# PROJTFR32

Version 5.20

**Step-By-Step Guide**

(1) Make sure you have already created one national-level total fertility rate (TFR) time series.[1] Begin by extracting the national TFR pertaining to a selected base year for which subnational area TFR estimates are available. The base year, which should be entered in cell B8 (see Figure 1), may not be the same year to which the base population pertains. After the base year TFR estimate has been extracted, extract projected TFRs for points in time 5, 10, 15, 20, and 25 years after the base year. If needed, the launch or first projection year (Figure 1, cell C13) can be manually changed, and the remaining projected years will then be 5, 10, 15, and 20 years after that year.

**Figure 1. INPUT & OUTPUT Sheet**

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 3 | Table | | | | | | |
| 4 | Republic of Demographica | | | | | | |
| 5 | Total Fertility Rate (TFR) Projection for Subnational Areas | | | | | | |
| 6 | | | | | | | |
| 7 | A. Projection Parameters | | | | | | |
| 8 | **Base year:** | 2000 | | | | | |
| 9 | **Limit TFR:** | 1.7000 | | | | | |
| 10 | | | | | | | |
| 11 | B. National-level Input | | | | | | |
| 12 | **Area** | **Base year TFR** | **Projected values** | | | | |
| 13 | | **2000** | **2005** | **2010** | **2015** | **2020** | **2025** |
| 14 | | | | | | | |
| 15 | National | 3.6800 | 2.7300 | 2.3300 | 2.1300 | 2.0500 | 2.0200 |
| 16 | | | | | | | |
| 17 | C. Subnational-level Input | | D. Output | | | | |
| 18 | | **Base year TFR** | **Output projections for subnational areas** | | | | |
| 19 | **Subnational area** | **2000** | **2005** | **2010** | **2015** | **2020** | **2025** |
| 20 | | | | | | | |
| 21 | Region 1 | 3.7520 | 2.7675 | 2.3529 | 2.1456 | 2.0627 | 2.0316 |
| 22 | Region 2 | 3.5541 | 2.6645 | 2.2899 | 2.1027 | 2.0277 | 1.9997 |
| 23 | Region 3 | 3.6674 | 2.7234 | 2.3260 | 2.1273 | 2.0478 | 2.0180 |
| 24 | | | | | | | |

HELP | INPUT & OUTPUT

(2) One workbook will be used to generate projections for all areas. In the PROJTFR32 sheet "INPUT & OUTPUT," specify a limit TFR level in cell B9. This figure is used to compute the complements of the TFR values for the country as well as for subareas.

[1] This time series, or set of dated TFR values, could be the output of the U.S. Census Bureau's PAS workbook for projecting total fertility rate, TFRLGST, or a time series derived in some other manner. The Census Bureau's PAS spreadsheets are available from <http://www.census.gov/population/international/software/pas/>.

(3) Enter the national-level base year estimate in cell B15, and the national-level TFR projections in row 15, columns C through G.

(4) Enter the subnational area names in column A and base-year TFRs in column B, rows 21 to 52 (depending on how many subnational areas are in the country you are working with). Delete unneeded placeholder area names and TFR values in range A21..B52. This will ensure that base-year estimates for placeholder subnational areas are not projected forward.

(5) Find output TFRs in columns C through G and rows 21 to 52 (again, depending on how many subnational areas are in the country).