



Demographic Dynamics in Nepal (2011 – 2031): Application to Setting Health Related Population Targets at Palika level

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Title: Demographic Dynamics (2011~2031)

Demographic Projection: 2011~2031

Total Variables: 46

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Raw Data Sources:

- Population Census 2011: Central Bureau of Statistics, Kathmandu, Nepal
- Demographic and Health Surveys (2011, 2016): The DHS Program, USA.
- District Migration Data: Ministry of Labour and Employment, Department of Foreign Employment, Kathmandu, Nepal

Estimation and Projection:

KC Samir, Dhonju HK, and Bajracharya R (2018, in preparation). Demographic Dynamics in Nepal (2011 – 2031): Application to Setting Health Related Population Targets at Palika level. ADRI Working Paper, Shanghai.



KC S, Springer M, Thapa A, & Khanal MN (2016). Projecting Nepal's Demographic Future- How to deal with spatial and demographic heterogeneity. IIASA Working Paper. IIASA, Laxenburg, Austria: WP-16-021

VARIABLE DEFINITIONS

S. No.	Variable Name	Short Name	Definition
Demographic Variables			
Population			
1.	Total	TP	Total population
2.	Male	TMP	Total male population
3.	Female	TFP	Total female population
4.	Children (0-14 Years)	CP	Population of children aged 0 to 14 years
5.	Working Age (15-64 Years)	WAP	Population of working age population aged 15 to 64 years
6.	Elderly Age (65+ Years)	EAP	Population of elderly aged 65 years and above
7.	Women in Reproductive Age (15-49 Years)	WRA	Women in reproductive age, 15 to 49 years old
Births			
8.	Total Births	TB	Total number of births during a five year period calculated by applying age specific fertility rates to the mid-period population of woman in reproductive age
9.	Total Fertility Rate (births per woman)	TFR	Total Fertility Rate represents average number of births per woman. It is calculated as the sum of age specific fertility rates.
10.	Sex Ratio at Birth (male per female births)	SRB	Sex ration at birth calculated as a ratio of total number of male to female births
11.	Mean Age at Child Bearing	MACB	Mean age at child bearing is calculated as an average of mother's age at birth
12.	Crude Birth Rate (per 1000 population)	CBR	Crude Birth Rate is a ratio of total births during a period by the mid period population
Deaths			
13.	Total Deaths	TD	Total number of deaths during a period calculated by applying age and sex specific survival ratios to the population
14.	Female Life Expectancy at Birth	FLEB	Applying a period age specific mortality rates, the average number of life years a girl born during the period is expected to live
15.	Male Life Expectancy at Birth	MLEB	Applying a period age specific mortality rates, the average number of life years a boy born during the period is expected to live
16.	Infant Mortality Rate	IMR	Infant mortality rate (or ratio) is calculated as a proportion of infants who died before their first birthday and expressed in deaths per 1000 live births
17.	Child Mortality Rate	CMR	Child mortality rate (or ratio) is calculated as a proportion of infants who died between the first and the fifth birthday and expressed in deaths



S. No.	Variable Name	Short Name	Definition
			per 1000 live births
18.	Under 5 Mortality Rate	U5MR	Under 5 mortality rate (or ratio) is calculated as a proportion of infants who died before the fifth birthday and expressed in deaths per 1000 live births
19.	Crude Death Rate (per 1000 population)	CDR	Crude Death Rate is a ratio of total deaths during a period by the mid period population
Migration Flows			
20.	Inter-district In-migration	IDIM	Number of migrants coming in an area from other districts of Nepal during the last five years
21.	Inter-district Out-migration	IDOM	Number of migrants leaving from an area to other districts of Nepal during the last five years
22.	International Immigration	IM	Number of migrants coming in an area from other countries during the last five years, including return migrants
23.	International Emigration	IE	Number of migrants leaving from an area to other countries during the last five years
Dependency and Aging			
24.	Total Dependency Ratio	TDR	Ratio of total dependent population (children 0-14 years old + elderly 65+ years old) to total number of working age population (15-64 years old)
25.	Child Dependency Ratio	CDR	Ratio of children aged 0-14 years old to total number of working age population (15-64 years old)
26.	Old Age Dependency Ratio	OADR	Ratio of elderly aged 65+ years old to total number of working age population (15-64 years old)
27.	Proportion with Remaining Life Expectancy Under 15	RLE15	Proportion of population with remaining life expectancy of less than 15 years
Population Health Targets			
Immunization			
28.	Expected Live Birth	ELB, TP2	Total number of births during a single year period calculated by interpolating five-yearly births
29.	Population aged 00-11 Months	TP3	Population for a given age calculated by interpolating population data by five-yearly age and period
30.	Population aged 02-11 Months	TP4	Population for a given age calculated by interpolating population data by five-yearly age and period
31.	Population aged 12-23 Months	TP5	Population for a given age calculated by interpolating population data by five-yearly age and period
32.	Population aged 00-23 Months	TP6	Population for a given age calculated by interpolating population data by five-yearly age and period



S. No.	Variable Name	Short Name	Definition
33.	Population aged 06-23 Months	TP7	Population for a given age calculated by interpolating population data by five-yearly age and period
34.	Population aged 00-35 Months	TP8	Population for a given age calculated by interpolating population data by five-yearly age and period
35.	Population aged 00-59 Months	TP9	Population for a given age calculated by interpolating population data by five-yearly age and period
36.	Population aged 06-59 Months	TP10	population for a given age calculated by interpolating population data by five-yearly age and period
37.	Population aged 12-59 Months	TP11	Population for a given age calculated by interpolating population data by five-yearly age and period
Children			
38.	Population aged 00-14 Years	TP12	Population for a given age calculated by interpolating population data by five-yearly age and period
Adolescent			
39.	Population aged 10-19 Years	TP13	Population for a given age calculated by interpolating population data by five-yearly age and period
40.	Male Population aged 10-19 Years	TP14	Population for a given age calculated by interpolating population data by five-yearly age and period
41.	Female Population aged 10-19 Years	TP15	Population for a given age calculated by interpolating population data by five-yearly age and period
Reproduction			
42.	Female Population aged 15-44 Years	TP16	Population for a given age calculated by interpolating population data by five-yearly age and period
43.	Women in Reproductive Age(15-49 Years)	TP17	Population for a given age calculated by interpolating population data by five-yearly age and period
44.	Mean Women in Reproductive Age(15-49 Years)	TP18	Population for a given age calculated by interpolating population data by five-yearly age and period
45.	Expected Pregnancy	TP19	Expected number of pregnancy calculated by multiplying applying a factor (based on DHS)
Old Aging			
46.	Population aged 60 Years and above	TP20	Population for a given age calculated by interpolating population data by five-yearly age and period