## Appendix D. Data Quality Tables

Table DQ.1: Age distribution of household population
Single-year age distribution of household population by sex (weighted), Thailand, 2005-2006

| Age | Males |  | Females |  | Age | Males |  | Females |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Percent | Number | Percent |  | Number | Percent | Number | Percent |
| 0 | 512,449 | 1.6 | 466,822 | 1.4 | 43 | 470,418 | 1.5 | 532,075 | 1.6 |
| 1 | 503,998 | 1.6 | 476,728 | 1.4 | 44 | 438,677 | 1.4 | 508,829 | 1.5 |
| 2 | 478,375 | 1.5 | 474,726 | 1.4 | 45 | 579,790 | 1.8 | 588,619 | 1.8 |
| 3 | 481,875 | 1.5 | 499,775 | 1.5 | 46 | 440,936 | 1.4 | 462,940 | 1.4 |
| 4 | 495,923 | 1.6 | 466,623 | 1.4 | 47 | 362,961 | 1.1 | 473,843 | 1.4 |
| 5 | 408,691 | 1.3 | 390,169 | 1.2 | 48 | 449,538 | 1.4 | 539,363 | 1.6 |
| 6 | 490,804 | 1.5 | 445,910 | 1.3 | 49 | 428,603 | 1.3 | 376,668 | 1.1 |
| 7 | 452,268 | 1.4 | 440,124 | 1.3 | 50 | 424,185 | 1.3 | 466,501 | 1.4 |
| 8 | 544,392 | 1.7 | 560,229 | 1.7 | 51 | 309,115 | 1.0 | 345,344 | 1.0 |
| 9 | 554,321 | 1.7 | 494,645 | 1.5 | 52 | 373,161 | 1.2 | 398,611 | 1.2 |
| 10 | 551,230 | 1.7 | 514,213 | 1.6 | 53 | 358,766 | 1.1 | 403,282 | 1.2 |
| 11 | 535,912 | 1.7 | 504,397 | 1.5 | 54 | 329,969 | 1.0 | 336,080 | 1.0 |
| 12 | 530,072 | 1.7 | 505,671 | 1.5 | 55 | 295,088 | 0.9 | 350,464 | 1.1 |
| 13 | 515,467 | 1.6 | 515,111 | 1.6 | 56 | 326,245 | 1.0 | 321,323 | 1.0 |
| 14 | 529,824 | 1.7 | 507,171 | 1.5 | 57 | 252,675 | 0.8 | 263,301 | 0.8 |
| 15 | 622,495 | 1.9 | 573,863 | 1.7 | 58 | 274,113 | 0.9 | 307,201 | 0.9 |
| 16 | 529,100 | 1.7 | 534,624 | 1.6 | 59 | 200,817 | 0.6 | 233,316 | 0.7 |
| 17 | 525,595 | 1.6 | 541,212 | 1.6 | 60 | 287,088 | 0.9 | 326,190 | 1.0 |
| 18 | 588,959 | 1.8 | 495,222 | 1.5 | 61 | 166,289 | 0.5 | 182,726 | 0.6 |
| 19 | 411,616 | 1.3 | 421,606 | 1.3 | 62 | 203,355 | 0.6 | 197,365 | 0.6 |
| 20 | 551,801 | 1.7 | 501,073 | 1.5 | 63 | 219,413 | 0.7 | 256,033 | 0.8 |
| 21 | 507,360 | 1.6 | 479,511 | 1.4 | 64 | 157,122 | 0.5 | 205,298 | 0.6 |
| 22 | 533,110 | 1.7 | 524,415 | 1.6 | 65 | 208,366 | 0.7 | 267,356 | 0.8 |
| 23 | 587,533 | 1.8 | 533,469 | 1.6 | 66 | 157,575 | 0.5 | 195,239 | 0.6 |
| 24 | 519,493 | 1.6 | 585,321 | 1.8 | 67 | 175,224 | 0.5 | 188,965 | 0.6 |
| 25 | 589,467 | 1.8 | 567,342 | 1.7 | 68 | 156,822 | 0.5 | 175,358 | 0.5 |
| 26 | 494,925 | 1.5 | 526,702 | 1.6 | 69 | 127,971 | 0.4 | 154,242 | 0.5 |
| 27 | 460,353 | 1.4 | 504,896 | 1.5 | 70 | 125,581 | 0.4 | 164,910 | 0.5 |
| 28 | 576,462 | 1.8 | 511,646 | 1.5 | 71 | 92,297 | 0.3 | 116,820 | 0.4 |
| 29 | 575,854 | 1.8 | 551,166 | 1.7 | 72 | 140,494 | 0.4 | 157,785 | 0.5 |
| 30 | 612,825 | 1.9 | 557,644 | 1.7 | 73 | 108,146 | 0.3 | 143,242 | 0.4 |
| 31 | 470,908 | 1.5 | 588,811 | 1.8 | 74 | 101,445 | 0.3 | 125,181 | 0.4 |
| 32 | 513,802 | 1.6 | 568,384 | 1.7 | 75 | 78,314 | 0.2 | 123,856 | 0.4 |
| 33 | 511,952 | 1.6 | 529,129 | 1.6 | 76 | 76,383 | 0.2 | 84,856 | 0.3 |
| 34 | 567,570 | 1.8 | 552,776 | 1.7 | 77 | 54,901 | 0.2 | 82,747 | 0.2 |
| 35 | 543,581 | 1.7 | 560,505 | 1.7 | 78 | 82,643 | 0.3 | 99,518 | 0.3 |
| 36 | 546,085 | 1.7 | 614,668 | 1.9 | 79 | 43,419 | 0.1 | 52,681 | 0.2 |
| 37 | 539,350 | 1.7 | 584,068 | 1.8 | 80+ | 274,068 | 0.9 | 445,461 | 1.3 |
| 38 | 530,655 | 1.7 | 589,906 | 1.8 | DK/Missing |  |  |  |  |
| 39 | 491,022 | 1.5 | 518,062 | 1.6 |  |  |  |  |  |
| 40 | 597,915 | 1.9 | 582,469 | 1.8 | Total | 31,951,196 | 100.0 | 33,112,873 | 100.0 |
| 41 | 484,105 | 1.5 | 576,561 | 1.7 |  |  |  |  |  |
| 42 | 529,728 | 1.7 | 521,921 | 1.6 |  |  |  |  |  |

Typical data quality issues: Heaping on ages with digits ending with 0 and 5 . If age reporting is good, the curve to be produced from these numbers should be smooth. The table should also provide insights into overreporting-underreporting at certain age groups or intervals, and the extent of missing information on age.

## Table DQ.2: Age distribution of eligible and interviewed women

Household population of women age 10-54, interviewed women age 15-49, and percentage of eligible women who were interviewed (weighted), by five-year age group, Thailand, 2005-2006

|  | Household population of women age 10-54 | Interviewed women age$\qquad$ 15-49 |  | Percentage of eligible women interviewed |
| :---: | :---: | :---: | :---: | :---: |
|  | Number | Number | Percent |  |
| Age |  |  |  |  |
| 10-14 | 2,546,564 | na | na | na |
| 15-19 | 2,566,527 | 2,542,192 | 13.7 | 99.1 |
| 20-24 | 2,623,789 | 2,598,520 | 14.0 | 99.0 |
| 25-29 | 2,661,753 | 2,639,148 | 14.2 | 99.2 |
| 30-34 | 2,796,744 | 2,788,662 | 15.0 | 99.7 |
| 35-39 | 2,867,209 | 2,842,828 | 15.3 | 99.1 |
| 40-44 | 2,721,855 | 2,707,544 | 14.6 | 99.5 |
| 45-49 | 2,441,433 | 2,423,234 | 13.1 | 99.3 |
| 50-54 | 1,949,818 | na | na | na |
| 15-49 | 18,679,308 | 18,542,128 | 100.0 | 99.3 |

Typical data quality issues: In countries with growing populations, the percentages in each age group should decline with age (Columns 2 and 4). The last column shows whether the survey was less effective in interviewing certain age groups - typically, some surveys fail to interview the younger women, sometimes because of problems in sample implementation, sometimes because of interviewers' reluctance to interview young women. These figures should be high, preferably over 95 percent, or at least 90 percent, and should not vary much by age.

Note: Weights for both household population of women and interviewed women are population weights. Age is based on the household schedule. Table should be run unweighted if major problems are identified.

## Table DQ.3: Age distribution of eligible and interviewed under-5s

Household population of children age 0-4, children whose mothers/caretakers were interviewed, and percentage of under-5 children whose mothers/caretakers were interviewed (unweighted), by five-year age group, Thailand, 2005-2006

|  | Household population <br> of children age 0-7 |  | Interviewed children age 0-4 | Percentage of <br> eligible children <br> interviewed |
| :--- | :---: | :---: | :---: | :---: |
| Number |  | Number | Percent |  |
| Age | 1,880 | 1,878 | 20.0 | 99.9 |
| 0 | 1,951 | 1,944 | 20.7 | 99.6 |
| 1 | 1,862 | 1,854 | 19.7 | 99.6 |
| 2 | 1,921 | 1,914 | 20.3 | 99.6 |
| 3 | 1,830 | 1,819 | 19.3 | 99.4 |
| 4 | 1,849 | . | . | . |
| 5 | 2,135 | . | . | . |
| 6 | 2,090 | . | . | . |
| 7 | 9,444 | 9,409 | 100.0 | 99.6 |
| $0-4$ |  |  |  |  |

Typical data quality issues: The table is intended to provide information on the efficiency of the survey in collecting information on under-5s. Distribution of children by age in the household questionnaire should be smooth, with little or no heaping on age 5, which could mean out-transference of children age 0-4 to outside the eligibility range. Percentages in the last column (completion rates) should be over 90, preferably over 95.

Note: Weights for both household population of children and interviewed children are household weights. Age is based on the household schedule. Table should be run unweighted if major problems are identified.

## Table DQ.3: Age distribution of eligible and interviewed under-5s

Household population of children age 0-4, children whose mothers/caretakers were interviewed, and percentage of under-5 children whose mothers/caretakers were interviewed (unweighted), by five-year age group, Thailand, 2005-2006

|  | Household population <br> of children age 0-7 |  | Interviewed children age 0-4 | Percentage of <br> eligible children <br> interviewed |
| :--- | :---: | :---: | :---: | :---: |
| $n$ | Number |  | Number | Percent |

Typical data quality issues: The table is intended to provide information on the efficiency of the survey in collecting information on under-5s. Distribution of children by age in the household questionnaire should be smooth, with little or no heaping on age 5 , which could mean out-transference of children age $0-4$ to outside the eligibility range.
Percentages in the last column (completion rates) should be over 90, preferably over 95.

Note: Weights for both household population of children and interviewed children are household weights. Age is based on the household schedule. Table should be run unweighted if major problems are identified.

Table DQ.4: Age distribution of under-5 children
Age distribution of under-5 children by 3-month groups (weighted), Thailand, 2005-2006

|  | Males |  | Females |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Percent | Number | Percent | Number | Percent |
| Age in months |  |  |  |  |  |  |
| 0-2 | 91,640 | 3.7 | 104,708 | 4.4 | 196,348 | 4.1 |
| 3-5 | 142,198 | 5.8 | 114,343 | 4.8 | 256,541 | 5.3 |
| 6-8 | 147,171 | 6.0 | 113,781 | 4.8 | 260,953 | 5.4 |
| 9-11 | 122,824 | 5.0 | 120,614 | 5.1 | 243,437 | 5.0 |
| 12-14 | 125,275 | 5.1 | 122,045 | 5.1 | 247,321 | 5.1 |
| 15-17 | 132,465 | 5.4 | 127,673 | 5.4 | 260,138 | 5.4 |
| 18-20 | 113,534 | 4.6 | 126,199 | 5.3 | 239,733 | 5.0 |
| 21-23 | 122,818 | 5.0 | 104,853 | 4.4 | 227,670 | 4.7 |
| 24-26 | 127,322 | 5.2 | 114,787 | 4.8 | 242,109 | 5.0 |
| 27-29 | 124,029 | 5.0 | 127,515 | 5.4 | 251,544 | 5.2 |
| 30-32 | 131,746 | 5.3 | 126,820 | 5.3 | 258,566 | 5.3 |
| 33-35 | 104,529 | 4.2 | 104,370 | 4.4 | 208,899 | 4.3 |
| 36-38 | 110,917 | 4.5 | 120,821 | 5.1 | 231,738 | 4.8 |
| 39-41 | 132,824 | 5.4 | 126,972 | 5.3 | 259,796 | 5.4 |
| 42-44 | 113,531 | 4.6 | 111,247 | 4.7 | 224,778 | 4.6 |
| 45-47 | 122,105 | 5.0 | 137,061 | 5.8 | 259,165 | 5.4 |
| 48-50 | 124,370 | 5.0 | 118,792 | 5.0 | 243,162 | 5.0 |
| 51-53 | 121,730 | 4.9 | 117,305 | 4.9 | 239,036 | 4.9 |
| 54-56 | 121,113 | 4.9 | 118,453 | 5.0 | 239,566 | 5.0 |
| 57-59 | 130,730 | 5.3 | 116,451 | 4.9 | 247,181 | 5.1 |
| Total | 2,462,868 | 100.0 | 2,374,812 | 100.0 | 4,837,680 | 100.0 |

Typical data quality issues: The table is intended to provide information on the quality of age reporting for under-5s. In fact, the information is collected by asking the date of birth of children in the under-5 questionnaire, which is later converted into ages during data processing and analysis. The distribution should be smooth. Poor interviewing will reveal itself in heaping on certain ages.

Table DQ.5: Heaping on ages and periods
Age and period ratios at boundaries of eligibility by type of information collected (weighted), Thailand, 2005-2006

|  | Age and period ratios* |  |  | Eligibility boundary (lower-upper) | Module or questionnaire |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Males | Females | Total |  |  |
| Age in household questionnaire |  |  |  |  |  |
| 1 | 1.01 | 1.01 | 1.01 |  |  |
| 2 | 0.98 | 0.98 | 0.98 | Lower | Child discipline and child disability |
| 3 | 0.99 | 1.04 | 1.02 |  |  |
| 4 | 1.07 | 1.03 | 1.05 | Upper | Under-5 questionnaire |
| 5 | 0.88 | 0.90 | 0.89 | Lower | Child labour and education |
| 6 | 1.09 | 1.05 | 1.07 |  |  |
| 8 | 1.05 | 1.12 | 1.09 |  |  |
| 9 | 1.01 | 0.95 | 0.98 | Upper | Child disability |
| 10 | 1.01 | 1.02 | 1.01 |  |  |
| 13 | 0.98 | 1.01 | 1.00 |  |  |
| 14 | 0.95 | 0.95 | 0.95 | Upper | Child labour and child discipline |
| 15 | 1.11 | 1.07 | 1.09 | Lower | Women's questionnaire |
| 16 | 0.95 | 0.97 | 0.96 |  |  |
| 17 | 0.96 | 1.03 | 1.00 | Upper | Orphaned and vulnerable children |
| 18 | 1.03 | 1.11 | 1.07 |  |  |
| 23 | 1.07 | 0.97 | 1.02 |  |  |
| 24 | 0.92 | 1.04 | 0.98 | Upper | Education |
| 25 | 1.10 | 1.01 | 1.06 |  |  |
| 48 | 1.09 | 1.16 | 1.13 |  |  |
| 49 | 0.99 | 0.82 | 0.90 | Upper | Women's questionnaire |
| 50 | 1.10 | 1.18 | 1.14 |  |  |
| Age in women's questionnaire |  |  |  |  |  |
| 23 | na | 0.98 | na |  |  |
| 24 | na | 1.04 | na | Upper | Sexual behaviour |
| 25 | na | 1.01 | na |  | (This module not include in questionnaire) |
| Months since last birth in women's questionnaire |  |  |  |  |  |
| 6-11 | na | 1.00 | na |  |  |
| 12-17 | na | 1.05 | na |  |  |
| 18-23 | na | 0.91 | na | Upper | Tetanus toxoid and maternal and child health |
| 24-29 | na | 1.09 | na |  |  |
| 30-35 | na | 0.92 | na |  |  |

* Age or period ratios are calculated as $x /\left(\left(x_{n-1}+x_{n}+x_{n+1}\right) / 3\right)$, where $x$ is age or period.

Typical data quality issues:Age and period ratios in the table are calculated for two purposes: To check for evidence of heaping on certain periods or ages, particularly on those at the boundaries of eligibility, and to check if interviewers had transferred cases out of eligibility intervals. The table is indicative of the quality of fieldwork. Interviewers sometimes "transfer out" cases so as to avoid extra work - for instance, interviewers may trsnafer the age a 15 year-old woman to 14 to avoid an individual interview, in which case the age ratio on age 15 will be depressed (a deficit of females at age 15) and the age ratio on age 14 significantly higher than 1.00 .

## Table DQ.6: Completeness of reporting

Percentage of observations missing information for selected questions and indicators (weighted), Thailand, 2005-2006

| Questionnaire and Subject | Reference group | Percent with missing information* | Number of cases |
| :---: | :---: | :---: | :---: |
| Age |  |  |  |
| Salt testing | All households surveyed | 0.0 | 18,031,070 |
| Women |  |  |  |
| Date of Birth | All women age 15-49 |  |  |
| Month only |  | 4.9 | 18,542,128 |
| Month and year missing |  | - | 18,542,128 |
| Date of first birth | All women age 15-49 with at least one live birth |  |  |
| Month only |  | 2.3 | 11,950,256 |
| Month and year missing |  | 1.6 | 11,950,256 |
| Completed years since first birth | All women age 15-49 with at least one live birth | - | 242,669 |
| Date of last birth | All women age 15-49 with at least one live birth |  |  |
| Month only |  | - | 11,950,256 |
| Month and year missing |  | - | 11,950,256 |
| Date of first marriage/union | All ever married women age 15-49 |  |  |
| Month only |  | 18.7 | 13,544,028 |
| Month and year missing |  | 27.4 | 13,544,028 |
| Age at first marriage/union | All ever married women age 15-49 | 0.3 | 13,544,028 |
| Under-5 |  |  |  |
| Date of Birth | All under five children surveyed |  |  |
| Month only |  | - | 4,837,680 |
| Month and year missing |  | - | 4,837,680 |
| Anthropometry | All under five children surveyed |  |  |
| Height |  |  |  |
| Weight |  | 2.5 | 4,837,680 |
| Height or Weight |  | 2.9 | 4,837,680 |
|  |  | 2.9 | 4,837,680 |

[^0]Typical data quality issues: Surveys always have cases with missing information. The extent of missing information is important, because it can result in biased results if such proportions are high. Particularly informative is the extent of missing information on measurements, ages, dates of events.

Table DQ.7: Presence of mother in the household and the person interviewed for the under-5 questionnaire
Distribution of children under five by whether the mother lives in the same household, and the person interviewed for the under-5 questionnaire (weighted), Thailand, 2005-2006

|  | Mother in the household |  |  |  | Mother not in the household |  |  |  | Total | $\begin{aligned} & \text { Number of } \\ & \text { children aged } \\ & 0-4 \text { years } \\ & \hline \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mother interviewed | Father interviewed | Other adult female interviewed | Other adult male interviewed | Father interviewed | Other adult female interviewed | Other adult male interviewed | Child(<15) interviewed |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |
| 0 | 84.6 | 0.0 | - | - | 0.1 | 15.2 | 0.1 | 0.0 | 100.0 | 979,271 |
| 1 | 78.9 | 0.0 | - | - | 0.1 | 20.4 | 0.5 | 0.0 | 100.0 | 980,725 |
| 2 | 75.0 | 0.0 | - | - | 0.5 | 23.8 | 0.6 | 0.0 | 100.0 | 953,101 |
| 3 | 76.5 | 0.0 | - | - | 1.2 | 21.8 | 0.6 | 0.0 | 100.0 | 981,650 |
| 4 | 77.1 | 0.0 | - | - | 1.3 | 20.7 | 0.9 | 0.0 | 100.0 | 962,546 |
| Total | 78.5 | 0.0 |  |  | 0.6 | 20.4 | 0.5 | 0.0 | 100.0 | 4,857,293 |

Typical data quality issues: The under-5 questionnaire should be administered to the mother, if the mother was in the household.
The table is informative on how the questionnaire was administered during the fieldwork. Not all information will have been collected from mothers, but cases where the mother is in the household but somebody else was interviewed can be problematic.
Table DQ.8: School attendance by single age
Distribution of household population age 5-24 by educational level and grade attended in the current year (weighted), Thailand, 2005-2006

|  |  | Primary school |  |  |  |  |  | Secondary school |  |  |  |  |  | Higher | Non-standard curriculum | Not <br> Don't attending know school |  | Total | Number |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Preschool | Grade 1 | Grade 2 | Grade 3 | Grade 4 | 4 Grade 5 | 5 Grade 6 | Grade 1 | Grade 2 | Grade 3 | Grade 4 | Grade 5 | Grade 6 |  |  |  |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | 98.7 | 0.8 | 0.1 | - | 0.0 | 0.1 | - | - | - | - | - | - | - | - | 0.1 | - | 0.2 | 100.0 | 798,860 |
| 6 | 80.4 | 18.1 | 1.0 | 0.2 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | 0.0 | 100.0 | 936,714 |
| 7 | 8.4 | 70.3 | 19.6 | 1.1 | 0.4 | - | - | - | - | - | - | - | - | - | 0.0 | - | 0.1 | 100.0 | 892,392 |
| 8 | 0.6 | 7.3 | 67.5 | 21.6 | 2.2 | 0.7 | - | - | - | - | - | - | - | - | 0.0 | - | 0.1 | 100.0 | 1,104,622 |
| 9 | 0.1 | 0.4 | 7.7 | 69.7 | 20.9 | 1.0 | 0.2 | - | - | - | - | - | - | - | 0.0 | - | 0.1 | 100.0 | 1,048,966 |
| 10 | 0.0 | 0.2 | 0.5 | 7.9 | 67.2 | 23.1 | 1.0 | - | - | - | - | - | - | - | - | - | 0.1 | 100.0 | 1,065,444 |
| 11 | 0.1 | 0.2 | 0.4 | 1.2 | 8.9 | 67.9 | 20.2 | 0.8 | 0.2 | 0 | - | - | 0.0 | - | 0.0 | - | 0.2 | 100.0 | 1,040,309 |
| 12 | - | 0.0 | 0.1 | 0.3 | 1.8 | 10.0 | 65.8 | 18.4 | 2.8 | 0 | 0.0 | - | - | - | 0.0 | - | 0.6 | 100.0 | 1,035,743 |
| 13 | - | 0.0 | 0.1 | 0.0 | 0.3 | 1.6 | 9.6 | 62.6 | 22.6 | 1 | 0.0 | - | - | - | 0.0 | - | 1.9 | 100.0 | 1,030,578 |
| 14 | - | 0.0 | 0.2 | 0.3 | - | 0.2 | 1.3 | 7.5 | 62.7 | 20 | 1.1 | 0.1 | - | - | - | - | 6.3 | 100.0 | 1,036,996 |
| 15 | - | - | - | - | - | - | 0.2 | 0.8 | 6.7 | 66 | 14.2 | 0.6 | 0.3 | 0.1 | - | - | 10.9 | 100.0 | 1,196,358 |
| 16 | - | - | - | - | 0.1 | 0.1 | 0.4 | 0.4 | 2.5 | 11 | 51.1 | 11.7 | 2.3 | 0.3 | - | - | 20.7 | 100.0 | 1,063,724 |
| 17 | - | - | - | 0.0 | - | - | - | 0.1 | 0.3 | 3 | 9.3 | 45.0 | 12.1 | 0.8 | - | - | 30.0 | 100.0 | 1,066,807 |
| 18 | - | - | 0.1 | - | - | - | - | 0.1 | 0.1 | 1 | 3.5 | 15.9 | 38.2 | 6.9 | - | - | 34.4 | 100.0 | 1,084,181 |
| 19 | - | - | - | - | - | 0.0 | 0.1 | 0.1 | 0.1 | 1 | 1.9 | 3.5 | 10.3 | 25.7 | - | - | 57.5 | 100.0 | 833,222 |
| 20 | - | - | - | - | - | - | - | - | 0.0 | 0 | 0.7 | 1.1 | 2.3 | 27.7 | - | - | 67.7 | 100.0 | 1,052,874 |
| 21 | - | - | - | - | - | - | - | 0.0 | 0.1 | 0 | 0.9 | 0.3 | 1.8 | 27.1 | - | - | 69.5 | 100.0 | 986,871 |
| 22 | - | - | - | - | - | - | - | 0.1 | 0.1 | 0 | 0.8 | 0.3 | 0.7 | 16.1 | - | - | 81.6 | 100.0 | 1,057,525 |
| 23 | - | - | - | - | - | - | - | 0.1 | 0.1 | 0 | 0.3 | 0.0 | 0.2 | 6.0 | - | - | 93.2 | 100.0 | 1,121,002 |
| 24 | - | - | - | - | - | - | 0.1 | - | - | 0 | 0.1 | 0.1 | 0.3 | 5.5 | - | - | 93.7 | 100.0 | 1,104,815 |

[^1]
## Table DQ.9: Sex ratio at birth among children ever born and living

Sex ratio at birth among children ever born, children living, and deceased children, by age of women (weighted), Thailand, 2005-2006

|  | Children Ever Born |  |  | Children Living |  |  | Children deceased |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number of sons ever born | Number of daughters ever born | $\begin{aligned} & \text { Sex } \\ & \text { ratio } \end{aligned}$ | Number of sons living | Number of daughters living | $\begin{aligned} & \text { Sex } \\ & \text { ratio } \end{aligned}$ | Number of deceased sons | Number of deceased daughters | $\begin{aligned} & \text { Sex } \\ & \text { ratio } \end{aligned}$ | Number of women |
| Age |  |  |  |  |  |  |  |  |  |  |
| 15-19 | 114,548.1 | 85,888.5 | 1.3 | 113,054 | 85,888 | 1.3 | 1,494 | - |  | 2,542,192 |
| 20-24 | 640,643.0 | 655,798.8 | 1.0 | 630,850 | 654,319 | 1.0 | 9,793 | 1,479 | 7 | 2,598,520 |
| 25-29 | 1,309,274.5 | 1,179,727.1 | 1.1 | 1,301,082 | 1,159,349 | 1.1 | 8,192 | 20,378 | 0 | 2,639,148 |
| 30-34 | 2,074,026.1 | 1,956,630.6 | 1.1 | 2,035,725 | 1,936,896 | 1.1 | 38,301 | 19,734 | 2 | 2,788,662 |
| 35-39 | 2,589,721.7 | 2,480,728.2 | 1.0 | 2,527,934 | 2,449,024 | 1.0 | 61,787 | 31,704 | 2 | 2,842,828 |
| 40-44 | 2,812,055.0 | 2,685,799.9 | 1.0 | 2,710,172 | 2,628,372 | 1.0 | 101,883 | 57,428 | 2 | 2,707,544 |
| 45-49 | 2,830,224.5 | 2,621,132.3 | 1.1 | 2,671,757 | 2,525,168 | 1.1 | 158,467 | 95,964 | 2 | 2,423,234 |
| Total | 12,370,492.8 | 11,665,705.4 | 1.1 | 11,990,575 | 11,439,018 | 1.0 | 379,918 | 226,687 | 2 | 18,542,128 |

Typical data quality issues: Universally, the sex ratio among live births is around 1.05, typically ranging from 1.03 to 1.07 in sizeable populations (with the exception of populations where sex-selective abortions is practiced). The values in column 3 should be within these ranges. However, since sample surveys are influenced by chance fluctuations, one should be looking for systematically low or high ratios (in several countries, very young daughters may not be reported, or deaths of males may not be reported). In most populations, death rates at early ages are higher for males than females - hence, the sex ratios among deceased children (Column 6) should also be above 1.

## Table DQ.10: Distribution of women by time since last birth

Distribution of women aged 15-49 with at least one live birth, by months since last birth (weighted), Thailand, 2005-2006

| Months since last birth |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Age | Number | Percent | Age | Number | Percent |
| 0 | 54,496 | 2.1 | 18 | 74,080 | 2.8 |
| 1 | 74,449 | 2.9 | 19 | 70,734 | 2.7 |
| 2 | 105,540 | 4.1 | 20 | 50,110 | 1.9 |
| 3 | 97,519 | 3.8 | 21 | 49,867 | 1.9 |
| 4 | 83,988 | 3.2 | 22 | 81,433 | 3.1 |
| 5 | 72,748 | 2.8 | 23 | 60,636 | 2.3 |
| 6 | 87,106 | 3.3 | 24 | 80,230 | 3.1 |
| 7 | 85,152 | 3.3 | 25 | 58,790 | 2.3 |
| 8 | 82,755 | 3.2 | 26 | 59,775 | 2.3 |
| 9 | 76,197 | 2.9 | 27 | 76,432 | 2.9 |
| 10 | 83,331 | 3.2 | 28 | 66,415 | 2.6 |
| 11 | 65,957 | 2.5 | 29 | 79,622 | 3.1 |
| 12 | 75,962 | 2.9 | 30 | 64,003 | 2.5 |
| 13 | 72,219 | 2.8 | 31 | 66,687 | 2.6 |
| 14 | 90,380 | 3.5 | 32 | 77,142 | 3.0 |
| 15 | 69,839 | 2.7 | 33 | 53,982 | 2.1 |
| 16 | 85,281 | 3.3 | 34 | 53,643 | 2.1 |
| 17 | 73,022 | 2.8 | 35 | 39,962 | 1.5 |
|  |  |  | Total | 2,600,338 | 100.0 |

Typical data quality issues: Months since last birth may be heaped on periods of 6 months, 12 months, 24 months etc. In particular, the heaping on 24 months is problematic, since some women had a birth in the last 2 years, but did not decklate tham so.
$\left.(A 40)\right|_{\text {Thailand Multiple Indicator Cluster Survey December 2005 - February } 2006}$

Figure

Scatterplot of weight ( Y -axis) by height ( x -axis), unweighted
Scatterplot of weights of children by age in months
Scatterplot of heights of children by age in months

Figures 1-3 are intended to provide a visual insight into the quality of anthropometric measurements. The data points should be concentrated along a diagonal. Outliers can be easily spotted visually. Remember that data problems may be due to poor reporting of age, or poor measurement of heights or weights, or any combination of the three.

Number of male household population (Y-axis) by single ages (X-axis) (Line graph) (unweighted and weighted)

Number of female household population (Y-axis) by single ages (X-axis) (Line graph) (unweighted and weighted)

Figures 4-5 are based on Table DQ.1, and are intended to provide information on the extent of age heaping, deficits of household population at certain ages or age intervals. Both unweighted and weighted distributions are shown.

Population pyramid, Thailand, 2005-2006





$\stackrel{\square}{8}$



[^0]:    * Includes "Don't know" responses

[^1]:    Typical data quality issues. The table could be used to look at the outliers. Data entry programs do not check age versus grade. If data has been collected and entered grade 6 of secondary school etc. Before running the table grades should be adapted to the system in the country.

    Note: Levels and grades refer to the most recent school year if data collection was completed between school years

