

**SOCIO-ECONOMIC DIFFERENCES
IN
HEALTH, NUTRITION, AND POPULATION**

**ZIMBABWE
1994, 1999**

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FOREWORD

The World Bank shares the desire of its member states and client countries to ensure that the poor partake fully in the health gains that the countries achieve. To assist in this, the Bank, in cooperation with the Dutch and Swedish Governments, has sponsored the set of reports providing basic information about health inequalities within countries to which this document belongs.

The information shows clearly that disparities in both health conditions and health service use are unacceptably large. As countries and the Bank work to reduce important inequalities among regions and countries, there is a clear need for equally vigorous efforts to lessen the inequity represented by intra-country differences among socio-economic groups.

My colleagues and I hope that all concerned with equity in health will find this information useful in making the case for effective actions to improve the health of the poor, and in designing programs to achieve this crucial objective.

Joy Phumaphi
Vice President
Human Development Network
The World Bank

INTRODUCTION

This report is one in a series that provides basic information about health, nutrition, and population (hnp) inequalities within fifty-six developing countries.

The series to which the report belongs is an expanded and updated version of a set covering forty-five countries that was published in 2000. The fifty-six reports in the current series cover almost all DHS surveys undertaken during the period beginning in 1990 and ending with the date of the last survey for which data were publicly available as of June 2006.¹

The report's contents are intended to facilitate preparation of country analyses and the development of activities to benefit poor people. To this end, the report presents data about hnp status, service use, and related matters among individuals belonging to different socio-economic classes. The principal focus is on differences among groups of individuals defined in terms of the wealth or assets of the households where they reside. The source of data is the Demographic and Health Survey (DHS) program, a large, multi-country household survey project.

The figures in this and the other reports in the series draw on responses to questions about household wealth or assets included in the DHS questionnaire, which were similar for all the surveys covered. These responses served as the basis for the construction of a wealth index, which was used to rank individuals according to the index value for the household to which they belonged. The individuals were then divided into quintiles, and the mean value for each of up to approximately 120 indicators was calculated for each quintile.

The report is organized in four principal parts:

- Parts one and two, which constitute the report's core, consist of tables presenting quintile-specific data for each hnp indicator covered from the two most recent DHS surveys available at the time of the report's publication. In each part there are three sets of tables: the first provides quintile-specific information for the total population; the second presents data separately for quintiles of females and males; the third features quintile-specific information presented separately for rural and urban residents. Each of these sets is divided into four sections: one dealing with hnp status, the second with the use of hnp services, the third with hnp-related behavior, and the fourth with other hnp status determinants.

- Part three provides supplementary technical information designed to help readers understand the data presented in parts one and two. This information deals with such issues as how the covered hnp indicators were defined and how the quintile-specific estimates were derived.

- Parts four and five present supporting tables that deal with three of the technical matters covered in part three: the size of the sample for each indicator covered; the standard error

¹ The average interval of approximately two years between data collection and availability means that the latest surveys covered were conducted in 2005.

for each quintile-specific estimate in the total population; and the items used in constructing the wealth index, along with the weight assigned to each.

An additional, sixth part consists of three annexes, for readers interested in applying the approach used in the report or in learning more about the other reports in this series. The first annex is an annotated bibliography containing further information about the technical issues concerning the approach used in the report, and about employing that approach to examine additional issues using DHS or other data sets. The second shows how the report's approach can be applied to monitor the distribution of benefits from other hnp programs, and provides a tool for doing so. The third annex is a list of all fifty-six countries for which reports are available, along with an indication of how to obtain copies of the reports dealing with them.

The authors thank the Dutch and Swedish Governments for the generous support that made production of this report possible.

PART I. BASIC TABLES, 1999

A. TOTAL POPULATION

B. FEMALE AND MALE POPULATIONS

C. RURAL AND URBAN POPULATIONS

Notes:

- Each of the three sections referred to above consists of four divisions, presenting data for: I) hnp status; II) hnp service use; III) hnp-related individual and household behavior; and IV) other, underlying determinants of hnp status.
- Full definitions of all indicators covered in the tables are provided in section A of the technical notes found in part II.
- “na” appears in the table cells when data are not available, usually because the DHS survey concerned did not collect information about the indicator(s) in question.
- Figures in the tables shown within parentheses indicate the absence of adequate observations to produce acceptably reliable values. Asterisks appear when the number of observations was too small to justify the presentation even of figures within parentheses. (For further information, see the section on “Sampling Errors” in the presentation of data and methods in part II.B.) Asterisks also will be found in columns showing statistical indices of inequality when the amount of quintile-specific information available is inadequate to permit computation of the value for the index concerned.
- Female/male tables include only indicators relevant for both sexes; those pertaining to only one sex (e.g., fertility, women’s nutritional status, antenatal care, attended deliveries) have been omitted.

Zimbabwe
1999 - TOTAL POPULATION

Part I: HNP STATUS

Indicator	Wealth Quintiles						Low/High Ratio	Low-High Diff. (Abs. Val.)	Concentration Index	
	Low	2nd	3rd	4th	High	Avg.			Value	Standard Errors
A. Childhood illness and mortality										
Infant mortality rate	59.1	63.9	67.1	63.1	44.3	59.7	1.33	14.80	-0.0360	0.0014
Under-five mortality rate	99.5	93.2	102.2	91.0	62.2	90.3	1.60	37.30	-0.0650	0.0014
Prevalence of fever	25.8	28.1	30.5	23.8	21.3	25.8	1.21	4.50	-0.0324	0.0162
Prevalence of diarrhea	13.7	13.6	17.4	13.8	10.8	13.9	1.27	2.90	-0.0263	0.0234
Prevalence of acute respiratory infection (ARI)	18.2	18.3	18.0	13.5	11.6	15.8	1.57	6.60	-0.0830	0.0214
B. Fertility										
Total fertility rate	4.9	4.6	4.5	3.9	2.6	4.0	1.88	2.30	-0.1179	0.0007
Adolescent fertility rate	162.0	108.0	106.0	130.0	74.0	112.0	2.19	88.00	-0.1094	0.0023
C. Nutritional status (%)										
<i>Children:</i>										
Moderate stunting	19.2	16.2	21.4	15.1	13.1	17.0	1.47	6.10	-0.0677	0.0235
Severe stunting	13.5	9.8	10.2	7.4	5.5	9.4	2.45	8.00	-0.1177	0.0342
Moderate underweight	15.8	12.7	13.4	9.0	5.7	11.4	2.77	10.10	-0.1621	0.0299
Severe underweight	2.1	2.3	1.2	1.2	0.7	1.5	3.00	1.40	-0.2800	0.0916
Mild anemia	na	na	na	na	na	na	na	na	na	na
Moderate anemia	na	na	na	na	na	na	na	na	na	na
Severe anemia	na	na	na	na	na	na	na	na	na	na
<i>Women:</i>										
Malnutrition	8.5	5.5	5.4	6.1	4.1	5.8	2.07	4.40	-0.1408	0.0344
Mild anemia	na	na	na	na	na	na	na	na	na	na
Moderate anemia	na	na	na	na	na	na	na	na	na	na
Severe anemia	na	na	na	na	na	na	na	na	na	na
D. Female circumcision (%)										
<i>Prevalence of circumcision:</i>										
Girls	na	na	na	na	na	na	na	na	na	na
Women	na	na	na	na	na	na	na	na	na	na
<i>Prevalence of occlusion:</i>										
Girls	na	na	na	na	na	na	na	na	na	na
Women	na	na	na	na	na	na	na	na	na	na
E. Sexually transmitted disease										
<i>Prevalence of genital discharge:</i>										
Women	6.6	4.4	5.4	8.2	6.2	6.3	1.06	0.40	0.0234	0.0320
Men	5.7	3.8	6.2	3.1	2.0	3.8	2.85	3.70	-0.1779	0.0640
<i>Prevalence of genital ulcer:</i>										
Women	5.1	3.0	2.8	5.1	2.9	3.8	1.76	2.20	-0.0478	0.0414
Men	6.1	4.3	3.3	3.9	3.5	4.1	1.74	2.60	-0.0923	0.0631

Zimbabwe

1999 - TOTAL POPULATION

Part II: Intermediate Determinants of HNP Status - HNP SERVICE USE

Indicator	Wealth Quintiles						Low/High Ratio	Low-High Diff. (Abs. Val.)	Concentration Index	
	Low	2nd	3rd	4th	High	Avg.			Value	Standard Errors
A. Childhood immunization										
BCG coverage	90.5	87.9	84.5	86.0	92.3	88.1	0.98	1.80	0.0010	0.0070
Measles coverage	80.2	77.9	79.2	73.8	85.8	79.1	0.93	5.60	0.0093	0.0116
DPT coverage	80.7	83.2	78.2	77.9	85.7	80.9	0.94	5.00	0.0082	0.0103
Full basic coverage	63.9	69.2	67.9	56.6	64.1	64.0	1.00	0.20	-0.0093	0.0167
No basic coverage	9.5	11.3	15.5	13.4	7.7	11.6	1.23	1.80	-0.0121	0.0533
Hepatitis B coverage	na	na	na	na	na	na	na	na	na	na
Yellow fever coverage	na	na	na	na	na	na	na	na	na	na
B. Treatment of childhood illnesses										
<i>Treatment of fever:</i>										
Medical treatment of fever	47.9	50.8	41.9	41.8	50.0	46.2	0.96	2.10	-0.0145	0.0230
Treatment in a public facility	39.5	49.4	37.3	29.0	27.9	36.9	1.42	11.60	-0.0760	0.0264
Treatment in a private facility	8.4	1.4	4.6	12.1	20.3	8.8	0.41	11.90	0.2750	0.0828
<i>Treatment of acute respiratory infection (ARI):</i>										
Medical treatment of ARI	55.1	46.2	40.7	53.0	55.9	49.8	0.99	0.80	-0.0103	0.0268
Treatment in a public facility	45.2	41.3	36.2	37.0	33.6	39.2	1.35	11.60	-0.0484	0.0323
Treatment in a private facility	10.0	4.8	4.5	16.0	21.5	10.5	0.47	11.50	0.1490	0.0913
<i>Treatment of diarrhea:</i>										
Use of oral rehydration therapy	76.7	80.0	77.7	76.2	91.6	79.7	0.84	14.90	0.0280	0.0131
Medical treatment of diarrhea	33.9	39.8	30.4	27.6	29.9	32.1	1.13	4.00	-0.0373	0.0403
Treatment in a public facility	28.7	39.8	27.6	22.3	18.2	27.4	1.58	10.50	-0.0841	0.0456
Treatment in a private facility	5.2	0.0	2.8	2.6	11.8	4.1	0.44	6.60	0.3330	0.1476
C. Antenatal and delivery care										
<i>Antenatal care visits:</i>										
To a medically trained person	94.1	92.9	89.0	92.4	96.9	93.1	0.97	2.80	0.0009	0.0025
To a doctor	4.9	6.6	9.5	14.5	28.4	13.2	0.17	23.50	0.3478	0.0307
To a nurse or trained midwife	89.2	86.3	79.5	77.9	68.5	79.9	1.30	20.70	-0.0557	0.0056
Multiple visits to a medically trained person	84.1	80.1	77.0	71.4	68.6	75.9	1.23	15.50	-0.0437	0.0061
<i>Antenatal care content:</i>										
Tetanus toxoid	82.3	78.7	78.3	78.4	79.0	79.3	1.04	3.30	-0.0092	0.0055
Prophylactic antimalarial treatment	25.6	29.0	30.0	19.3	11.1	22.6	2.31	14.50	-0.1001	0.0181
Iron supplementation	60.0	61.3	58.0	59.8	58.7	59.6	1.02	1.30	0.0018	0.0090
<i>Delivery attendance:</i>										
By a medically trained person	56.7	67.3	64.8	79.7	93.5	72.4	0.61	36.80	0.0901	0.0054
By a doctor	6.8	7.0	8.4	13.4	22.3	11.6	0.30	15.50	0.2532	0.0306
By a nurse or trained midwife	49.9	60.4	56.4	66.3	71.3	60.9	0.70	21.40	0.0593	0.0078
In a public facility	41.2	52.5	50.4	70.0	79.0	58.8	0.52	37.80	0.1235	0.0079
In a private facility	15.0	14.7	14.4	8.8	14.9	13.4	1.01	0.10	-0.0459	0.0257
At home	36.0	28.2	31.5	16.3	4.8	23.3	7.50	31.20	-0.2453	0.0157
D. Contraceptive services										
<i>Contraceptive prevalence:</i>										
Women	41.1	42.1	42.8	53.7	67.4	50.4	0.61	26.30	0.0975	0.0094
Men	50.7	49.1	59.4	62.0	72.7	60.9	0.70	22.00	0.0656	0.0134

Zimbabwe

1999 - TOTAL POPULATION

Part II: Intermediate Determinants of HNP Status - HNP SERVICE USE (Cont.)

Indicator	Wealth Quintiles						Low/High Ratio	Low-High Diff. (Abs. Val.)	Concentration Index	
	Low	2nd	3rd	4th	High	Avg.			Value	Standard Errors
D. Contraceptive services (cont.)										
<i>Source of contraception - public sector:</i>										
Women	91.1	88.5	83.9	77.4	62.7	77.8	1.45	28.40	-0.0726	0.0076
Men	na	na	na	na	na	na	na	na	na	na
<i>Source of contraception - private sector:</i>										
Women	7.5	10.6	15.6	20.9	35.7	20.9	0.21	28.20	0.2539	0.0264
Men	na	na	na	na	na	na	na	na	na	na
E. Treatment of adult illnesses										
<i>Treatment of genital discharge, ulcer, sore:</i>										
Women	55.6	73.3	69.7	57.0	63.1	62.1	0.88	7.50	0.0030	0.0235
Men	(75.4)	*	(85.9)	(70.1)	*	72.8	*	*	*	*
<i>Treatment of genital discharge, ulcer, sore in public facilities:</i>										
Women	na	na	na	na	na	na	na	na	na	na
Men	(92.2)	*	(97.0)	(90.3)	*	90.6	*	*	*	*
<i>Voluntary counseling and testing for HIV/AIDS:</i>										
Women	6.8	8.8	7.7	13.8	18.3	11.8	0.37	11.50	0.1881	0.0211
Men	6.4	4.4	6.2	9.9	15.4	9.2	0.42	9.00	0.1734	0.0352

Zimbabwe

1999 - TOTAL POPULATION

Part III: Intermediate Determinants of HNP Status - INDIVIDUAL AND HOUSEHOLD BEHAVIOR

Indicator	Wealth Quintiles						Low/High Ratio	Low-High Diff. (Abs. Val.)	Concentration Index	
	Low	2nd	3rd	4th	High	Avg.			Value	Standard Errors
A. Hygienic practices										
<i>Disposal of children's stools:</i>										
Sanitary disposal	43.6	72.8	85.9	84.1	85.3	74.4	0.51	41.70	0.1342	0.0069
<i>Handwashing:</i>										
Wash hands prior to preparing food	90.9	90.0	90.3	91.4	93.2	91.3	0.98	2.30	0.0036	0.0023
Handwashing facilities in household	0.1	0.5	1.1	11.7	34.9	11.5	0.00	34.80	0.6332	0.0252
B. Bednet ownership and use										
<i>Bednet ownership:</i>										
Bednet ownership	2.8	4.2	6.9	10.5	22.1	10.3	0.13	19.30	0.3659	0.0234
Treated bednet ownership	na	na	na	na	na	na	na	na	na	na
<i>Bednet use:</i>										
By children	0.2	1.0	2.0	4.1	7.3	2.9	0.03	7.10	0.5063	0.0700
By pregnant women	na	na	na	na	na	na	na	na	na	na
C. Breastfeeding										
Exclusive breastfeeding	36.3	34.5	38.2	(44.2)	(46.4)	39.6	0.78	82.70	0.0424	0.0459
Timely complementary feeding	(89.9)	(97.6)	(85.4)	(94.4)	(86.8)	90.6	1.04	3.10	-0.0012	0.0118
Bottle-feeding	1.2	2.2	6.6	8.5	19.9	7.7	0.06	18.70	0.3589	0.0910
D. Micronutrient consumption										
<i>Iodized salt:</i>										
Availability of iodized salt in household	na	na	na	na	na	na	na	na	na	na
<i>Vitamin A:</i>										
Children	na	na	na	na	na	na	na	na	na	na
Women	na	na	na	na	na	na	na	na	na	na
E. Tobacco and alcohol use										
<i>Tobacco:</i>										
Women	1.5	1.6	0.8	1.1	1.6	1.3	0.94	0.10	-0.0406	0.0727
Men	na	na	na	na	na	na	na	na	na	na
<i>Alcohol:</i>										
Women	2.3	1.5	1.9	3.5	3.0	2.5	0.77	0.70	0.0873	0.0470
Men	29.3	20.0	21.7	28.1	25.0	25.0	1.17	4.30	-0.0180	0.0198
F. Sexual practices										
<i>Non-regular sexual partnerships:</i>										
Women	2.0	1.5	1.8	2.4	1.0	1.7	2.00	1.00	-0.0742	0.0491
Men	11.2	9.9	11.5	10.7	7.6	10.0	1.47	3.60	-0.0807	0.0325
<i>Condom usage with non-regular partner:</i>										
Women	*	*	*	(72.8)	*	59.7	*	*	*	*
Men	59.7	63.6	70.5	82.2	95.3	75.6	0.63	35.60	0.0974	0.0196
G. Domestic violence										
Ever experienced violence	na	na	na	na	na	na	na	na	na	na
Experienced violence in past year	na	na	na	na	na	na	na	na	na	na

Zimbabwe

1999 - TOTAL POPULATION

Part IV: UNDERLYING DETERMINANTS OF HNP STATUS

Indicator	Wealth Quintiles						Low/High Ratio	Low-High Diff. (Abs. Val.)	Concentration Index	
	Low	2nd	3rd	4th	High	Avg.			Value	Standard Errors
A. Education										
<i>School completion:</i>										
Women	70.0	78.8	81.1	86.7	96.8	83.9	0.72	26.80	0.0599	0.0029
Men	82.0	86.7	88.4	93.2	96.7	90.6	0.85	14.70	0.0334	0.0024
<i>School participation:</i>										
Girls	76.2	85.5	85.0	82.3	94.1	83.9	0.81	17.90	0.0310	0.0056
Boys	77.4	80.0	80.9	84.4	94.2	82.3	0.82	16.80	0.0276	0.0055
B. Exposure to mass media										
<i>Newspaper readership:</i>										
Women	3.2	9.5	11.9	34.2	61.1	27.2	0.05	57.90	0.4572	0.0116
Men	10.6	12.9	18.8	57.8	83.2	42.9	0.13	72.60	0.3733	0.0105
<i>Radio listenership:</i>										
Women	20.5	32.5	43.6	63.7	86.8	53.0	0.24	66.30	0.2559	0.0062
Men	45.8	54.3	68.6	80.1	92.5	72.0	0.50	46.70	0.1356	0.0066
<i>Television viewership:</i>										
Women	1.7	4.7	11.6	37.7	80.8	31.8	0.02	79.10	0.5197	0.0099
Men	7.4	9.1	18.6	53.7	85.0	41.2	0.09	77.60	0.4234	0.0102
C. Knowledge and attitudes about HIV/AIDS										
<i>Knowledge about sexual transmission of HIV/AIDS:</i>										
Women	75.1	81.9	84.5	89.3	92.7	85.6	0.81	17.60	0.0569	0.0034
Men	89.0	89.2	92.1	94.0	97.2	93.0	0.92	8.20	0.0208	0.0033
<i>Knowledge about mother-to-child transmission of HIV/AIDS:</i>										
Women	79.7	80.1	79.3	83.4	87.7	81.5	0.91	8.00	0.0378	0.0036
Men	81.2	81.9	80.5	82.9	88.9	83.4	0.91	7.70	0.0216	0.0050
<i>Attitudes toward HIV/AIDS:</i>										
Women	na	na	na	na	na	na	na	na	na	na
Men	na	na	na	na	na	na	na	na	na	na
D. Status of women										
<i>Household decisionmaking:</i>										
Can seek own health care	45.4	41.9	46.2	46.6	51.6	46.7	0.88	6.20	0.0116	0.0085
Can seek children's health care	96.1	95.8	96.8	95.6	96.8	96.2	0.99	0.70	-0.0007	0.0024
Can make daily household purchases	58.0	54.4	58.1	64.7	60.8	59.6	0.95	2.80	0.0170	0.0062
Can make large household purchases	43.4	41.3	44.4	50.6	49.2	46.3	0.88	5.80	0.0292	0.0085
Can make meal-related decisions	66.6	60.8	62.5	69.2	63.2	64.6	1.05	3.40	-0.0066	0.0057
<i>Freedom of movement:</i>										
Can travel to visit family, relatives	30.8	29.8	31.8	31.0	35.7	32.1	0.86	4.90	0.0110	0.0115
<i>Other decisionmaking, attitudes:</i>										
Can decide how to spend own money	49.7	52.0	63.4	65.4	71.6	62.9	0.69	21.90	0.0547	0.0089
Can decide whether to have sex	87.7	88.6	88.5	87.8	92.2	89.1	0.95	4.50	0.0056	0.0024
Justifies domestic violence	62.8	60.1	55.7	47.1	36.4	51.0	1.73	26.40	-0.1247	0.0073
E. Orphanhood										
Paternal orphan prevalence	12.4	12.1	14.9	8.2	7.3	11.4	1.70	5.10	-0.0752	0.0144
Maternal orphan prevalence	5.5	4.5	5.8	3.7	4.9	5.0	1.12	0.60	-0.0027	0.0239
Double orphan prevalence	2.4	1.9	2.6	1.9	1.5	2.1	1.60	0.90	-0.0258	0.0338

Zimbabwe
1999 - FEMALE / MALE POPULATIONS

Part I: HNP STATUS

Indicator	Wealth Quintiles - Female						Wealth Quintiles - Male					
	Low	2nd	3rd	4th	High	Avg.	Low	2nd	3rd	4th	High	Avg.
A. Childhood mortality and morbidity												
Infant mortality rate	52.8	65.5	80.4	49.7	(33.3)	56.2	65.0	62.2	55.1	76.1	(54.6)	63.1
Under-five mortality rate	89.6	91.6	108.1	(83.7)	(49.9)	85.0	108.7	94.9	97.2	(97.8)	(73.6)	95.4
Prevalence of fever	25.3	28.0	29.5	23.3	20.0	25.1	26.3	28.2	31.4	24.3	22.5	26.4
Prevalence of diarrhea	12.9	13.2	16.3	14.7	9.7	13.4	14.6	14.0	18.4	12.9	11.9	14.3
Prevalence of acute respiratory infection (ARI)	19.3	19.5	16.9	12.9	9.5	15.6	17.2	16.9	19.0	14.0	13.5	16.0
B. Nutritional status												
<i>Children:</i>												
Moderate stunting	18.9	16.0	22.2	12.2	13.2	16.3	19.5	16.4	20.7	18.3	13.0	17.7
Severe stunting	13.5	7.6	8.1	6.8	5.8	8.5	13.6	12.0	11.9	8.1	5.3	10.3
Moderate underweight	14.8	12.8	15.7	7.7	5.6	11.3	16.7	12.7	11.5	10.4	5.7	11.6
Severe underweight	2.5	1.4	1.3	0.9	0.0	1.3	1.8	3.3	1.2	1.6	1.3	1.8
Mild anemia	na	na	na	na	na	na	na	na	na	na	na	na
Moderate anemia	na	na	na	na	na	na	na	na	na	na	na	na
Severe anemia	na	na	na	na	na	na	na	na	na	na	na	na
C. Sexually transmitted disease												
<i>Prevalence of genital discharge:</i>												
Women	6.6	4.4	5.4	8.2	6.2	6.3						
Men							5.7	3.8	6.2	3.1	2.0	3.8
<i>Prevalence of genital ulcer:</i>												
Women	5.1	3.0	2.8	5.1	2.9	3.8						
Men							6.1	4.3	3.3	3.9	3.5	4.1

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1999 - FEMALE / MALE POPULATIONS

Part II: Intermediate Determinants of HNP Status - HNP SERVICE USE

Indicator	Wealth Quintiles - Female						Wealth Quintiles - Male					
	Low	2nd	3rd	4th	High	Avg.	Low	2nd	3rd	4th	High	Avg.
A. Childhood immunization												
BCG coverage	89.4	91.9	86.3	91.0	(94.2)	90.3	91.9	83.4	82.6	81.0	91.1	85.9
Measles coverage	77.4	83.1	82.3	78.5	(85.3)	80.9	83.7	72.1	76.1	69.1	86.1	77.4
DPT coverage	83.2	87.5	80.8	78.9	(78.7)	81.9	77.7	78.3	75.6	77.0	90.3	79.9
Full basic coverage	60.3	73.0	70.3	54.8	(55.7)	62.9	68.3	64.9	65.5	58.4	69.6	65.2
No basic coverage	10.6	8.1	13.7	9.0	(5.8)	9.7	8.1	15.0	17.4	17.7	8.9	13.5
Hepatitis B coverage	na	na	na	na	na	na	na	na	na	na	na	na
Yellow fever coverage	na	na	na	na	na	na	na	na	na	na	na	na
B. Treatment of childhood illnesses												
<i>Treatment of fever:</i>												
Medical treatment of fever	53.3	53.6	36.5	33.7	(43.9)	44.3	43.0	47.6	46.2	49.6	55.0	48.0
Treatment in a public facility	44.2	51.5	31.0	24.3	(19.4)	35.2	35.2	47.0	42.4	33.5	34.7	38.6
Treatment in a private facility	9.1	2.2	5.5	9.4	(21.3)	8.7	7.8	0.6	3.8	14.6	19.4	8.9
<i>Treatment of acute respiratory infection (ARI):</i>												
Medical treatment of ARI	58.9	45.4	(37.7)	(53.4)	*	49.5	51.2	47.2	43.0	(52.6)	(59.0)	50.1
Treatment in a public facility	46.9	42.2	(33.6)	(38.5)	*	39.4	43.3	40.2	38.3	(35.6)	(37.5)	39.1
Treatment in a private facility	11.9	3.2	(4.1)	(14.9)	*	10.1	7.9	7.0	4.7	(16.9)	(20.2)	10.8
<i>Treatment of diarrhea:</i>												
Use of oral rehydration therapy	(79.6)	70.8	(76.7)	(74.7)	*	77.7	74.3	(90.1)	78.5	(77.9)	(91.1)	81.5
Medical treatment of diarrhea	(41.2)	34.2	(32.7)	(15.9)	*	29.1	27.8	(46.0)	28.6	(40.9)	(34.8)	34.8
Treatment in a public facility	(30.7)	34.2	(26.3)	(14.5)	*	24.4	27.0	(46.0)	28.6	(31.1)	(19.5)	30.1
Treatment in a private facility	(10.5)	0.0	(6.4)	(1.4)	*	4.7	0.8	0.0	0.0	(4.0)	(15.3)	3.5
C. Contraceptive services												
<i>Contraceptive prevalence:</i>												
Women	41.1	42.1	42.8	53.7	67.4	50.4						
Men							50.7	49.1	59.4	62.0	72.7	60.9
<i>Source of contraception - public sector:</i>												
Women	91.1	88.5	83.9	77.4	62.7	77.8						
Men							na	na	na	na	na	na
<i>Source of contraception - private sector:</i>												
Women	7.5	10.6	15.6	20.9	35.7	20.9						
Men							na	na	na	na	na	na
D. Treatment of adult illnesses												
<i>Treatment of genital discharge, ulcer, sore:</i>												
Women	55.6	73.3	69.7	57.0	63.1	62.1						
Men							(75.4)	*	(85.9)	(70.1)	*	0.0
<i>Treatment of genital discharge, ulcer, sore in public facilities:</i>												
Women	na	na	na	na	na	na						
Men							na	na	na	na	na	na
<i>Voluntary counseling and testing for HIV/AIDS:</i>												
Women	6.8	8.8	7.7	13.8	18.3	11.8						
Men							6.4	4.4	6.2	9.9	15.4	9.2

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1999 - FEMALE / MALE POPULATIONS

Part III: Intermediate Determinants of HNP Status - INDIVIDUAL AND HOUSEHOLD BEHAVIOR

Indicator	Wealth Quintiles - Female						Wealth Quintiles - Male					
	Low	2nd	3rd	4th	High	Avg.	Low	2nd	3rd	4th	High	Avg.
A. Hygienic practices												
<i>Disposal of children's stools:</i>												
Sanitary disposal	43.6	72.8	85.9	84.1	85.3	74.4						
<i>Handwashing:</i>												
Wash hands prior to preparing food	90.9	90.0	90.3	91.4	93.2	91.3						
Handwashing facilities in household	0.1	0.5	1.1	11.7	34.9	11.5						
B. Bednet ownership and use												
<i>Bednet use:</i>												
By children	0.2	1.0	2.0	4.1	7.3	2.9						
C. Breastfeeding												
Exclusive breastfeeding	*	(39.7)	*	*	*	43.3	(32.6)	(26.6)	(28.0)	(52.4)	*	36.6
Timely complementary feeding	*	*	*	*	*	88.1	(86.8)	*	*	*	*	92.7
Bottle-feeding	1.9	2.1	11.3	10.7	24.7	10.4	0.7	2.4	2.8	6.9	(14.6)	5.4
D. Micronutrient consumption												
<i>Vitamin A:</i>												
Children	na	na	na	na	na	na	na	na	na	na	na	na
E. Tobacco and alcohol use												
<i>Tobacco:</i>												
Women	1.5	1.6	0.8	1.1	1.6	1.3						
Men							na	na	na	na	na	na
<i>Alcohol:</i>												
Women	2.3	1.5	1.9	3.5	3.0	2.5						
Men							29.3	20.0	21.7	28.1	25.0	25.0
F. Sexual practices												
<i>Non-regular sexual partnerships:</i>												
Women	2.0	1.5	1.8	2.4	1.0	1.7						
Men							11.2	9.9	11.5	10.7	7.6	10.0
<i>Condom usage with non-regular partner:</i>												
Women	*	*	*	(72.8)	*	59.7						
Men							59.7	63.6	70.5	82.2	95.3	75.6

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1999 - FEMALE / MALE POPULATIONS

Part IV: UNDERLYING DETERMINANTS OF HNP STATUS

Indicator	Wealth Quintiles - Female						Wealth Quintiles - Male					
	Low	2nd	3rd	4th	High	Avg.	Low	2nd	3rd	4th	High	Avg.
A. Education												
<i>School completion:</i>												
Women	70.0	78.8	81.1	86.7	96.8	83.9	82.0	86.7	88.4	93.2	96.7	90.6
Men												
<i>School participation:</i>												
Girls	76.2	85.5	85.0	82.3	94.1	83.9						
Boys							77.4	80.0	80.9	84.4	94.2	82.3
B. Exposure to mass media												
<i>Newspaper readership:</i>												
Women	3.2	9.5	11.9	34.2	61.1	27.2						
Men							10.6	12.9	18.8	57.8	83.2	42.9
<i>Radio listenership:</i>												
Women	20.5	32.5	43.6	63.7	86.8	53.0						
Men							45.8	54.3	68.6	80.1	92.5	72.0
<i>Television viewership:</i>												
Women	1.7	4.7	11.6	37.7	80.8	31.8						
Men							7.4	9.1	18.6	53.7	85.0	41.2
C. Knowledge and attitudes about HIV/AIDS												
<i>Knowledge about sexual transmission of HIV/AIDS:</i>												
Women	75.1	81.9	84.5	89.3	92.7	85.6						
Men							89.0	89.2	92.1	94.0	97.2	93.0
<i>Knowledge about mother-to-child transmission of HIV/AIDS:</i>												
Women	79.7	80.1	79.3	83.4	87.7	81.5						
Men							81.2	81.9	80.5	82.9	88.9	83.4
<i>Attitudes toward HIV/AIDS:</i>												
Women	na	na	na	na	na	na						
Men							na	na	na	na	na	na
D. Orphanhood												
Paternal orphan prevalence	13.4	12.5	15.3	7.7	7.6	11.7	11.4	11.8	14.5	8.6	7.0	11.0
Maternal orphan prevalence	6.3	4.3	6.2	3.8	6.1	5.4	4.8	4.8	5.3	3.7	3.8	4.6
Double orphan prevalence	2.9	1.8	2.5	1.9	2.0	2.3	1.8	2.0	2.6	1.9	1.0	1.9

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1999 - RURAL / URBAN POPULATIONS

Part I: HNP STATUS

Indicator	Wealth Quintiles - Rural						Wealth Quintiles - Urban					
	Low	2nd	3rd	4th	High	Avg.	Low	2nd	3rd	4th	High	Avg.
A. Childhood illness and mortality												
Infant mortality rate	59.1	64.1	67.0	80.6	*	65.3	*	*	*	51.6	43.6	47.2
Under-five mortality rate	99.5	93.5	102.6	(109.6)	*	99.7	*	*	*	(78.5)	62.1	69.0
Prevalence of fever	25.8	28.2	31.0	22.4	*	27.3	*	*	*	24.7	21.5	22.6
Prevalence of diarrhea	13.7	13.6	17.4	14.7	*	14.8	*	*	*	13.2	10.9	11.9
Prevalence of acute respiratory infection	18.2	18.1	18.3	17.3	*	18.1	*	*	*	11.0	11.4	11.3
B. Fertility												
Total fertility rate	4.9	4.6	4.6	(4.3)	*	4.6	*	*	*	3.6	2.6	3.0
Adolescent fertility rate	162.0	108.0	106.0	(150.0)	*	124.6	0.0	0.0	*	120.0	76.0	92.5
C. Nutritional status												
<i>Children:</i>												
Moderate stunting	19.2	16.2	20.9	17.7	*	18.6	*	*	*	13.6	13.2	13.7
Severe stunting	13.5	9.8	9.9	5.7	*	10.6	*	*	*	8.4	5.4	6.9
Moderate underweight	15.8	12.7	13.7	10.4	*	13.6	*	*	*	8.1	5.8	6.8
Severe underweight	2.1	2.3	1.3	2.2	*	1.9	*	*	*	0.7	0.7	0.7
Mild anemia	na	na	na	na	na	na	na	na	na	na	na	na
Moderate anemia	na	na	na	na	na	na	na	na	na	na	na	na
Severe anemia	na	na	na	na	na	na	na	na	na	na	na	na
<i>Women:</i>												
Malnutrition	8.5	5.5	5.5	4.3	2.5	6.1	*	*	*	7.0	4.2	5.2
Mild anemia	na	na	na	na	na	na	na	na	na	na	na	na
Moderate anemia	na	na	na	na	na	na	na	na	na	na	na	na
Severe anemia	na	na	na	na	na	na	na	na	na	na	na	na
D. Female circumcision												
<i>Prevalence of circumcision:</i>												
Girls	na	na	na	na	na	na	na	na	na	na	na	na
Women	na	na	na	na	na	na	na	na	na	na	na	na
<i>Prevalence of occlusion:</i>												
Girls	*	*	*	*	*	*	*	*	*	*	*	*
Women	*	*	*	*	*	*	*	*	*	*	*	*
E. Sexually transmitted disease												
<i>Prevalence of genital discharge:</i>												
Women	6.6	4.2	5.2	4.5	(4.3)	5.3	*	*	*	10.4	6.3	8.1
Men	5.7	3.8	5.7	3.6	*	4.7	*	*	*	2.7	2.1	2.6
<i>Prevalence of genital ulcer:</i>												
Women	5.1	3.0	2.7	2.2	(4.3)	3.5	*	*	*	6.7	2.9	4.4
Men	6.1	4.3	3.4	4.7	*	4.5	*	*	*	3.5	3.7	3.5

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1999 - RURAL / URBAN POPULATIONS

Part II: Intermediate Determinants of HNP Status - HNP SERVICE USE

Indicator	Wealth Quintiles - Rural						Wealth Quintiles - Urban					
	Low	2nd	3rd	4th	High	Avg.	Low	2nd	3rd	4th	High	Avg.
A. Childhood immunization												
BCG coverage	90.5	87.9	84.0	74.3	*	86.0	*	*	*	92.7	92.0	92.5
Measles coverage	80.2	77.9	78.6	50.8	*	75.7	*	*	*	86.9	85.2	86.2
DPT coverage	80.7	83.2	77.6	62.5	*	78.4	*	*	*	86.8	85.1	86.1
Full basic coverage	63.9	69.2	67.0	44.5	*	63.6	*	*	*	63.6	65.0	65.0
No basic coverage	9.5	11.3	16.0	24.0	*	13.6	*	*	*	7.3	8.0	7.5
Hepatitis B coverage	na	na	na	na	na	na	na	na	na	na	na	na
Yellow fever coverage	na	na	na	na	na	na	na	na	na	na	na	na
B. Treatment of childhood diseases												
<i>Treatment of fever:</i>												
Medical treatment of fever	47.9	50.8	41.9	40.3	*	46.0	*	*	*	42.8	50.3	46.8
Treatment in a public facility	39.5	49.4	37.3	34.5	*	40.9	*	*	*	25.8	28.4	27.2
Treatment in a private facility	8.4	1.4	4.6	5.7	*	5.1	*	*	*	15.7	19.9	18.0
<i>Treatment of acute respiratory infection (ARI):</i>												
Medical treatment of ARI	55.1	46.8	40.7	51.0	*	48.4	*	*	*	(55.0)	(55.5)	54.6
Treatment in a public facility	45.2	41.9	36.2	43.3	*	41.7	*	*	*	(30.7)	(32.1)	31.2
Treatment in a private facility	10.0	4.9	4.5	7.7	*	6.7	*	*	*	(24.3)	(22.4)	22.9
<i>Treatment of diarrhea:</i>												
Use of oral rehydration therapy	76.7	80.0	77.3	(81.0)	*	78.5	*	*	*	(72.8)	91.4	82.8
Medical treatment of diarrhea	33.9	39.8	29.1	(30.0)	*	33.2	*	*	*	(25.9)	30.8	29.5
Treatment in a public facility	28.7	39.8	28.1	(28.2)	*	31.1	*	*	*	(18.0)	18.7	18.1
Treatment in a private facility	5.2	0.0	1.0	(1.8)	*	2.1	*	*	*	(3.2)	12.1	9.2
C. Antenatal and delivery care												
<i>Antenatal care visits:</i>												
To a medically trained person	94.1	92.8	88.9	94.0	*	92.3	*	*	*	91.4	96.8	94.6
To a doctor	4.9	6.6	9.3	10.7	*	7.7	*	*	*	17.0	28.2	23.5
To a nurse or trained midwife	89.2	86.2	79.6	83.3	*	84.6	*	*	*	74.4	68.7	71.1
Multiple visits to a medically trained person	84.1	80.0	76.6	75.4	*	79.6	*	*	*	68.8	68.5	68.9
<i>Antenatal care content:</i>												
Tetanus toxoid	82.3	78.6	77.9	74.9	*	78.8	*	*	*	80.7	79.6	80.3
Prophylactic antimalarial treatment	25.6	28.8	29.8	27.6	*	27.9	*	*	*	13.9	10.9	12.5
Iron supplementation	60.0	61.4	58.4	61.4	*	60.0	*	*	*	58.9	59.0	58.6
<i>Delivery attendance:</i>												
By a medically trained person	56.7	67.3	64.7	72.1	*	64.2	*	*	*	84.7	93.3	89.4
By a doctor	6.8	7.0	8.5	11.4	*	8.1	*	*	*	14.8	22.0	18.7
By a nurse or trained midwife	49.9	60.3	56.2	60.8	*	56.1	*	*	*	69.9	71.3	70.7
In a public facility	41.2	52.4	50.1	59.9	*	49.4	*	*	*	76.6	79.5	78.2
In a private facility	15.0	14.7	14.6	12.0	*	14.6	*	*	*	6.8	14.2	10.9
At home	36.0	28.3	31.5	22.5	*	30.5	*	*	*	12.2	4.9	8.3
D. Contraceptive services												
<i>Contraceptive prevalence:</i>												
Women	41.1	42.2	43.2	52.9	(58.1)	43.9	*	*	*	54.3	67.8	61.8
Men	50.7	49.1	57.9	61.0	*	54.4	*	*	*	62.7	73.7	69.2

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1999 - RURAL / URBAN POPULATIONS

Part II: Intermediate Determinants of HNP Status - HNP SERVICE USE (Cont.)

Indicator	Wealth Quintiles - Rural						Wealth Quintiles - Urban					
	Low	2nd	3rd	4th	High	Avg.	Low	2nd	3rd	4th	High	Avg.
D. Contraceptive services (cont.)												
<i>Source of contraception - public sector:</i>												
Women	91.1	88.5	83.8	83.8	*	86.6	*	*	*	73.7	62.9	66.8
Men	na	na	na	na	na	na	na	na	na	na	na	na
<i>Source of contraception - private sector:</i>												
Women	7.5	10.6	15.7	15.1	*	12.4	*	*	*	24.3	35.6	31.5
Men	na	na	na	na	na	na	na	na	na	na	na	na
E. Treatment of adult illnesses												
<i>Treatment of genital discharge, ulcer, sore:</i>												
Women	55.6	75.4	70.7	(44.8)	*	63.0	*	*	*	60.1	63.5	61.0
Men	(75.4)	*	(84.5)	*	*	81.5	*	*	*	*	*	(59.5)
<i>Treatment of genital discharge, ulcer, sore in public facilities:</i>												
Women	na	na	na	na	na	na	na	na	na	na	na	na
Men	(92.2)	*	(96.7)	*	*	92.1	*	*	*	*	*	(87.4)
<i>Voluntary counseling and testing for HIV/AIDS:</i>												
Women	6.8	8.9	7.9	12.2	15.8	8.6	*	*	*	14.7	18.4	16.8
Men	6.4	4.4	5.6	9.3	*	6.3	*	*	*	10.2	15.0	13.1

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1999 - RURAL / URBAN POPULATIONS

Part III: Intermediate Determinants of HNP Status - INDIVIDUAL AND HOUSEHOLD BEHAVIOR

Indicator	Wealth Quintiles - Rural						Wealth Quintiles - Urban					
	Low	2nd	3rd	4th	High	Avg.	Low	2nd	3rd	4th	High	Avg.
A. Hygienic practices												
<i>Disposal of children's stools:</i>												
Sanitary disposal	na	na	na	na	na	na	na	na	na	na	na	na
<i>Handwashing:</i>												
Wash hands prior to preparing food	90.9	90.2	90.4	89.3	90.3	90.3	*	*	*	92.6	93.4	93.0
Handwashing facilities in household	0.1	0.5	1.1	3.2	51.9	1.7	*	*	*	16.6	34.2	26.6
B. Bednet ownership and use												
<i>Bednet ownership:</i>												
Bednet ownership	2.8	4.2	6.6	11.3	49.8	6.3	*	*	*	10.0	21.0	16.5
Treated bednet ownership	na	na	na	na	na	na	na	na	na	na	na	na
<i>Bednet use:</i>												
By children	0.2	1.0	1.4	2.5	*	1.1	0.0	0.0	*	5.1	7.3	6.7
By pregnant women	na	na	na	na	na	na	na	na	na	na	na	na
C. Breastfeeding												
Exclusive breastfeeding	36.3	34.5	36.4	*	*	33.7	*	*	*	*	(43.9)	53.4
Timely complementary feeding	(89.9)	(97.6)	(85.4)	*	*	90.8	*	*	*	*	(86.8)	90.2
Bottle-feeding	1.2	2.2	5.5	7.1	*	3.5	*	*	*	9.3	20.5	16.1
D. Micronutrient consumption												
<i>Iodized salt:</i>												
Availability of iodized salt in household	na	na	na	na	na	na	na	na	na	na	na	na
<i>Vitamin A:</i>												
Children	na	na	na	na	na	na	na	na	na	na	na	na
Women	na	na	na	na	na	na	na	na	na	na	na	na
E. Tobacco and alcohol use												
<i>Tobacco:</i>												
Women	1.5	1.6	0.7	1.5	1.5	1.3	*	*	*	0.8	1.6	1.4
Men	na	na	na	na	na	na	na	na	na	na	na	na
<i>Alcohol:</i>												
Women	2.3	1.5	1.8	3.8	3.1	2.1	*	*	*	3.3	3.0	3.2
Men	29.3	20.0	21.1	30.6	*	24.5	*	*	*	26.7	24.7	25.7
F. Sexual practices												
<i>Non-regular sexual partnerships:</i>												
Women	2.0	1.5	1.7	2.5	0.0	1.8	*	*	*	2.4	1.1	1.6
Men	11.2	9.9	10.6	8.8	*	10.3	*	*	*	11.7	7.4	9.7
<i>Condom usage with non-regular partner:</i>												
Women	*	*	*	*	*	46.3	*	*	*	*	*	*
Men	59.7	63.6	66.6	72.0	*	64.7	*	*	*	86.3	97.2	91.9
G. Domestic violence												
Ever experienced violence	na	na	na	na	na	na	na	na	na	na	na	na
Experienced violence in past year	na	na	na	na	na	na	na	na	na	na	na	na

Zimbabwe

1999 - RURAL / URBAN POPULATIONS

Part IV: UNDERLYING DETERMINANTS OF HNP STATUS

Indicator	Wealth Quintiles - Rural						Wealth Quintiles - Urban					
	Low	2nd	3rd	4th	High	Avg.	Low	2nd	3rd	4th	High	Avg.
A. Education												
<i>School completion:</i>												
Women	70.0	78.8	80.9	79.6	96.0	77.4	*	*	*	91.0	96.9	94.7
Men	82.0	86.7	88.4	86.5	96.4	86.2	*	*	*	96.6	96.7	96.6
<i>School participation:</i>												
Girls	76.2	85.5	84.7	82.6	*	82.0	*	*	*	82.2	94.5	90.0
Boys	77.4	80.0	80.7	85.9	*	79.9	*	*	*	83.1	94.1	90.2
B. Exposure to mass media												
<i>Newspaper readership:</i>												
Women	3.2	9.5	11.8	21.5	72.1	11.1	*	*	*	41.3	60.6	52.9
Men	10.6	12.9	17.5	29.9	*	17.5	*	*	*	72.8	82.9	78.2
<i>Radio listenership:</i>												
Women	20.5	32.6	43.1	59.1	77.3	36.5	*	*	*	66.2	87.2	79.2
Men	45.8	54.3	68.1	78.8	*	61.0	*	*	*	80.7	92.4	87.4
<i>Television viewership:</i>												
Women	1.7	4.7	11.4	28.9	92.9	10.5	*	*	*	42.5	80.3	65.6
Men	7.4	9.1	17.8	39.8	*	17.3	*	*	*	61.1	85.1	74.4
C. Knowledge and attitudes about HIV/AIDS												
<i>Knowledge about sexual transmission of HIV/AIDS:</i>												
Women	75.1	81.9	84.2	87.5	92.1	81.6	*	*	*	90.4	92.7	91.9
Men	89.0	89.2	91.8	92.8	*	90.7	*	*	*	94.7	97.1	96.2
<i>Knowledge about mother-to-child transmission of HIV/AIDS:</i>												
Women	73.5	80.1	79.1	84.0	88.9	78.7	*	*	*	83.1	87.7	86.0
Men	80.1	81.9	80.9	87.0	*	82.2	*	*	*	80.7	88.7	85.1
<i>Attitudes toward HIV/AIDS:</i>												
Women	na	na	na	na	na	na	na	na	na	na	na	na
Men	na	na	na	na	na	na	na	na	na	na	na	na
D. Status of women												
<i>Household decisionmaking:</i>												
Can seek own health care	45.4	42.0	45.9	46.4	41.8	44.6	*	*	*	46.7	52.1	50.1
Can seek children's health care	96.1	95.8	96.7	94.7	*	96.0	*	*	*	96.1	96.7	96.5
Can make daily household purchases	58.0	54.4	58.0	63.2	54.7	57.6	*	*	*	65.5	61.0	62.7
Can make large household purchases	43.4	41.2	44.0	52.3	44.6	44.2	*	*	*	49.6	49.4	49.7
Can make meal-related decisions	66.6	60.7	62.6	68.1	52.9	63.8	*	*	*	69.7	63.6	65.8
<i>Freedom of movement:</i>												
Can travel to visit family, relatives	30.8	29.9	31.4	30.0	26.9	30.6	*	*	*	31.5	36.1	34.5
<i>Other decisionmaking, attitudes:</i>												
Can decide how to spend own money	49.7	51.8	63.2	57.4	(50.0)	55.7	*	*	*	71.2	72.8	72.4
Can decide whether to have sex	87.7	88.5	88.3	88.5	77.7	88.0	*	*	*	87.4	92.9	90.9
Justifies domestic violence	62.8	60.0	55.5	51.8	31.3	57.9	*	*	*	44.5	36.6	39.9
E. Orphanhood												
Paternal orphan prevalence	12.4	12.1	15.1	9.3	2.5	12.7	*	*	(5.5)	7.3	7.5	7.4
Maternal orphan prevalence	5.5	4.5	5.7	4.8	1.7	5.2	*	*	(7.6)	3.0	5.0	4.3
Double orphan prevalence	2.4	1.9	2.6	2.6	0.0	2.3	*	*	(3.8)	1.4	1.5	1.5

PART II. BASIC TABLES, 1994

A. TOTAL POPULATION

B. FEMALE AND MALE POPULATIONS

C. RURAL AND URBAN POPULATIONS

Notes:

- Each of the three sections referred to above consists of four divisions, presenting data for: I) hnp status; II) hnp service use; III) hnp-related individual and household behavior; and IV) other, underlying determinants of hnp status.
- Full definitions of all indicators covered in the tables are provided in section A of the technical notes found in part II.
- “na” appears in the table cells when data are not available, usually because the DHS survey concerned did not collect information about the indicator(s) in question.
- Figures in the tables shown within parentheses indicate the absence of adequate observations to produce acceptably reliable values. Asterisks appear when the number of observations was too small to justify the presentation even of figures within parentheses. (For further information, see the section on “Sampling Errors” in the presentation of data and methods in part II.B.) Asterisks also will be found in columns showing statistical indices of inequality when the amount of quintile-specific information available is inadequate to permit computation of the value for the index concerned.
- Female/male tables include only indicators relevant for both sexes; those pertaining to only one sex (e.g., fertility, women’s nutritional status, antenatal care, attended deliveries) have been omitted.

Zimbabwe
1994 - TOTAL POPULATION

Part I: HNP STATUS

Indicator	Wealth Quintiles						Low/High Ratio	Low-High Diff. (Abs. Val.)	Concentration Index	
	Low	2nd	3rd	4th	High	Avg.			Value	Standard Errors
A. Childhood illness and mortality										
Infant mortality rate	52.0	49.5	47.4	64.2	41.6	51.2	1.25	10.40	-0.0067	0.0013
Under-five mortality rate	84.5	84.8	62.4	87.9	56.3	75.9	1.50	28.20	-0.0537	0.0012
Prevalence of fever	43.7	39.9	38.9	40.2	34.1	39.7	1.28	9.60	-0.0507	0.0147
Prevalence of diarrhea	28.9	23.5	25.0	21.0	17.3	23.5	1.67	11.60	-0.0962	0.0216
Prevalence of acute respiratory infection (ARI)	34.9	28.4	25.0	20.3	16.0	25.4	2.18	18.90	-0.1377	0.0200
B. Fertility										
Total fertility rate	6.2	4.8	4.3	3.9	2.8	4.3	2.21	3.40	-0.1467	0.0007
Adolescent fertility rate	144.0	126.0	83.0	112.0	59.0	99.0	2.44	85.00	-0.1533	0.0021
C. Nutritional status (%)										
<i>Children:</i>										
Moderate stunting	17.4	18.7	16.8	14.7	8.0	15.3	2.18	9.40	-0.1179	0.0283
Severe stunting	6.3	7.0	6.0	6.6	4.3	6.1	1.47	2.00	-0.0828	0.0489
Moderate underweight	15.8	16.8	9.4	11.6	7.7	12.5	2.05	8.10	-0.1599	0.0330
Severe underweight	2.8	3.3	4.4	3.2	1.5	3.0	1.87	1.30	-0.1332	0.0663
Mild anemia	na	na	na	na	na	na	na	na	na	na
Moderate anemia	na	na	na	na	na	na	na	na	na	na
Severe anemia	na	na	na	na	na	na	na	na	na	na
<i>Women:</i>										
Malnutrition	5.7	7.8	5.6	5.0	1.2	5.1	4.75	4.50	-0.1814	0.0551
Mild anemia	na	na	na	na	na	na	na	na	na	na
Moderate anemia	na	na	na	na	na	na	na	na	na	na
Severe anemia	na	na	na	na	na	na	na	na	na	na
D. Female circumcision (%)										
<i>Prevalence of circumcision:</i>										
Girls	na	na	na	na	na	na	na	na	na	na
Women	na	na	na	na	na	na	na	na	na	na
<i>Prevalence of occlusion:</i>										
Girls	na	na	na	na	na	na	na	na	na	na
Women	na	na	na	na	na	na	na	na	na	na
E. Sexually transmitted disease										
<i>Prevalence of genital discharge:</i>										
Women	1.3	1.7	2.1	1.7	1.0	1.5	1.30	0.30	-0.0264	0.0599
Men	2.6	5.1	6.8	5.3	5.5	5.2	0.47	2.90	0.0761	0.0565
<i>Prevalence of genital ulcer:</i>										
Women	0.4	1.2	0.9	0.9	0.6	0.8	0.67	0.20	0.0053	0.0780
Men	2.1	2.6	2.6	2.3	3.8	2.8	0.55	1.70	0.0912	0.0869

Zimbabwe

1994 - TOTAL POPULATION

Part II: Intermediate Determinants of HNP Status - HNP SERVICE USE

Indicator	Wealth Quintiles						Low/High Ratio	Low-High Diff. (Abs. Val.)	Concentration Index	
	Low	2nd	3rd	4th	High	Avg.			Value	Standard Errors
A. Childhood immunization										
BCG coverage	95.4	93.4	95.2	98.3	95.5	95.7	1.00	0.10	0.0018	0.0043
Measles coverage	84.1	84.5	89.2	84.5	89.8	86.3	0.94	5.70	0.0098	0.0084
DPT coverage	77.5	83.3	87.4	87.5	90.5	85.2	0.86	13.00	0.0249	0.0091
Full basic coverage	71.8	77.8	84.6	81.4	85.7	80.1	0.84	13.90	0.0306	0.0110
No basic coverage	3.7	6.6	4.8	1.7	4.5	4.1	0.82	0.80	-0.0155	0.0977
Hepatitis B coverage	na	na	na	na	na	na	na	na	na	na
Yellow fever coverage	na	na	na	na	na	na	na	na	na	na
B. Treatment of childhood illnesses										
<i>Treatment of fever:</i>										
Medical treatment of fever	35.6	35.3	32.6	41.5	51.8	38.8	0.69	16.20	0.0713	0.0263
Treatment in a public facility	32.8	27.4	25.8	35.8	37.7	32.0	0.87	4.90	0.0357	0.0301
Treatment in a private facility	2.8	7.9	6.8	5.7	12.8	6.6	0.22	10.00	0.2517	0.0798
<i>Treatment of acute respiratory infection (ARI):</i>										
Medical treatment of ARI	44.2	47.4	54.7	64.5	62.1	52.2	0.71	17.90	0.0881	0.0227
Treatment in a public facility	38.0	38.8	45.3	56.4	41.8	43.0	0.91	3.80	0.0678	0.0296
Treatment in a private facility	6.2	8.6	9.4	8.1	17.6	8.9	0.35	11.40	0.1981	0.0858
<i>Treatment of diarrhea:</i>										
Use of oral rehydration therapy	81.5	81.3	84.9	93.3	95.9	86.3	0.85	14.40	0.0296	0.0093
Medical treatment of diarrhea	26.4	27.3	32.1	31.4	34.8	29.7	0.76	8.40	0.0440	0.0402
Treatment in a public facility	25.3	20.0	26.3	27.6	19.0	24.1	1.33	6.30	-0.0101	0.0450
Treatment in a private facility	1.1	7.2	5.8	3.8	15.9	5.6	0.07	14.80	0.2772	0.1027
C. Antenatal and delivery care										
<i>Antenatal care visits:</i>										
To a medically trained person	90.8	93.0	91.5	94.8	96.0	93.1	0.95	5.20	0.0086	0.0032
To a doctor	11.5	10.5	18.4	23.9	41.5	20.7	0.28	30.00	0.3144	0.0255
To a nurse or trained midwife	79.4	82.5	73.1	71.0	54.5	72.4	1.46	24.90	-0.0788	0.0080
Multiple visits to a medically trained person	83.0	86.1	85.3	89.0	90.9	86.7	0.91	7.90	0.0158	0.0048
<i>Antenatal care content:</i>										
Tetanus toxoid	79.2	79.7	81.5	89.3	80.1	82.0	0.99	0.90	0.0074	0.0062
Prophylactic antimalarial treatment	na	na	na	na	na	na	na	na	na	na
Iron supplementation	na	na	na	na	na	na	na	na	na	na
<i>Delivery attendance:</i>										
By a medically trained person	55.1	59.5	65.3	77.9	92.8	69.4	0.59	37.70	0.1107	0.0071
By a doctor	7.6	7.4	6.9	15.2	26.3	12.4	0.29	18.70	0.3079	0.0366
By a nurse or trained midwife	47.5	52.1	58.4	62.7	66.5	57.0	0.71	19.00	0.0677	0.0106
In a public facility	53.2	57.8	64.5	76.3	84.5	66.6	0.63	31.30	0.0985	0.0081
In a private facility	1.0	1.1	0.8	1.8	8.1	2.5	0.12	7.10	0.5269	0.1059
At home	45.0	39.9	34.3	21.1	7.3	30.3	6.16	37.70	-0.2558	0.0165
D. Contraceptive services										
<i>Contraceptive prevalence:</i>										
Women	31.2	32.7	38.0	49.9	55.8	42.2	0.56	24.60	0.1255	0.0113
Men	37.1	42.0	48.1	55.6	69.7	54.5	0.53	32.60	0.1165	0.0157

Zimbabwe

1994 - TOTAL POPULATION

Part II: Intermediate Determinants of HNP Status - HNP SERVICE USE (Cont.)

Indicator	Wealth Quintiles						Low/High Ratio	Low-High Diff. (Abs. Val.)	Concentration Index	
	Low	2nd	3rd	4th	High	Avg.			Value	Standard Errors
D. Contraceptive services (cont.)										
<i>Source of contraception - public sector:</i>										
Women	91.3	86.3	89.1	79.8	72.0	81.8	1.27	19.30	-0.0562	0.0075
Men	na	na	na	na	na	na	na	na	na	na
<i>Source of contraception - private sector:</i>										
Women	7.0	12.6	9.1	19.5	26.0	16.8	0.27	19.00	0.2767	0.0366
Men	na	na	na	na	na	na	na	na	na	na
E. Treatment of adult illnesses										
<i>Treatment of genital discharge, ulcer, sore:</i>										
Women	(34.4)	(57.2)	(45.9)	(41.8)	*	45.9	*	*	*	*
Men	*	*	*	*	(61.4)	63.5	*	*	*	*
<i>Treatment of genital discharge, ulcer, sore in public facilities:</i>										
Women	na	na	na	na	na	na	na	na	na	na
Men	*	*	*	*	(8.7)	19.0	*	*	*	*
<i>Voluntary counseling and testing for HIV/AIDS:</i>										
Women	na	na	na	na	na	na	na	na	na	na
Men	na	na	na	na	na	na	na	na	na	na

Zimbabwe

1994 - TOTAL POPULATION

Part III: Intermediate Determinants of HNP Status - INDIVIDUAL AND HOUSEHOLD BEHAVIOR

Indicator	Wealth Quintiles						Low/High Ratio	Low-High Diff. (Abs. Val.)	Concentration Index	
	Low	2nd	3rd	4th	High	Avg.			Value	Standard Errors
A. Hygienic practices										
<i>Disposal of children's stools:</i>										
Sanitary disposal	na	na	na	na	na	na	na	na	na	na
<i>Handwashing:</i>										
Wash hands prior to preparing food	na	na	na	na	na	na	na	na	na	na
Handwashing facilities in household	na	na	na	na	na	na	na	na	na	na
B. Bednet ownership and use										
<i>Bednet ownership:</i>										
Bednet ownership	na	na	na	na	na	na	na	na	na	na
Treated bednet ownership	na	na	na	na	na	na	na	na	na	na
<i>Bednet use:</i>										
By children	na	na	na	na	na	na	na	na	na	na
By pregnant women	na	na	na	na	na	na	na	na	na	na
C. Breastfeeding										
Exclusive breastfeeding	9.9	24.1	(13.9)	13.9	(22.8)	16.3	0.43	32.70	0.0325	0.0810
Timely complementary feeding	93.5	94.3	92.2	(87.5)	(97.1)	93.0	0.96	190.60	-0.0020	0.0099
Bottle-feeding	2.9	6.0	4.8	6.1	16.3	6.6	0.18	13.40	0.3067	0.0888
D. Micronutrient consumption										
<i>Iodized salt:</i>										
Availability of iodized salt in household	na	na	na	na	na	na	na	na	na	na
<i>Vitamin A:</i>										
Children	na	na	na	na	na	na	na	na	na	na
Women	na	na	na	na	na	na	na	na	na	na
E. Tobacco and alcohol use										
<i>Tobacco:</i>										
Women	na	na	na	na	na	na	na	na	na	na
Men	na	na	na	na	na	na	na	na	na	na
<i>Alcohol:</i>										
Women	na	na	na	na	na	na	na	na	na	na
Men	na	na	na	na	na	na	na	na	na	na
F. Sexual practices										
<i>Non-regular sexual partnerships:</i>										
Women	3.8	5.9	4.7	7.2	6.3	5.7	0.60	2.50	0.0970	0.0313
Men	2.1	4.8	4.0	4.8	3.7	4.0	0.57	1.60	0.0234	0.0566
<i>Condom usage with non-regular partner:</i>										
Women	19.5	8.8	31.4	31.7	38.1	28.1	0.51	18.60	0.1320	0.0447
Men	26.9	29.1	41.8	40.8	78.7	47.3	0.34	51.80	0.1525	0.0605
G. Domestic violence										
Ever experienced violence	na	na	na	na	na	na	na	na	na	na
Experienced violence in past year	na	na	na	na	na	na	na	na	na	na

Zimbabwe

1994 - TOTAL POPULATION

Part IV: UNDERLYING DETERMINANTS OF HNP STATUS

Indicator	Wealth Quintiles						Low/High	Low-High	Concentration Index	
	Low	2nd	3rd	4th	High	Avg.	Ratio	Diff. (Abs. Val.)	Value	Standard Errors
A. Education										
<i>School completion:</i>										
Women	58.7	61.5	75.2	84.1	92.1	75.8	0.64	33.40	0.0945	0.0039
Men	77.3	81.7	84.8	88.8	95.9	87.2	0.81	18.60	0.0449	0.0028
<i>School participation:</i>										
Girls	72.3	74.3	80.6	84.6	90.2	79.3	0.80	17.90	0.0432	0.0059
Boys	74.7	74.8	82.1	83.0	89.8	80.1	0.83	15.10	0.0377	0.0056
B. Exposure to mass media										
<i>Newspaper readership:</i>										
Women	26.6	29.3	43.9	56.8	78.2	49.8	0.34	51.60	0.2208	0.0068
Men	29.8	42.4	43.4	66.2	87.3	59.7	0.34	57.50	0.1977	0.0090
<i>Radio listenership:</i>										
Women	8.3	24.9	28.4	52.7	82.8	43.1	0.10	74.50	0.3514	0.0070
Men	17.4	36.2	41.4	55.6	77.2	51.2	0.23	59.80	0.2262	0.0111
<i>Television viewership:</i>										
Women	2.5	4.1	7.4	26.5	78.1	27.8	0.03	75.60	0.5618	0.0108
Men	13.0	18.6	21.3	41.8	78.3	41.0	0.17	65.30	0.3677	0.0123
C. Knowledge and attitudes about HIV/AIDS										
<i>Knowledge about sexual transmission of HIV/AIDS:</i>										
Women	94.8	94.1	96.2	98.0	98.5	96.5	0.96	3.70	0.0114	0.0015
Men	96.6	98.3	99.0	99.7	100.0	99.0	0.97	3.40	0.0070	0.0015
<i>Knowledge about mother-to-child transmission of HIV/AIDS:</i>										
Women	90.1	87.4	92.4	95.8	97.5	92.0	0.92	7.40	0.0342	0.0024
Men	87.8	87.7	87.9	94.5	97.1	92.0	0.90	9.30	0.0293	0.0039
<i>Attitudes toward HIV/AIDS:</i>										
Women	na	na	na	na	na	na	na	na	na	na
Men	na	na	na	na	na	na	na	na	na	na
D. Status of women										
<i>Household decisionmaking:</i>										
Can seek own health care	na	na	na	na	na	na	na	na	na	na
Can seek children's health care	na	na	na	na	na	na	na	na	na	na
Can make daily household purchases	na	na	na	na	na	na	na	na	na	na
Can make large household purchases	69.3	67.5	65.9	67.9	62.4	66.3	1.11	6.90	-0.0237	0.0056
Can make meal-related decisions	na	na	na	na	na	na	na	na	na	na
<i>Freedom of movement:</i>										
Can travel to visit family, relatives	na	na	na	na	na	na	na	na	na	na
<i>Other decisionmaking, attitudes:</i>										
Can decide how to spend own money	46.4	45.2	51.5	58.5	65.9	56.1	0.70	19.50	0.0791	0.0100
Can decide whether to have sex	na	na	na	na	na	na	na	na	na	na
Justifies domestic violence	na	na	na	na	na	na	na	na	na	na
E. Orphanhood										
Paternal orphan prevalence	7.8	8.4	7.6	5.7	5.1	7.1	1.53	2.70	-0.0697	0.0178
Maternal orphan prevalence	3.2	2.8	2.9	1.9	2.3	2.7	1.39	0.90	-0.0529	0.0306
Double orphan prevalence	0.5	1.1	1.2	0.5	0.4	0.7	1.25	0.10	0.0028	0.0473

Zimbabwe
1994 - FEMALE / MALE POPULATIONS

Part I: HNP STATUS

Indicator	Wealth Quintiles - Female						Wealth Quintiles - Male					
	Low	2nd	3rd	4th	High	Avg.	Low	2nd	3rd	4th	High	Avg.
A. Childhood mortality and morbidity												
Infant mortality rate	46.9	45.0	49.4	57.5	26.1	45.5	56.7	54.0	45.3	71.4	56.4	56.9
Under-five mortality rate	84.7	75.3	70.2	73.8	39.6	69.9	84.4	94.5	54.7	102.1	72.4	81.8
Prevalence of fever	44.9	36.6	36.3	42.8	36.7	39.9	42.5	43.6	41.7	37.3	31.4	39.5
Prevalence of diarrhea	28.8	20.4	23.8	19.1	15.8	21.9	29.0	27.1	26.4	23.0	19.0	25.1
Prevalence of acute respiratory infection (ARI)	35.0	23.2	22.2	22.9	16.7	24.6	34.8	34.3	27.9	17.5	15.3	26.3
B. Nutritional status												
<i>Children:</i>												
Moderate stunting	17.2	18.4	18.5	14.2	10.2	15.8	17.6	19.0	15.3	15.3	5.9	14.9
Severe stunting	4.4	6.5	5.8	7.4	2.1	5.3	8.1	7.6	6.2	5.6	6.4	6.9
Moderate underweight	13.3	13.1	9.0	11.2	8.1	11.2	18.3	21.0	9.7	11.9	7.3	13.9
Severe underweight	1.8	3.2	3.9	3.5	0.6	2.6	3.7	3.3	4.7	2.8	2.3	3.4
Mild anemia	na	na	na	na	na	na	na	na	na	na	na	na
Moderate anemia	na	na	na	na	na	na	na	na	na	na	na	na
Severe anemia	na	na	na	na	na	na	na	na	na	na	na	na
C. Sexually transmitted disease												
<i>Prevalence of genital discharge:</i>												
Women	1.3	1.7	2.1	1.7	1.0	1.5						
Men							2.6	5.1	6.8	5.3	5.5	5.2
<i>Prevalence of genital ulcer:</i>												
Women	0.4	1.2	0.9	0.9	0.6	0.8						
Men							2.1	2.6	2.6	2.3	3.8	2.8

Zimbabwe

1994 - FEMALE / MALE POPULATIONS

Part II: Intermediate Determinants of HNP Status - HNP SERVICE USE

Indicator	Wealth Quintiles - Female						Wealth Quintiles - Male					
	Low	2nd	3rd	4th	High	Avg.	Low	2nd	3rd	4th	High	Avg.
A. Childhood immunization												
BCG coverage	94.0	93.3	97.2	98.6	96.8	96.1	96.8	93.4	92.8	97.9	94.0	95.3
Measles coverage	84.5	84.1	91.2	84.5	87.4	86.3	83.7	85.0	86.9	84.5	92.6	86.3
DPT coverage	78.0	85.6	94.1	89.6	90.5	87.5	77.1	80.2	79.9	85.4	90.5	82.6
Full basic coverage	71.2	80.6	88.8	83.1	81.6	80.9	72.3	74.1	79.9	79.7	90.5	79.2
No basic coverage	4.1	6.7	2.8	1.4	3.2	3.5	3.2	6.6	7.2	2.1	6.0	4.7
Hepatitis B coverage	na	na	na	na	na	na	na	na	na	na	na	na
Yellow fever coverage	na	na	na	na	na	na	na	na	na	na	na	na
B. Treatment of childhood illnesses												
<i>Treatment of fever:</i>												
Medical treatment of fever	37.8	37.1	35.2	47.8	50.8	41.7	33.4	33.6	30.3	33.6	53.0	35.7
Treatment in a public facility	34.9	29.4	28.1	41.1	34.3	34.2	30.5	25.5	23.7	29.3	41.9	29.6
Treatment in a private facility	2.8	7.7	7.1	6.7	14.2	7.2	2.8	8.1	6.5	4.3	11.1	6.1
<i>Treatment of acute respiratory infection (ARI):</i>												
Medical treatment of ARI	47.0	43.1	(55.7)	63.5	(65.8)	53.4	41.2	50.7	53.8	(65.8)	(57.7)	51.0
Treatment in a public facility	41.7	42.0	(42.9)	54.3	(39.5)	44.2	34.2	36.4	47.2	(59.3)	(44.4)	41.8
Treatment in a private facility	5.3	1.1	(12.8)	9.2	(21.3)	8.5	7.0	14.2	6.6	(6.5)	(13.3)	9.2
<i>Treatment of diarrhea:</i>												
Use of oral rehydration therapy	83.4	(82.4)	(88.3)	(93.5)	*	88.2	79.7	80.4	81.7	93.1	(92.3)	84.5
Medical treatment of diarrhea	33.4	(18.9)	(36.3)	(26.4)	*	30.7	19.5	34.3	28.2	35.8	(32.5)	28.9
Treatment in a public facility	31.2	(13.9)	(29.7)	(25.3)	*	25.7	19.5	25.2	23.1	29.7	(15.2)	22.6
Treatment in a private facility	2.2	(5.0)	(6.6)	(1.2)	*	4.9	0.0	9.1	5.1	6.1	(17.3)	6.3
C. Contraceptive services												
<i>Contraceptive prevalence:</i>												
Women	31.2	32.7	38.0	49.9	55.8	42.2						
Men							37.1	42.0	48.1	55.6	69.7	54.5
<i>Source of contraception - public sector:</i>												
Women	91.3	86.3	89.1	79.8	72.0	81.8						
Men							na	na	na	na	na	na
<i>Source of contraception - private sector:</i>												
Women	7.0	12.6	9.1	19.5	26.0	16.8						
Men							na	na	na	na	na	na
D. Treatment of adult illnesses												
<i>Treatment of genital discharge, ulcer, sore:</i>												
Women	(34.4)	(57.2)	(45.9)	(41.8)	*	45.9						
Men							*	*	*	*	(61.4)	63.5
<i>Treatment of genital discharge, ulcer, sore in public facilities:</i>												
Women	na	na	na	na	na	na						
Men							na	na	na	na	na	na
<i>Voluntary counseling and testing for HIV/AIDS:</i>												
Women	na	na	na	na	na	na						
Men							na	na	na	na	na	na

Zimbabwe

1994 - FEMALE / MALE POPULATIONS

Part III: Intermediate Determinants of HNP Status - INDIVIDUAL AND HOUSEHOLD BEHAVIOR

Indicator	Wealth Quintiles - Female						Wealth Quintiles - Male					
	Low	2nd	3rd	4th	High	Avg.	Low	2nd	3rd	4th	High	Avg.
A. Hygienic practices												
<i>Disposal of children's stools:</i>												
Sanitary disposal	na	na	na	na	na	na						
<i>Handwashing:</i>												
Wash hands prior to preparing food	na	na	na	na	na	na						
Handwashing facilities in household	na	na	na	na	na	na						
B. Bednet ownership and use												
<i>Bednet use:</i>												
By children	na	na	na	na	na	na						
C. Breastfeeding												
Exclusive breastfeeding	(15.0)	(21.8)	(17.9)	(10.6)	*	18.8	(5.8)	(26.5)	*	(16.9)	*	13.7
Timely complementary feeding	(91.8)	(96.1)	*	(92.3)	*	92.6	(94.8)	(92.5)	(96.5)	*	*	93.4
Bottle-feeding	1.8	6.9	5.8	6.9	16.5	6.9	3.9	5.1	3.7	5.2	16.0	6.4
D. Micronutrient consumption												
<i>Vitamin A:</i>												
Children	na	na	na	na	na	na	na	na	na	na	na	na
E. Tobacco and alcohol use												
<i>Tobacco:</i>												
Women	na	na	na	na	na	na						
Men							na	na	na	na	na	na
<i>Alcohol:</i>												
Women	na	na	na	na	na	na						
Men							na	na	na	na	na	na
F. Sexual practices												
<i>Non-regular sexual partnerships:</i>												
Women	3.8	5.9	4.7	7.2	6.3	5.7						
Men							2.1	4.8	4.0	4.8	3.7	4.0
<i>Condom usage with non-regular partner:</i>												
Women	19.5	8.8	31.4	31.7	38.1	28.1						
Men							26.9	29.1	41.8	40.8	78.7	47.3

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1994 - FEMALE / MALE POPULATIONS

Part IV: UNDERLYING DETERMINANTS OF HNP STATUS

Indicator	Wealth Quintiles - Female						Wealth Quintiles - Male					
	Low	2nd	3rd	4th	High	Avg.	Low	2nd	3rd	4th	High	Avg.
A. Education												
<i>School completion:</i>												
Women	58.7	61.5	75.2	84.1	92.1	75.8	77.3	81.7	84.8	88.8	95.9	87.2
Men												
<i>School participation:</i>												
Girls	72.3	74.3	80.6	84.6	90.2	79.3						
Boys							74.7	74.8	82.1	83.0	89.8	80.1
B. Exposure to mass media												
<i>Newspaper readership:</i>												
Women	26.6	29.3	43.9	56.8	78.2	49.8						
Men							29.8	42.4	43.4	66.2	87.3	59.7
<i>Radio listenership:</i>												
Women	8.3	24.9	28.4	52.7	82.8	43.1						
Men							17.4	36.2	41.4	55.6	77.2	51.2
<i>Television viewership:</i>												
Women	2.5	4.1	7.4	26.5	78.1	27.8						
Men							13.0	18.6	21.3	41.8	78.3	41.0
C. Knowledge and attitudes about HIV/AIDS												
<i>Knowledge about sexual transmission of HIV/AIDS:</i>												
Women	94.8	94.1	96.2	98.0	98.5	96.5						
Men							96.6	98.3	99.0	99.7	100.0	99.0
<i>Knowledge about mother-to-child transmission of HIV/AIDS:</i>												
Women	90.1	87.4	92.4	95.8	97.5	92.0						
Men							87.8	87.7	87.9	94.5	97.1	92.0
<i>Attitudes toward HIV/AIDS:</i>												
Women	na	na	na	na	na	na						
Men							na	na	na	na	na	na
D. Orphanhood												
Paternal orphan prevalence	8.2	8.2	8.5	6.0	4.6	7.3	7.4	8.6	6.7	5.4	5.5	6.9
Maternal orphan prevalence	3.1	2.3	3.2	1.8	2.8	2.7	3.3	3.2	2.6	1.9	1.8	2.7
Double orphan prevalence	0.6	0.8	1.2	0.4	0.5	0.7	0.3	1.3	1.1	0.5	0.3	0.7

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1994 - RURAL / URBAN POPULATIONS

Part I: HNP STATUS

Indicator	Wealth Quintiles - Rural						Wealth Quintiles - Urban					
	Low	2nd	3rd	4th	High	Avg.	Low	2nd	3rd	4th	High	Avg.
A. Childhood illness and mortality												
Infant mortality rate	52.0	49.8	48.0	69.4	*	53.6	*	*	*	(56.5)	39.7	44.3
Under-five mortality rate	84.6	85.3	63.3	90.5	*	80.3	*	*	*	(84.1)	54.7	63.0
Prevalence of fever	43.8	39.6	38.9	43.1	*	41.5	*	*	*	36.0	33.4	34.5
Prevalence of diarrhea	28.9	23.4	24.6	22.6	*	25.5	*	*	*	18.7	16.7	17.9
Prevalence of acute respiratory infection	34.9	28.1	25.2	24.8	*	29.0	*	*	*	13.8	15.5	15.2
B. Fertility												
Total fertility rate	6.2	4.8	4.3	3.9	*	4.9	*	*	*	(3.9)	2.8	3.1
Adolescent fertility rate	144.0	127.0	81.0	110.0	*	113.4	*	*	*	(115.0)	59.0	72.4
C. Nutritional status												
<i>Children:</i>												
Moderate stunting	17.5	18.4	16.3	12.7	*	16.5	*	*	*	17.5	8.2	12.0
Severe stunting	6.3	7.1	5.6	5.4	*	6.3	*	*	*	8.3	3.8	5.6
Moderate underweight	15.8	16.5	8.2	10.8	*	13.2	*	*	*	12.6	8.1	10.7
Severe underweight	2.8	3.3	4.4	2.8	*	3.4	*	*	*	3.6	0.9	1.8
Mild anemia	na	na	na	na	na	na	na	na	na	na	na	na
Moderate anemia	na	na	na	na	na	na	na	na	na	na	na	na
Severe anemia	na	na	na	na	na	na	na	na	na	na	na	na
<i>Women:</i>												
Malnutrition	5.7	7.9	5.7	4.4	*	6.1	*	*	*	6.0	0.6	2.3
Mild anemia	na	na	na	na	na	na	na	na	na	na	na	na
Moderate anemia	na	na	na	na	na	na	na	na	na	na	na	na
Severe anemia	na	na	na	na	na	na	na	na	na	na	na	na
D. Female circumcision												
<i>Prevalence of circumcision:</i>												
Girls	na	na	na	na	na	na	na	na	na	na	na	na
Women	na	na	na	na	na	na	na	na	na	na	na	na
<i>Prevalence of occlusion:</i>												
Girls	*	*	*	*	*	*	*	*	*	*	*	*
Women	*	*	*	*	*	*	*	*	*	*	*	*
E. Sexually transmitted disease												
<i>Prevalence of genital discharge:</i>												
Women	1.3	1.7	2.2	2.1	0.0	1.8	*	*	*	1.1	1.1	1.1
Men	2.6	5.3	6.9	6.4	(10.3)	5.6	*	*	*	3.9	5.2	4.8
<i>Prevalence of genital ulcer:</i>												
Women	0.4	1.2	1.0	0.6	0.0	0.8	*	*	*	1.4	0.6	0.8
Men	2.1	2.6	2.6	3.0	(7.0)	2.7	*	*	*	1.4	3.6	2.9

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1994 - RURAL / URBAN POPULATIONS

Part II: Intermediate Determinants of HNP Status - HNP SERVICE USE

Indicator	Wealth Quintiles - Rural						Wealth Quintiles - Urban					
	Low	2nd	3rd	4th	High	Avg.	Low	2nd	3rd	4th	High	Avg.
A. Childhood immunization												
BCG coverage	95.4	93.4	94.9	97.9	*	95.3	*	*	*	98.6	95.2	96.6
Measles coverage	84.1	84.5	88.7	84.4	*	85.7	*	*	*	84.6	89.2	87.7
DPT coverage	77.5	83.3	86.9	86.4	*	83.1	*	*	*	88.5	89.9	89.6
Full basic coverage	71.8	77.8	84.0	81.7	*	78.2	*	*	*	81.1	85.6	84.2
No basic coverage	3.7	6.6	5.1	2.1	*	4.4	*	*	*	1.4	4.8	3.4
Hepatitis B coverage	na	na	na	na	na	na	na	na	na	na	na	na
Yellow fever coverage	na	na	na	na	na	na	na	na	na	na	na	na
B. Treatment of childhood diseases												
<i>Treatment of fever:</i>												
Medical treatment of fever	35.6	34.1	32.1	44.4	*	36.7	*	*	*	36.3	49.3	45.7
Treatment in a public facility	32.8	26.0	25.2	37.0	*	30.5	*	*	*	33.8	36.6	36.9
Treatment in a private facility	2.8	8.1	6.9	7.5	*	6.2	*	*	*	2.5	11.3	8.0
<i>Treatment of acute respiratory infection (ARI):</i>												
Medical treatment of ARI	44.2	46.3	55.3	62.3	*	50.0	*	*	*	*	60.4	63.6
Treatment in a public facility	38.0	37.6	45.8	55.5	*	42.1	*	*	*	*	42.0	47.9
Treatment in a private facility	6.2	8.7	9.5	6.8	*	8.0	*	*	*	*	15.5	13.7
<i>Treatment of diarrhea:</i>												
Use of oral rehydration therapy	81.5	80.9	84.4	94.3	*	84.3	*	*	*	(91.5)	95.5	94.4
Medical treatment of diarrhea	26.4	27.8	33.3	36.8	*	30.5	*	*	*	(21.9)	31.6	26.7
Treatment in a public facility	25.3	20.4	27.2	30.8	*	25.6	*	*	*	(21.9)	17.5	18.2
Treatment in a private facility	1.1	7.3	6.1	5.9	*	4.9	*	*	*	0.0	14.1	8.6
C. Antenatal and delivery care												
<i>Antenatal care visits:</i>												
To a medically trained person	90.8	92.9	91.4	95.4	*	92.4	*	*	*	94.0	95.7	95.2
To a doctor	11.5	10.6	18.7	20.9	*	14.8	*	*	*	28.2	42.4	37.0
To a nurse or trained midwife	79.3	82.4	72.7	74.5	*	77.6	*	*	*	65.8	53.4	58.3
Multiple visits to a medically trained person	83.0	86.7	85.1	91.9	*	86.2	*	*	*	84.9	90.4	88.3
<i>Antenatal care content:</i>												
Tetanus toxoid	79.2	79.5	81.2	89.1	*	81.4	*	*	*	89.6	80.1	83.6
Prophylactic antimalarial treatment	na	na	na	na	na	na	na	na	na	na	na	na
Iron supplementation	na	na	na	na	na	na	na	na	na	na	na	na
<i>Delivery attendance:</i>												
By a medically trained person	55.0	59.5	65.5	71.2	*	61.7	*	*	*	87.7	93.8	91.1
By a doctor	7.6	7.4	7.0	11.3	*	8.4	*	*	*	20.9	26.1	23.9
By a nurse or trained midwife	47.4	52.1	58.5	59.9	*	53.3	*	*	*	66.8	67.8	67.2
In a public facility	53.2	57.8	64.7	69.3	*	59.7	*	*	*	86.9	86.9	86.3
In a private facility	1.0	1.1	0.9	2.5	*	1.7	*	*	*	0.9	6.6	4.6
At home	45.1	39.9	34.1	28.1	*	38.0	*	*	*	10.7	6.3	8.4
D. Contraceptive services												
<i>Contraceptive prevalence:</i>												
Women	31.1	32.7	38.2	48.2	68.2	37.3	*	*	*	52.7	54.9	53.9
Men	37.1	42.1	49.3	57.3	*	47.4	*	*	*	54.0	70.0	63.8

Zimbabwe

1994 - RURAL / URBAN POPULATIONS

Part II: Intermediate Determinants of HNP Status - HNP SERVICE USE (Cont.)

Indicator	Wealth Quintiles - Rural						Wealth Quintiles - Urban					
	Low	2nd	3rd	4th	High	Avg.	Low	2nd	3rd	4th	High	Avg.
D. Contraceptive services (cont.)												
<i>Source of contraception - public sector:</i>												
Women	91.3	86.2	88.9	78.2	(59.6)	85.3	*	*	*	82.0	73.1	75.9
Men	na	na	na	na	na	na	na	na	na	na	na	na
<i>Source of contraception - private sector:</i>												
Women	7.0	12.7	9.2	20.6	(31.5)	13.0	*	*	*	18.0	25.5	23.1
Men	na	na	na	na	na	na	na	na	na	na	na	na
E. Treatment of adult illnesses												
<i>Treatment of genital discharge, ulcer, sore:</i>												
Women	(34.4)	(57.2)	(45.9)	(33.0)	0.0	43.1	*	*	*	*	*	(54.9)
Men	*	*	*	*	*	63.4	*	*	*	*	(60.7)	(63.7)
<i>Treatment of genital discharge, ulcer, sore in public facilities:</i>												
Women	na	na	na	na	na	na	na	na	na	na	na	na
Men	*	*	*	*	*	26.6	*	*	*	*	(9.7)	(7.3)
<i>Voluntary counseling and testing for HIV/AIDS:</i>												
Women	na	na	na	na	na	na	na	na	na	na	na	na
Men	na	na	na	na	na	na	na	na	na	na	na	na

Zimbabwe

1994 - RURAL / URBAN POPULATIONS

Part III: Intermediate Determinants of HNP Status - INDIVIDUAL AND HOUSEHOLD BEHAVIOR

Indicator	Wealth Quintiles - Rural						Wealth Quintiles - Urban					
	Low	2nd	3rd	4th	High	Avg.	Low	2nd	3rd	4th	High	Avg.
A. Hygienic practices												
<i>Disposal of children's stools:</i>												
Sanitary disposal	na	na	na	na	na	na	na	na	na	na	na	na
<i>Handwashing:</i>												
Wash hands prior to preparing food	na	na	na	na	na	na	na	na	na	na	na	na
Handwashing facilities in household	na	na	na	na	na	na	na	na	na	na	na	na
B. Bednet ownership and use												
<i>Bednet ownership:</i>												
Bednet ownership	na	na	na	na	na	na	na	na	na	na	na	na
Treated bednet ownership	na	na	na	na	na	na	na	na	na	na	na	na
<i>Bednet use:</i>												
By children	na	na	na	na	na	na	na	na	na	na	na	na
By pregnant women	na	na	na	na	na	na	na	na	na	na	na	na
C. Breastfeeding												
Exclusive breastfeeding	9.9	24.6	(14.2)	(15.0)	*	15.7	*	*	*	*	(23.5)	18.2
Timely complementary feeding	93.5	94.3	92.2	(86.7)	*	92.5	*	*	*	*	(97.0)	94.9
Bottle-feeding	2.9	6.1	4.8	6.0	*	5.0	*	*	*	(6.2)	15.1	12.3
D. Micronutrient consumption												
<i>Iodized salt:</i>												
Availability of iodized salt in household	na	na	na	na	na	na	na	na	na	na	na	na
<i>Vitamin A:</i>												
Children	na	na	na	na	na	na	na	na	na	na	na	na
Women	na	na	na	na	na	na	na	na	na	na	na	na
E. Tobacco and alcohol use												
<i>Tobacco:</i>												
Women	na	na	na	na	na	na	na	na	na	na	na	na
Men	na	na	na	na	na	na	na	na	na	na	na	na
<i>Alcohol:</i>												
Women	na	na	na	na	na	na	na	na	na	na	na	na
Men	na	na	na	na	na	na	na	na	na	na	na	na
F. Sexual practices												
<i>Non-regular sexual partnerships:</i>												
Women	3.8	5.9	4.7	5.3	0.0	4.8	*	*	*	10.5	6.7	7.5
Men	2.1	4.4	4.1	4.2	(6.3)	3.9	*	*	*	5.7	3.5	4.3
<i>Condom usage with non-regular partner:</i>												
Women	19.5	8.8	31.4	(28.0)	0.0	21.5	*	*	*	(34.9)	38.1	36.9
Men	26.9	32.0	41.8	21.1	(50.9)	32.1	*	*	*	61.9	81.5	70.4
G. Domestic violence												
Ever experienced violence	na	na	na	na	na	na	na	na	na	na	na	na
Experienced violence in past year	na	na	na	na	na	na	na	na	na	na	na	na

Zimbabwe

1994 - RURAL / URBAN POPULATIONS

Part IV: UNDERLYING DETERMINANTS OF HNP STATUS

Indicator	Wealth Quintiles - Rural						Wealth Quintiles - Urban					
	Low	2nd	3rd	4th	High	Avg.	Low	2nd	3rd	4th	High	Avg.
A. Education												
<i>School completion:</i>												
Women	58.7	61.6	75.7	84.8	83.3	69.7	*	*	*	82.8	92.6	89.6
Men	77.3	81.9	85.0	87.7	91.2	83.3	*	*	*	90.2	96.1	94.0
<i>School participation:</i>												
Girls	72.3	74.3	80.7	85.8	*	77.4	*	*	*	81.6	89.5	87.3
Boys	74.6	75.1	82.7	83.6	*	78.3	*	*	*	81.7	89.7	86.8
B. Exposure to mass media												
<i>Newspaper readership:</i>												
Women	26.7	29.2	43.9	53.5	68.7	38.2	*	*	*	62.3	78.8	74.1
Men	29.8	42.2	42.8	57.5	(83.6)	44.7	*	*	*	78.9	87.5	84.9
<i>Radio listenership:</i>												
Women	8.3	24.8	28.2	57.3	72.8	28.8	*	*	*	44.9	83.4	73.1
Men	17.4	36.8	41.8	59.4	(76.2)	40.8	*	*	*	50.1	77.2	68.7
<i>Television viewership:</i>												
Women	2.5	3.8	7.2	20.4	83.8	9.3	*	*	*	36.7	77.7	66.6
Men	13.0	18.9	21.0	34.8	(86.9)	23.8	*	*	*	51.9	77.8	69.8
C. Knowledge and attitudes about HIV/AIDS												
<i>Knowledge about sexual transmission of HIV/AIDS:</i>												
Women	94.8	94.0	96.1	97.7	100.0	95.7	*	*	*	98.5	98.4	98.4
Men	96.6	98.3	99.0	99.5	(100.0)	98.5	*	*	*	100.0	100.0	100.0
<i>Knowledge about mother-to-child transmission of HIV/AIDS:</i>												
Women	83.8	87.3	92.4	95.7	97.4	89.6	*	*	*	96.0	97.5	97.0
Men	87.1	87.5	87.8	93.2	(96.9)	89.1	*	*	*	96.5	97.1	97.0
<i>Attitudes toward HIV/AIDS:</i>												
Women	na	na	na	na	na	na	na	na	na	na	na	na
Men	na	na	na	na	na	na	na	na	na	na	na	na
D. Status of women												
<i>Household decisionmaking:</i>												
Can seek own health care	na	na	na	na	na	na	na	na	na	na	na	na
Can seek children's health care	na	na	na	na	na	na	na	na	na	na	na	na
Can make daily household purchases	na	na	na	na	na	na	na	na	na	na	na	na
Can make large household purchases	69.3	67.4	65.6	63.8	65.5	66.6	*	*	*	74.9	62.2	65.7
Can make meal-related decisions	na	na	na	na	na	na	na	na	na	na	na	na
<i>Freedom of movement:</i>												
Can travel to visit family, relatives	na	na	na	na	na	na	na	na	na	na	na	na
<i>Other decisionmaking, attitudes:</i>												
Can decide how to spend own money	46.3	45.4	51.0	52.4	49.3	49.0	*	*	*	69.0	67.0	67.5
Can decide whether to have sex	na	na	na	na	na	na	na	na	na	na	na	na
Justifies domestic violence	na	na	na	na	na	na	na	na	na	na	na	na
E. Orphanhood												
Paternal orphan prevalence	7.8	8.4	7.7	5.8	3.0	7.6	*	*	*	5.6	5.2	5.3
Maternal orphan prevalence	3.2	2.8	2.8	2.2	0.0	2.8	*	*	*	1.2	2.4	2.2
Double orphan prevalence	0.5	1.1	1.2	0.6	0.0	0.8	*	*	*	0.1	0.4	0.3

PART III. TECHNICAL NOTES

- A. INDICATOR DEFINITIONS**
- B. DATA AND METHODS**
- C. DISCUSSION**

INDICATOR DEFINITIONS

Part I: HNP STATUS

A. CHILDHOOD MORTALITY AND ILLNESS ²

Infant mortality rate: number of deaths to children under 12 months of age per 1,000 live births, based on experience during the ten years preceding the survey.

Under-five mortality rate: number of deaths to children under five years of age per 1,000 live births, based on experience during the ten years preceding the survey.

Prevalence of fever: percent of children who had fever, whether or not accompanied by cough or rapid breathing, in the two weeks before the survey.

Prevalence of diarrhea: percent of children who had diarrhea in the two weeks before the survey.

Prevalence of acute respiratory infection: percent of children who had a cough accompanied by rapid or difficult breathing in the two weeks before the survey.

B. FERTILITY

Total fertility rate (TFR): average number of births a woman could expect to have during her lifetime if she followed the levels of fertility currently observed at every age. The TFR is calculated as the sum of average annual age-specific fertility rates for all reproductive age groups (usually 15-49 years) in the three years before the survey.

Adolescent fertility rate: age-specific fertility rate for women 15-19 years of age. This is the average number of births among women aged 15-19 years per 1,000 women in that age group, based on births in the three years before the survey and expressed as annual averages.

² Figures for the prevalence of fever, diarrhea, and acute respiratory infection refer to percent of children under three, four, or five years of age, depending upon the country. (The specific ages covered for in particular country may be determined by consulting the full report on that country's DHS, which may be found at: www.measuredhs.com/countries.)

C. NUTRITIONAL STATUS

Children^{3, 4, 5}

Moderate stunting (height-for-age): percent of children with a height-for-age Z-score of between –2 and –3 standard deviations of the median reference standard for their age (as defined in fn. 4).

Severe stunting (height-for-age): percent of children with a height-for-age Z-score of below –3 standard deviations of the median reference standard for their age (as defined in fn. 4).

Moderate underweight (weight-for-age): percent of children with a weight-for-age Z-score of between –2 and –3 standard deviations of the median reference standard for their age (as defined in fn. 4).

Severe underweight (weight-for-age): percent of children with a weight-for-age Z-score of below –3 standard deviations of the median reference standard for their age (as defined in fn. 4).

Mild anemia: percent of children with a hemoglobin level of between 10.0g/dl and 10.9 g/dl, the World Health Organization criterion for mild anemia.

Moderate anemia: percent of children with a hemoglobin level of between 7.0g/dl and 9.9g/dl, the World Health Organization criterion for moderate anemia.

Severe anemia: percent of children with a hemoglobin level of below 7.0g/dl, the World Health Organization criterion for severe anemia.

Women^{6, 7}

Malnutrition: percent of women aged 15-49 years with a Body Mass Index (BMI) of less than 18.5, where BMI – commonly used to indicate adult nutritional status – is defined as weight in kilograms divided by the square of height in meters.

Mild anemia: percent of women aged 15-49 years with a hemoglobin level of between 10.0g/dl and 10.9g/dl for pregnant women and between 10.0g/dl and 11.9g/dl for non-pregnant women, the World Health Organization criterion for mild anemia.

Moderate anemia: percent of women aged 15-49 years with a hemoglobin level of between 7.0g/dl and 9.9g/dl, the World Health Organization criterion for moderate anemia.

Severe anemia: percent of women aged 15-49 years with a hemoglobin level of less than 7.0g/dl, the World Health Organization criterion for severe anemia.

³ All figures related to children's nutrition status refer to children under three, four, or five years of age, depending upon the country. (The specific ages covered for in particular country may be determined by consulting the full report on the DHS of the country concerned, which is available at: www.measuredhs.com/countries.)

⁴ The reference standards used for stunting and underweight are those established in the 1970s by the World Health Organization, the U.S. Centers for Disease Control, and the U.S. National Center for Health Statistics. Updated stunting and underweight figures based on the recently-released, 2006 World Health Organization reference standards are currently under preparation. When complete, they will be available at: www.worldbank.org/povertyandhealth/countrydata.

⁵ The anemia figures for children living at an altitude above 1,000 meters have been adjusted to reflect the higher level of hemoglobin required.

⁶ In some countries, the BMI is presented for all women; in others, the figure is available only for mothers of children under five years of age. The reference population for any given country can be determined by consulting the full report on the DHS for the country concerned. An electronic version of this report is located at: www.measuredhs.com/countries.

⁷ Anemia cut-off points for respondents who live at an altitude above 1,000 meters and/or who smoke have been adjusted to account for their higher hemoglobin requirements.

D. FEMALE CIRCUMCISION

Prevalence of Circumcision

Girls: percent of women aged 15-49 years with one or more daughters, at least one of whom had been circumcised.

Women: percent of women aged 15-49 years who had been circumcised.

Prevalence of Occlusion

Girls: percent of women aged 15-49 years with one or more daughters, at least one of whom had been circumcised with the vaginal area sewn closed.

Women: percent of women aged 15-49 years whose vaginal area had been sewn closed.

E. SEXUALLY TRANSMITTED DISEASES

Prevalence of Genital Discharge

Women: percent of women aged 15-49 years who had had abnormal genital discharge in the twelve months before the survey.

Men: percent of men aged 15-54 years who had had abnormal genital discharge in the twelve months before the survey.

Prevalence of Genital Ulcer or Sore

Women: percent of women aged 15-49 years who had had a genital ulcer or sore in the twelve months before the survey.

Men: percent of men aged 15-54 years who had had a genital ulcer or sore in the twelve months before the survey.

Part II: INTERMEDIATE DETERMINANTS OF HNP STATUS – HEALTH SERVICE USE

A. CHILDHOOD IMMUNIZATION ⁸

BCG coverage: percent of children who had received a dose of BCG vaccine by the time of the survey.

Measles coverage: percent of children who had received a dose of measles vaccine by the time of the survey.

DPT coverage: percent of children who had received three doses of DPT vaccine by the time of the survey.

Full basic coverage: percent of children who had received a dose of BCG vaccine, measles vaccine, and three doses of DPT and polio vaccines by the time of the survey, excluding polio vaccine given at birth.

No basic coverage: percent of children who had received no vaccination against the six early-childhood diseases (TB, measles, polio, diphtheria, pertusis, and tetanus) by the time of the survey.

Hepatitis B coverage: percent of children who had received three doses of hepatitis B vaccine by the time of the survey.

Yellow fever coverage: percent of children who had received a dose of yellow fever vaccine by the time of the survey.

B. TREATMENT OF CHILDHOOD ILLNESSES ⁹

Treatment of Fever

Medical treatment of fever: percent of children with fever, with or without cough or rapid breathing, in the two weeks before the survey who had sought medical advice for fever from any health facility or health provider, whether public or private.

Treatment in a public facility: percent of children with fever, with or without cough or rapid breathing, in the two weeks before the survey who had sought medical advice for fever from a public-sector health facility or provider (as defined in fn. 9).

Treatment in a private facility: percent of children with fever, with or without cough or rapid breathing, in the two weeks before the survey who had sought medical advice for fever from a private-sector health facility or provider (as defined in fn. 9).

⁸ Childhood immunization figures refer to rates among children 12-23 months of age in all countries except those in Latin America and the Caribbean. There, the figures refer to rates among children 18-29 months of age. All figures are based on information recorded on the child's vaccination card; or, in cases where a card was not seen by the interviewer, on the mother's report.

⁹ Figures for illness treatment in a public facility refer to treatment in government hospitals, health centers, health posts, or dispensaries; or in facilities operated by government-affiliated social securing programs. Figures for treatment in private facilities cover treatment in private hospitals or clinics, in private doctors' offices, or in facilities operated by other private medical providers (such as non-governmental organizations) as defined in the country concerned; but exclude treatment obtained in private pharmacies or shops.

Treatment of Acute Respiratory Infection (ARI)

Medical treatment of ARI: percent of children with a cough and rapid breathing in the two weeks before the survey who had been taken for treatment at any medical facility or provider, whether public or private.

Treatment in a public facility: percent of children with a cough and rapid breathing in the two weeks before the survey who had been taken for treatment at a public-sector health facility or provider (as defined in fn. 9).

Treatment in a private facility: percent of children with a cough and rapid breathing in the two weeks before the survey who had been taken for treatment at a private-sector health facility or provider (as defined in fn. 9).

Treatment of Diarrhea

Use of oral rehydration therapy: percent of children with diarrhea in the two weeks before the survey who had received oral rehydration therapy (ORT) (defined as including consumption of oral rehydration salts, other recommended home fluids, or other increased liquids).

Medical treatment of diarrhea: percent of children with diarrhea in the two weeks before the survey who had been taken for treatment at any medical facility or provider, whether public or private.

Treatment in a public facility: percent of children with diarrhea in the two weeks before the survey who had been taken for treatment at a public-sector health facility or provider (as defined in fn. 9).

Treatment in a private facility: percent of children with diarrhea in the two weeks before the survey who had been taken for treatment at a private-sector health facility or provider (as defined in fn. 9).

C. ANTENATAL AND DELIVERY CARE ¹⁰

Antenatal Care (ANC) Visits

To a medically-trained person: percent of women with one or more births in the five years before the survey who had received at least one antenatal care consultation from a medically-trained person (as defined in fn. 10) before her most recent birth.

To a doctor: percent of women with one or more births in the five years before the survey who had received at least one antenatal care consultation from a doctor before her most recent birth.

To a nurse or trained midwife: percent of women with one or more births in the five years before the survey who had received at least one antenatal care consultation from a nurse or trained midwife (as defined in fn. 10) before her most recent birth.

Multiple visits to a medically-trained person: percent of women with one or more births in the five years before the survey who had received at least three antenatal care consultations from any medically-trained provider (as defined in fn. 10) before her most recent birth.

¹⁰ When speaking of antenatal and delivery care, medically-trained persons are defined as doctors, nurses, and trained midwives. The definition excludes traditional midwives or other traditional birth attendants, whether trained or untrained.

Antenatal Care (ANC) Content

Tetanus toxoid: percent of women with one or more births in the five years before the survey who had received at least one tetanus toxoid injection during her most recent pregnancy.

Prophylactic antimalarial treatment: percent of women with one or more births in the five years before the survey who had received prophylactic treatment with any anti-malarial drug during her most recent pregnancy.

Iron supplementation: percent of women with one or more births in the five years before the survey who had taken iron tablets during her most recent pregnancy.

Delivery Attendance

By a medically-trained person: percent of births in the five years before the survey attended by a medically-trained person (as defined in fn. 10).

By a doctor: percent of births in the five years before the survey attended by a doctor.

By a nurse or trained midwife: percent of births in the five years before the survey attended to by a nurse or a trained midwife (as defined in fn. 10).

In a public facility: percent of all deliveries in the five years before the survey occurring in a public-sector health facility (as defined in fn. 9).

In a private facility: percent of all deliveries in the five years before the survey occurring in a private-sector health facility (as defined in fn. 9).

At home: percent of all deliveries in the five years before the survey occurring at home (defined as the woman's own or any other home).

D. CONTRACEPTIVE SERVICES

Contraceptive Prevalence¹¹

Women: percent of married or in-union women aged 15-49 years who used any modern means of contraception (as defined in fn. 11).

Men: percent of married or in-union men aged 15-54 years who used any modern means of contraception (as defined in fn. 11).

Source of Contraception - Public Sector

Women: percent of married women who obtained their current method of contraception from a public-sector health facility or provider (as defined in fn. 9).

Men: percent of married men who obtained their current method of contraception from a public-sector health facility or provider (as defined in fn. 9).

¹¹ Figures refer to use of modern means of contraception, defined as male/female sterilization, oral contraceptive pill, contraceptive injection, intrauterine device, male/female condom, diaphragm, cervical cap, contraceptive jelly or foam, implant, or some country-specific modern method.

Source of Contraception - Private Sector

Women: percent of married women who obtained their current method of contraception from a private-sector health facility or provider (as defined in fn. 9, except that private pharmacies and shops are included rather than excluded).

Men: percent of married women who obtained their current method of contraception from a private-sector health facility or provider (as defined in fn. 9, except that private pharmacies and shops are included rather than excluded).

E. TREATMENT OF ADULT ILLNESSES

Treatment of Genital Discharge, Ulcer, or Sore

Women: percent of women with genital discharge, ulcer, or sore who sought any medical treatment for resulting symptoms.

Men: percent of men with genital discharge, ulcer, or sore who sought any medical treatment for resulting symptoms.

Treatment of Genital Discharge, Ulcer, or Sore in a Public Facility

Women: percent of women with genital discharge, ulcer, or sore who sought treatment from a public-sector health facility or provider (as defined in fn. 9).

Men: percent of men with genital discharge, ulcer, or sore who sought treatment from a public-sector health facility or provider (as defined in fn. 9).

Voluntary Counseling and Testing for HIV/AIDS

Women: percent of women aged 15-49 years who had been tested for HIV at any time before the survey.

Men: percent of men aged 15-54 years who had been tested for HIV at any time before the survey.

Part III: INTERMEDIATE DETERMINANTS OF HNP STATUS – INDIVIDUAL AND HOUSEHOLD BEHAVIOR

A. HYGIENIC PRACTICES

Disposal of Children’s Stools

Sanitary disposal: percent of mothers with at least one child under five years of age who disposed of the stools of their youngest child in a sanitary manner (defined as dropping stool into a latrine, burying it, or using disposable diapers).

Handwashing

Wash hands prior to preparing food: percent of women aged 15-49 years preparing meals who washed hands before handling food.

Handwashing facilities in household: percent of households that had hand-washing materials or facilities, as determined by direct observation of interviewers.

B. BEDNET OWNERSHIP AND USE

Bednet Ownership

Bednet ownership: percent of households owning one or more bednets.

Treated bednet ownership: percent of households owning one or more bednets that had recently been treated with insecticides.

Bednet Use

By children: percent of households with at least one child under five years of age, some or all of whom had slept under a bednet the night before the survey.

By pregnant women: percent of currently pregnant women who had slept under a bednet the night before the survey.

C. BREASTFEEDING

Exclusive breastfeeding: percent of children 0-3 months of age who had received only breast milk in the 24 hours before the survey.

Timely complementary feeding: percent of children 6-9 months of age who had received breast milk and solid or semi-solid foods in the twenty-four hours before the survey.

Bottle-feeding: percent of children under 12 months of age who had received any food or drink from a bottle with a nipple in the twenty-four hours before the survey.

D. MICRONUTRIENT CONSUMPTION

Iodized Salt

Availability of iodized salt in household: percent of households with cooking salt testing positive for iodine/iodate at the recommended level of 15 or 25 parts per million or more (depending on the country).¹²

Vitamin A

Children: percent of children¹³ who had received at least one dose of vitamin A in the six months before the survey, as reported by the mothers.

Women: percent of women who had received a dose of vitamin A within two months of the last birth, in the five years before the survey.

E. TOBACCO AND ALCOHOL USE

Tobacco¹⁴

Women: percent of women aged 15-49 years who currently were smoking or chewing tobacco products.

Men: percent of men aged 15-54 years who currently were smoking or chewing tobacco products.

Alcohol

Women: percent of women aged 15-49 years who had gotten intoxicated due to excessive consumption of alcohol in the three months before the survey.

Men: percent of men aged 15-54 years who had gotten intoxicated due to excessive consumption of alcohol in the three months before the survey.

F. SEXUAL PRACTICES

Non-Regular Sexual Partnerships

Women: percent of women aged 15-49 years who had had sex with a non-regular partner at least once in the twelve months before the survey.

Men: percent of men aged 15-54 years who had had sex with a non-regular partner at least once in the twelve months before the survey.

¹² Which of these two levels is recommended in any particular country may be determined by consulting the full report on that country's DHS, which may be found at: www.measuredhs.com/countries.

¹³ Figures refer to children over six months of age and under three, four, or five years of age, depending upon the country. (The specific ages covered for in a particular country may be determined by consulting the full report on that country's DHS, which is available at: www.measuredhs.com/countries.)

¹⁴ Tobacco products include cigarettes, pipes, cigars, leaves, etc.

Condom Usage with Non-Regular Partner

Women: percent of women aged 15-49 years with non-regular sexual partner who had used a condom in the last sexual intercourse with such a partner in the twelve months before the survey.

Men: percent of men aged 15-54 years with non-regular sexual partner who had used a condom in the last sexual intercourse with such a partner in the twelve months before the survey.

G. DOMESTIC VIOLENCE

Ever experienced violence: percent of women aged 15-49 years who had ever been hit or beaten by current or former husband/partner.

Experienced violence in past year: percent of women aged 15-49 years who had been hit or beaten by current or former husband/partner in the twelve months before the survey.

Part IV: UNDERLYING DETERMINANTS OF HNP STATUS

A. EDUCATION

School Completion

Women: percent of women aged 15-49 years who had completed the fifth grade.

Men: percent of men aged 15-54 years who had completed the fifth grade.

School Participation

Girls: percent of girls aged 6-10 years who were attending school at the time of the survey.

Boys: percent of boys aged 6-10 years who were attending school at the time of the survey.

B. EXPOSURE TO MASS MEDIA

Newspaper Readership

Women: percent of women aged 15-49 years who read a newspaper at least once a week.

Men: percent of men aged 15-54 years who read a newspaper at least once a week.

Radio Listenership

Women: percent of women aged 15-49 years who listened to radio at least once a week.

Men: percent of men aged 15-54 years who listened to radio at least once a week.

Television Viewership

Women: percent of women aged 15-49 years who watched television at least once a week.

Men: percent of men aged 15-54 years who watched television at least once a week.

C. KNOWLEDGE AND ATTITUDES ABOUT HIV/AIDS

Knowledge about Sexual Transmission of HIV/AIDS¹⁵

Women: percent of women aged 15-49 years who knew of HIV/AIDS and of at least one of the following ways to avoid it through interruption of its sexual transmission route: abstinence; using a condom; avoiding multiple sex partners, sex with prostitutes, and unprotected homosexual sex.

Men: percent of men aged 15-54 years who knew of HIV/AIDS and of at least one of the ways to avoid HIV/AIDS referred to in the preceding definition.

¹⁵ In most countries, the survey sample included both married and unmarried individuals. Where this was the case, all respondents, regardless of marital status, were asked the question covered in this section. Where the survey covered only individuals who were or had been married, the data pertain only to individuals who had ever been married. (The marital status of people covered for in particular country is indicated in the full report on that country's DHS, which is located at: www.measuredhs.com/countries.)

Knowledge about Mother-to-Child Transmission of HIV/AIDS

Women: percent of women aged 15-49 years who knew of at least one way HIV/AIDS can be transmitted from mother to child during pregnancy, delivery, or breastfeeding.

Men: percent of men aged 15-54 years who knew of at least one way HIV/AIDS can be transmitted from mother to child during pregnancy, delivery, or breastfeeding.

Attitudes toward HIV/AIDS

Women: percent of women aged 15-49 years who believed that people with HIV/AIDS should be allowed to continue working or that HIV test results should remain confidential.

Men: percent of men aged 15-54 years who believed that people with HIV/AIDS should be allowed to continue working or that HIV test results should remain confidential.

D. STATUS OF WOMEN

Household Decisionmaking

Can seek own health care: percent of women age 15-49 years who could decide by themselves to seek their own health care.

Can seek children's health care: percent of women aged 15-49 years, whose children live with them, who could decide by themselves to seek health care for their children.

Can make daily household purchases: percent of women aged 15-49 years who could decide by themselves or jointly with others to make daily household purchases.

Can make large household purchases: percent of women aged 15-49 years who could decide by themselves or jointly with others to make large household purchases.

Can make meal-related decisions: percent of women aged 15-49 years who could decide by themselves what food to cook daily.

Freedom of Movement

Can travel to visit family, relatives: percent of women aged 15-49 years who could decide by themselves to visit family and relatives.

Other Decisionmaking, Attitudes

Can decide how to spend own money: percent of women aged 15-49 years who work for cash who could decide by themselves on how to use the money they earn.

Can decide whether to have sex: percent of women aged 15-49 years agreeing that they can refuse to have sex with their husband for at least one of the following reasons: he has a sexually-transmitted disease; he has had sexual relations with another woman; or the woman is tired, not in mood, or recently has given birth.

Justify domestic violence: percent of women aged 15-49 years believing that a husband/male partner would be justified in beating his wife/female partner for at least one of the following reasons: he suspects her of being unfaithful; she argues with him; she goes out without telling him; she neglects the children; she burns the food; or other, country-specific reasons (for example, she shows disrespect for her in-laws or her family does not give the expected dowry).

E. ORPHANHOOD

Maternal orphan prevalence: percent of children under 15 years of age whose natural mother had died before the survey.

Paternal orphan prevalence: percent of children under 15 years of age whose natural father had died before the survey.

Double orphan prevalence: percent of children under 15 years of age both of whose natural parents had died before the survey.

DATA AND METHODS

Any assessment of the figures featured in this report requires an appreciation of how they were prepared. The first need is to understand the basic features of the data and methods employed.

A. SOURCE OF FIGURES

The figures appearing in this report are all derived from data collected under the Demographic and Health Surveys (DHS) program conducted by ORC Macro, with support from the U.S. Agency for International Development and other external assistance organizations. Large DHS household surveys have been carried out, usually at periodic intervals, in approximately seventy-five countries across Africa, Asia, Latin America, the Middle East, and the former Soviet Union.¹⁶ This series of reports covers the fifty-six of those countries that had one or more DHS surveys undertaken since 1990, for which data were publicly available as of June 2006. (Annex C is a list of the countries for which reports have been prepared.)

In each country, the DHS program has gathered information on a large number of indicators about health, nutrition, and population (hnp) status and service use; about relevant behaviors of household members; and about household characteristics like those described below. It has done this through a set of questionnaires, similar in all countries, to collect data at the individual, household, and community levels.

The data presented here draw on responses to the individual and household questionnaires. In most cases, they are based on responses from women or other family members interviewed. The principal exceptions concern nutritional status, which is based on anthropometric measurement; immunization, which typically relies to the extent possible on record cards maintained at the household level; and those other items where a source other than interviewer response is specifically identified.

B. MEASUREMENT OF ECONOMIC STATUS

Wealth or Asset Approach

Economic status has been expressed in terms of wealth or assets: specifically, on the basis of information about household characteristics gathered through the DHS household questionnaire. (Such information was normally provided for at least 25-30, and often many more, characteristics like the presence, availability, or use of a fan, radio receiver, or automobile; housing materials like wood or concrete flooring, tile or tin roofing, or cement block walls; superior sources of water like piped or a protected well; and other attributes related to economic status.)

¹⁶ Further information about the DHS program is available at the program's website: www.measuredhs.com.

Index Construction

A single, consolidated index of living standards¹⁷ was constructed by using principal components analysis (PCA) to generate a weight for each household item with available information. A wealth index score was calculated for each household by weighting the response with respect to each item pertaining to that household by the coefficient of the first principal component as determined by application of principal components analysis, and summing the results. The resulting household scores were standardized in relation to a standard normal distribution with a mean of zero and a standard deviation of one.

All individuals usually present in each household were assigned the household's standardized wealth index score, and all individuals in the sample population were ranked according to that score. The sample population was then divided into quintiles of individuals, with all individuals in a single household being assigned to the same quintile.

The same standardized household wealth index scores originally derived for the total population sample, as just described, were also used in preparing the disaggregated estimates for female and male members of the sample population, and for rural and urban residents. In preparing those disaggregated estimates, the entire population sample was divided into quintiles of individuals; the females and males, and the rural and urban residents in each quintile of the entire sample were then separated from one another; and the mean for each of the ten resulting subgroups (five female, five male; or five rural, five urban) was calculated.

This procedure was carried out separately for each of the surveys covered.

C. CALCULATION AND PRESENTATION OF RATES

Use of Sampling Weights

Rates for all health, nutrition, and population indicators are calculated after applying the DHS sampling weights. (DHS surveys often over-sample certain small subgroups of interest – residents of a particular geographic area, for example – in order to get sample sizes large enough to produce statistically-significant results. The DHS sampling weights are used to compensate for such over-sampling in order to ensure that the results are representative of the population as a whole and not just of the DHS sample.)

Calculation of Total Population Averages

The average for the total population presented alongside the quintile-specific rates for each indicator is calculated without reference to quintile divisions. It thus equals the weighted mean of the quintile rates, with the weight assigned to each quintile rate being the proportion of the number of individuals at risk (as defined on p. 59) for the indicator concerned.

Sampling Errors

Information needed to assess the statistical significance of differences among the quintile-specific rates is presented in three ways:

- First, in all the basic tables presented in part I, rates are shown in parentheses or replaced by asterisks in cases where the standard error is likely to be unacceptably high because

¹⁷ Such an index is usually referred to as either an “asset index” or a “wealth index.” The two expressions are used interchangeably in this report; for ease of communication, “wealth index” appears more frequently despite the inexact correspondence between the items included in the index's construction and those appearing in more conventional, financially-based definitions of wealth.

of small sample size. The number of observations used to determine how to present the data for the different indicators covered were as follows:

Indicator	Unit of measure	Number of observations used to determine how quintile-specific rate was presented		
		<i>Without parentheses</i>	<i>With parentheses</i>	<i>Replaced by asterisk</i>
Infant and child mortality	Number of deaths	>500	250-499	<250
Total and adolescent fertility	Number of births	>250	125-249	<125
All other indicators	Number of individuals	>50	25-49	<25

- Second, the standard error for each quintile-specific rate (except for any rate replaced by an asterisk) appearing in the total population table is provided in part III.B. (Standard errors for the quintile-specific rates presented in the female-male and rural-urban tables are not available.)

- Third, the right-hand column of the total population table provides the standard error for the concentration index, one of the measures of inequality shown, as indicated below.

D. MEASUREMENT OF INEQUALITY

Accompanying each of the indicators presented in the total population table are the values for three statistical measures of inequality:

- *Low/High Quintile Ratio*: the ratio between the rate prevailing in the lowest (poorest) population quintile and that found in the highest (least poor) quintile.

- *Low-High Quintile Difference*: the value of the lowest quintile minus the value of the highest, expressed as an absolute value.

- *Concentration Index*: twice the area in a Lorenz-type diagram between the line of equality and the concentration curve for the indicator in question, the curve being the graph of the cumulative share of the indicator against the cumulative share in the asset distribution. (The value, which can range from -1 to +1, is negative when the hnp indicator is higher among the poor (e.g., fertility), positive when it is higher among the better-off (e.g., modern contraceptive use), and zero when on balance the indicator shows no systematic relationship with wealth.)¹⁸

¹⁸ Adam Wagstaff, Pierella Paci, and Eddy van Doorslaer, "On the Measurement of Inequalities of Health," *Social Science and Medicine* 33 (1991): 545-57. (See also chapter eight in the volume by O'Donnell, van Doorslaer, Wagstaff, and Lindelow described in the annotated bibliography that constitutes annex A.)

DISCUSSION

While a basic understanding of the data and methods employed is necessary to adequately appreciate the figures appearing in this report, it is not sufficient. For the application of the approach taken involves many subtleties that also need to be understood. Among the more important are:

A. DESCRIPTIVE NATURE OF THE RELATIONSHIPS

The hnp-poverty relationships shown in this report are no more than descriptive. They should not be taken to imply any direct causal relationships, for several reasons.

One reason is the possibility that it is not wealth or asset possession *per se* that determine a person's health condition. Rather, the determining factors could be other characteristics (such as education or ethnic background) that are simultaneously associated with both asset ownership and health status.

It is also possible that the health-poverty relationships shown are driven primarily by particular items included in the index (e.g., water and sanitation). Should this be the case, improvements in health conditions among the poor might be more effectively brought about by focusing on changing those particular components of the wealth index rather than by a general effort to increase economic status as measured by the index as a whole.

B. IMPLICATIONS OF A WEALTH/ASSET APPROACH

Wealth or Assets as a Measure of Economic Status

Reliance on a wealth index to measure economic status is a rather recent development in research on economic disparities, where such status traditionally has been defined in terms of consumption or income. The principal reason for the choice of the wealth index is pragmatic rather than conceptual: the DHS surveys, which are of interest because of the plethora of hnp information that they contain, do not collect consumption or income data; but they do have detailed information on households' physical characteristics, and on the household-level presence of and access to a wide range of goods and services. While there is some disagreement about the relative merits of using such wealth/asset information or consumption data to measure economic status, several recent studies suggest that the asset-consumption relationship is quite close.¹⁹ To the extent this is the case, an index of wealth or asset possession/availability can be taken as a

¹⁹ See, for example, Deon Filmer and Lant H. Pritchett, "Estimating Wealth Effects without Expenditure – or Tears: An Application to Educational Enrollments in States of India," *Demography* 38, no. 1 (February 2001): 115-32; Shea Rutstein and Kiersten Johnson, *The DHS Wealth Index*, DHS Comparative Reports No. 6 (Calverton, Maryland, USA: ORC Macro, August 2004) esp. 10-14; Adam Wagstaff and Naoko Watanabe, "What Difference Does the Choice of SES Make in Health Inequality Measurement?" *Health Economics* 12 (2003): 885-90.

reasonably satisfactory proxy for consumption, rather than or in addition to serving as an indicator of economic status in its own right.

C. ECONOMIC STATUS AS A MEASURE OF SOCIO-ECONOMIC WELL-BEING

Like consumption or income, a wealth index defines disparities that are primarily economic. This is by no means the only way to define inter-group inequalities that are of potential concern. Other possibilities include gender, place of residence, education, ethnic background, or other factors associated with social exclusion. Thus the economic perspective provides only a partial view of the multidimensional concepts of poverty, inequality, and inequity.

By including tables on female-male and rural-urban inequalities, this report pays adequate attention to two of inequality's other important dimensions to justify the use of the term "socio-economic" rather than simply "economic" in its title. However, the centrality of tabulations based on the wealth index means that the primary focus is on the economic dimension. The justification for this lies not in the greater importance of economic considerations, but rather in the recently-improved ability to analyze and thus begin dealing with them. Until the development of the wealth/asset approach, the assessment of economic status had been based on consumption, expenditures, or income, all of which are far more difficult to measure than such other, non-economic dimensions of inequality as gender, ethnic identity, educational level, and place of residence. As a result, assessments of health inequalities by economic status had lagged well behind measurements in terms of these other dimensions, especially gender and education. The focus on inequality's economic aspect applied here represents an effort to redress this imbalance.

D. INDEX CONSTRUCTION

Choice of Items

Use of a wealth index requires decisions about which items to include in it. In the case of secondary analyses like the one featured in this report, the choice is limited to those items included in the data sets being used. But even with this constraint, there nonetheless remains considerable room for choice, given the large number of items for which information is collected by the DHS.

The decision made in preparing this report was to include all items in each DHS household questionnaire that relate to ownership of household goods; to dwelling unit construction and characteristics; and to access to services and resources like electricity, water, and sanitation facilities. Also included were other potential indicators of wealth, such as live-in domestic servants. This decision, admittedly somewhat arbitrary, has both advantages and disadvantages.

The principal advantage is practical: use of a large number of assets increases the degree of variation across household asset scores and facilitates a more regular distribution of individuals across quintiles. It also reduces the possibility of subjectivity in selecting only some of the variables for inclusion on some *a priori* basis; and it may increase a wealth index's accuracy as a proxy for consumption.

However, including all variables is far from satisfying conceptually. For example, it means failing to discriminate with respect to the items' differing natures. It is not clear, for instance, whether access to water, sanitation, electricity, or other publicly-provided resources should be included in an index that purports to measure private household wealth.

Further, many items that are candidates for inclusion in a DHS-based wealth index might be seen as directly influencing health status: water and sanitation for infant and child mortality, for

example. It would be desirable to include quintile-specific estimates for such items; but to the extent that such items have large index coefficients, any estimates for those items would be suspect. Such items appear to be relatively few and of limited statistical significance in the index used here. However, for the sake of caution, quintile-specific estimates for items appearing in the index have nonetheless been excluded from the basic tables and appear only in supporting table III.C

Additional issues arise when comparing the findings for two different points in time covered in the basic tables. Because the nature and number of asset questions included in DHS surveys has been evolving, the items included in the wealth index differ somewhat for each of the surveys reported upon. As such, the results presented in the basic tables might differ to some extent from findings produced by some other approach, such as including in the index only those items appearing in each survey covered.

Weighting of Items

A further decision required in construction of an index concerns the weight to attach to each of the respective items. As noted earlier, the method used in this report is principal components analysis (PCA).

Adoption of this method was based on the findings, referred to earlier, that its use resulted in outcomes that approximated reasonably well those produced by taking a consumption or expenditure approach. Further, it often provides greater discrimination in economic status than does the use of consumption/expenditures. It has also emerged as the standard approach for use in analyses of the sort presented here, so that its adoption is largely non-controversial.

Yet this choice, too, is not without an arbitrary aspect; for alternative plausible methods exist. Examples include the “inverse possession” approach, which gives more weight to items possessed by only a few and less to those possessed by many;²⁰ or, perhaps, the common practice of simply assigning the same weight to each index item.

Also, the weights for any particular item vary from survey to survey, since the weights were determined separately for the population of each survey included in the basic tables. The results thus produced can be expected to differ from those generated in some other manner, such as generating common weights for all the surveys covered by pooling the data sets.

Use of Principal Components Analysis with Dichotomous Variables

An additional issue concerns the use of a technique like PCA, developed for use with continuous variables, in the construction of an index based primarily on dichotomous variables. While legitimate in principle, any reservations in this regard are of limited practical consequence, since the considerable experimentation undertaken in preparation for the tabulations presented here indicated that any inaccuracy introduced by applying PCA to the analysis of the dichotomous values used is minimal.

Economies of Scale

Calculating the values for a household wealth index also requires a decision concerning economies of scale that exist in the households covered. The calculations presented here assume complete economies of scale. The implicit assumption is that additional members do not add to household expenses on items included in the index.

²⁰ Saul S. Morris et al., “Validity of Rapid Estimates of Household Wealth and Income for Health Surveys in Rural Africa,” *Journal of Epidemiology and Community Health* 54 (2000): 381-87.

E. DEFINITION OF QUINTILES

Quintiles of Individuals

As noted earlier, the quintile-specific figures presented in this report refer to quintiles of individuals in the household population. Such quintiles need to be distinguished from quintiles of households or quintiles of only those people in the population who are “at risk”: that is, subject to the particular condition, eligible for the particular service, or capable of behaving in a particular way (children born alive for infant and under-five mortality, for example; or adult men and women for condom use or non-regular sexual partnerships).

The expression of findings in terms of quintiles of individuals has several implications:

- Because fertility is often higher in lower economic households than among better-off ones, the number of individuals per household will frequently be larger among the poor than among higher-income groups. In such cases, the number of households will vary systematically across quintiles of individuals, and the results expressed in terms of quintiles of households can differ significantly from those presented here.

- The proportion of individuals “at risk” with regard to a particular indicator is also likely to vary across quintiles in many cases. (For example, in cases where fertility is higher among poor people, a higher-than-average proportion of poor populations will consist of newborns at risk from infant mortality, young children subject to malnutrition, and pregnant women for whom antenatal care is relevant.) To facilitate the work of any investigators wishing to undertake calculations based on people at risk, the number of such people in each quintile of individuals is shown in part III.A.

- As previously indicated, the population average figure provided for each indicator is equivalent to the weighted sum of the quintile rates for that indicator, where the weight assigned to each quintile rate is the number of people at risk in each quintile as presented in part III.A. As a result of this weighting, the population average will usually differ from a simple mean of the population quintile estimates.

Quintiles of Males and Females, of Rural and Urban Residents

As also reported in the data and methods section, the tables on rural and urban residents and on men and women were prepared using the same asset scores as for the total population; and rural-urban residents and females-males were separated from one another only after the entire sample had been disaggregated into quintiles of individuals. This means that the figures given in the rural-urban and female-male tables refer to females-males and rural-urban residents belonging to each quintile of individuals in the total population, as distinct from quintiles of females, of males, of rural residents, or of urban residents alone.

The consequence of this distinction is particularly evident with regard to rural and urban residents. Since rural residents tend to be poorer than urban dwellers, they normally form a considerably higher proportion of individuals in the lower economic quintiles of the total population than in the higher ones. Conversely, urban residents tend to be concentrated in the higher economic groups. As a result, the number of individuals in each of the urban and rural quintiles usually varies greatly and systematically; and when this is the case, the figures presented in the rural-urban tables can differ significantly from those produced by a computation procedure that places the same number of rural and urban residents in each rural quintile or each urban quintile. (The results may also differ significantly from application of an approach featuring the separate calculation of index values for urban and for rural groups. While such separate index values may well be preferable conceptually, their calculation involves complexities that prevented their preparation for this report.)

F. COMPARISON OF QUINTILES ACROSS COUNTRIES

Reliance on population quintiles as basic presentational format for the data appearing in this report implicitly incorporates a relative concept of poverty. This differs from an absolute concept of poverty under which the population would be divided into groups of different sizes according to some absolute standard of living (such as people earning less than one dollar a day, between one and two dollars a day, and more than two dollars a day).

This means that, when comparing values of an indicator among people in a given quintile across countries, the comparison is between groups of people whose economic status can be quite different. The lowest quintile of a Latin American population, for example, will usually be considerably better-off than the lowest quintile in an African country.

G. COMPARISON OF QUINTILES OVER TIME

Another implication is that the wealth status of any given quintile within a particular country is likely to change over time. For instance, when a country is progressing economically, the wealth of the households in the population will tend to increase. This will raise the average asset score in most, possibly all population quintiles. As a result, the living standard enjoyed by individuals in any quintile covered by a recent survey is likely to be higher than that of individuals in that same quintile as measured in a prior survey.

H. STATISTICAL INDICATORS OF INEQUALITY

The available statistical indicators of inequality are far too numerous to permit use of more than a small proportion of them in presenting the findings featured in this report. The three indicators employed have been selected to provide a wide range of perspectives. Two are designed for ease of understanding, the third for greater technical accuracy.

The low/high quintile ratio and low-high quintile difference are the two presented for ease of understanding. The former is a relative measure, the latter an absolute measure that can produce a significantly different impression from that provided by the former.

The concentration index is provided for the benefit of technical specialists wishing greater accuracy. It measures the degree of inequality in an hnp indicator across the full wealth index distribution, rather than differences between only two of the five quintiles, and also reflects the relative size of the different asset-based divisions of the study population.

I. COMPARABILITY WITH OTHER REPORTS

Tabulations similar to those presented here can also be found in the initial series of hnp/poverty country reports, issued in 2000, and in the recent country reports issued by the DHS program. The figures presented in those reports normally resemble quite closely those appearing here for any given indicator; but there are often slight differences for one or more of several reasons. The most common is a difference in the definition of the indicator in question. (These differences are usually small and subtle. But there is one important exception: the definition of moderate malnutrition among children. In the 2000 reports, this was defined as second and third degree malnutrition taken together. Here, it is defined as second degree malnutrition alone.) Another reason, with respect to infant and child mortality, is that the figures in the DHS documents are typically based on experience during the five years before the survey in question, rather than

during the ten previous years as in this report. A further frequent reason is the use of an improved computational technique.

In addition, asset-based, quintile-specific tabulations of hnp indicators have begun to appear in an increasing number of other documents. Given the basic similarity of approach, such tabulations usually produce results that are generally congruent with those shown in part I of this report. However, significant divergences have occasionally been reported; and the absence of adequately detailed information about data and methods often prevents any fully-satisfying understanding of the approaches used. As a result, occasional doubts and frequent uncertainties about approach comparability remain.

PART IV. SUPPORTING TABLES, 1999

- A. SAMPLE SIZES**
- B. STANDARD ERRORS**
- C. ASSET DISTRIBUTION AND WEIGHTS**

Zimbabwe
1999 - SAMPLE SIZES

TOTAL SAMPLE

Indicator	Wealth Quintiles					Pop. Total
	Low	2nd	3rd	4th	High	
Number of household members						
All	5,362	5,212	5,436	5,259	5,397	26,666
Urban	2	3	92	3,235	5,192	8,525
Rural	5,360	5,209	5,344	2,023	204	18,141
Female	2,817	2,717	2,834	2,438	2,684	13,490
Male	2,545	2,495	2,603	2,820	2,712	13,176

Part I: HNP STATUS

Indicator	Wealth Quintiles					Pop. Total
	Low	2nd	3rd	4th	High	
Mortality rates						
All	1,468	1,301	1,300	1,461	1,227	6,758
Urban	0	4	20	885	1,186	2,095
Rural	1,468	1,297	1,280	577	41	4,663
Female	715	662	609	715	595	3,296
Male	754	639	691	746	632	3,462
Prevalence of fever, diarrhea, acute respiratory infection						
All	673	605	613	749	629	3,269
Urban	0	1	10	457	611	1,079
Rural	673	604	603	292	19	2,191
Female	328	324	283	374	300	1,609
Male	345	281	330	375	329	1,660
Total fertility rate						
All	2,777	2,769	2,970	3,661	4,163	16,342
Urban	0	4	70	2,360	3,982	6,416
Rural	2,777	2,764	2,900	1,304	180	9,925
Age-specific fertility rate 15-19						
All	651	703	837	968	1,126	4,285
Urban	0	0	19	649	1,076	1,744
Rural	651	703	818	319	50	2,541
Children's nutritional status						
All	563	477	474	555	451	2,520
Urban	0	0	8	354	441	803
Rural	563	477	466	201	10	1,717
Female	270	245	216	290	213	1,234
Male	293	232	259	265	238	1,287
Children's anemia status						
All	na	na	na	na	na	na
Urban	na	na	na	na	na	na
Rural	na	na	na	na	na	na
Female	na	na	na	na	na	na
Male	na	na	na	na	na	na

Zimbabwe
1999 - SAMPLE SIZES

Part I: HNP STATUS (Cont.)

Indicator	Wealth Quintiles					Pop. Total
	Low	2nd	3rd	4th	High	
Women's nutritional status						
All	860	865	937	1,107	1,274	5,043
Urban	0	0	23	719	1,216	1,958
Rural	860	865	914	388	58	3,085
Women's anemia status						
All	na	na	na	na	na	na
Urban	na	na	na	na	na	na
Rural	na	na	na	na	na	na
Girls' circumcision						
All	na	na	na	na	na	na
Urban	na	na	na	na	na	na
Rural	na	na	na	na	na	na
Women's circumcision						
All	na	na	na	na	na	na
Urban	na	na	na	na	na	na
Rural	na	na	na	na	na	na
Prevalence of genital discharge, ulcer, sore						
Female	851	811	846	1,076	1,100	4,684
Urban Female	0	1	17	686	1,059	1,763
Rural Female	851	809	829	389	41	2,919
Male	277	287	324	579	504	1,971
Urban Male	0	0	16	375	486	877
Rural Male	277	287	308	204	18	1,094

Zimbabwe

1999 - SAMPLE SIZES

Part II: Intermediate Determinants of HNP Status - HNP SERVICE USE

Indicator	Wealth Quintiles					Pop. Total
	Low	2nd	3rd	4th	High	
Immunization coverage						
All	146	127	139	161	125	699
Urban	0	0	4	103	121	228
Rural	146	127	135	59	5	472
Female	80	67	70	80	50	347
Male	66	60	69	81	76	352
Treatment of fever						
All	174	170	187	178	134	843
Urban	0	0	0	113	131	244
Rural	174	170	187	65	3	599
Female	91	79	103	91	74	438
Male	83	91	83	87	60	404
Treatment of acute respiratory infection						
All	122	111	110	101	73	517
Urban	0	1	0	50	70	121
Rural	122	109	110	50	3	394
Female	63	63	48	48	29	251
Male	59	47	63	53	44	266
Treatment of diarrhea						
All	93	82	107	103	68	453
Urban	0	0	2	60	66	128
Rural	93	82	105	43	2	325
Female	42	43	46	55	29	215
Male	50	39	61	48	39	237
Antenatal and delivery care						
All	541	495	516	645	573	2,770
Urban	0	1	8	392	557	958
Rural	541	494	508	253	16	1,812
Contraceptive prevalence						
Female	678	637	650	846	796	3,609
Urban Female	0	1	11	530	763	1,305
Rural Female	678	635	639	316	33	2,301
Male	192	159	197	375	316	1,239
Urban Male	0	0	13	229	304	546
Rural Male	192	159	184	145	13	693
Contraceptive source						
Female	279	268	278	455	537	1,817
Urban Female	0	0	2	288	518	807
Rural Female	279	268	276	167	19	1,010
Male	192	159	197	375	316	1,239
Urban Male	0	0	13	229	304	546
Rural Male	192	159	184	145	13	693
Treatment of genital discharge, ulcer, sore						
Female	80	50	59	126	90	405
Urban Female	0	1	3	101	88	193
Rural Female	80	49	57	25	2	213
Male	na	na	na	na	na	na
Urban Male	na	na	na	na	na	na
Rural Male	na	na	na	na	na	na

Zimbabwe

1999 - SAMPLE SIZES

Part III: Intermediate Determinants of HNP Status - INDIVIDUAL AND HOUSEHOLD BEHAVIOR

Indicator	Wealth Quintiles					Pop. Total
	Low	2nd	3rd	4th	High	
Sanitary disposal of stools						
All	na	na	na	na	na	na
Urban	na	na	na	na	na	na
Rural	na	na	na	na	na	na
Wash hands prior to preparing food						
All	1,013	1,022	1,085	1,315	1,471	5,906
Urban	0	1	24	847	1,406	2,278
Rural	1,013	1,020	1,061	469	65	3,628
Handwashing facilities in household?						
All	1,097	1,007	1,243	1,660	1,538	6,545
Urban	1	1	28	1,050	1,481	2,561
Rural	1,096	1,006	1,215	610	57	3,984
Bednet ownership						
All	1,097	1,007	1,243	1,660	1,538	6,545
Urban	1	1	28	1,050	1,481	2,561
Rural	1,096	1,006	1,215	610	57	3,984
Bednet use by children						
All	621	555	600	651	610	3,037
Urban	0	0	12	397	590	999
Rural	621	555	588	254	20	2,038
Bednet use by pregnant women						
All	na	na	na	na	na	na
Urban	na	na	na	na	na	na
Rural	na	na	na	na	na	na
Exclusive breastfeeding						
All	44	61	51	48	44	248
Urban	0	0	1	30	42	73
Rural	44	61	50	18	2	175
Female	28	24	30	32	23	137
Male	16	36	21	16	21	110
Timely complementary breastfeeding						
All	38	34	45	49	44	210
Urban	0	0	0	35	44	79
Rural	38	34	45	14	0	131
Female	21	19	23	26	23	112
Male	16	15	22	22	21	96
Bottle-feeding						
All	119	137	126	150	128	660
Urban	0	0	2	96	125	223
Rural	119	137	124	55	4	439
Female	69	62	71	87	61	350
Male	50	75	55	64	67	311

Zimbabwe

1999 - SAMPLE SIZES

Part III: Intermediate Determinants of HNP Status - INDIVIDUAL AND HOUSEHOLD BEHAVIOR (Cont.)

Indicator	Wealth Quintiles					Pop. Total
	Low	2nd	3rd	4th	High	
Iodized salt in household						
All	na	na	na	na	na	na
Urban	na	na	na	na	na	na
Rural	na	na	na	na	na	na
Vitamin A supplementation						
All	na	na	na	na	na	na
Urban	na	na	na	na	na	na
Rural	na	na	na	na	na	na
Female	na	na	na	na	na	na
Male	na	na	na	na	na	na
Tobacco and alcohol use, casual sexual partners, condom use for casual sex						
Female	1,013	1,022	1,085	1,315	1,471	5,906
Urban Female	0	1	24	847	1,406	2,278
Rural Female	1,013	1,020	1,061	469	65	3,628
Male	364	420	488	699	638	2,609
Urban Male	0	0	18	455	617	1,090
Rural Male	364	420	470	244	20	1,518
Domestic violence						
All	na	na	na	na	na	na
Urban	na	na	na	na	na	na
Rural	na	na	na	na	na	na

Zimbabwe

1999 - SAMPLE SIZES

Part IV: UNDERLYING DETERMINANTS OF HNP STATUS

Indicator	Wealth Quintiles					Pop. Total
	Low	2nd	3rd	4th	High	
School completion (Grade 5)						
Female	1,061	1,062	1,138	1,329	1,533	6,123
Urban female	0	1	23	828	1,465	2,317
Rural female	1,061	1,060	1,115	501	68	3,805
Male	873	931	1,069	1,624	1,526	6,024
Urban male	0	1	23	1,077	1,471	2,572
Rural male	873	930	1,047	547	55	3,451
School participation						
Female	483	426	423	280	293	1,904
Urban female	0	0	7	166	278	450
Rural female	483	426	416	114	15	1,454
Male	495	437	419	285	296	1,933
Urban male	0	0	10	153	289	452
Rural male	495	437	409	132	7	1,481
Mass media exposure						
Female	1,013	1,022	1,085	1,315	1,471	5,907
Urban female	0	1	24	847	1,406	2,279
Rural female	1,013	1,020	1,061	469	65	3,628
Male	364	420	488	699	638	2,609
Urban male	0	0	18	455	617	1,090
Rural male	364	420	470	244	20	1,519
Knowledge of HIV/AIDS prevention						
Female	2,107	1,022	1,085	1,315	1,471	7,000
Urban female	0	1	24	847	1,406	2,278
Rural female	1,013	1,020	1,061	469	65	3,628
Male	364	420	488	699	638	2,609
Urban male	0	0	18	455	617	1,090
Rural male	364	420	470	244	20	1,518
Household decisionmaking and justification of violence						
All	1,013	1,022	1,085	1,315	1,471	5,907
Urban	0	1	24	847	1,406	2,279
Rural	1,013	1,020	1,061	469	65	3,628
Orphanhood						
All	2,657	2,495	2,394	1,862	1,793	11,201
Urban	1	0	37	1,080	1,733	2,852
Rural	2,656	2,495	2,357	782	60	8,350
Female	1,303	1,257	1,197	926	893	5,575
Male	1,354	1,238	1,197	937	901	5,626

Zimbabwe

1999 - STANDARD ERRORS OF QUINTILE ESTIMATES FOR TOTAL POPULATION

Part I: HNP STATUS

Indicator	Wealth Quintiles					Avg.
	Low	2nd	3rd	4th	High	
A. Childhood illness and mortality						
Infant mortality rate	6.84	6.96	10.35	8.69	7.56	3.96
Under-five mortality rate	9.65	8.39	15.01	10.86	9.35	5.47
Prevalence of fever	2.00	2.03	2.26	2.21	2.05	0.99
Prevalence of diarrhea	1.47	1.23	1.44	1.44	1.37	0.61
Prevalence of acute respiratory infection	1.84	1.70	1.66	1.78	1.47	0.78
B. Fertility						
Total fertility rate	0.20	0.25	0.20	0.22	0.16	0.12
Adolescent fertility rate	14.00	15.00	11.00	13.00	10.00	6.00
C. Nutritional status						
<i>Children:</i>						
Moderate stunting	1.77	1.52	2.29	1.58	2.06	0.78
Severe stunting	1.49	1.69	1.38	1.31	1.34	0.69
Moderate underweight	1.57	1.65	1.77	1.62	1.18	0.79
Severe underweight	0.52	0.71	0.46	0.49	0.49	0.23
Mild anemia	na	na	na	na	na	na
Moderate anemia	na	na	na	na	na	na
Severe anemia	na	na	na	na	na	na
<i>Women:</i>						
Malnutrition	0.92	0.78	0.74	0.81	0.73	0.39
Mild anemia	na	na	na	na	na	na
Moderate anemia	na	na	na	na	na	na
Severe anemia	na	na	na	na	na	na
D. Female circumcision						
<i>Prevalence of circumcision:</i>						
Girls	na	na	na	na	na	na
Women	na	na	na	na	na	na
<i>Prevalence of occlusion:</i>						
Girls	na	na	na	na	na	na
Women	na	na	na	na	na	na
E. Sexually transmitted disease						
<i>Prevalence of genital discharge:</i>						
Women	0.91	0.77	0.88	1.28	1.12	0.51
Men	1.29	1.04	1.54	1.05	0.63	0.62
<i>Prevalence of genital ulcer:</i>						
Women	0.77	0.60	0.69	1.09	0.66	0.37
Men	1.62	1.15	1.22	1.13	1.16	0.65

Zimbabwe

1999 - STANDARD ERRORS OF QUINTILE ESTIMATES FOR TOTAL POPULATION

Part II: Intermediate Determinants of HNP Status - HNP SERVICE USE

Indicator	Wealth Quintiles					Avg.
	Low	2nd	3rd	4th	High	
A. Childhood immunization						
BCG coverage	2.57	2.83	4.97	3.05	3.04	1.58
Measles coverage	3.13	3.20	5.01	3.96	3.79	1.82
DPT coverage	3.31	3.23	5.54	3.85	3.80	1.97
Full basic coverage	3.56	3.68	5.61	4.56	4.55	2.30
No basic coverage	2.57	2.74	4.97	2.74	3.04	1.55
Hepatitis B coverage	na	na	na	na	na	na
Yellow fever coverage	na	na	na	na	na	na
B. Treatment of childhood illnesses						
<i>Treatment of fever:</i>						
Medical treatment of fever	3.89	3.89	4.36	4.46	6.24	2.12
Treatment in a public facility	4.44	4.00	4.21	4.09	6.19	2.25
Treatment in a private facility	2.85	0.87	1.77	3.72	6.10	1.69
<i>Treatment of acute respiratory infection (ARI):</i>						
Medical treatment of ARI	4.06	4.98	5.11	6.23	8.07	2.54
Treatment in a public facility	5.09	5.45	5.16	5.40	7.08	2.79
Treatment in a private facility	3.85	2.90	2.32	4.01	6.74	1.92
<i>Treatment of diarrhea:</i>						
Use of oral rehydration therapy	4.21	4.90	4.61	4.38	4.46	2.02
Medical treatment of diarrhea	4.27	5.91	5.72	5.21	6.26	2.45
Treatment in a public facility	4.62	5.91	5.55	4.94	5.35	2.47
Treatment in a private facility	2.30	0.00	1.86	2.58	5.07	1.12
C. Antenatal and delivery care						
<i>Antenatal care (ANC) visits:</i>						
To a medically trained person	1.55	1.32	2.83	1.54	0.86	0.97
To a doctor	0.90	1.09	1.34	1.82	2.96	0.86
To a nurse or trained midwife	1.72	1.58	2.93	2.15	2.87	1.09
Multiple visits to a medically trained person	1.89	2.02	2.74	2.26	2.31	1.19
<i>Antenatal care content:</i>						
Tetanus toxoid	1.86	2.09	3.28	2.28	2.00	1.16
Prophylactic antimalarial treatment	2.58	2.42	2.60	2.40	1.72	1.28
Iron supplementation	2.34	2.79	3.14	2.43	2.53	1.35
<i>Delivery attendance:</i>						
By a medically trained person	2.80	2.42	3.61	2.11	1.19	1.50
By a doctor	1.04	1.12	1.36	1.42	2.85	0.72
By a nurse or trained midwife	2.70	2.35	3.51	2.25	2.66	1.47
In a public facility	2.72	2.85	3.44	2.43	2.29	1.67
In a private facility	1.83	2.05	2.30	1.50	2.40	1.19
At home	2.46	2.27	3.59	2.03	1.11	1.41
D. Contraceptive services						
<i>Contraceptive prevalence:</i>						
Women	2.63	2.30	2.50	2.58	1.94	1.21
Men	3.92	4.16	3.40	3.70	2.87	1.70
<i>Source of contraception - public sector:</i>						
Women	1.66	2.11	2.78	2.98	2.74	1.40
Men	na	na	na	na	na	na

Zimbabwe

1999 - STANDARD ERRORS OF QUINTILE ESTIMATES FOR TOTAL POPULATION

Part II: Intermediate Determinants of HNP Status - HNP SERVICE USE (Cont.)

Indicator	Wealth Quintiles					
	Low	2nd	3rd	4th	High	Avg.
D. Contraceptive services (cont.)						
<i>Source of contraception - private sector:</i>						
Women	1.59	2.05	2.77	2.79	3.25	1.69
Men	na	na	na	na	na	na
E. Treatment of adult illnesses						
<i>Treatment of genital discharge, ulcer, sore:</i>						
Women	5.44	6.68	6.06	4.98	7.25	2.88
Men	8.55	*	7.04	11.31	*	5.20
<i>Treatment of genital discharge, ulcer, sore in public facilities:</i>						
Women	0.91	0.77	0.88	1.28	1.12	0.51
Men	1.70	*	1.90	1.22	*	0.76
<i>Voluntary counseling and testing for HIV/AIDS:</i>						
Women	0.73	0.98	1.00	1.11	1.29	0.52
Men	1.38	0.98	0.97	1.31	1.87	0.64

Zimbabwe

1999 - STANDARD ERRORS OF QUINTILE ESTIMATES FOR TOTAL POPULATION

Part III: Intermediate Determinants of HNP Status - INDIVIDUAL AND HOUSEHOLD BEHAVIOR

Indicator	Wealth Quintiles					
	Low	2nd	3rd	4th	High	Avg.
A. Hygienic practices						
<i>Disposal of children's stools:</i>						
Sanitary disposal	2.29	2.32	1.72	1.84	1.88	1.17
<i>Handwashing:</i>						
Wash hands prior to preparing food	1.07	0.97	1.15	1.16	0.92	0.49
Handwashing facilities in household	0.10	0.25	0.30	1.56	3.50	1.05
B. Bednet ownership and use						
<i>Bednet ownership:</i>						
Bednet ownership	0.48	0.79	0.78	1.04	1.94	0.69
Treated bednet ownership	na	na	na	na	na	na
<i>Bednet use:</i>						
By children	0.16	0.37	0.61	0.93	1.55	0.44
By pregnant women	na	na	na	na	na	na
C. Breastfeeding						
Exclusive breastfeeding	6.66	7.29	7.44	8.46	12.98	3.90
Timely complementary feeding	3.02	2.31	6.78	3.95	7.55	2.45
Bottle-feeding	1.18	1.14	2.26	2.46	4.35	1.19
D. Micronutrient consumption						
<i>Iodized salt:</i>						
Availability of iodized salt in household	na	na	na	na	na	na
<i>Vitamin A:</i>						
Children	na	na	na	na	na	na
Women	na	na	na	na	na	na
E. Tobacco and alcohol use						
<i>Tobacco:</i>						
Women	0.34	0.35	0.28	0.28	0.47	0.18
Men	na	na	na	na	na	na
<i>Alcohol:</i>						
Women	0.51	0.35	0.48	0.67	0.54	0.27
Men	1.84	2.21	2.37	2.00	2.49	1.14
F. Sexual practices						
<i>Non-regular sexual partnerships:</i>						
Women	0.58	0.40	0.43	0.58	0.34	0.21
Men	1.47	1.49	1.78	1.61	1.50	0.75
<i>Condom usage with non-regular partner:</i>						
Women	*	*	*	7.09	*	4.92
Men	6.83	6.66	5.87	5.26	3.47	2.57
G. Domestic violence						
Ever experienced violence	na	na	na	na	na	na
Experienced violence in past year	na	na	na	na	na	na

Zimbabwe

1999 - STANDARD ERRORS OF QUINTILE ESTIMATES FOR TOTAL POPULATION

Part IV: UNDERLYING DETERMINANTS OF HNP STATUS

Indicator	Wealth Quintiles					
	Low	2nd	3rd	4th	High	Avg.
A. Education						
<i>School completion:</i>						
Women	1.72	1.50	1.64	1.20	0.48	0.71
Men	1.78	1.44	1.18	0.89	0.52	0.57
<i>School participation:</i>						
Girls	2.22	1.87	1.78	2.57	1.57	1.07
Boys	1.84	2.06	2.33	2.52	1.65	1.11
B. Exposure to mass media						
<i>Newspaper readership:</i>						
Women	0.59	1.08	1.19	1.57	1.81	0.99
Men	1.99	1.51	1.97	3.22	1.83	1.62
<i>Radio listenership:</i>						
Women	1.59	1.76	2.32	1.92	1.29	1.83
Men	2.43	3.19	2.76	2.02	1.48	1.27
<i>Television viewership:</i>						
Women	0.38	0.66	1.29	1.94	1.57	1.16
Men	1.50	1.79	2.38	3.17	2.24	1.71
C. Knowledge and attitudes about HIV/AIDS						
<i>Knowledge about sexual transmission of HIV/AIDS:</i>						
Women	1.95	1.44	1.42	1.23	0.89	0.75
Men	1.53	1.94	1.33	1.05	0.61	0.62
<i>Knowledge about mother-to-child transmission of HIV/AIDS:</i>						
Women	1.45	1.37	1.54	1.32	1.31	0.68
Men	2.01	1.91	1.79	1.74	1.48	0.87
<i>Attitudes toward HIV/AIDS:</i>						
Women	1.45	1.37	1.54	1.32	1.31	0.68
Men	2.01	1.91	1.79	1.74	1.48	0.87
D. Status of women						
<i>Household decisionmaking:</i>						
Can seek own health care	1.93	1.79	1.62	1.64	1.46	0.78
Can seek children's health care	0.79	0.99	0.80	1.06	0.79	0.46
Can make daily household purchases	1.70	1.53	2.02	1.73	1.53	0.90
Can make large household purchases	1.68	1.37	1.82	1.57	1.62	0.85
Can make meal-related decisions	1.57	1.73	2.07	1.89	1.67	0.92
<i>Freedom of movement:</i>						
Can travel to visit family/relatives	1.58	1.55	1.43	1.68	1.37	0.78
<i>Other decisionmaking, attitudes:</i>						
Can decide how to spend own money	3.59	2.93	2.72	2.76	1.98	1.37
Can decide whether to have sex	1.28	1.06	1.38	1.15	0.93	0.61
Justifies domestic violence	1.87	1.52	1.66	1.75	1.96	0.89
E. Orphanhood						
Paternal orphan prevalence	0.89	0.95	1.27	1.15	1.02	0.52
Maternal orphan prevalence	0.59	0.56	0.90	0.68	0.93	0.36
Double orphan prevalence	0.43	0.41	0.61	0.43	0.45	0.24

Zimbabwe

1999 - ASSET DISTRIBUTION AND WEIGHTS

(FACTOR SCORE)

Asset Variable	Unweighted		Wealth Quintiles						Factor Score
	Mean	Std. Deviation	Low	2nd	3rd	4th	High	Avg.	
			Percentage of Population						
Has electricity	0.326	0.469	0.1%	0.6%	8.7%	59.4%	99.7%	33.8%	0.11269
Has radio	0.492	0.500	25.0%	38.0%	50.1%	59.4%	91.1%	52.8%	0.06062
Has television	0.207	0.405	0.0%	1.4%	10.8%	30.3%	80.3%	24.7%	0.08585
Has refrigerator	0.122	0.328	0.0%	0.0%	1.0%	8.7%	63.7%	14.8%	0.07595
Has bicycle	0.212	0.409	13.9%	29.2%	27.6%	24.3%	20.6%	23.1%	0.00191
Has motorcycle/scooter	0.007	0.083	0.0%	0.1%	1.2%	0.5%	2.0%	0.8%	0.01280
Has car/truck	0.062	0.241	0.2%	0.5%	1.9%	5.5%	27.3%	7.1%	0.04989
Has telephone	0.056	0.229	0.0%	0.2%	0.8%	1.6%	31.6%	6.9%	0.05308
Owns modern oxcart	0.167	0.373	19.9%	38.3%	31.2%	7.9%	1.5%	19.7%	-0.03461
Works own or family's agricultural land	0.115	0.319	30.0%	26.0%	17.0%	4.7%	1.2%	15.7%	-0.03383
Uses piped water in residence for drinking	0.191	0.393	0.0%	0.0%	0.5%	29.0%	62.7%	18.5%	0.08575
Uses piped water into the building for drinking	0.137	0.344	0.1%	1.3%	2.8%	33.1%	33.9%	14.2%	0.05448
Uses water from a public faucet (piped) for drinking	0.094	0.291	3.1%	4.9%	9.7%	15.9%	2.5%	7.2%	0.00069
Uses water from unprotected well for drinking	0.117	0.321	27.0%	20.3%	15.3%	2.1%	0.0%	12.9%	-0.03807
Uses water from covered well for drinking	0.076	0.265	7.8%	13.9%	18.3%	7.3%	0.0%	9.4%	-0.01844
Uses water from traditional public well for drinking	0.304	0.460	41.8%	47.1%	47.6%	12.1%	0.7%	29.8%	-0.05589
Uses water from river, canal or surface for drinking	0.079	0.269	19.3%	12.2%	5.3%	0.5%	0.2%	7.5%	-0.03519
Uses water from tanker truck for drinking	0.003	0.052	0.9%	0.4%	0.4%	0.0%	0.0%	0.3%	-0.00596
Uses rain water for drinking	0.000	0.022	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	-0.00248
Uses other source of water for drinking	0.002	0.048	0.7%	0.3%	0.1%	0.0%	0.1%	0.2%	-0.00523
Uses flush toilet	0.810	0.392	100.0%	100.0%	58.5%	62.4%	98.9%	83.9%	-0.01060
Uses pit latrine	0.709	0.454	100.0%	100.0%	77.0%	50.2%	38.8%	73.1%	-0.08014
Uses a VIP latrine	0.738	0.440	100.0%	100.0%	81.5%	57.2%	39.3%	75.5%	-0.07906
Uses shared flush toilet	0.493	0.500	0.0%	0.0%	42.6%	94.7%	99.9%	47.6%	0.11380
Uses shared pit latrine	0.440	0.496	1.0%	22.5%	57.5%	66.0%	61.4%	41.8%	0.06533
Uses shared VIP latrine	0.509	0.500	1.0%	34.8%	81.0%	68.5%	61.5%	49.4%	0.05586
Uses bush,field as latrine	0.298	0.457	98.0%	42.4%	1.9%	0.1%	0.0%	28.4%	-0.09192
Uses other type of latrine	0.001	0.038	0.0%	0.0%	0.0%	0.4%	0.1%	0.1%	0.00422
Has dirt, sand, dung as principal floor in dwelling	0.338	0.473	94.9%	38.1%	23.5%	2.7%	0.0%	31.8%	-0.08689
Has wood, plank as principal floor in dwelling	0.003	0.059	0.0%	0.0%	0.0%	0.1%	1.6%	0.3%	0.01305
Has parquet or polished wood as principal floor in dwelling	0.003	0.057	0.0%	0.0%	0.0%	0.0%	1.0%	0.2%	0.01301
Has vinyl or asphalt strips as principal floor in dwelling	0.002	0.043	0.0%	0.0%	0.0%	0.2%	0.9%	0.2%	0.00905
Has tiles as principal floor in dwelling	0.010	0.097	0.0%	0.1%	0.0%	0.2%	4.8%	1.0%	0.02079
Has cement as principal floor in dwelling	0.605	0.489	5.1%	61.3%	76.4%	93.7%	75.0%	62.2%	0.06082
Has carpets as principal floor in dwelling	0.037	0.190	0.0%	0.5%	0.1%	2.9%	16.4%	4.0%	0.03850
Has other type of flooring in dwelling	0.001	0.025	0.0%	0.0%	0.0%	0.3%	0.0%	0.1%	0.00265
Uses electricity as cooking fuel	0.238	0.426	0.0%	0.0%	0.0%	29.9%	93.9%	24.9%	0.10581
Uses gas as cooking fuel	0.003	0.050	0.0%	0.0%	0.0%	0.4%	0.6%	0.2%	0.00835
Uses biogas as cooking fuel	0.000	0.022	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.00011
Uses kerosene as cooking fuel	0.093	0.290	0.0%	0.1%	1.0%	32.5%	5.0%	7.6%	0.03365
Uses charcoal as cooking fuel	0.001	0.031	0.0%	0.1%	0.1%	0.1%	0.0%	0.1%	0.00143
Uses wood as cooking fuel	0.661	0.474	99.6%	99.5%	98.5%	36.5%	0.5%	66.8%	-0.11654
Uses dung, manure as cooking fuel	0.004	0.060	0.2%	0.4%	0.3%	0.5%	0.0%	0.3%	-0.00212
Uses other cooking fuel	0.000	0.018	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.00149
Number of households toilet/sanitation facility is shared	3.295	8.460	0.0	0.0	1.9	3.8	2.4	2.3	0.00398

PART V. SUPPORTING TABLES, 1994

- A. SAMPLE SIZES**
- B. STANDARD ERRORS**
- C. ASSET DISTRIBUTION AND WEIGHTS**

Zimbabwe
1994 - SAMPLE SIZES

TOTAL SAMPLE

Indicator	Wealth Quintiles					Pop. Total
	Low	2nd	3rd	4th	High	
Number of household members						
All	5,681	5,490	5,607	5,603	5,568	27,949
Urban	6	34	78	1,880	5,274	7,272
Rural	5,675	5,456	5,529	3,723	294	20,677
Female	2,949	2,822	3,013	2,685	2,733	14,203
Male	2,730	2,664	2,594	2,918	2,835	13,741

Part I: HNP STATUS

Indicator	Wealth Quintiles					Pop. Total
	Low	2nd	3rd	4th	High	
Mortality rates						
All	2,001	1,452	1,513	1,598	1,430	7,994
Urban	2	11	20	625	1,350	2,008
Rural	1,999	1,441	1,492	973	80	5,986
Female	968	734	758	822	702	3,983
Male	1,034	718	755	777	728	4,011
Prevalence of fever, diarrhea, acute respiratory infection						
All	541	404	405	469	403	2,221
Urban	1	4	7	192	381	585
Rural	540	400	397	277	22	1,636
Rural	271	214	207	244	207	1,143
Female	270	190	198	225	196	1,079
Male						
Total fertility rate						
All	3,087	2,688	3,138	3,722	4,314	16,949
Urban	4	20	64	1,427	4,086	5,601
Rural	3,083	2,668	3,075	2,294	228	11,348
Age-specific fertility rate 15-19						
All	726	645	787	952	1,200	4,310
Urban	2	2	18	323	1,138	1,483
Rural	724	643	769	629	62	2,827
Children's nutritional status						
All	498	382	362	418	354	2,014
Urban	1	4	6	173	334	518
Rural	498	378	355	244	20	1,495
Female	246	204	177	221	175	1,023
Male	252	178	185	197	179	991
Children's anemia status						
All	na	na	na	na	na	na
Urban	na	na	na	na	na	na
Rural	na	na	na	na	na	na
Female	na	na	na	na	na	na
Male	na	na	na	na	na	na

Zimbabwe
1994 - SAMPLE SIZES

Part I: HNP STATUS (Cont.)

Indicator	Wealth Quintiles					Pop. Total
	Low	2nd	3rd	4th	High	
Women's nutritional status						
All	420	330	338	377	335	1,800
Urban	1	3	5	151	318	478
Rural	420	327	332	227	17	1,323
Women's anemia status						
All	na	na	na	na	na	na
Urban	na	na	na	na	na	na
Rural	na	na	na	na	na	na
Girls' circumcision						
All	na	na	na	na	na	na
Urban	na	na	na	na	na	na
Rural	na	na	na	na	na	na
Women's circumcision						
All	na	na	na	na	na	na
Urban	na	na	na	na	na	na
Rural	na	na	na	na	na	na
Prevalence of genital discharge, ulcer, sore						
Female	938	819	907	1,067	1,115	4,846
Urban Female	1	7	21	426	1,052	1,507
Rural Female	938	813	886	640	63	3,340
Male	207	262	264	446	498	1,677
Urban Male	0	6	4	203	468	681
Rural Male	207	256	260	243	30	996

Zimbabwe

1994 - SAMPLE SIZES

Part II: Intermediate Determinants of HNP Status - HNP SERVICE USE

Indicator	Wealth Quintiles					Pop. Total
	Low	2nd	3rd	4th	High	
Immunization coverage						
All	156	108	129	162	136	691
Urban	0	0	5	82	128	215
Rural	156	108	124	79	8	475
Female	78	61	68	81	74	362
Male	79	47	61	81	62	330
Treatment of fever						
All	236	161	158	188	137	881
Urban	0	3	3	69	127	202
Rural	236	158	155	119	10	678
Female	115	83	82	84	62	426
Male	122	78	75	104	76	455
Treatment of acute respiratory infection						
All	189	115	101	95	64	564
Urban	0	2	1	26	59	88
Rural	189	113	100	69	5	476
Female	95	50	46	56	35	282
Male	94	65	55	39	30	283
Treatment of diarrhea						
All	156	95	101	98	70	521
Urban	0	2	3	36	63	104
Rural	156	93	98	63	6	416
Female	78	44	49	47	33	251
Male	78	52	52	52	37	271
Antenatal and delivery care						
All	519	394	387	456	401	2,155
Urban	1	4	6	186	378	575
Rural	518	390	380	270	23	1,581
Contraceptive prevalence						
Female	775	645	722	822	824	3,788
Urban Female	1	5	16	321	771	1,114
Rural Female	774	639	707	501	53	2,674
Male	128	151	149	295	315	1,038
Urban Male	0	4	4	151	293	452
Rural Male	128	147	146	144	22	587
Contraceptive source						
Female	241	211	274	410	460	1,597
Urban Female	1	2	5	169	424	600
Rural Female	241	209	270	241	36	997
Male	128	151	149	295	315	1,038
Urban Male	0	4	4	151	293	452
Rural Male	128	147	146	144	22	587
Treatment of genital discharge, ulcer, sore						
Female	na	na	na	na	na	na
Urban Female	na	na	na	na	na	na
Rural Female	na	na	na	na	na	na
Male	na	na	na	na	na	na
Urban Male	na	na	na	na	na	na
Rural Male	na	na	na	na	na	na

Zimbabwe

1994 - SAMPLE SIZES

Part III: Intermediate Determinants of HNP Status - INDIVIDUAL AND HOUSEHOLD BEHAVIOR

Indicator	Wealth Quintiles					Pop. Total
	Low	2nd	3rd	4th	High	
Sanitary disposal of stools						
All	na	na	na	na	na	na
Urban	na	na	na	na	na	na
Rural	na	na	na	na	na	na
Wash hands prior to preparing food						
All	na	na	na	na	na	na
Urban	na	na	na	na	na	na
Rural	na	na	na	na	na	na
Handwashing facilities in household?						
All	na	na	na	na	na	na
Urban	na	na	na	na	na	na
Rural	na	na	na	na	na	na
Bednet ownership						
All	na	na	na	na	na	na
Urban	na	na	na	na	na	na
Rural	na	na	na	na	na	na
Bednet use by children						
All	na	na	na	na	na	na
Urban	na	na	na	na	na	na
Rural	na	na	na	na	na	na
Bednet use by pregnant women						
All	na	na	na	na	na	na
Urban	na	na	na	na	na	na
Rural	na	na	na	na	na	na
Exclusive breastfeeding						
All	64	55	42	63	35	259
Urban	0	1	1	21	34	57
Rural	64	54	41	42	1	202
Female	35	27	18	33	14	127
Male	28	28	24	30	21	131
Timely complementary breastfeeding						
All	74	56	54	44	45	273
Urban	0	0	0	16	44	60
Rural	74	56	54	28	1	213
Female	42	28	30	16	26	142
Male	33	28	24	28	19	132
Bottle-feeding						
All	210	156	141	154	129	790
Urban	0	3	1	49	125	178
Rural	210	153	140	106	4	613
Female	106	78	69	71	68	392
Male	104	78	72	83	62	399

Zimbabwe

1994 - SAMPLE SIZES

Part III: Intermediate Determinants of HNP Status - INDIVIDUAL AND HOUSEHOLD BEHAVIOR (Cont.)

Indicator	Wealth Quintiles					Pop. Total
	Low	2nd	3rd	4th	High	
Iodized salt in household						
All	na	na	na	na	na	na
Urban	na	na	na	na	na	na
Rural	na	na	na	na	na	na
Vitamin A supplementation						
All	na	na	na	na	na	na
Urban	na	na	na	na	na	na
Rural	na	na	na	na	na	na
Female	na	na	na	na	na	na
Male	na	na	na	na	na	na
Tobacco and alcohol use, casual sexual partners, condom use for casual sex						
Female	1,115	990	1,160	1,334	1,530	6,129
Urban Female	1	7	21	499	1,447	1,975
Rural Female	1,113	983	1,139	835	83	4,153
Male	263	364	367	553	595	2,142
Urban Male	0	6	4	225	563	798
Rural Male	263	358	363	328	32	1,344
Domestic violence						
All	na	na	na	na	na	na
Urban	na	na	na	na	na	na
Rural	na	na	na	na	na	na

Zimbabwe

1994 - SAMPLE SIZES

Part IV: UNDERLYING DETERMINANTS OF HNP STATUS

Indicator	Wealth Quintiles					Pop. Total
	Low	2nd	3rd	4th	High	
School completion (Grade 5)						
Female	1,160	1,068	1,229	1,312	1,531	6,300
Urban female	1	8	19	458	1,443	1,930
Rural female	1,158	1,060	1,210	854	88	4,370
Male	803	989	979	1,481	1,576	5,828
Urban male	0	16	25	602	1,507	2,149
Rural male	803	973	954	879	69	3,679
School participation						
Female	577	468	503	385	343	2,276
Urban female	0	0	3	116	323	442
Rural female	577	468	500	269	20	1,834
Male	582	449	466	376	363	2,236
Urban male	1	2	8	110	348	468
Rural male	582	448	458	266	15	1,768
Mass media exposure						
Female	1,115	990	1,160	1,334	1,530	6,128
Urban female	1	7	21	499	1,447	1,975
Rural female	1,113	983	1,139	835	83	4,153
Male	263	364	367	553	595	2,141
Urban male	0	6	4	225	563	797
Rural male	263	358	363	328	32	1,344
Knowledge of HIV/AIDS prevention						
Female	2,150	990	1,160	1,334	1,530	7,164
Urban female	1	7	21	499	1,447	1,975
Rural female	1,113	983	1,139	835	83	4,153
Male	263	364	367	553	595	2,141
Urban male	0	6	4	225	563	798
Rural male	263	358	363	328	32	1,344
Household decisionmaking and justification of violence						
All	1,115	990	1,160	1,334	1,530	6,128
Urban	1	7	21	499	1,447	1,975
Rural	1,113	983	1,139	835	83	4,153
Orphanhood						
All	3,139	2,604	2,712	2,326	2,094	12,875
Urban	3	10	32	745	1,990	2,780
Rural	3,136	2,594	2,680	1,581	104	10,095
Female	1,483	1,296	1,385	1,165	1,066	6,394
Male	1,657	1,304	1,327	1,161	1,028	6,478

Zimbabwe

1994 - STANDARD ERRORS OF QUINTILE ESTIMATES FOR TOTAL POPULATION

Part I: HNP STATUS

Indicator	Wealth Quintiles					Avg.
	Low	2nd	3rd	4th	High	
A. Childhood illness and mortality						
Infant mortality rate	5.29	6.30	6.87	6.90	6.99	3.08
Under-five mortality rate	7.72	8.18	7.95	7.43	7.76	3.74
Prevalence of fever	2.56	2.64	2.93	2.38	3.03	1.19
Prevalence of diarrhea	2.10	2.36	2.46	1.98	2.48	1.01
Prevalence of acute respiratory infection	2.26	2.27	2.39	2.26	1.92	1.14
B. Fertility						
Total fertility rate	0.19	0.22	0.19	0.18	0.16	0.11
Adolescent fertility rate	13.00	13.00	10.00	12.00	9.00	6.00
C. Nutritional status						
<i>Children:</i>						
Moderate stunting	1.58	1.89	1.87	2.15	1.49	0.88
Severe stunting	1.07	1.17	1.32	1.43	1.46	0.61
Moderate underweight	1.79	1.75	1.79	1.55	1.74	0.80
Severe underweight	0.65	0.84	1.06	1.05	0.71	0.40
Mild anemia	na	na	na	na	na	na
Moderate anemia	na	na	na	na	na	na
Severe anemia	na	na	na	na	na	na
<i>Women:</i>						
Malnutrition	1.16	1.29	1.37	1.16	0.51	0.50
Mild anemia	na	na	na	na	na	na
Moderate anemia	na	na	na	na	na	na
Severe anemia	na	na	na	na	na	na
D. Female circumcision						
<i>Prevalence of circumcision:</i>						
Girls	na	na	na	na	na	na
Women	na	na	na	na	na	na
<i>Prevalence of occlusion:</i>						
Girls	na	na	na	na	na	na
Women	na	na	na	na	na	na
E. Sexually transmitted disease						
<i>Prevalence of genital discharge:</i>						
Women	0.36	0.43	0.47	0.42	0.30	0.18
Men	0.97	1.53	1.65	1.15	1.25	0.57
<i>Prevalence of genital ulcer:</i>						
Women	0.18	0.37	0.34	0.33	0.28	0.13
Men	0.97	1.02	0.91	0.82	1.03	0.44

Zimbabwe

1994 - STANDARD ERRORS OF QUINTILE ESTIMATES FOR TOTAL POPULATION

Part II: Intermediate Determinants of HNP Status - HNP SERVICE USE

Indicator	Wealth Quintiles					
	Low	2nd	3rd	4th	High	Avg.
A. Childhood immunization						
BCG coverage	2.36	2.42	1.47	1.01	2.13	0.90
Measles coverage	3.04	4.00	2.65	3.05	3.05	1.43
DPT coverage	3.76	3.80	3.00	3.03	3.39	1.54
Full basic coverage	3.98	4.02	3.25	3.17	3.63	1.61
No basic coverage	1.80	2.42	1.47	1.01	2.13	0.82
Hepatitis B coverage	na	na	na	na	na	na
Yellow fever coverage	na	na	na	na	na	na
B. Treatment of childhood illnesses						
<i>Treatment of fever:</i>						
Medical treatment of fever	3.15	3.94	3.87	4.12	4.80	1.98
Treatment in a public facility	3.37	3.84	3.63	3.88	5.17	2.05
Treatment in a private facility	1.61	2.32	2.58	2.52	3.87	1.27
<i>Treatment of acute respiratory infection (ARI):</i>						
Medical treatment of ARI	3.95	4.52	5.61	5.62	6.92	2.39
Treatment in a public facility	4.20	4.58	5.63	6.42	6.26	2.73
Treatment in a private facility	2.29	2.94	3.13	4.16	6.21	1.67
<i>Treatment of diarrhea:</i>						
Use of oral rehydration therapy	3.20	3.81	4.06	2.80	2.46	1.59
Medical treatment of diarrhea	3.99	4.50	5.17	5.17	7.19	2.34
Treatment in a public facility	4.04	4.35	4.16	4.76	6.09	2.23
Treatment in a private facility	0.77	2.58	2.29	1.99	5.12	1.09
C. Antenatal and delivery care						
<i>Antenatal care (ANC) visits:</i>						
To a medically trained person	1.72	1.75	2.04	1.18	1.25	0.89
To a doctor	1.65	1.43	1.69	2.15	2.88	0.96
To a nurse or trained midwife	2.40	2.22	2.50	2.48	3.07	1.25
Multiple visits to a medically trained person	1.85	1.92	1.87	1.57	1.53	0.89
<i>Antenatal care content:</i>						
Tetanus toxoid	1.86	2.14	2.53	1.47	2.25	1.06
Prophylactic antimalarial treatment	na	na	na	na	na	na
Iron supplementation	na	na	na	na	na	na
<i>Delivery attendance:</i>						
By a medically trained person	3.01	3.07	3.13	2.39	1.72	1.50
By a doctor	1.33	1.38	1.29	2.16	2.90	0.85
By a nurse or trained midwife	2.79	2.78	3.19	2.73	3.20	1.55
In a public facility	2.90	3.13	3.12	2.31	2.35	1.49
In a private facility	0.50	0.58	0.44	0.69	1.79	0.43
At home	3.01	3.05	3.11	2.36	1.75	1.49
D. Contraceptive services						
<i>Contraceptive prevalence:</i>						
Women	2.06	2.32	1.79	1.80	2.07	1.26
Men	4.78	4.84	4.77	2.69	2.92	1.75
<i>Source of contraception - public sector:</i>						
Women	2.19	2.59	2.38	2.58	3.34	1.53
Men	na	na	na	na	na	na

Zimbabwe

1994 - STANDARD ERRORS OF QUINTILE ESTIMATES FOR TOTAL POPULATION

Part II: Intermediate Determinants of HNP Status - HNP SERVICE USE (Cont.)

Indicator	Wealth Quintiles					
	Low	2nd	3rd	4th	High	Avg.
D. Contraceptive services (cont.)						
<i>Source of contraception - private sector:</i>						
Women	1.99	2.45	2.22	2.62	3.23	1.49
Men	na	na	na	na	na	na
E. Treatment of adult illnesses						
<i>Treatment of genital discharge, ulcer, sore:</i>						
Women	8.29	9.27	10.19	7.43	*	4.04
Men	*	*	*	*	9.17	5.05
<i>Treatment of genital discharge, ulcer, sore in public facilities:</i>						
Women	0.36	0.43	0.47	0.42	0.30	0.18
Men	*	*	*	*	1.31	0.59
<i>Voluntary counseling and testing for HIV/AIDS:</i>						
Women	na	na	na	na	na	na
Men	na	na	na	na	na	na

Zimbabwe

1994 - STANDARD ERRORS OF QUINTILE ESTIMATES FOR TOTAL POPULATION

Part III: Intermediate Determinants of HNP Status - INDIVIDUAL AND HOUSEHOLD BEHAVIOR

Indicator	Wealth Quintiles					
	Low	2nd	3rd	4th	High	Avg.
A. Hygienic practices						
<i>Disposal of children's stools:</i>						
Sanitary disposal	na	na	na	na	na	na
<i>Handwashing:</i>						
Wash hands prior to preparing food	na	na	na	na	na	na
Handwashing facilities in household	na	na	na	na	na	na
B. Bednet ownership and use						
<i>Bednet ownership:</i>						
Bednet ownership	na	na	na	na	na	na
Treated bednet ownership	na	na	na	na	na	na
<i>Bednet use:</i>						
By children	na	na	na	na	na	na
By pregnant women	na	na	na	na	na	na
C. Breastfeeding						
Exclusive breastfeeding	4.04	8.35	5.21	4.57	7.73	2.73
Timely complementary feeding	2.66	2.96	3.61	5.33	2.09	1.46
Bottle-feeding	1.11	1.68	2.07	1.96	3.49	0.87
D. Micronutrient consumption						
<i>Iodized salt:</i>						
Availability of iodized salt in household	na	na	na	na	na	na
<i>Vitamin A:</i>						
Children	na	na	na	na	na	na
Women	na	na	na	na	na	na
E. Tobacco and alcohol use						
<i>Tobacco:</i>						
Women	na	na	na	na	na	na
Men	na	na	na	na	na	na
<i>Alcohol:</i>						
Women	na	na	na	na	na	na
Men	na	na	na	na	na	na
F. Sexual practices						
<i>Non-regular sexual partnerships:</i>						
Women	0.66	0.80	0.70	0.99	0.84	0.39
Men	0.72	1.53	1.09	1.18	0.85	0.51
<i>Condom usage with non-regular partner:</i>						
Women	5.18	3.68	7.05	5.15	4.24	2.38
Men	17.78	11.22	14.48	10.97	7.79	5.44
G. Domestic violence						
Ever experienced violence	na	na	na	na	na	na
Experienced violence in past year	na	na	na	na	na	na

Zimbabwe

1994 - STANDARD ERRORS OF QUINTILE ESTIMATES FOR TOTAL POPULATION

Part IV: UNDERLYING DETERMINANTS OF HNP STATUS

Indicator	Wealth Quintiles					
	Low	2nd	3rd	4th	High	Avg.
A. Education						
<i>School completion:</i>						
Women	2.33	1.88	1.74	1.42	0.83	1.05
Men	1.95	1.59	1.52	1.30	0.69	0.67
<i>School participation:</i>						
Girls	2.65	2.61	2.02	2.02	1.48	1.34
Boys	2.46	2.48	2.22	1.60	1.71	1.07
B. Exposure to mass media						
<i>Newspaper readership:</i>						
Women	1.83	1.29	2.05	1.77	1.30	1.04
Men	3.58	2.82	3.36	3.10	1.81	1.55
<i>Radio listenership:</i>						
Women	0.97	1.61	1.69	2.08	1.48	1.11
Men	2.75	2.87	3.25	2.88	2.21	1.43
<i>Television viewership:</i>						
Women	0.46	1.01	0.85	1.76	1.69	1.16
Men	2.90	2.61	2.79	2.72	2.79	1.73
C. Knowledge and attitudes about HIV/AIDS						
<i>Knowledge about sexual transmission of HIV/AIDS:</i>						
Women	0.65	0.69	0.63	0.37	0.38	0.25
Men	1.19	0.68	0.46	0.22	0.00	0.22
<i>Knowledge about mother-to-child transmission of HIV/AIDS:</i>						
Women	1.59	1.29	0.78	0.64	0.42	0.52
Men	2.27	1.73	1.57	0.94	0.73	0.63
<i>Attitudes toward HIV/AIDS:</i>						
Women	na	na	na	na	na	na
Men	na	na	na	na	na	na
D. Status of women						
<i>Household decisionmaking:</i>						
Can seek own health care	na	na	na	na	na	na
Can seek children's health care	na	na	na	na	na	na
Can make daily household purchases	na	na	na	na	na	na
Can make large household purchases	1.46	1.61	1.44	1.56	1.18	0.73
Can make meal-related decisions	na	na	na	na	na	na
<i>Freedom of movement:</i>						
Can travel to visit family/relatives	na	na	na	na	na	na
<i>Other decisionmaking, attitudes:</i>						
Can decide how to spend own money	2.89	2.78	2.40	2.68	2.37	1.30
Can decide whether to have sex	na	na	na	na	na	na
Justifies domestic violence	na	na	na	na	na	na
E. Orphanhood						
Paternal orphan prevalence	0.90	0.86	0.82	0.87	0.96	0.42
Maternal orphan prevalence	0.46	0.50	0.44	0.38	0.59	0.21
Double orphan prevalence	0.17	0.32	0.34	0.19	0.20	0.12

Zimbabwe

1994 - ASSET DISTRIBUTION AND WEIGHTS

(FACTOR SCORE)

Indicators	Unweighted		Wealth Quintiles						Factor Score
	Mean	Std. Deviation	Low	2nd	3rd	4th	High	Avg.	
			Percentage of Population						
Has electricity	0.265	0.441	0.0%	0.2%	0.4%	19.3%	96.6%	23.2%	0.15738
Has radio	0.419	0.493	3.3%	30.6%	35.1%	60.8%	90.0%	43.8%	0.09640
Has television	0.136	0.343	0.0%	0.1%	0.3%	9.5%	68.0%	15.5%	0.12659
Has refrigerator	0.081	0.273	0.0%	0.0%	0.1%	2.0%	42.3%	8.8%	0.11275
Has bicycle	0.186	0.389	5.0%	14.6%	18.8%	35.1%	26.9%	20.1%	0.03214
Has motorcycle	0.008	0.090	0.0%	0.0%	0.1%	1.0%	2.3%	0.7%	0.03212
Has car	0.052	0.222	0.0%	0.0%	0.6%	4.1%	24.2%	5.8%	0.08529
Works own or family's agricultural land	0.206	0.404	56.7%	26.5%	34.5%	14.5%	3.6%	27.3%	-0.06120
Uses piped drinking water in residence	0.296	0.457	0.0%	0.0%	1.6%	34.7%	97.3%	26.7%	0.15773
Uses piped drinking water in public tap	0.110	0.312	1.4%	12.1%	10.7%	14.9%	1.1%	8.0%	-0.01986
Uses protected well for water	0.073	0.260	5.4%	11.5%	10.6%	10.9%	0.8%	7.8%	-0.04664
Uses unprotected well water	0.108	0.310	18.9%	21.3%	19.4%	8.6%	0.0%	13.6%	-0.00270
Uses bore hole for water	0.304	0.460	50.7%	39.3%	47.6%	26.6%	0.7%	33.0%	0.14273
Uses river, canal or surface water for drinking	0.107	0.309	23.6%	15.6%	9.3%	4.2%	0.1%	10.6%	0.05422
Uses other source of drinking water	0.001	0.032	0.0%	0.1%	0.0%	0.1%	0.0%	0.0%	-0.02393
Uses own flush toilet	0.204	0.403	0.0%	0.0%	0.2%	15.9%	81.2%	19.4%	-0.02810
Uses shared flush toilet	0.087	0.281	0.0%	0.0%	0.1%	17.1%	17.0%	6.8%	-0.11052
Uses traditional pit latrine	0.107	0.310	5.3%	22.1%	23.0%	16.8%	0.4%	13.5%	-0.00230
Uses Blair latrine	0.223	0.416	3.7%	26.9%	33.2%	41.4%	1.1%	21.2%	-0.13193
Uses bush,field as latrine	0.375	0.484	91.1%	50.7%	42.5%	8.3%	0.2%	38.7%	0.02774
Uses other type of latrine	0.001	0.022	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.03763
Has dirt, earth or dung principal floor in dwelling	0.438	0.496	100.0%	99.3%	27.9%	4.5%	0.0%	46.3%	0.10561
Has wood, plank principal floor in dwelling	0.004	0.063	0.0%	0.0%	0.0%	0.1%	1.3%	0.3%	0.02540
Has cement principal floor	0.528	0.499	0.0%	0.7%	71.2%	94.2%	84.2%	50.1%	-0.02517
Has parquet flooring	0.007	0.082	0.0%	0.0%	0.0%	0.0%	4.2%	0.8%	-0.06944
Has tile flooring	0.005	0.067	0.0%	0.0%	0.0%	0.2%	2.2%	0.5%	0.01938
Has vinyl/asphalt flooring	0.002	0.043	0.0%	0.0%	0.0%	0.0%	1.4%	0.3%	0.04599
Has carpeted flooring	0.014	0.118	0.0%	0.0%	0.0%	0.6%	6.7%	1.5%	-0.04105
Number of members per sleeping room	2.296	1.415	3.5	2.6	2.6	2.5	2.3	2.7	-0.04286

PART VI. ANNEXES

- A. SOURCES OF ADDITIONAL INFORMATION**
- B. USE OF INFORMATION FROM THIS REPORT TO MONITOR THE ECONOMIC STATUS OF PEOPLE SERVED BY HNP PROGRAMS**
- C. COUNTRIES COVERED BY THE HNP-POVERTY REPORT PROJECT**

ANNEX A. SOURCES OF ADDITIONAL INFORMATION

ADDITIONAL INEQUALITY DATA

World Bank HNP/Poverty Country Report Website:

<http://www.worldbank.org/hnp/povertyandhealth/countrydata>.

This World Bank website provides the full texts and tables for all fifty-six countries covered by the HNP/Poverty Country Report Project. (A list of the countries covered appears in annex C, at the end of this report.) Also available at the site are summary tables, organized by indicator, designed to facilitate cross-country comparisons in inequality with respect to particular indicators.

DHS Country Reports: <http://www.measuredhs.com/countries>.

All DHS final country reports produced since 2003 include quintile-specific tabulations in approximately 50-100 of the reports' HNP indicator tables. The tables deal with some of the indicators covered in this volume, and with many that are not.

UNICEF Multi-Indicator Cluster Survey Website:

<http://www.childinfo.org/MICS2/natlMICSrepz/MICSnatrep.htm>.

The UNICEF Multi-Indicator Cluster Survey (MICS) project is generally similar to the DHS program, but covers a somewhat different set of countries and indicators. The "standard tables" section for each country listed at the MICS website provides wealth-based, quintile-specific information in around 40-45 of the tables related to hnp, education, and child labor. In deriving these quintile-specific estimates, the MICS investigators have employed a wealth index similar to the one used here.

World Health Organization World Health Survey Website:

<http://www.who.int/healthinfo/survey/en/index.html>.

The World Health Organization's World Health Survey (WHS) includes such issues as self-assessed adult health status; coverage of interventions against adult chronic diseases and against maternal and child health problems; household health expenditures; insurance coverage; and health system responsiveness. Approximately seventy countries – developed as well as developing – have been covered thus far. Household wealth information has been collected and used to prepare quintile-specific estimates for many of the indicators appearing in the reports on these countries.

METHODS AND RESOURCES FOR FURTHER INEQUALITY ANALYSIS

Shea Oscar Rutstein and Kiersten Johnson, *The DHS Wealth Index*, DHS Comparative Reports No. 6 (Calverton, Maryland, USA: ORC Macro, August 2004) (Available at: http://www.measuredhs.com/pubs/pub_details.cfm?ID=470&srchTp=type).

This DHS publication, by two of the co-authors of the current report, describes in detail the construction of the wealth index that underlies the data presented in the basic tables.

Deon Filmer and Lant H. Pritchett, "Estimating Wealth Effects without Expenditure Data – or Tears: An Application to Education Enrollments in States in India," *Demography* 38, no.1 (February 2001): 115-132.

This seminal piece gave birth to the wealth index procedure used in the current volume. It also includes three of the previously-cited country case studies demonstrating the close relationship between results produced using wealth and those based on consumption as an indicator of household economic status.

Owen O'Donnell, Eddy van Doorslaer, Adam Wagstaff, and Magnus Lindelow. *Quantitative Techniques for Health Equity Analysis*. Washington D.C.: The World Bank, forthcoming.

Among the topics covered in this comprehensive overview of available quantitative techniques are the measurement of living standards using a wealth index and other approaches (chapter 6) and the concentration index as a measure of inequality (chapter 8).

DHS Country Data Sets: <http://www.measuredhs.com/accesssurveys/search>.

The data sets for all DHS surveys undertaken since 2003 include two pieces of information for each household that are designed to help investigators prepare quintile-specific tabulations for any indicator. These are: 1) the household wealth score; and 2) the economic quintile to which individuals in the household belong. Any tabulation using these pieces of information will be comparable to the figures appearing here.

ANNEX B. USE OF INFORMATION FROM THIS REPORT TO MONITOR THE ECONOMIC STATUS OF PEOPLE SERVED BY HNP PROGRAMS

The wealth or asset approach employed in this report can be used to monitor the economic status of people served by health, nutrition, and population (hnp) programs in two ways. The first, simpler way is suitable for monitoring nationwide, facility-based programs. A second, fuller version can also be employed for other types of programs, such as initiatives undertaken only in some parts of a country, or activities like mass education or outreach programs that do not operate through facilities.

BASIC MONITORING OF NATIONWIDE FACILITY-BASED PROGRAMS

The economic distribution of patients in a nationwide, facility-based program (say, a network of rural health posts, antenatal care clinics, emergency obstetrical facilities, or hospitals) can be determined through an exit survey of facility patients, using the wealth questionnaire and the set of quintile cut-off points that immediately follow this text, and which have been created using the information presented in part III.C. The questionnaire can be employed to measure the economic status of any individual responding to the questions on it. The set of cut-off points can serve to compare the distribution of the respondents' economic status with that of the nationally-representative sample of people interviewed by the DHS survey on which the present report is based.

The first step is to use the questionnaire in interviewing an adequately-large sample of patients attending the facility-based services of interest. The wealth score for each patient can then be calculated by multiplying the response to each question by the item scores also provided on the questionnaire, and summing the results. After this has been done, the quintile cut-off points can be used to place each individual in the economic quintile to which (s)he belongs. The number of patients and percentage of total patients in each quintile can then be calculated.

Since each quintile defined by the cut-off points contains 20 percent of the individuals in the nationally-representative DHS sample, the patients belonging to any such quintile containing significantly more (or less) than 20 percent of the total are over- (under-) represented relative to the national population. When the percentage of patients in each of the five quintiles is viewed as a whole, the result is a frequency distribution that indicates the spread of service beneficiaries across economic classes of individuals.²¹ For example:

- A service that favors the poorest people would have substantially more than 20 percent of its patients in each of the lowest one or two economic quintiles; considerably less than 20 percent of its patients in each of the highest quintiles.

²¹ That is, across economic classes of all individuals in the sample population. Estimates pertaining to quintiles of only those individuals needing services require adjusting the results of the procedure described here through application of the relevant quintile-specific, sample-size figures presented in part III.A.

- A service that reaches all economic classes equally would draw roughly the same proportion of total patients from the lower and upper quintiles.
- A service that favors the least poor population groups would have well over 20 percent of its patients in each of the highest one or two quintiles, considerably less than 20 percent of its patients in each of the lowest quintiles.

FULLER MONITORING OF FACILITY-BASED AND OF OTHER PROGRAMS

While capable of providing far more information than currently exists about the distribution of a program's beneficiaries, the approach just described has important limitations. For example, it cannot deal with the many important types of health programs that do not deliver services primarily through facilities – mass media health education, household visits by health workers, and many social marketing initiatives, for example. It is also limited in its ability to assess programs working only with certain areas within a country: it can compare the economic status of the programs' beneficiaries with that of the national population, but not with that of the specific sub-national areas where the programs are active. Further, it focuses primarily on only one of the two important dimensions of monitoring the distribution of program beneficiaries: that is, incidence or focus – the percentage of program benefits that flow to the poor. It cannot deal nearly so well with the second dimension, which concerns coverage, or the percentage of the poor that the program reaches.

These limitations can be overcome by a modified version of the approach described above that relies on a household- rather than facility-based survey. A household survey can generate a set of data containing the full range of information needed to produce an equity assessment by collecting two types of information: first, about the household's wealth or assets, using the questions in the left-hand column of the attached questionnaire;²² and second, about the household members' use of or exposure to the services provided by the program(s) of interest. The collected data can be analyzed in either (or both) of two ways, depending on the type of information desired:

- One way would be to use only data from the household survey. The procedure would be analogous to that for a DHS survey employed in this report:
 - Asset information from the survey-generated data set would be used as the basis for the construction of a wealth index, weighting the individual items using some method like principal components analysis.
 - The individuals in the sample would be ranked in order of the index values for their households, then divided into groups like quintiles.
 - The coverage rates in each quintile for the service of interest would be calculated.
- A second approach would be to use the weights for each item appearing on the attached questionnaire in determining the wealth of each individual, instead of calculating the weights from the new household data set. Once the individuals' wealth is determined, the individuals would be ranked, divided into quintiles, and the coverage rate in each quintile would be calculated. In the case of programs undertaken in only one region of the country, it would

²² Or, if one is willing to forego the benefits of the second analytical approach described below, using any of several other asset questionnaires that exist. Examples include the INDEPTH health equity survey tool (available at: www.indepth-network.org/core_documents/indepthtools.htm) or the model questionnaire developed by M. Mahood Khan and David Hotchkiss of the PHR Plus project (which can be found at: www.phrplus.org).

provide a comparison of the economic status of the people served with that of the entire country rather than of only the region where the programs are active;²³ in the case of nationwide as well as regional programs, it would permit a comparison with the other service programs covered in this report.

²³ This additional perspective could be particularly helpful in an assessment of a program seeking to reach the poor by focusing on especially backward districts. A report presenting only a finding that the program was reaching the better-off people in those districts could produce an impression that it had failed to reach its intended beneficiaries. But a comparison between the economic status of the program's beneficiaries with that of the national population might well reveal that most of the beneficiaries were poor by national standards and that the program was thus considerably more successful than otherwise thought.

Zimbabwe
1999 - ASSET QUESTIONNAIRE

Question	Score if "Yes"	Score if "No"	Item Score
<i>1. In your household, is/are there?</i>			
Electricity	0.16216	-0.07830	_____
One or more radios	0.06162	-0.05962	_____
One or more televisions	0.16781	-0.04391	_____
One or more refrigerators	0.20328	-0.02837	_____
One or more bicycles	0.00367	-0.00099	_____
One or more motorcycles, scooters	0.15341	-0.00107	_____
One or more cars, trucks	0.19428	-0.01281	_____
One or more telephones	0.21877	-0.01288	_____
One or more modern oxcarts	-0.07722	0.01551	_____
<i>2. Do the members of your household work their own or family's agricultural land?</i>			
	-0.09379	0.01220	_____
<i>3. What is the principal source of drinking water for your household?</i>			
Piped water in residence	0.17650	-0.04165	_____
Piped water into the building	0.13669	-0.02171	_____
Piped water in public faucet	0.00215	-0.00022	_____
Unprotected well	-0.10467	0.01384	_____
Covered well	-0.06436	0.00528	_____
Traditional public well	-0.08457	0.03693	_____
River, canal, surface water	-0.12031	0.01029	_____
Rainwater	-0.11428	0.00005	_____
Tanker truck	-0.11510	0.00031	_____
Other	-0.10773	0.00025	_____
<i>4. What is the principal source of fuel for cooking in your household?</i>			
Electricity	0.18905	-0.05921	_____
Gas	0.16635	-0.00042	_____
Biogas	-0.00521	0.00000	_____
Kerosene	0.10522	-0.01076	_____
Charcoal	0.04668	-0.00004	_____
Wood	-0.08354	0.16255	_____
Dung, manure	-0.03529	0.00013	_____
Other	0.08428	-0.00003	_____
<i>5. What is the principal type of toilet facility used by your household?</i>			
Private flush toilet	-0.00513	0.02192	_____
Shared flush toilet	0.11543	-0.11217	_____
VIP latrine	-0.04711	0.13266	_____
Shared VIP latrine	0.05489	-0.05683	_____
Pit latrine	-0.05137	0.12501	_____
Shared pit latrine	0.07373	-0.05788	_____
Bush, field as latrine	-0.14106	0.05988	_____
Other	0.11212	-0.00016	_____
<i>6. What is the principal material used for the floors in your household?</i>			
Dirt, sand, dung	-0.12154	0.06211	_____
Wood plank	0.22158	-0.00077	_____
Parquet, polished wood	0.22614	-0.00075	_____
Vinyl, asphalt strips	0.20827	-0.00039	_____

Zimbabwe

1999 - ASSET QUESTIONNAIRE (Cont.)

Question	Score if "Yes"	Score if "No"	Item Score
6. <i>What is the principal flooring material in your household?</i> (Cont.)			
Tile	0.21138	-0.00204	_____
Cement	0.04914	-0.07526	_____
Carpet	0.19537	-0.00758	_____
Other	0.10584	-0.00007	_____
7. <i>With how many other households do you share your toilet facility?</i>	$\left(\frac{\#households-3.30}{8.46}\right) \times -0.004$		_____
Total Household Asset Score (sum of individual item scores)			_____

1999 - QUINTILE CUT-OFF POINTS

Wealth Quintile	Asset Index Value	
	Bottom Cut-Off	Top Cut-Off
Low	Low	-0.95729
Second	-0.95729	-0.54319
Third	-0.54319	0.05309
Fourth	0.05309	1.21177
High	1.21177	High

ANNEX C. COUNTRIES COVERED BY THE HNP - POVERTY REPORT PROJECT*

East Asia and Pacific

Cambodia	2000
Indonesia	1997, 2002-03
Philippines	1998, 2003
Vietnam	1997, 2002

Europe and Central Asia

Armenia	2000
Kazakhstan	1995, 1999
Kyrgyz Rep.	1997
Turkey	1993, 1998
Turkmenistan	2000
Uzbekistan	1996

Latin America and the Caribbean

Bolivia	1998, 2003
Brazil	1996
Colombia	1995, 2000, 2005
Dominican Rep.	1996, 2002
Guatemala	1995, 1998-99
Haiti	1994-95, 2000
Nicaragua	1997- 98, 2001
Paraguay	1990
Peru	1996, 2000

Middle East and North Africa

Egypt	1995, 2000
Jordan	1997
Morocco	1992, 2003-04
Yemen	1997

South Asia

Bangladesh	1996-97, 1999-2000, 2004
India	1992-93, 1998-99
Nepal	1996, 2001
Pakistan	1990-91

Sub-Saharan Africa

Benin	1996, 2001
Burkina Faso	1992-3, 1998-9, 2003
Cameroon	1991, 1998, 2004
Central African Rep.	1994-95
Chad	1996-97, 2004
Comoros	1996
Cote d'Ivoire	1994
Eritrea	1995
Ethiopia	2000
Gabon	2000
Ghana	1993, 1998, 2003
Guinea	1999
Kenya	1993, 1998, 2003
Madagascar	1997
Malawi	1992, 2000
Mali	1995-96, 2001
Mauritania	2000-01
Mozambique	1997, 2003
Namibia	1992, 2000
Niger	1998
Nigeria	1990, 2003
Rwanda	2000
Senegal	1997
South Africa	1998
Tanzania	1996, 1999, 2004
Togo	1998
Uganda	1995, 2000-01
Zambia	1996, 2001-02
Zimbabwe	1994, 1999

* Note: electronic versions of reports for all countries are currently available at: www.worldbank.org/povertyandhealth/countrydata. While supplies last, paper copies may be obtained at no charge by sending a request to the World Bank's health advisory service: healthpop@worldbank.org.