

## Volume 9: Target Setting for Reduction in Prevalence of Poverty, Underweight and Stunting in Feed the Future Zones of Influence

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USAID's Bureau for Food Security (BFS) has developed a tool to inform target setting on the high-level indicators (poverty, underweight and stunting), as the population-based household baseline surveys in the Feed the Future zones of influence are near completion. This tool involves using a series of national data to run scenarios to set Feed the Future targets.

The data include historical trends in poverty reduction, GDP growth and nutritional status (underweight and stunting), and data analysis was conducted with guidance from poverty expert Don Sillers/EGAT ([dsillers@usaid.gov](mailto:dsillers@usaid.gov)) and nutrition expert Sally Abbott/GH/HIDN/NUT ([sabbott@usaid.gov](mailto:sabbott@usaid.gov)). More details on how the tool works and suggested target rates for high-level prevalence indicators of poverty, underweight and stunting for each country are included below.

### How did we arrive at suggested targets for prevalence of poverty?

We started with FTF/BFS choosing a baseline proportional poverty reduction target of 20 percent over 5 years. In this context, a "proportional" poverty reduction is calculated relative to the prevalence of poverty observed at the start of the 5-year period. To illustrate, a 20 percent proportional reduction in a 15 percent initial poverty rate cuts that rate to 12 percent [ $0.15 - (0.15 \times 0.2) = 0.15 - 0.03 = 0.12$ ], while a similar proportional reduction in a 60 percent initial poverty rate cuts that rate to 48 percent [ $0.60 - (0.60 \times 0.2) = 0.60 - 0.12 = 0.48$ ]. This baseline proportional poverty reduction was applied to all zones of influence. Twenty percent was selected as a starting point as it represents an aggressive yet reasonable goal for Feed the Future zones of influence given historical national poverty trends based on recent surveys in each country.

We then did some modeling against this global target to examine two factors with thresholds to inform our suggestions to you:

**Factor One:** We compared the actual annual percentage point reduction in the poverty rate between the last two national surveys available in each country (source: [PovcalNet: the online tool for poverty measurement developed by the Development Research Group of the World Bank](#)) with the targeted annual percentage point reduction in the poverty prevalence that would result by applying the 20 percent reduction target. The actual annual percentage point reduction value is formatted **green** in the table below if the country has been reducing poverty fast enough to meet our 20 percent target equivalent, white if not. Green gives us a greater level of confidence that there is national momentum in poverty reduction that should be a positive factor for reducing poverty in our zones of influence and that a 20 percent reduction or greater is possible to achieve.

**Factor Two:** We determined what the required per capita GDP growth rate would need to be to meet the targeted 20 percent proportional reduction at the national level, taking into consideration your country's Gini coefficient, using the [Martin Ravallion Pro-Poor Growth model](#) (pdf). Adding this economic growth rate to the recent population growth rate yields the required rate of overall per capita GDP growth needed to reach the poverty reduction target at the national level. We then compared the required growth rate with the actual rate achieved in recent years. If required growth was less than 1 percent over actual rates, we used the color **green** in the cell to signal that growth is at acceptable levels to reach or exceed the target 20 percent reduction.

Based on this information, we suggest the following range of poverty reduction targets per country:

| Prevalence of Poverty 5-Year Targets            |     |   |   |  |
|---|-----|---|---|--|
| Targeted Proportional Reduction in Poverty Rate | 20% | Factor 1  | Factor 2  | FTF/BFS Suggested Proportional Reduction in Poverty Rate (percent) |
| Country   |     | Average Annual Reduction in Poverty between two latest surveys*** (green if equal to or above 20% target) | <b>Additional</b> annual growth needed to achieve poverty reduction target over 5 years (green means less than 1% needed) |  |
| Rwanda  |     | 0.0%  | 1.3%  | 10-15%   |
| Bangladesh                                      |     | -0.1%   | -2.8%   | 20-25%   |
| Ghana   |     | 1.3%  | -0.8%   | 25-30%   |
| Tanzania  |     | 3.0%  | -1.2%   | 25-30%   |
| Uganda  |     | 2.1%  | 0.3%  | 25-30%   |
| Ethiopia  |     | 2.4%  | -3.0%   | 25-30%   |
| Kenya   |     | 0.8%  | 2.5%  | 15-20%   |
| Senegal   |     | 1.9%  | 0.0%  | 25-30%   |
| Mali  |     | 2.9%  | 0.5%  | 25-30%   |
| Honduras  |     | 0.4%  | 4.2%  | 10-15%   |
| Liberia   |     | N.A.  | -1.1%   | 15-20%   |
| Malawi  |     | 1.3%  | -0.2%   | 15-20%   |
| Mozambique                                      |     | 2.0%  | -2.6%   | 15-20%   |
| Zambia  |     | -0.3%   | 0.9%  | 10-15%   |
| Guatemala                                       |     | 0.6%  | 3.2%  | 15-20%   |
| Haiti   |     | N.A.  | 6.7%  | 15-20%   |
| Nepal   |     | 1.7%  | 1.5%  | 10-15%   |
| Cambodia  |     | 1.6%  | -1.7%   | 20-25%   |
| Tajikistan                                      |     | 4.5%  | -3.3%   | 20-25%   |
| Nicaragua                                       |     | 0.9%  | 1.6%  | 15-20%   |

The attached tool also presents associated annual and 5-year percentage point reduction in national poverty rates needed to reach the Feed the Future suggested target. This is mainly instructional to demonstrate the importance of looking at both percent versus percentage point values. Steve Radelet, USAID Chief Economist, advises not to set annual percentage point reduction targets that exceed 3 points. Historically, reduction of this magnitude is uncommon even under the best of circumstances and we need to be careful to set aspirational targets that are not overly aggressive. Once you have completed your household baseline surveys and have determined initial poverty rates and total population in your zones, please assess your percent reduction target and its implied percentage point reduction in light of this advice, and reduce the FTF/BFS suggested target, if required.

### How did we arrive at suggested targets for prevalence of underweight and stunting?

We started by examining the evidence in the literature and recent data trends in Feed the Future focus countries. In 2006, UNICEF released [Progress for Children a report card on Nutrition](#) (pdf), which presented trend analysis for underweight prevalence of children under 5 years of age based on the most recent data available for years between 1996 and 2005 in 110 countries, covering 98 percent of the developing world's under-5 population. There were great disparities in the annual rates of reduction (AARR) of underweight prevalence, however, the average AARR was 1.7 percent. At this rate, countries would not meet the Millennium Development Goal (MDG) target. In countries on track to reach the MDG target, the AARR was 2.6 percent or higher. [The 2008 Lancet Series on Maternal and Child Undernutrition](#) determines that with full coverage of a proven package of interventions, a 35 percent reduction in stunting would be possible by 36 months of age. In December 2011, the World Health Organization released a [Maternal, infant and young child nutrition draft comprehensive implementation plan](#) (pdf). This plan included a goal of a 40 percent reduction in childhood stunting by 2022, which translates into an AARR of 4 percent. This plan cites evidence

from Brazil (1974/75 to 2006) showing 30 percent absolute reduction, or an AARR of 2.7 percent and evidence from Bangladesh in certain areas showing a 13 percent absolute reduction, or an AARR of 4 percent. We conducted our own analysis of trends in reduction based on the Demographic and Health Surveys. In Feed the Future focus countries with two DHS data points for stunting, there has been an average 10.6 percent reduction in stunting over 5 years, or an AARR of 2.1 percent. For just the countries with a 2010 DHS compared to their last DHS, there was on average a 15 percent reduction in underweight (AARR of 3 percent) and 9.6 percent reduction in stunting over an average of five years (AARR of 1.9).

Based on this data and analysis, we suggest that countries target to reduce underweight and stunting by 20 to 30 percent (AARR of 4 to 6 percent) in targeted zones of influence. The table illustrates what a 20 and 30 percent reduction in both implies per country, using national DHS as a basis. Countries should apply these targets to the baseline prevalence of underweight and stunting in the zone of influence, once baseline data are available.

| Prevalence of Underweight and Stunting, 5 year Reduction Targets |   |         |  |       |         |       |
|--|---|---------|--|-------|---------|-------|
| Country  | Most recent DHS (including new data from 2010): Prevalence in children under 5 years of age |         | 5 year Targets: Prevalence of children under 5 years of age with Reduction |       |         |       |
|  |   |         | Underweight  |       | Stunted |       |
|  | Underweight   | Stunted | 20%  | 30%   | 20%     | 30%   |
| Rwanda   | 11.4%   | 44.2%   | 9.1%   | 8.0%  | 35.4%   | 30.9% |
| Bangladesh   | 41.0%   | 43.2%   | 32.8%  | 28.7% | 34.6%   | 30.2% |
| Ghana  | 13.9%   | 28.0%   | 11.1%  | 9.7%  | 22.4%   | 19.6% |
| Tanzania   | 15.8%   | 42.0%   | 12.6%  | 11.1% | 33.6%   | 29.4% |
| Uganda   | 15.9%   | 38.1%   | 12.7%  | 11.1% | 30.5%   | 26.7% |
| Ethiopia   | 28.7%   | 44.4%   | 23.0%  | 20.1% | 35.5%   | 31.1% |
| Kenya  | 16.1%   | 35.3%   | 12.9%  | 11.3% | 28.2%   | 24.7% |
| Senegal  | 17.7%   | 26.5%   | 14.2%  | 12.4% | 21.2%   | 18.6% |
| Mali   | 26.7%   | 37.7%   | 21.4%  | 18.7% | 30.2%   | 26.4% |
| Honduras   | 8.3%  | 30.0%   | 6.6%   | 5.8%  | 24.0%   | 21.0% |
| Liberia  | 19.2%   | 39.4%   | 15.4%  | 13.4% | 31.5%   | 27.6% |
| Malawi   | 12.8%   | 47.1%   | 10.2%  | 9.0%  | 37.7%   | 33.0% |
| Mozambique   | 19.7%   | 47.0%   | 15.8%  | 13.8% | 37.6%   | 32.9% |
| Zambia   | 14.6%   | 45.4%   | 11.7%  | 10.2% | 36.3%   | 31.8% |
| Guatemala  | 13.1%   | 49.8%   | 10.5%  | 9.2%  | 39.8%   | 34.9% |
| Haiti  | 18.1%   | 29.4%   | 14.5%  | 12.7% | 23.5%   | 20.6% |
| Nepal  | 28.8%   | 40.5%   | 23.0%  | 20.2% | 32.4%   | 28.4% |
| Cambodia   | 28.3%   | 39.9%   | 22.6%  | 19.8% | 31.9%   | 27.9% |
| Tajikistan   | 8.4%  | 28.9%   | 6.7%   | 5.9%  | 23.1%   | 20.2% |
| Nicaragua  | 6.0%  | 22.0%   | 4.8%   | 4.2%  | 17.6%   | 15.4% |

It is important to differentiate these targets for high-level, population-based prevalence indicators from the projected number of direct beneficiaries reached with change in income and a change in nutritional status. Once you've completed cost-benefit and cost-effectiveness analysis (CBA/CEA) of your portfolio, we can support you with a crosscheck between current unit cost projections and the new CBA/CEA-generated projections for direct beneficiaries reached and adjust if necessary. The CBA results will also be used, in combination with guidance being developed based on evidence from the literature on multiplier effects of rural income growth, to assist you with setting targets for growth in per capita expenditure in Feed the Future zones of influence. To monitor and report performance against these "reach" projections, mid-term and final CBA/CEA updates should be conducted.

We will continue to work with EGAT, CBA in-house experts and other mechanisms to support you.

If Missions express sufficient interest, USAID/BFS will organize a video conference session to walk through the data, analysis and suggested targets. Otherwise, individual Missions can contact their CSI representative with questions and requests for consultation by the contributors to these data sets and analysis.

In the next pages you'll find Target Setting summary charts in the following categories:

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## Overview of FTF Strategy and Development Hypothesis

### FTF Strategy

The over-arching goal of Feed the Future is to reduce poverty and malnutrition. To achieve this goal, the FTF strategy calls for the USG to strive for excellence in the delivery of Global Food Security foreign assistance. Therefore, the FTF strategy proposes to significantly reform the way Food Security assistance is delivered:

- 1 Rather than spreading thin our food security dollars across countries, FTF has identified 20 focus countries for which to focus our assistance;
- 2 Within each focus country, FTF will define specific geographic zones and populations to concentrate to the extent possible all of USG food security programming and services;
- 3 Within these zones, FTF will spotlight our programming on a limited number of agriculture value chains that present greatest growth prospects especially for the extreme poor and women to benefit economically and nutritionally;
- 4 FTF will amplify collaboration among USG agencies to align all food security programming to the FTF goal and FTF country-level strategies;
- 5 Following the Rome Principles, FTF will build on host-country government investments and services, coordinate investments with other donors and development partners, and exhaust opportunities to leverage private sector and civil society investments.

### FTF Development Hypothesis

The FTF development hypothesis therefore states that **IF** we do this - focus, concentrate, and coordinate our foreign assistance dollars - **THEN** we will have broad, deep and sustainable economic and nutritional impact within FTF geographic zones. We also will create lasting momentum and local capacity within FTF geographic zones and the focus country to continue improving food security well beyond FTF assistance. FTF will measure the effectiveness of our development strategy and test its hypothesis by tracking change in (prevalence rates of) poverty and (prevalence rates of) malnutrition among the population in our geographic zones.

### FTF Potential Beneficiaries

From data received from the field and other sources, we calculate globally that there are currently some 151 million people living in FTF geographic zones. On average, from this data we calculate that 45% of those people or 66 million individuals live below the international poverty line. Within the FTF zones, there are some 23 million children under 5 in the FTF target zones of which approximately 5 million children are underweight and 9 million children stunted. Our strategy and development hypothesis aims to improve the livelihoods of as many of these people -- economically and nutritionally -- in the FTF geographic zones as is possible.

| Target Setting for FTF Contributions to Prevalence of Poverty and Undernutrition Reduction |   |  |   |   |  |   |   |  |   |  |  |  |
|--|---|--|---|---|--|---|---|--|---|--|--|--|
| Country  | Current Poverty Rate In FTF Target Zone | Projected Poverty Rate in FTF Taregt Zone after 5 years based on FTF/BFS Suggested Rates | Total number of people no longer poor after 5 years | Country   | Current Underweight Rate In FTF Target Zone  | Projected Underweight Rate in FTF Taregt Zone after 5 years 30% reduction | Projected number of less children underweight 30% reduction compared to no reduction from 2010 levels | Projected number of less children underweight 30% reduction compared to 15% reduction (business as usual) from 2010 levels | Current StuntingRate In FTF Target Zone   | Projected % Stunted (20% reduction from 2010 levels) | Projected number of less children stunted 20% reduction, compared to no reduction from 2010 levels | Projected number of less children stunted 20% reduction compared to 9.6% reduction |
| Rwanda   | 76.8%                                   | 65.3%  | 322,336   | Rwanda  | 11.4%  | 8.0%  | 57,267  | 28,633   | 44.2%   | 35.4%  | 148,022  | 76,972   |
| Bangladesh   | 50.5%                                   | 37.9%  | 3,094,734   | Bangladesh  | 41.0%  | 28.7%   | 388,587   | 194,294  | 43.2%   | 34.6%  | 272,959  | 141,939  |
| Ghana  | 30.0%                                   | 21.0%  | 620,524   | Ghana   | 13.9%  | 9.7%  | 57,616  | 28,808   | 28.0%   | 22.4%  | 77,374   | 40,234   |
| Tanzania   | 67.8%                                   | 47.5%  | 1,003,691   | Tanzania  | 15.8%  | 11.1%   | 67,840  | 33,920   | 42.0%   | 33.6%  | 120,223  | 62,516   |
| Uganda   | 37.7%                                   | 26.4%  | 1,717,555   | Uganda  | 15.9%  | 11.1%   | 244,161   | 122,080  | 38.1%   | 30.5%  | 390,043  | 202,822  |
| Ethiopia   | 39.0%                                   | 27.3%  | 1,008,748   | Ethiopia  | 28.7%  | 20.1%   | 163,047   | 81,523   | 44.4%   | 35.5%  | 168,160  | 87,443   |
| Kenya  | 19.7%                                   | 15.8%  | 501,369   | Kenya   | 16.1%  | 11.3%   | 206,075   | 103,038  | 35.3%   | 28.2%  | 301,219  | 156,634  |
| Senegal  | 33.5%                                   | 23.5%  | 400,025   | Senegal   | 17.7%  | 12.4%   | 53,113  | 26,556   | 26.5%   | 21.2%  | 53,013   | 27,567   |
| Mali   | 51.4%                                   | 38.6%  | 301,664   | Mali  | 26.7%  | 18.7%   | 56,948  | 28,474   | 37.7%   | 30.2%  | 53,606   | 27,875   |
| Honduras   | 23.2%                                   | 19.7%  | 30,577  | Honduras  | 8.3%   | 5.8%  | 5,638   | 2,819  | 30.0%   | 24.0%  | 13,585   | 7,064  |
| Liberia  | 83.6%                                   | 71.1%  | (2,160)   | Liberia   | 19.2%  | 13.4%   | 34,584  | 17,292   | 39.4%   | 31.5%  | 47,312   | 24,602   |
| Malawi   | 73.8%                                   | 59.0%  | 365,309   | Malawi  | 12.8%  | 9.0%  | 36,450  | 18,225   | 47.1%   | 37.7%  | 89,416   | 46,496   |
| Mozambique   | 59.5%                                   | 47.6%  | 424,008   | Mozambique  | 19.7%  | 13.8%   | 62,020  | 31,010   | 47.0%   | 37.6%  | 98,644   | 51,295   |
| Zambia   | 64.3%                                   | 54.7%  | 69,004  | Zambia  | 14.6%  | 10.2%   | 15,630  | 7,815  | 45.4%   | 36.3%  | 32,403   | 16,849   |
| Guatemala  | 11.7%                                   | 9.4%   | 41,556  | Guatemala   | 13.1%  | 9.2%  | 21,238  | 10,619   | 49.8%   | 39.8%  | 53,825   | 27,989   |
| Haiti  | 54.9%                                   | 43.9%  | 244,686   | Haiti   | 18.1%  | 12.7%   | 22,005  | 11,002   | 29.4%   | 23.5%  | 23,829   | 12,391   |
| Nepal  | 55.1%                                   | 46.8%  | 259,343   | Nepal   | 28.8%  | 20.2%   | 58,394  | 29,197   | 40.5%   | 32.4%  | 54,745   | 28,467   |
| Cambodia   | 28.3%                                   | 21.2%  | 170,998   | Cambodia  | 28.3%  | 19.8%   | 29,399  | 14,699   | 39.9%   | 31.9%  | 27,633   | 14,369   |
| Tajikistan   | 21.5%                                   | 16.1%  | 51,457  | Tajikistan  | 8.4%   | 5.9%  | 4,129   | 2,065  | 28.9%   | 23.1%  | 9,471  | 4,925  |
| Nicaragua  | 15.8%                                   | 12.6%  | 19,068  | Nicaragua   | 6.0%   | 4.2%  | 1,699   | 850  | 22.0%   | 17.6%  | 4,153  | 2,160  |
| Average Rates  | 44.9%                                   | 35.3%  |   | Average Rates   | 20.5%  | 14.2%   | 1,585,839   | 792,920  | 39.2%   | 31.3%  | 2,039,635  | 1,060,610  |
| Total number of people no longer extreme poor after 5 years                                |   |  | 10,644,493  | After 5 yrs total number of less children in zone of influence with | 30% reduction in underweight compared to both no reduction from 2010 levels and continued trends of reduction. |   | 1,585,839   | 792,920  | 20% reduction in stunting compared to both no reduction from 2010 levels and continued trends of reduction. |  | 2,039,635  | 1,060,610  |

| Country    | Poverty                         |                                      |                    |   |  |                              |                                 |
|------------|---------------------------------|--------------------------------------|--------------------|---|--|------------------------------|---------------------------------|
|            | 2010                            |                                      |                    | 2015                                      |  |                              |                                 |
|            | Total population in target zone | Population in poverty in target zone | Percent in poverty | Projected total population in target zone | Projected population in poverty in target zone | Projected percent in poverty | Projected people no longer poor |
| Rwanda     | 8,334,647                       | 6,401,009                            | 76.8%              | 9,311,693                                 | 6,078,673                                      | 65.3%                        | 322,336                         |
| Bangladesh | 29,500,000                      | 14,897,500                           | 50.5%              | 31,162,419                                | 11,802,766                                     | 37.9%                        | 3,094,734                       |
| Ghana      | 8,600,000                       | 2,580,000                            | 30.0%              | 9,330,839                                 | 1,959,476                                      | 21.0%                        | 620,524                         |
| Tanzania   | 6,888,845                       | 4,670,637                            | 67.8%              | 7,726,392                                 | 3,666,946                                      | 47.5%                        | 1,003,691                       |
| Uganda     | 22,349,000                      | 8,425,573                            | 37.7%              | 25,418,786                                | 6,708,018                                      | 26.4%                        | 1,717,555                       |
| Ethiopia   | 11,500,000                      | 4,485,000                            | 39.0%              | 12,733,524                                | 3,476,252                                      | 27.3%                        | 1,008,748                       |
| Kenya      | 22,700,000                      | 4,471,900                            | 19.7%              | 25,193,728                                | 3,970,531                                      | 15.8%                        | 501,369                         |
| Senegal    | 5,330,618                       | 1,785,757                            | 33.5%              | 5,909,304                                 | 1,385,732                                      | 23.5%                        | 400,025                         |
| Mali       | 3,328,346                       | 1,710,770                            | 51.4%              | 3,655,268                                 | 1,409,106                                      | 38.6%                        | 301,664                         |
| Honduras   | 1,641,442                       | 380,815                              | 23.2%              | 1,776,053                                 | 350,238  | 19.7%                        | 30,577                          |
| Liberia    | 2,879,300                       | 2,407,095                            | 83.6%              | 3,390,452                                 | 2,409,255                                      | 71.1%                        | (2,160)                         |
| Malawi     | 4,600,000                       | 3,394,800                            | 73.8%              | 5,131,251                                 | 3,029,491                                      | 59.0%                        | 365,309                         |
| Mozambique | 5,692,242                       | 3,386,884                            | 59.5%              | 6,224,530                                 | 2,962,876                                      | 47.6%                        | 424,008                         |
| Zambia     | 1,707,310                       | 1,097,800                            | 64.3%              | 1,882,345                                 | 1,028,796                                      | 54.7%                        | 69,004                          |
| Guatemala  | 3,168,021                       | 370,658                              | 11.7%              | 3,516,047                                 | 329,102  | 9.4%                         | 41,556                          |
| Haiti      | 3,000,000                       | 1,647,000                            | 54.9%              | 3,192,883                                 | 1,402,314                                      | 43.9%                        | 244,686                         |
| Nepal      | 5,380,000                       | 2,964,380                            | 55.1%              | 5,775,675                                 | 2,705,037                                      | 46.8%                        | 259,343                         |
| Cambodia   | 3,040,400                       | 859,521                              | 28.3%              | 3,247,365                                 | 688,523  | 21.2%                        | 170,998                         |
| Tajikistan | 1,206,839                       | 259,470                              | 21.5%              | 1,290,005                                 | 208,013  | 16.1%                        | 51,457                          |
| Nicaragua  | 769,100                         | 121,518                              | 15.8%              | 810,520                                   | 102,450  | 12.6%                        | 19,068                          |
| Total      | 151,616,110                     | 66,318,087                           | 45%                | 166,679,079                               | 55,673,595                                     | 35.3%                        | 10,644,493                      |



| Targeted Proportional Reduction in Poverty Rate 20% |   |                               | Hide?                      | Hide?                   | Factor 1  | Hide      | Hide                                | Hide                    | Hide   | Hide   | Hide | Hide                          | Hide   | Hide  | Hide              | Hide                                   | Hide  | Hide                              | GDP Growth needed per year |
|---|---|-------------------------------|----------------------------|-------------------------|---|-----------|-------------------------------------|-------------------------|--|--------|------|-------------------------------|--|---|-------------------|--|---|-----------------------------------|----------------------------|
| Country   | Initial Poverty Rate, Most Recent Survey* | Poverty Rate, Previous Survey | Year of Most Recent Survey | Year of Previous Survey | Average Annual Reduction in Poverty between two latest surveys*** (green if equal to or above target) | Data year | Average GDP growth rate (1999-2010) | Population Growth Rate* | Regional Average Poverty Percentage Point Reduction Rate |        |      | Target Poverty Headcount Rate | Implied targeted reduction in poverty rate over 5 years (pcntg points) | Implied reduction in poverty rate per year (pcntg points) | Inequality (Gini) | Growth Elasticity of Poverty Reduction | Per-Capita growth needed over 5-year period | Per-capita growth needed per year |                            |
|   |   |                               |                            |                         |   |           |                                     |                         | Asia   | Africa | LAC  |                               |  |   |                   |  |   |                                   |                            |
| Rwanda  | 76.8%                                     | 76.6%                         | 2005                       | 2000                    | 0.0%  | 2005      | 5.3%                                | 2.8%                    |  | 0.0%   |      | 61.4%                         | 15.4%  | 3.1%  | 0.53              | -0.96                                  | 21%   | 3.8%                              | 6.7%                       |
| Bangladesh  | 50.5%                                     | 49.6%                         | 2005                       | 1995                    | -0.1%   | 2005      | 5.6%                                | 1.4%                    | -0.1%  |        |      | 40.4%                         | 10.1%  | 2.0%  | 0.33              | -2.78                                  | 7%  | 1.4%                              | 2.8%                       |
| Ghana   | 30.0%                                     | 39.1%                         | 2005                       | 1998                    | 1.3%  | 2005      | 5.1%                                | 2.1%                    |  | 1.3%   |      | 24.0%                         | 6.0%   | 1.2%  | 0.43              | -1.75                                  | 11%   | 2.2%                              | 4.2%                       |
| Tanzania  | 67.8%                                     | 88.5%                         | 2007                       | 2000                    | 3.0%  | 2007      | 5.8%                                | 2.9%                    |  | 3.0%   |      | 54.2%                         | 13.6%  | 2.7%  | 0.38              | -2.27                                  | 9%  | 1.7%                              | 4.6%                       |
| Uganda  | 37.7%                                     | 64.4%                         | 2009                       | 1996                    | 2.1%  | 2009      | 5.4%                                | 3.3%                    |  | 2.1%   |      | 30.2%                         | 7.5%   | 1.5%  | 0.44              | -1.61                                  | 12%   | 2.4%                              | 5.6%                       |
| Ethiopia  | 39.0%                                     | 60.5%                         | 2004                       | 1995                    | 2.4%  | 2004      | 6.8%                                | 2.6%                    |  | 2.4%   |      | 31.2%                         | 7.8%   | 1.6%  | 0.30              | -3.23                                  | 6%  | 1.2%                              | 3.8%                       |
| Kenya   | 19.7%                                     | 28.5%                         | 2005                       | 1994                    | 0.8%  | 2005      | 2.9%                                | 2.6%                    |  | 0.8%   |      | 15.8%                         | 3.9%   | 0.8%  | 0.48              | -1.34                                  | 15%   | 2.8%                              | 5.5%                       |
| Senegal   | 33.5%                                     | 54.1%                         | 2005                       | 1994                    | 1.9%  | 2005      | 4.5%                                | 2.6%                    |  | 1.9%   |      | 26.8%                         | 6.7%   | 1.3%  | 0.39              | -2.10                                  | 10%   | 1.8%                              | 4.4%                       |
| Mali  | 51.4%                                     | 86.1%                         | 2006                       | 1994                    | 2.9%  | 2006      | 3.7%                                | 2.4%                    |  | 2.9%   |      | 41.1%                         | 10.3%  | 2.1%  | 0.39              | -2.12                                  | 9%  | 1.8%                              | 4.2%                       |
| Honduras  | 23.2%                                     | 28.3%                         | 2007                       | 1994                    | 0.4%  | 2007      | 2.9%                                | 2.0%                    |  |        | 0.4% | 18.6%                         | 4.6%   | 0.9%  | 0.58              | -0.71                                  | 28%   | 5.1%                              | 7.1%                       |
| Liberia   | 83.6%                                     | 83.7%                         | 2007                       |                         | N.A.  | 2007      | 7.0%                                | 4.2%                    |  | N.A.   |      | 66.9%                         | 16.7%  | 3.3%  | 0.38              | -2.21                                  | 9%  | 1.8%                              | 5.9%                       |
| Malawi  | 73.8%                                     | 83.1%                         | 2004                       | 1997                    | 1.3%  | 2004      | 4.8%                                | 2.8%                    |  | 1.3%   |      | 59.0%                         | 14.8%  | 3.0%  | 0.39              | -2.12                                  | 9%  | 1.8%                              | 4.6%                       |
| Mozambique  | 59.5%                                     | 81.3%                         | 2007                       | 1996                    | 2.0%  | 2007      | 7.4%                                | 2.3%                    |  | 2.0%   |      | 47.6%                         | 11.9%  | 2.4%  | 0.46              | -1.50                                  | 13%   | 2.5%                              | 4.8%                       |
| Zambia  | 64.3%                                     | 62.1%                         | 2004                       | 1996                    | -0.3%   | 2004      | 4.9%                                | 2.5%                    |  | -0.3%  |      | 51.4%                         | 12.9%  | 2.6%  | 0.51              | -1.12                                  | 18%   | 3.4%                              | 5.8%                       |
| Guatemala   | 11.7%                                     | 16.4%                         | 2006                       | 1998                    | 0.6%  | 2006      | 3.5%                                | 2.6%                    |  |        | 0.6% | 9.4%                          | 2.3%   | 0.5%  | 0.54              | -0.93                                  | 22%   | 4.0%                              | 6.6%                       |
| Haiti   | 54.9%                                     | 54.9%                         | 2001                       |                         | N.A.  | 2001      | 0.6%                                | 1.6%                    |  |        | N.A. | 43.9%                         | 11.0%  | 2.2%  | 0.60              | -0.62                                  | 32%   | 5.8%                              | 7.3%                       |
| Nepal   | 55.1%                                     | 68.4%                         | 2003                       | 1995                    | 1.7%  | 2003      | 3.1%                                | 1.8%                    | 1.7%   |        |      | 44.1%                         | 11.0%  | 2.2%  | 0.47              | -1.37                                  | 15%   | 2.8%                              | 4.6%                       |
| Cambodia  | 28.3%                                     | 48.6%                         | 2007                       | 1994                    | 1.6%  | 2004      | 5.8%                                | 1.7%                    | 1.6%   |        |      | 22.6%                         | 5.7%   | 1.1%  | 0.44              | -1.61                                  | 12%   | 2.4%                              | 4.0%                       |
| Tajikistan  | 21.5%                                     | 44.0%                         | 2004                       | 1999                    | 4.5%  | 2004      | 6.4%                                | 1.7%                    | 4.5%   |        |      | 17.2%                         | 4.3%   | 0.9%  | 0.34              | -2.73                                  | 7%  | 1.4%                              | 3.1%                       |
| Nicaragua   | 15.8%                                     | 22.3%                         | 2005                       | 1998                    | 0.9%  | 2005      | 3.4%                                | 1.3%                    |  |        | 0.9% | 12.6%                         | 3.2%   | 0.6%  | 0.52              | -1.01                                  | 20%   | 3.7%                              | 5.0%                       |

\* At \$1.25/day PPP International Poverty Line; data from PovCalNet

\* 2009 World Bank Population growth (annual %)

\*\*Poverty data: A supplement to World Development Indicators 2008, World Bank

\*\*\*PovcalNet

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| Factor 2  | FTF/BFS/EGAT<br>RECOMMENDATION | Five -year<br>Target<br>Poverty Rate<br>(percent) | Implied<br>targeted<br>reduction in<br>poverty rate<br>over 5 years<br>(pcntg<br>points) | Implied<br>reduction in<br>poverty rate<br>per year<br>(pcntg<br>points) |
|---|--------------------------------|---|--|--|
| <b>Additional</b> annual growth<br>needed to achieve poverty<br>reduction target over 5<br>years (green means less than<br>1% needed) |                                |   |  |  |
| 1.3%  | 15%                            | 65.3%   | 11.5%  | 2.3%   |
| -2.8%   | 25%                            | 37.9%   | 12.6%  | 2.5%   |
| -0.8%   | 30%                            | 21.0%   | 9.0%   | 1.8%   |
| -1.2%   | 30%                            | 47.5%   | 20.3%  | 4.1%   |
| 0.3%  | 30%                            | 26.4%   | 11.3%  | 2.3%   |
| -3.0%   | 30%                            | 27.3%   | 11.7%  | 2.3%   |
| 2.5%  | 20%                            | 15.8%   | 3.9%   | 0.8%   |
| 0.0%  | 30%                            | 23.5%   | 10.1%  | 2.0%   |
| 0.5%  | 25%                            | 38.6%   | 12.9%  | 2.6%   |
| 4.2%  | 15%                            | 19.7%   | 3.5%   | 0.7%   |
| -1.1%   | 15%                            | 71.1%   | 12.5%  | 2.5%   |
| -0.2%   | 20%                            | 59.0%   | 14.8%  | 3.0%   |
| -2.6%   | 20%                            | 47.6%   | 11.9%  | 2.4%   |
| 0.9%  | 15%                            | 54.7%   | 9.6%   | 1.9%   |
| 3.2%  | 20%                            | 9.4%  | 2.3%   | 0.5%   |
| 6.7%  | 20%                            | 43.9%   | 11.0%  | 2.2%   |
| 1.5%  | 15%                            | 46.8%   | 8.3%   | 1.7%   |
| -1.7%   | 25%                            | 21.2%   | 7.1%   | 1.4%   |
| -3.3%   | 25%                            | 16.1%   | 5.4%   | 1.1%   |
| 1.6%  | 20%                            | 12.6%   | 3.2%   | 0.6%   |

| Country    | %      | %      | %      | %      | %      | %      | %      | %      | %      | %      | %      | %      | Average GDP growth rate (1999-2010) |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------------------------|
|            | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   | 2005   | 2006   | 2007   | 2008   | 2009   | 2010   |                                     |
| Rwanda     | 5.30%  | 5.80%  | 5.00%  | 4.00%  | 3.50%  | 0.90%  | 5.20%  | 5.80%  | 6.00%  | 11.20% | 4.50%  | 6.50%  | 5.31%                               |
| Bangladesh | 5.20%  | 5.30%  | 5.60%  | 4.40%  | 5.30%  | 4.90%  | 6.40%  | 6.60%  | 6.30%  | 4.90%  | 5.70%  | 6.00%  | 5.55%                               |
| Ghana      | 4.30%  | 3.00%  | 3.00%  | 5.80%  | 4.70%  | 5.40%  | 5.90%  | 6.00%  | 5.50%  | 7.30%  | 4.10%  | 5.70%  | 5.06%                               |
| Tanzania   | 4.00%  | 5.20%  | 5.00%  | 5.20%  | 5.20%  | 5.80%  | 6.80%  | 5.80%  | 7.30%  | 7.10%  | 6.00%  | 6.50%  | 5.83%                               |
| Uganda     | 5.50%  | 6.00%  | 5.10%  | 5.50%  | 4.40%  | 5.00%  | 4.00%  | 5.30%  | 6.00%  | 6.90%  | 5.30%  | 5.20%  | 5.35%                               |
| Ethiopia   | 0.00%  | 2.00%  | 7.30%  | 5.50%  | -3.80% | 11.60% | 8.90%  | 10.60% | 11.10% | 11.60% | 8.70%  | 8.00%  | 6.79%                               |
| Kenya      | 1.50%  | 0.40%  | 1.00%  | 0.80%  | 1.50%  | 2.20%  | 5.80%  | 5.70%  | 7.00%  | 1.70%  | 2.60%  | 5.00%  | 2.93%                               |
| Senegal    | 5.00%  | 5.70%  | 5.70%  | 5.00%  | 5.50%  | 3.20%  | 6.10%  | 2.00%  | 4.60%  | 4.80%  | 1.80%  | 4.20%  | 4.47%                               |
| Mali       | 5.00%  | 4.80%  | -1.20% | 4.50%  | 0.50%  | 4.00%  | 6.10%  | 5.10%  | 2.80%  | 4.20%  | 4.40%  | 4.50%  | 3.73%                               |
| Honduras   | -3.00% | 5.00%  | 2.10%  | 2.00%  | 3.00%  | 4.20%  | 4.20%  | 6.00%  | 6.30%  | 4.00%  | -2.10% | 2.80%  | 2.88%                               |
| Liberia    | 0.50%  | 15.00% | 5.00%  | -5.00% | 3.00%  | 21.80% | 9.80%  | 7.80%  | 9.40%  | 7.10%  | 4.60%  | 5.10%  | 7.01%                               |
| Malawi     | 4.20%  | 3.00%  | 1.70%  | 1.20%  | 1.70%  | 4.00%  | 1.90%  | 8.50%  | 8.00%  | 8.60%  | 7.60%  | 6.60%  | 4.75%                               |
| Mozambique | 10.00% | 3.80%  | 9.20%  | 8.00%  | 7.00%  | 8.20%  | 7.50%  | 7.90%  | 7.30%  | 6.50%  | 6.30%  | 7.00%  | 7.39%                               |
| Zambia     | 1.50%  | 4.00%  | 3.90%  | 4.20%  | 4.00%  | 4.60%  | 5.00%  | 5.80%  | 6.00%  | 6.00%  | 6.30%  | 7.60%  | 4.91%                               |
| Guatemala  | 3.50%  | 3.00%  | 2.30%  | 2.00%  | 2.10%  | 2.60%  | 3.20%  | 4.60%  | 5.70%  | 4.00%  | 6.00%  | 2.60%  | 3.47%                               |
| Haiti      | 2.40%  | 1.20%  | -1.20% | -1.50% | 0.00%  | -0.04% | 1.80%  | 2.50%  | 3.20%  | 1.30%  | 2.90%  | -5.10% | 0.62%                               |
| Nepal      | 3.40%  | 3.70%  | 2.60%  | -0.60% | 3.00%  | 3.00%  | 2.70%  | 1.90%  | 3.20%  | 4.70%  | 4.70%  | 4.60%  | 3.08%                               |
| Cambodia   | 4.00%  | 4.00%  | 5.30%  | 5.20%  | 5.00%  | 5.40%  | 13.40% | 7.20%  | 10.10% | 5.00%  | -1.50% | 6.00%  | 5.76%                               |
| Tajikistan | 2.00%  | 5.10%  | 8.30%  | 5.00%  | 7.00%  | 10.50% | 6.70%  | 7.00%  | 7.80%  | 7.90%  | 3.40%  | 6.50%  | 6.43%                               |
| Nicaragua  | 6.30%  | 5.00%  | 2.50%  | 2.40%  | 2.30%  | 4.00%  | 4.00%  | 3.70%  | 3.80%  | 3.20%  | -1.50% | 4.50%  | 3.35%                               |

| Country Name | Indicator Name                              | % Hosty Country Domestic Budget Spent on Agriculture |                   |       | 15 yr annual growth rate ave | 10 yr annual growth rate ave | 5 yr annual growth rate ave | Change in Ag as % of GDP over 15 yrs | Change in Ag as % of GDP over 10 yrs | Change in Ag as % of GDP over 5 yrs |
|--------------|---|--|-------------------|-------|------------------------------|------------------------------|-----------------------------|--------------------------------------|--------------------------------------|-------------------------------------|
|              |   | Previous (2005-08)                                   | Current (2010-11) | Trend |                              |                              |                             |                                      |                                      |                                     |
| Bangladesh   | % Host Country Domestic Budget Spent on Ag. | 5.7%   | 8.6%              | ↑     |                              |                              |                             |                                      |                                      |                                     |
|              | Agriculture, value added (% of GDP)         |  |                   |       |                              |                              |                             | -7.8                                 | -6.9                                 | -1.6                                |
|              | Agriculture, value added (annual % growth)  |  |                   |       | 4                            | 3.8                          | 4.0                         |                                      |                                      |                                     |
| Cambodia     | % Host Country Domestic Budget Spent on Ag. | 1.0%   | 1.0%              | →     |                              |                              |                             |                                      |                                      |                                     |
|              | Agriculture, value added (% of GDP)         |  |                   |       |                              |                              |                             | -13.6                                | -1.8                                 | 3.6                                 |
|              | Agriculture, value added (annual % growth)  |  |                   |       | 4                            | 4.7                          | 6.9                         |                                      |                                      |                                     |
| Ethiopia     | % Host Country Domestic Budget Spent on Ag. | 11.7%  | 17.0%             | ↑     |                              |                              |                             |                                      |                                      |                                     |
|              | Agriculture, value added (% of GDP)         |  |                   |       |                              |                              |                             | -9.8                                 | -2.2                                 | 1.0                                 |
|              | Agriculture, value added (annual % growth)  |  |                   |       | 5                            | 6.4                          | 8.9                         |                                      |                                      |                                     |
| Ghana        | % Host Country Domestic Budget Spent on Ag. | 5.6%   | 10.0%             | ↑     |                              |                              |                             |                                      |                                      |                                     |
|              | Agriculture, value added (% of GDP)         |  |                   |       |                              |                              |                             | -12.5                                | -9.2                                 | -10.7                               |
|              | Agriculture, value added (annual % growth)  |  |                   |       | 5                            | 4.52                         | 4.52                        |                                      |                                      |                                     |
| Guatemala    | % Host Country Domestic Budget Spent on Ag. | 7.0%   | 1.6%              | ↓     |                              |                              |                             |                                      |                                      |                                     |
|              | Agriculture, value added (% of GDP)         |  |                   |       |                              |                              |                             | -2.1                                 | -2.1                                 | -0.4                                |
|              | Agriculture, value added (annual % growth)  |  |                   |       | 3                            | 2.8                          | 2.4                         |                                      |                                      |                                     |
| Haiti        | % Host Country Domestic Budget Spent on Ag. | 2.0%   | 2.4%              | ↑     |                              |                              |                             |                                      |                                      |                                     |
|              | Agriculture, value added (% of GDP)         |  |                   |       |                              |                              |                             | 0.0                                  | 0.0                                  | 0.0                                 |
|              | Agriculture, value added (annual % growth)  |  |                   |       | -1                           | -0.6                         | 0.7                         |                                      |                                      |                                     |
| Honduras     | % Host Country Domestic Budget Spent on Ag. | 1.2%   | 1.1%              | ↓     |                              |                              |                             |                                      |                                      |                                     |
|              | Agriculture, value added (% of GDP)         |  |                   |       |                              |                              |                             | -9.0                                 | -3.4                                 | -1.1                                |
|              | Agriculture, value added (annual % growth)  |  |                   |       | 3                            | 3.7                          | 2.2                         |                                      |                                      |                                     |
| Kenya        | % Host Country Domestic Budget Spent on Ag. | 5.0%   | 2.0%              | ↓     |                              |                              |                             |                                      |                                      |                                     |
|              | Agriculture, value added (% of GDP)         |  |                   |       |                              |                              |                             | -11.7                                | -13.0                                | -7.8                                |
|              | Agriculture, value added (annual % growth)  |  |                   |       | 3                            | 1.8                          | 1.5                         |                                      |                                      |                                     |
| Liberia      | % Host Country Domestic Budget Spent on Ag. | 1.0%   | 3.0%              | ↑     |                              |                              |                             |                                      |                                      |                                     |
|              | Agriculture, value added (% of GDP)         |  |                   |       |                              |                              |                             | -20.5                                | -10.7                                | -4.5                                |
|              | Agriculture, value added (annual % growth)  |  |                   |       |                              |                              | 0                           |                                      |                                      |                                     |
| Malawi       | % Host Country Domestic Budget Spent on Ag. | 11.0%  | 13.0%             | ↑     |                              |                              |                             |                                      |                                      |                                     |
|              | Agriculture, value added (% of GDP)         |  |                   |       |                              |                              |                             | 0.1                                  | -9.0                                 | -2.1                                |
|              | Agriculture, value added (annual % growth)  |  |                   |       | 8                            | 3.3                          | 4.1                         |                                      |                                      |                                     |

|            |   |       |       |   |    |     |     |       |       |       |
|------------|---|-------|-------|---|----|-----|-----|-------|-------|-------|
| Mali       | % Host Country Domestic Budget Spent on Ag. | 11.0% | 13.0% | ↑ |    |     |     |       |       |       |
|            | Agriculture, value added (% of GDP)         |       |       |   |    |     |     | -13.0 | -5.0  | 0.0   |
|            | Agriculture, value added (annual % growth)  |       |       |   | 4  | 3.3 | 5.2 |       |       |       |
| Mozambique | % Host Country Domestic Budget Spent on Ag. | 9.0%  | 5.0%  | ↓ |    |     |     |       |       |       |
|            | Agriculture, value added (% of GDP)         |       |       |   |    |     |     | -2.9  | 7.8   | 4.9   |
|            | Agriculture, value added (annual % growth)  |       |       |   | 8  | 6.8 | 9.2 |       |       |       |
| Nepal      | % Host Country Domestic Budget Spent on Ag. | 2.5%  | 5.0%  | ↑ |    |     |     |       |       |       |
|            | Agriculture, value added (% of GDP)         |       |       |   |    |     |     | -5.7  | -4.7  | -0.3  |
|            | Agriculture, value added (annual % growth)  |       |       |   | 3  | 3.4 | 2.7 |       |       |       |
| Rwanda     | % Host Country Domestic Budget Spent on Ag. | 3.3%  | 7.1%  | ↑ |    |     |     |       |       |       |
|            | Agriculture, value added (% of GDP)         |       |       |   |    |     |     | -10.1 | -3.3  | -4.5  |
|            | Agriculture, value added (annual % growth)  |       |       |   | 11 | 6.5 | 6.5 |       |       |       |
| Senegal    | % Host Country Domestic Budget Spent on Ag. | 10.0% | 14.0% | ↑ |    |     |     |       |       |       |
|            | Agriculture, value added (% of GDP)         |       |       |   |    |     |     | -4.3  | -2.4  | 0.0   |
|            | Agriculture, value added (annual % growth)  |       |       |   | 3  | 2.9 | 4.6 |       |       |       |
| Tajikistan | % Host Country Domestic Budget Spent on Ag. | 5.4%  | 5.8%  | ↑ |    |     |     |       |       |       |
|            | Agriculture, value added (% of GDP)         |       |       |   |    |     |     | -17.1 | -6.1  | -2.6  |
|            | Agriculture, value added (annual % growth)  |       |       |   | 4  | 8.1 | 5.3 |       |       |       |
| Tanzania   | % Host Country Domestic Budget Spent on Ag. | 7.0%  | 7.0%  | → |    |     |     |       |       |       |
|            | Agriculture, value added (% of GDP)         |       |       |   |    |     |     | -19.0 | -5.3  | -3.6  |
|            | Agriculture, value added (annual % growth)  |       |       |   | 4  | 4.5 | 4.3 |       |       |       |
| Uganda     | % Host Country Domestic Budget Spent on Ag. | 3.0%  | 4.0%  | ↑ |    |     |     |       |       |       |
|            | Agriculture, value added (% of GDP)         |       |       |   |    |     |     | -25.1 | -5.1  | -2.5  |
|            | Agriculture, value added (annual % growth)  |       |       |   | 3  | 2.4 | 1.3 |       |       |       |
| Zambia     | % Host Country Domestic Budget Spent on Ag. | 4.0%  | 4.0%  | → |    |     |     |       |       |       |
|            | Agriculture, value added (% of GDP)         |       |       |   |    |     |     | -9.2  | -13.2 | -14.2 |
|            | Agriculture, value added (annual % growth)  |       |       |   | 3  | 0.8 | 0.3 |       |       |       |
| Nicaragua  | % Host Country Domestic Budget Spent on Ag. | 4%    | 3%    | ↓ |    |     |     |       |       |       |
|            | Agriculture, value added (% of GDP)         |       |       |   |    |     |     | -2.0  | 0.5   | 2.4   |
|            | Agriculture, value added (annual % growth)  |       |       |   | 4  | 3.8 | 3.3 |       |       |       |

| Country      |                        |                                      |  |                                     |   |   |  |  |  |                        |  |   |
|--------------|------------------------|--------------------------------------|--|-------------------------------------|---|---|--|--|--|------------------------|--|---|
|              |                        |                                      |  |                                     |   | 2010  |  |  |  |                        | 2015   |   |
|              | Total population, 2010 | 2010 Total population in target zone | 2010 Total Population, World Bank Data | Percent Population under five, 2010 | Estimated Total population of children under five in target zone 2010 | Percent under-weight as of 2010 DHS surveys | Percent Stunted as of 2010 DHS surveys | Estimated Population of children under five who are underweight in target zone | Estimated Population of children under five who are stunted in target zone | Population growth rate | Projected total population of children under five in target zone | Projected total population of children under five who are underweight in target zone, no reduction from 2010 levels |
| Rwanda       | 10,624,005             | 8,334,647                            | 10624005                               | 17.5%                               | 1,457,802   | 11.4%                                       | 44.2%                                  | 166,189  | 644,349  | 2.81%                  | 1,674,463  | 190,889   |
| Bangladesh   | 148,692,131            | 29,500,000                           | 148692131                              | 10.0%                               | 2,950,000   | 41.0%                                       | 43.2%                                  | 1,209,500  | 1,274,400  | 1.38%                  | 3,159,246  | 1,295,291   |
| Ghana        | 24,391,823             | 8,600,000                            | 24391823                               | 14.5%                               | 1,247,751   | 13.9%                                       | 28.0%                                  | 173,437  | 349,370  | 2.06%                  | 1,381,674  | 192,053   |
| Tanzania     | 44,841,226             | 6,888,845                            | 44841226                               | 18.0%                               | 1,239,992   | 15.8%                                       | 42.0%                                  | 195,919  | 520,797  | 2.91%                  | 1,431,221  | 226,133   |
| Uganda       | 33,424,683             | 22,349,000                           | 33424683                               | 19.5%                               | 4,357,996   | 15.9%                                       | 38.1%                                  | 692,921  | 1,660,396  | 3.27%                  | 5,118,676  | 813,870   |
| Ethiopia     | 82,949,541             | 11,500,000                           | 82949541                               | 14.5%                               | 1,667,232   | 28.7%                                       | 44.4%                                  | 478,496  | 740,251  | 2.58%                  | 1,893,693  | 543,490   |
| Kenya        | 40,512,682             | 22,700,000                           | 40512682                               | 16.5%                               | 3,745,373   | 16.1%                                       | 35.3%                                  | 603,005  | 1,322,117  | 2.64%                  | 4,266,564  | 686,917   |
| Senegal      | 12,433,728             | 5,330,618                            | 12433728                               | 16.5%                               | 879,338   | 17.7%                                       | 26.5%                                  | 155,643  | 233,024  | 2.61%                  | 1,000,240  | 177,042   |
| Mali         | 15,369,809             | 3,328,346                            | 15369809                               | 19.0%                               | 632,386   | 26.7%                                       | 37.7%                                  | 168,847  | 238,409  | 2.37%                  | 710,961  | 189,827   |
| Honduras     | 7,600,524              | 1,641,442                            | 7,600,524                              | 12.5%                               | 205,176   | 8.3%  | 30.0%                                  | 17,030   | 61,553   | 1.99%                  | 226,419  | 18,793  |
| Liberia      | 3,994,122              | 2,879,300                            | 3994122                                | 17.0%                               | 489,481   | 19.2%                                       | 39.4%                                  | 93,980   | 192,856  | 4.17%                  | 600,412  | 115,279   |
| Malawi       | 14,900,841             | 4,600,000                            | 14900841                               | 18.0%                               | 828,000   | 12.8%                                       | 47.1%                                  | 105,984  | 389,988  | 2.77%                  | 949,210  | 121,499   |
| Mozambique   | 23,390,765             | 5,692,242                            | 23390765                               | 16.5%                               | 938,454   | 19.7%                                       | 47.0%                                  | 184,875  | 441,073  | 2.26%                  | 1,049,402  | 206,732   |
| Zambia       | 12,926,409             | 1,707,310                            | 12926409                               | 18.5%                               | 315,872   | 14.6%                                       | 45.4%                                  | 46,117   | 143,406  | 2.47%                  | 356,857  | 52,101  |
| Guatemala    | 14,388,929             | 3,168,021                            | 14388929                               | 15.0%                               | 474,399   | 13.1%                                       | 49.8%                                  | 62,146   | 236,251  | 2.64%                  | 540,415  | 70,794  |
| Haiti        | 9,993,247              | 3,000,000                            | 9993247                                | 12.5%                               | 374,880   | 18.1%                                       | 29.4%                                  | 67,853   | 110,215  | 1.57%                  | 405,247  | 73,350  |
| Nepal        | 29,959,364             | 5,380,000                            | 29959364                               | 11.5%                               | 618,489   | 28.8%                                       | 40.5%                                  | 178,125  | 250,488  | 1.79%                  | 675,861  | 194,648   |
| Cambodia     | 14,138,255             | 3,040,400                            | 14138255                               | 10.5%                               | 318,914   | 28.3%                                       | 39.9%                                  | 90,253   | 127,247  | 1.66%                  | 346,277  | 97,996  |
| Tajikistan** | 6,878,637              | 1,206,839                            | 6,878,637                              | 12.5%                               | 150,759   | 8.4%  | 28.9%                                  | 12,664   | 43,569   | 1.68%                  | 163,856  | 13,764  |
| Nicaragua*   | 5,788,163              | 769,100                              | 5,788,163                              | 11.5%                               | 88,406  | 6.0%  | 22.0%                                  | 5,304  | 19,449   | 1.32%                  | 94,397   | 5,664   |
| Total        | 557,198,884            | 151,616,110                          |  | 15.2%                               | 22,980,699  | 20.5%                                       | 39.2%                                  | 4,708,289  | 8,999,208  |                        | 26,045,091   | 5,286,131   |

|   |   |  |  |  |   |  |  |                                     |   |  |  |  |
|---|---|--|--|--|---|--|--|-------------------------------------|---|--|--|--|
|   |   |  |  |  |   |  |  |                                     |   |  |  |  |
|   |   |  |  |  |   |  |  |                                     |   |  |  |  |
| Projected total population of children under five who are stunted in target zone, no reduction from 2010 levels | Projected percent under-weight (15% reduction) previous investment level trend over 5 years | Projected percent under-weight (30% reduction) | Projected total population of children under five who are underweight in target zone 15% reduction | Projected total population of children under five who are underweight in target zone 30% reduction | Projected number of less children underweight 30% reduction compared to no reduction from 2010 levels | Projected number of less children underweight 30% reduction compared to 15% reduction (business as usual) from 2010 levels | Projected Stunted 9.6% reduction (business as usual) | Projected % Stunted (20% reduction) | Projected total population of children under five who are stunted in target zone 9.6% reduction | Projected total population of children under five who are stunted in target zone 20% reduction | Projected number of less children stunted 20% reduction, compared to no reduction from 2010 levels | Projected number of less children stunted 20% reduction compared to 9.6% reduction |
| 740,112   | 9.7%  | 8%   | 162,255  | 133,622  | 57,267  | 28,633   | 40.0%  | 35.36%                              | 669,062   | 592,090  | 148,022  | 76,972   |
| 1,364,794   | 34.9%   | 29%  | 1,100,997  | 906,704  | 388,587   | 194,294  | 39.1%  | 34.56%                              | 1,233,774   | 1,091,835  | 272,959  | 141,939  |
| 386,869   | 11.8%   | 10%  | 163,245  | 134,437  | 57,616  | 28,808   | 25.3%  | 22.40%                              | 349,729   | 309,495  | 77,374   | 40,234   |
| 601,113   | 13.4%   | 11%  | 192,213  | 158,293  | 67,840  | 33,920   | 38.0%  | 33.60%                              | 543,406   | 480,890  | 120,223  | 62,516   |
| 1,950,216   | 13.5%   | 11%  | 691,789  | 569,709  | 244,161   | 122,080  | 34.4%  | 30.48%                              | 1,762,995   | 1,560,173  | 390,043  | 202,822  |
| 840,800   | 24.4%   | 20%  | 461,966  | 380,443  | 163,047   | 81,523   | 40.1%  | 35.52%                              | 760,083   | 672,640  | 168,160  | 87,443   |
| 1,506,097   | 13.7%   | 11%  | 583,879  | 480,842  | 206,075   | 103,038  | 31.9%  | 28.24%                              | 1,361,512   | 1,204,878  | 301,219  | 156,634  |
| 265,064   | 15.0%   | 12%  | 150,486  | 123,930  | 53,113  | 26,556   | 24.0%  | 21.20%                              | 239,617   | 212,051  | 53,013   | 27,567   |
| 268,032   | 22.7%   | 19%  | 161,353  | 132,879  | 56,948  | 28,474   | 34.1%  | 30.16%                              | 242,301   | 214,426  | 53,606   | 27,875   |
| 67,926  | 7.1%  | 6%   | 15,974   | 13,155   | 5,638   | 2,819  | 27.1%  | 24.00%                              | 61,405  | 54,341   | 13,585   | 7,064  |
| 236,562   | 16.3%   | 13%  | 97,987   | 80,695   | 34,584  | 17,292   | 35.6%  | 31.52%                              | 213,852   | 189,250  | 47,312   | 24,602   |
| 447,078   | 10.9%   | 9%   | 103,274  | 85,049   | 36,450  | 18,225   | 42.6%  | 37.68%                              | 404,158   | 357,662  | 89,416   | 46,496   |
| 493,219   | 16.7%   | 14%  | 175,722  | 144,712  | 62,020  | 31,010   | 42.5%  | 37.60%                              | 445,870   | 394,575  | 98,644   | 51,295   |
| 162,013   | 12.4%   | 10%  | 44,286   | 36,471   | 15,630  | 7,815  | 41.0%  | 36.32%                              | 146,460   | 129,610  | 32,403   | 16,849   |
| 269,127   | 11.1%   | 9%   | 60,175   | 49,556   | 21,238  | 10,619   | 45.0%  | 39.84%                              | 243,290   | 215,301  | 53,825   | 27,989   |
| 119,143   | 15.4%   | 13%  | 62,347   | 51,345   | 22,005  | 11,002   | 26.6%  | 23.52%                              | 107,705   | 95,314   | 23,829   | 12,391   |
| 273,724   | 24.5%   | 20%  | 165,451  | 136,254  | 58,394  | 29,197   | 36.6%  | 32.40%                              | 247,446   | 218,979  | 54,745   | 28,467   |
| 138,165   | 24.1%   | 20%  | 83,297   | 68,598   | 29,399  | 14,699   | 36.1%  | 31.92%                              | 124,901   | 110,532  | 27,633   | 14,369   |
| 47,354  | 7.1%  | 6%   | 11,699   | 9,635  | 4,129   | 2,065  | 26.1%  | 23.12%                              | 42,808  | 37,883   | 9,471  | 4,925  |
| 20,767  | 5.1%  | 4%   | 4,814  | 3,965  | 1,699   | 850  | 19.9%  | 17.60%                              | 18,774  | 16,614   | 4,153  | 2,160  |
| 10,198,174  | 17.3%   | 14%  | 4,493,211  | 3,700,292  | 1,585,839   | 792,920  |  | 31.32%                              | 9,219,149   | 8,158,539  | 2,039,635  | 1,060,610  |

| Country  | year previous<br>DHS (before<br>2010) | new DHS | difference in years | 0-4<br>population | %<br>Underweight<br>Before 2010<br>DHS | #<br>underweight<br>before 2010<br>DHS | %<br>underweight;<br>new DHS | #<br>underweight<br>new DHS | % change<br>from<br>previous<br>DHS | 30%<br>change<br>would<br>have been | % stunted<br>before<br>2010 DHS | # stunted<br>before<br>2010 DHS | % stunted<br>2010 DHS |
|----------|---------------------------------------|---------|---------------------|-------------------|--|--|------------------------------|-----------------------------|-------------------------------------|-------------------------------------|---------------------------------|---------------------------------|-----------------------|
| Afr      |                                       |         |                     |                   |  |  |                              |                             |                                     |                                     |                                 |                                 |                       |
| Ethiopia | 2005                                  | 2010    | 5                   | 12,025,752        | 32.9                                   | 3956472.247                            | 28.7                         | 3451390.683                 | 12.77%                              | 23.03                               | 50.8                            | 6109081.767                     | 44.4                  |
| Malawi   | 2006                                  | 2010    | 4                   | 2,682,151         | 17.3                                   | 464012.1887                            | 12.8                         | 343315.3766                 | 26.01%                              | 12.11                               | 52.5                            | 1408129.475                     | 47                    |
| Rwanda   | 2005                                  | 2010    | 5                   | 1,858,231         | 17.5                                   | 325190.4145                            | 11.4                         | 211838.3272                 | 34.86%                              | 12.25                               | 51.1                            | 949556.0103                     | 44                    |
| Senegal  | 2005                                  | 2010    | 5                   | 2,051,065         | 14.2                                   | 291251.2726                            | 17.7                         | 363038.5581                 | -24.65%                             | 9.94                                | 19.6                            | 402008.7988                     | 26.5                  |
| Tanzania | 2004                                  | 2010    | 6                   | 8,071,421         | 16.4                                   | 1323712.992                            | 15.8                         | 1275284.467                 | 3.66%                               | 11.48                               | 44.3                            | 3575639.361                     | 42                    |
| A&ME     |                                       |         |                     |                   |  |  |                              |                             |                                     |                                     |                                 |                                 |                       |
| Cambodia | 2005                                  | 2010    | 5                   | 1,482,991         | 28.1                                   | 416720.5609                            | 28.3                         | 419686.5436                 | -0.71%                              | 19.67                               | 42.7                            | 633237.2936                     | 39.9                  |
| Nepal    | 2006                                  | 2010    | 4                   | 3,444,152         | 38.6                                   | 1329442.761                            | 28.8                         | 991915.8422                 | 25.39%                              | 27.02                               | 49.3                            | 1697967.049                     | 41                    |
| Total    |                                       |         | 4.857142857         | 31615763.36       | 26.46%                                 | 8106802.436                            | 22.32%                       | 7056469.799                 | 15.65%                              | 18.52%                              | 0.467349771                     | 14775619.75                     | 0.422416224           |
|          |                                       |         |                     |                   | 0.041400825                            | 0.008280165                            | 0.032214076                  |                             |                                     |                                     |                                 |                                 |                       |



| # stunted<br>2010 DHS | % change<br>from<br>previous<br>DHS | 20%<br>reduction<br>would<br>have been | 30%<br>reduction<br>would<br>have been |
|-----------------------|-------------------------------------|--|--|
|-----------------------|-------------------------------------|--|--|

|             |         |       |       |
|-------------|---------|-------|-------|
| 5339433.67  | 12.60%  | 40.64 | 35.56 |
| 1260611.149 | 10.48%  | 42.00 | 36.75 |
| 817621.6136 | 13.89%  | 40.88 | 35.77 |
| 543532.3045 | -35.20% | 15.68 | 13.72 |
| 3389996.686 | 5.19%   | 35.44 | 31.01 |

|             |        |       |       |
|-------------|--------|-------|-------|
| 591713.5367 | 6.56%  | 34.16 | 29.89 |
| 1412102.414 | 16.84% | 39.44 | 34.51 |

|             |       |  |  |
|-------------|-------|--|--|
| 13355011.37 | 9.61% |  |  |
|-------------|-------|--|--|

| Country            | 2010 0-4<br>population | Previous<br>year DHS | Previous<br>year %<br>stunted | 2nd data<br>point year | 2nd Data<br>point %<br>stunted | percent<br>change | years<br>between<br>data<br>points | # stunted<br>1st data<br>point |
|--------------------|------------------------|----------------------|-------------------------------|------------------------|--------------------------------|-------------------|------------------------------------|--------------------------------|
| Country<br>average |                        |                      |                               |                        |                                |                   |                                    |                                |
| Afr                |                        |                      |                               |                        |                                |                   | 5.0625                             |                                |
| Ethiopia           | 12,025,752             | 2005                 | 50.8                          | 2010                   | 44.4                           | 0.125984          | 5                                  | 6109082                        |
| Ghana              | 3,538,944              | 2003                 | 35                            | 2008                   | 28                             | 0.2               | 5                                  | 1238630                        |
| Kenya              | 6,684,366              | 2003                 | 35.7                          | 2008                   | 35.3                           | 0.011204          | 5                                  | 2386319                        |
| Malawi             | 2,682,151              | 2006                 | 52.5                          | 2010                   | 47                             | 0.104762          | 4                                  | 1408129                        |
| Mali               | 2,920,264              | 2001                 | 42.4                          | 2006                   | 37.7                           | 0.110849          | 5                                  | 1238192                        |
| Mozambique         | 3,856,327              | 1997                 | 42.4                          | 2003                   | 47                             | -0.10849          | 6                                  | 1635082                        |
| Rwanda             | 1,858,231              | 2005                 | 51.1                          | 2010                   | 44                             | 0.138943          | 5                                  | 949556                         |
| Senegal            | 2,051,065              | 2005                 | 19.6                          | 2010                   | 26.5                           | -0.35204          | 5                                  | 402008.8                       |
| Tanzania           | 8,071,421              | 2004                 | 44.3                          | 2010                   | 42                             | 0.051919          | 6                                  | 3575639                        |
| Uganda             | 6,517,724              | 2001                 | 44.8                          | 2006                   | 38.1                           | 0.149554          | 5                                  | 2919941                        |
| Zambia             | 2,391,532              | 2001                 | 53                            | 2007                   | 45.4                           | 0.143396          | 6                                  | 1267512                        |
| A&ME               |                        |                      |                               |                        |                                |                   |                                    |                                |
| Bangladesh         | 14,869,213             | 2004                 | 51                            | 2007                   | 43.2                           | 0.152941          | 3                                  | 7583299                        |
| Cambodia           | 1,482,991              | 2005                 | 42.7                          | 2010                   | 39.9                           | 0.065574          | 5                                  | 633237.3                       |
| Nepal              | 3,444,152              | 2006                 | 49.3                          | 2010                   | 41                             | 0.168357          | 4                                  | 1697967                        |
| LAC                |                        |                      |                               |                        |                                |                   |                                    |                                |
| Guatemala          | 2,154,688              | 2002                 | 54.3                          | 2008                   | 49.8                           | 0.082873          | 6                                  | 1169995                        |
| Haiti              | 1,248,757              | 2000                 | 28.7                          | 2006                   | 29.4                           | -0.02439          | 6                                  | 358393.3                       |
| Total              | 72,394,133             |                      | 0.477566                      |                        | 0.428924                       | 0.101854          | 5.0625                             | 34572983                       |
| Total Asia         | 19,796,357             |                      |                               |                        |                                | 0.020119          |                                    |                                |
| Total Africa       | 56,041,928             |                      |                               |                        |                                | 0.100597          |                                    |                                |
| Total LAC          | 3,403,445              |                      |                               |                        |                                |                   |                                    |                                |

# stunted 2nd  
data point

5339433.67  
990904.3284  
2359581.244

1260611.149  
1100939.419  
1812473.521  
817621.6136  
543532.3045  
3389996.686  
2483252.981  
1085755.319

6423500.059  
591713.5367  
1412102.414

1073034.495  
367134.5992

31051587.34

|  |  |  |  |   |  |   |
|--|--|--|--|---|--|---|
|  |  |  |  |   |  | Stunting,<br>Average 5<br>year<br>Change<br>with 2<br>data<br>points<br>from<br>more<br>countries |
| Underweight<br>2005<br>Population<br>weighted<br>average | Stunting 2005<br>Population<br>Weighted<br>Average | Underweight<br>2010<br>Population<br>weighted<br>average | Stunting 2010<br>Population<br>Weighted<br>Average | Underweight,<br>Average Change<br>2005-2010 (five<br>year change) | Stunting<br>Average<br>Change<br>2005-<br>2010 |   |
| 26.46%   | 46.7%  | 22.32%   | 42.2%  | 15.65%  | 9.61%  | 10.1%   |

## POPULATIONS AND CHILDREN REACHED

SCENARIO: \$490 MILLION FY09-FY14

|   |        |  |
|---|--------|--|
| <b>Number of children under 5 (million) in priority countries</b>   | 65.6   | With backloading and a reduction in budget, we would eliminate countries from nutrition funding. The original calculation was on a base of 78.7 million children.        |
| <b>Number of children under 2 (million) in priority countries</b> (=number of children under 5 *41%)  | 26.896 | 41% of the children under 5  |
| <b>Number of children under 2 reached with appropriate package of nutrition interventions in priority countries</b> (based on rationale noted to the right)   | 4.3    | \$490 million total budget FY09-FY14. \$386 million without global costs. \$30/child under two/over three years from pregnancy to 24 months=652 million/\$90=4.3 million |
| <b>Proportion of children under 2 reached</b> (= number of children under 2 reached with package of nutrition interventions in priority countries / number of children under 2 in priority countries) | 0.16   |  |
| <b>Number of children under 5 (million) reached in priority countries</b> (= proportion of children under 2 reached * number of children under 5 in priority countries)                               | 10.49  |  |

| IMPACT ON STUNTING  |      |
|---|------|
| <b>Prevalence of stunting &lt; 5 in absence of intervention</b> (Based on baseline data taken from Demographic and Health Surveys indicate the average (not-weighted) prevalence)               | 0.42 |
| <b># &lt; 5 stunted in population reached in absence of interventions</b> (=number of children under five reached in priority countries * prevalence of stunting <5 in absence of intervention) | 4.4  |

Latest DHS data and the removal of countries resulted in a change from 44% to 42%

|   |       |
|---|-------|
| <b>Prevalence of stunting &lt; 5 with intervention</b> (based on anticipated 35% reduction in prevalence as documented in Lancet 2008 series on maternal & child nutrition) OR (= prevalence of stunting <5 in absence of intervention * 0.8) | 33.6% |
| <b># &lt; 5 stunted (millions) in population with intervention</b> (= # of children <5 reached in priority countries * prevalence of stunting <5 with intervention)   | 3.5   |
| <b># of cases of stunting prevented (million)</b> (= #<5 stunted in population in absence of intervention - #<5 stunted in population with intervention)  | 0.9   |
| <b>Per year</b> (= # of cases stunting prevented (million) / number of fiscal years 3)  | 0.22  |

20% reduction

4 fiscal years of robust funding

## POPULATIONS AND CHILDREN REACHED

### SCENARIO: \$1.279 BILLION FY09-FY15

**Number of children under 5 (million) in priority countries** 78.7

**Number of children under 2 (million) in priority countries** (=number of children under 5 \*41%) 32.2

**Number of children under 2 reached with appropriate package of nutrition interventions in priority countries** (based on rationale noted to the right) 12.7

**Proportion of children under 2 reached** (= number of children under 2 reached with package of nutrition interventions in priority countries / number of children under 2 in priority countries) 0.39

**Number of children under 5 (million) reached in priority countries** (= proportion of children under 2 reached \* number of children under 5 in priority countries) 31.04

\$1.279 billion total budget FY09-FY15.  
\$1.151 billion without global costs.  
\$30/child under two/over three years from pregnancy to 24 months=1.151 billion/\$90=12.7 million children

| IMPACT ON STUNTING  |      |
|---|------|
| <b>Prevalence of stunting &lt; 5 in absence of intervention</b> (Based on baseline data taken from Demographic and Health Surveys indicate the average (not-weighted) prevalence)               | 0.44 |
| <b># &lt; 5 stunted in population reached in absence of interventions</b> (=number of children under five reached in priority countries * prevalence of stunting <5 in absence of intervention) | 13.7 |



|   |      |
|---|------|
| <b>Prevalence of stunting &lt; 5 with intervention</b> (based on anticipated 35% reduction in prevalence as documented in Lancet 2008 series on maternal & child nutrition) (= prevalence of stunting <5 in absence of intervention * 0.65) | 0.29 |
| <b># &lt; 5 stunted (millions) in population with intervention</b> (= # of children <5 reached in priority countries * prevalence of stunting <5 with intervention (0.29))  | 8.9  |
| <b># of cases of stunting prevented (million)</b> (= #<5 stunted in population in absence of intervention - #<5 stunted in population with intervention)  | 4.8  |
| <b>Per year</b> (= # of cases stunting prevented (million) / number of fiscal years 5)  | 0.96 |

**\*\*Baseline populations are from FTF priority countries (minus Nicaragua, Honduras, Tajikistan)**

**\*\*Baseline populations do not include India. We plan to invest N funds in UP and J, home to 30 million children, but would not anticipate being able to reach scale and did not want to drastically inflate numbers.**