ECOUNTRY | 1 | THE FOLLOWING NINE VARIABLES ARE INCLUDED ON ALL SAS FILES CONTAINING DATA ABOUT INDIVIDUAL SUBJECTS. FOR A DESCRIPTION OF THESE VARIABLES, PLEASE SEE THE SECTION ENTITLED "SAS IDENTIFICATION INFORMATION". |
| ELOCATN | | |
| ECURRHH | | |
| EHHTYPE | 1 | |
| EID | | |
| EMEMBER | 1 | |
| EBIRTH | 6 | |
| ESEX | 1 | |
| ESECTION | 2 | |

## OBSERVER INFORMATION

| NAME | DIGITS | MEANING |
|---|---|---|
| ETAKEN | 1 | Was socio-economic data collected for the subject?<br>1 = Yes<br>2 = No. |
| EDAT | 6 | Date of interview (SAS date) |
| EOBSID | | Interviewer ID code. |

## CHARACTERISTICS OF HOUSEHOLD MEMBERS

| NAME | DIGITS | MEANING |
|---|---|---|
| ERELATN | 2 | Subject's relation to head of household:<br>1 = Household Head<br>2 = Parents or Parents-in-Law<br>3 = Wife or Husband<br>4 = Son or Daughter<br>5 = Son-in-Law or Daughter-in-Law<br>6 = Grandchild<br>7 = Brother or Sister<br>8 = Other relative<br>9 = Domestic servant<br>10 = Farm worker living in household<br>11 = Other unrelated person. |
| EMARITAL | 1 | Subject's Marital Status:<br>1 = Single (never married)<br>2 = Married<br>3 = Divorced |

```
                    4 = Widowed.
ELITERAT  1     Is the subject literate?
                    1 = Yes
                    2 = No.
ESCHOOL   1     Is the subject currently enrolled in school?
                    1 = Yes
                    2 = No.
EYEARS    2     Number of years of school completed.
EDUCTYPE  1     Type of education completed:
                    1 = Primary
                    2 = Secondary
                    3 = College
                    4 = Vocational
                    5 = Adult literacy
                    6 = Other
                    7 = None.
EOCCUP    2     Subject's Occupation:
                (Categories to be developed by projects
                 as appropriate.)
                    1 = Housewife or House worker
                    2 = Farmer or family farm worker
                    3 = Farm laborer
                    4 = Craftsman or industry worker
                    5 = Construction worker
                    6 = Government employee
                    7 = Other type of worker
                    8 = Disabled or unable to work
                    9 = Regular army
                   10 = Student
                   11 = Child under 12 years in none of the above categories
                   12 = Looking for work.
ESTATUS   1     Subject's employment status:
                    1 = Working for somebody else
                    2 = Self-employed
                    3 = Working without pay for family farm or business
                    4 = Not working.
```

# HOUSEHOLD SOCIO-ECONOMIC DATA

## IDENTIFICATION INFORMATION

| NAME | DIGITS | MEANING |
|---|---|---|
| ECOUNTRY | 1 | THE FOLLOWING FIVE VARIABLES ARE INCLUDED ON ALL SAS FILES. FOR A DESCRIPTION OF THESE VARIABLES, PLEASE SEE THE SECTION ENTITLED "SAS IDENTIFICATION INFORMATION". |
| ELOCATN | | |
| ECURRHH | | |
| EHHTYPE | 1 | |
| ESECTION | 2 | |

## OBSERVER INFORMATION

| NAME | DIGITS | MEANING |
|---|---|---|
| ETAKEN | 1 | Was the household's socio-economic status observed?<br>1 = Yes<br>2 = No. |
| EDAT | 6 | Date of observation (SAS date) |
| EOBSID | | Observer ID code. |

## HOUSING

| NAME | DIGITS | MEANING |
|---|---|---|
| ETYPE | 1 | Type of dwelling:<br>1 = Room<br>2 = Flat<br>3 = Single family house<br>4 = Place of residence and business<br>5 = Other. |
| EROOFING | | Material used for roofing:<br>(Choose from appropriate list). |
| EWALLS | | Material used for walls:<br>(Choose from appropriate list). |
| EFLOORS | | Material used for flooring:<br>(Choose from appropriate list). |
| EWINDOWS | 1 | Type of windows:<br>1 = Paned with glass<br>2 = Covered with plastic<br>3 = Covered with fabric<br>4 = Covered with other material<br>5 = Not covered<br>6 = No window openings. |
| EDOORS | | Type of doors: |

(Choose from appropriate list).

ECONDITN 1 Quality of house construction:
1 = Very good
2 = Good
3 = Fairly good (requiring minor repairs)
4 = Poor (requiring major renovation)
5 = Very bad (cannot be renovated).

EBLDG 2 Number of buildings.

EROOMS 2 Number of rooms for the exclusive use of household.

EKITCHEN 1 Separate kitchen?
1 = Yes
2 = No.

ECOOKING 1 Type of cooking facilities:
1 = Electric stove
2 = Gas stove
3 = Wood stove
4 = Other
5 = None.

EWATER 1 Source of drinking water:
1 = Running water piped to dwelling
2 = Water from communal stand -- pipe
3 = River, canal, or well
4 = Other.

EWATQUEL Water quality -- measures of water quality to be determined by appropriate laboratory test of sample each quarter.

ESANITAT 1 Type of toilet system:
1 = Water closet for household only
2 = Latrine in dwelling
3 = Latrine shared
4 = Public (street) latrine
5 = Other
6 = No latrine.

ELIGHT 1 Source of light:
1 = Electricity
2 = Kerosene
3 = Butane
4 = Other

EGARBAGE 1 Type of garbage collection system:
1 = Municipal collection
2 = Private collection
3 = Communal dump
4 = In the road or river
5 = Other.

ESOCIAL Social status score of household.
(projects to provide data used in constructing score, and method of construction).

ECONOMIC Economic status score of household.
(projects to provide data used in constructing score, and method of construction).

# COMMUNITY CLIMATIC DATA

## IDENTIFICATION INFORMATION

| NAME | DIGITS | MEANING |
|---|---|---|
| ECOUNTRY | 1 | SEE "SAS IDENTIFICATION INFORMATION". |
| ESECTION | 2 | SEE "SAS IDENTIFICATION INFORMATION". |

## OBSERVER INFORMATION

| NAME | DIGITS | MEANING |
|---|---|---|
| ERECCL | 1 | Were data on climatic conditions obtained?<br>1 = Yes<br>2 = No. |
| EOBSCL | | ID code of person obtaining climatic data. |
| EDAT | 6 | Date climatic data obtained (SAS date) |

## CLIMATIC CONDITIONS

| NAME | DIGITS | MEANING |
|---|---|---|
| ETEMP | 3 | Average daily temperature (degrees Celsius). |
| ERAIN | 4 | Average rainfall (cm). |
| EBAROM | | Average barometric pressure. |

# CHILD CARE AND SANITATION ACTIVITIES OF LEAD FEMALE

Values for the following variables are to be entered once every three months.
It is assumed that:

1) Each variable value denotes the lead female's proficiency score in performing care-giving activities for the target child with respect to each of the following areas: nutritional activities, hygienic practices, illness care, clothing care, and supervision and safety.
   At each field site care-giving behaviors will be observed on specific activities from which the proficiency score will be determined. Each project will report its method of observation. Examples of specific activities that projects may include are listed below under each of the areas of nutrition, hygiene, illness, clothing, and safety.
2) Each score will be determined by the frequency, duration, quality, and appropriateness of performance of specific activities based on observations of mother/child interaction.
3) Each score value will be chosen from a list of exhaustive, mutually exclusive categories indicating extent of proficiency. Categories must be well-defined and described fully.
4) When the activity represented by a variable is not applicable to the given care-giver/child pair type or situation (e.g. no illness implies no illness care), the variable will receive the missing value code for "not applicable".
5) Berkeley will be provided with each project's list of categories for each variable, as well as a clear definition of each category and the method for determining scores.

## IDENTIFICATION INFORMATION

| NAME | DIGITS | MEANING |
|---|---|---|
| CCOUNTRY | 1 | THE FOLLOWING NINE VARIABLES ARE INCLUDED ON ALL SAS FILES CONTAINING DATA ABOUT INDIVIDUAL SUBJECTS. FOR A DESCRIPTION OF THESE VARIABLES, PLEASE SEE THE SECTION ENTITLED "SAS IDENTIFICATION INFORMATION". |
| CLOCATN | | Location of child's current household. |
| CCURRHH | | Code number of child's current household. |
| CHHTYPE | 1 | Type of child's current household. |
| CID | | Subject ID of child. |
| CMEMBER | 1 | Child's relationship to lead male and female. |
| CBIRTH | 6 | Child's date of birth (month-day-year). |
| CSEX | 1 | Sex of child. |
| CSECTION | 2 | |

OBSERVER INFORMATION

| | | |
|---|---|---|
| COBS | 1 | Were the lead female and child observed?<br>1 = Yes<br>2 = No. |
| COBSID1 | | First observer's identification code. |
| COBSID2 | | Second observer's identification code. |
| CDAT1 | 6 | Initial observation date<br>(month-day-year). |
| CDAT1 | 6 | Final observation date<br>(month-day-year). |

CHILD CARE AREAS

| NAME | DIGITS | EXAMPLES OF ACTIVITIES TO BE INCLUDED BY PROJECTS WHERE APPROPRITED |
|---|---|---|
| CNUTRITN | | Nutritional Activities:<br>Food preparation.<br>Breast-feeding of infant or toddler.<br>Feeding or assisting child with eating.<br>Dividing or serving food or beverages.<br>Adequacy of food storage. |
| CHYGIENE | | Hygienic Practices:<br>Washing and drying of mother's hands, face, hair, body, brushing teeth, combing hair and dressing.<br>Washing and drying child's hands, face, hair, body, brushing teeth, combing hair and dressing.<br>Use of soap for bathing by mother.<br>Use of disinfectants in house.<br>Dishwashing.<br>Boiling of drinking water.<br>Use of diapers.<br>Adequacy of diaper washing.<br>Disposal of fecal matter in house/yard.<br>Removal of garbage from house/yard.<br>Wearing of foot protection. |
| CILLNESS | | Illness Care:<br>Frequency of bathing while ill.<br>Preparing and serving special food.<br>Preparing and administering remedies.<br>Seeking healer when appropriate. |
| CLOTHES | | clothing care:<br>Washing, boiling, ironing clothes.<br>Protection of clothes from insects.<br>Mending of clothes. |
| CSAFETY | | Supervision and Safety:<br>Attention to hazards in house.<br>Attention to location of child.<br>Awareness of sibling conflicts.<br>Parent's perception of protective care.<br>Holding, carrying, playing with child.<br>Scolding, punishing or praising child.<br>Teaching or helping child. |
| CCLEAN | | Cleanliness of infant's or toddler's environment. |