Nagaland's Demographic Somersault

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ABSTRACT

After two decades of abnormally high growth, Nagaland's population declined during the 2001–2011 period. Nagaland's population shrunk in the absence of war, famine, natural calamities, political disturbance or any significant change in the state's socio-economic characteristics. This is unprecedented in the history of independent India. In light of the above, this study examines the reliability of the Census of Nagaland between 1981 and 2011 by testing the internal consistency of Census population estimates. It also tries to validate the Census estimates using information from other sources like Sample Registration System and National Family Health Surveys. The analysis shows that the Census substantially overestimated the population of Nagaland in 1991 and 2001 and raises questions about the Indian state's institutional capacity to design empirically informed policies.

Keywords: Census, ethnic conflict, migration, Naga JEL Codes: J11, J13, O15, R23

1. INTRODUCTION

The unavailability of reliable information on the smaller states of North-East India impedes social–scientific studies of these states. National level surveys either do not cover the smaller states of the region (various waves of Rural Economic and Demographic Surveys, for instance) or cover them irregularly (for instance, District Level Household and Facility Survey did not cover Nagaland in 2007–08). Even the surveys that cover the region regularly do not have sufficiently representative samples to generate reliable estimates for the smaller states (National Sample Surveys and, until recently, Sample Registration System, for instance). In fact, National Sample Surveys do not cover "villages of Nagaland situated beyond five kilometres of the bus route" (Govt of India 2012: 5). The decennial Census is, therefore, the most important source of demographic and other related information on the smaller states of the North-East, and its reliability is of utmost importance to policy makers and social scientists alike.

Unfortunately, doubts have emerged over the reliability of the Census with regard to the North-East region. The Census has recorded abnormal changes in the population of some states of the region.¹ For instance, Nagaland, the most fecund state in the country between 1981 and 2001, and which registered a decadal population growth rate of 56.08 per cent during 1981–91 and of 64.53 per cent during 1991–2001, recorded negative population growth between 2001 and 2011 (Figure 1).



Figure 1: Decadal Population Growth Rates (in per cent) (1981–2011)



Sources: Sharma and Kar (1997) and Govt of India (2011a).

¹ Between 1901 and 1991, the annual population growth rate of the North-East region (2.24 everywhere) was consistently higher than that of India (1.18 per cent) (Sharma and Kar 1997: 74–76).

The state's population declined from 1,988,636 in 2001 to 1,980,602 in 2011. This is the first time in independent India² that a state has witnessed an absolute decline in population in the absence of wars, famines, natural calamities, political disturbances, or dramatic changes in the socio-economic correlates of fertility (Table 1).³

Growth rate / socio-economic correlate		Naga	aland			In	dia	
conclute								
Population growth rate	1981	1991	2001	2011	1981	1991	2001	2011
Income per capita	50.05	56.08	64.53	-0.47	24.66	23.86	21.54	17.64
Human Development Index	0.328	0.468	NA	NA	0.302	0.381	NA	NA
	(20)	(11)						
Female literacy	40.39	54.75	61.46	76.49	29.76	39.29	53.67	65.46
Female work participation rate	33.2	38	38.1	NA	19.7	22.3	25.7	NA
Infant Mortality Rate	NA	42	38	NA	NA	68	57	NA
Urbanization	15.52	17.21	17.23	28.97	23.31	25.71	26.33	31.16

 Table 1: Some Correlates of Fertility (1981–2011)

Notes:

 (i) 'Population growth rate' includes the estimated populations of Assam for 1981 and Jammu and Kashmir for 1991 where census could not be conducted.

(ii) 'Income per capita' is at constant 1999–2000 prices. The values for 1981, 1991 and 2001 are three year averages (central) of the financial years and the value for 2011 corresponds to that for 2007–08.

(iii) The numerals in parentheses below Nagaland's HDI indicate rank (out of 32 states).

 (iv) 'Female literacy' corresponds to those aged 'seven years and above' and the figures for India exclude Assam in 1981 and Jammu and Kashmir in 1991.

 (v) 'Female Work Participation Rate' for India excludes Assam, Jammu and Kashmir, and Paomata, Mao Maram, and Purul sub-divisions of Senapati district in all the years.

(vi) 'NA' indicates that comparable data is not available.

(vii) The data for 'Infant Mortality Rate' for 1991 and 2001 correspond to the periods 1996–98 and 2003–05, respectively.

Sources:

- (i) Population growth rate and female literacy: Govt of India (2011a and 2011b)
- (ii) Income per capita: Reserve Bank of India (2005 and 2011) and Govt of India (2011c)
- (iii) Human Development Index: Govt of India (2002)

(iv) Female Work Participation Rate: Govt of India (1999a and 2008a)

(v) Infant Mortality Rate: International Institute for Population Sciences and Macro International (2007 and 2009)

(vi) Urbanization: Govt of India (1985a, 1992, and 2011a and 2011b)

² The population of Punjab declined between 1941 and 1951 because of population transfer and unprecedented bloodshed following the partition of British India. Also, there was a decline in the population of two union territories, the Andaman and Nicobar Islands (during 1941–51) and Daman and Diu (during 1951–61), most likely due to out-migration (Govt of India 2011a).

³ The key socio-economic correlates of fertility are income, literacy, level of urbanisation, female work participation and access to public health services (Anker 1978; Barro and Sala-i-Martin 2004: 407–8; and Dreze and Murthi 2001).

While observers drew attention to Nagaland's high growth rate and its developmental consequences as early as the 1970s (Means 1971), the government seems to have taken note of this only recently when it rejected the 2001 Census (Govt of India 2011b: viii). However, despite the government's rejection of the 2001 Census, state and non-state organisations continue to use the flawed population statistics. For instance, the Economic Survey of 2010–11 (Govt of India 2011c: A125) used the wrong population series for Nagaland, which resulted in erroneous estimates of some human development indicators. Similarly, other surveys uncritically refer to the Census of Nagaland as a benchmark (for instance, Centre for the Study of Developing Societies 2008: 3).

Although the dramatic changes in Nagaland's population were discussed extensively in the North-East in the run-up to the 2011 Census (Nagaland Post 2009), social scientists largely ignored the issue. Three possible explanations have emerged from these discussions. First, migration has been invoked to explain the demographic changes. It has been argued that net out-migration from the state could have caused its population to decline between 2001 and 2011 (Chaurasia 2011; Jeermison 2011; and Kundu and Kundu 2011). On the other hand, others have argued that net in-migration was responsible for the high population growth rate between 1991 and 2001 (Rio 2010; Amarjeet Singh 2009). Second, HIV/AIDS prevalence and drug addiction have also been invoked to explain the decline in population between 2001 and 2011 (Jeermison 2011). Third, the struggle among tribes for political power and development funds was cited by the Chief Minister as the reason for the abnormal growth between 1991 and 2001 (Hazarika 2005; Thohe Pou 2011). However, a systematic empirical investigation of these and other plausible explanations has not been conducted so far, to our knowledge.

This paper examines the unexpected decline in Nagaland's population after two decades of abnormally high growth. Section 2 draws attention to the discrepancy between the actual population of Nagaland and its projected population over the past three decades. Section 3 examines the plausibility of the Census population estimates. It tests the internal consistency of Census estimates, and also externally validates the Census using information from the Sample Registration System (SRS) and National Family Health Surveys (NFHS). The final section offers concluding remarks.

2. PAST PROJECTIONS FOR NAGALAND'S POPULATION

The past three censuses (1991, 2001 and 2011) of Nagaland's population defied different expert group projections but nobody seemed to notice the anomalies (Table 2). To begin with, the Expert Committee (1974) underestimated the population of Nagaland in 1991 by about 20 per cent. The underestimation indicates that the dynamics of population growth between 1981 and 1991 were inconsistent with the fertility and mortality conditions

prevailing in the 1960s and 1970s, which the Expert Committee used for their projection. Again, the Technical Group (1988), which based its projection on the socio-economic and demographic conditions in the 1980s and on the 1991 Census, underestimated the population in 2001 by about 14 per cent. Underestimation in 2001 despite the use of an inflated baseline means that the growth between 1991 and 2001 was very high.

Year	Source	Population (in '000)		Error (%)*
	-	Projected	Actual	_
1981	Expert Committee (1974)	714.5	774.9	-7.80
1991	Expert Committee (1974)	957.9	1209.55	-20.80
2001	Technical Group (1988)	1721	1990.0	-13.52
2011	Technical Group (1988)	2185	1980.6	10.32
2011	Technical Group (2001)	2249	1980.6	13.55
2011	PFI-PRB (2006)	2426-2439**	1980.6	22.49-23.14**

Table 2: Actual and Projected Populations of Nagaland (1981–2011)

Notes: * 'Error (%)' is the excess of projected over actual population as a share of actual population.

** PFI-PRB (2006) provides two projections, corresponding to low and high fertility scenarios.

Sources:

- (i) Expert Committee (1974): Govt of India 1978: 158-59
- (ii) Technical Group (1988): Govt of India 1996: 64
- (iii) Technical Group (2001): Govt of India 2006: 35
- (iv) PFI-PRB (2006): Population Foundation of India-Population Research Bureau 2006: 7, 11

While the forecasts for 1991 and 2001 happen to be underestimates vis-à-vis corresponding censuses, the forecast for 2011 is an over-estimate. The Technical Groups on Population Projections constituted in 1988 and 2001 overestimated the 2011 population of Nagaland by about 10 and 14 per cent respectively. The Population Reference Bureau and Population Foundation of India overestimated the 2011 population of Nagaland by about 23 per cent. The present study is a belated attempt to understand the longstanding problems in the Census of Nagaland.

3. FEASIBILITY OF CENSUS POPULATION ESTIMATES

This section examines whether births and deaths and lawful migration can explain the abnormal changes in Nagaland's population. The analysis is restricted to the 1971–2011 period, as the pre- and post-1971 censuses cannot be compared directly—because of the steady expansion of the area of the Naga Hills prior to 1963 and also the increase in coverage of census operations.

3.1 Birth and death rates

Table 3 compiles estimates of crude birth rate from the NFHS and SRS since 1971. The SRS estimates of birth rate for Nagaland are lower than that for India. Although NFHS estimates of birth rate in Nagaland are higher than that for India, they do not vary enough to warrant an abnormally high growth rate of population in one period and negative in the subsequent one.

Period	Data	Nagaland			India				
(average)	Source	Birth rate	Death rate	NGR (0)	NGR (SRS)	Birth rate	Death rate	NGR (0)	NGR (SRS)
1971–1981 (Decadal growth in Nagaland: 50.05)									
1976–1981	SRS	21.88	6.87	24.16	16.07	33.67	13.67	39.26	21.90
1981–1991 (Decadal growth in Nagaland: 56.08)									
1983–1991	SRS	21.41	5.02	23.60	17.65	28.82	10	32.86	20.50
1991–2001 (Decadal growth in Nagaland: 64.53)									
1991–94	SRS	19.45	4.025	21.24	16.54	24.65	8.95	27.57	16.86
1990–92	NFHS-1	31.3	NA	36.10	30.88	28.7	NA	32.71	21.60
1996–98	NFHS-2	30.4	NA	34.91	29.74	24.8	NA	27.76	17.03
2001–2011 (Decadal growth in Nagaland: -0.47)									
2004–09	SRS	16.61	4.25	17.91	13.07	23.3	7.45	25.90	17.03
2003–05	NFHS-3	28.5	NA	32.45	27.07	23.6	NA	26.27	17.38

 Table 3: Birth, Death and Natural Growth Rates (1971–2011)

Notes:

(v) The birth rate is the number of live births per 1000 population and the death rate is the number of deaths per 1000 population.

(vi) The natural growth rate NGR (0) denotes the decadal NGR of 'closed' (no migration) population (assuming zero death rate) and NGR (SRS) (assuming the death rate is the same as the SRS death rate (for the corresponding decade). The NGR has been arrived at by calculating compound growth rate using birth rate (for NGR (0)) and birth and death rates (for NGR (SRS)).

(vii) The figures for 1976–81 for Nagaland are based on the rural sample only; however, the share of rural population in the state's population was 90 and 85 per cent, respectively, in 1971 and 1981.

(viii) 'NA' indicates non-availability of data.

Sources:

- (i) Srivastava (1987)
- (ii) Govt of India (1999b)

(iii) International Institute for Population Sciences and Macro International (2007, p. 78 and 2009, p. 36).

(iv) SRS birth and death rates for 2004–09 (average) have been compiled from SRS Bulletins for the respective year

Table 3 also provides estimates of natural growth rate (NGR) in Nagaland corresponding to NFHS and SRS birth rates for two scenarios for each decade: one assuming zero death rates, NGR (0), and another assuming death rate equal to SRS death rates, NGR (SRS). Even if one assumes a crude death rate of zero, which is impossible, the estimates of birth rates support the observed population growth only if there was substantial in-migration until 2001 and out-migration thereafter. Also, neither the SRS nor the NFHS reported substantial changes in birth and death rates between 1991–2001 and 2001–2011. This rules out the feasibility of explaining the decline in population in 2011 by transition to a low birth-anddeath rates regime. So, the decline has to be explained almost entirely by either substantial out-migration during 2001–2011 and/or overestimation in population in earlier censuses. These possibilities are discussed in the following sub-sections. But before that, ruling out the HIV/AIDS epidemic-based explanation of the decline is imperative.

Though Nagaland is among the six states in India worst affected by HIV/AIDS (Govt of Nagaland 2010: 121), the resultant deaths are too few to explain the dramatic changes in Nagaland's population (Nagaland State AIDS Control Society 2011). Three additional reasons rule out prevalence of HIV/AIDS as the driving force behind population decline during the 2001–2011 period. First, with comparable HIV/AIDS prevalence rates, the populations of Manipur and Andhra Pradesh did not shrink. Second, Nagaland registered spectacular population growth during the 1990s despite a comparable prevalence of HIV/AIDS. Third, population growth was positive in districts with high HIV/AIDS prevalence (Dimapur and Tuensang, for instance) and negative in districts with low HIV/AIDS prevalence (Mon, for instance) (Bachani, Sogarwal and Rao 2011; Govt of India 2011b).

3.2 Migration

Migrants constituted around 5 per cent of the state's population in both 1991 and 2001; only 40 per cent of these migrants were from outside the state (Table 4).⁴ Therefore, migrants from outside Nagaland constituted nearly 2 per cent of its population in both years. Moreover, the share of in-migrants from other states and countries in Nagaland's population has been falling over time, making in-migration an unlikely cause of high population growth during 1981–2001 (Table 4).

In any case, if in-migration was the dominant cause of population growth between 1981 and 2001, then the subsequent absolute decline in population will require that we assume net out-migration from the state. While the migration tables of Census 2011 are not yet available, any account of the absolute decline in Nagaland's population after abnormal growth that is based on out-migration would be implausible for two reasons. One, the number of out-migrants during

⁴ The migration figures correspond to 'migration by place of last residence'. We have taken into account the migrants with a reference period of 0—9 years so that only the individuals who have changed residence between censuses are considered.

2001–2011 is unlikely to out-number the out-migrants from the state during 1971–2001, who add up to only 82,305. Two, in-migration should have increased during 2001–2011 because of the ceasefire between the underground movement and the government, which created an unprecedentedly peaceful environment in the state (South Asia Terrorism Portal nd).

Type of migration	1971	1981	1991	2001
All in-migrants*	12.64	15.33	5.74	4.36
Intra-state**	48.29	62.38	61.96	59.24
Inter-state**	42.16	34.00	35.31	38.74
International**	9.56	3.62	2.73	2.02
In-migrants from outside the state*	6.54	5.77	2.20	1.78

Table 4: Share of Migrants in Nagaland's Population, 1971–2001

Notes: * as proportion of state's total population

** as proportion of in-migrants

Sources: Computations based on

- (i) Govt of India (1976, p. 28, 24)
- (ii) Govt of India (1977, p. 84-85)
- (iii) Govt of India (1985b, p. 34, 48, 50)
- (iv) Govt of India (1988, p. 318-19)
- (v) Govt of India (1997a, p. 52-53)
- (vi) Govt of India (1997b, p. 6, 40, 52)

(vii) Govt of India (nd1 and nd2).

3.3 Births, deaths and migration

The information on birth, death and migration is now combined to check if together these factors can explain census population estimates. The population change between two years, say, 't- τ ' and 't', is given by the following fundamental equation (Preston et al. 2001, p. 2):

$$\Delta N(t-\tau, t) = B(t-\tau, t) - D(t-\tau, t) + NI(t-\tau, t) = NG(t-\tau, t) + NI(t-\tau, \tau)$$
(1)

where $\Delta N(t-\tau,t)$, $B(t-\tau,t)$, $D(t-\tau,t)$, $NG(t-\tau,t)$ and $NI(t-\tau,t)$, respectively denote population change and number of births, deaths, natural growth and net in-migrants between the years t- τ and t. Natural growth and net in-migration in Eq (1) can be decomposed as follows into two components corresponding to '0–9' and '10+' years age groups:

$$\Delta N(t-\tau, t) = NG_{0.9}(t-\tau, t) + NG_{10+}(t-\tau, t) + NI_{0.9}(t-\tau, t) + NI_{10+}(t-\tau, t)$$
(2)

Between the years t- τ and t, the sum of natural growth and net in-migration for the age group '0–9' years equals this group's population at time (let it be denoted by N_{0.9}(t). Also, note that there are no births in the age group '10+' years. So, Eq (2) simplifies to the following, where D₁₀₊(t- τ , t) denotes the number of deaths within '10+' years age group:

$$\Delta N(t-\tau, t) = N_{0.9}(t) + 0 - D_{10+}(t-\tau, t) + NI_{10+}(t-\tau, t)$$
(3)

Eq (3) can be reorganized as follows:

 $D_{10+}(t-\tau, t) = N_{0-9}(t) + NI_{10+}(t-\tau, t) - \Delta N(t-\tau, t)$ (4)

Table 5 compiles the information on changes in population, net in-migrants and the population of the '0–9' years age group. The number of deaths in Table 5 is the number of individuals required to balance the fundamental equation under the assumption of zero deaths among those aged 10 years and above. Therefore, it provides a lower bound of the population overestimate for each census decade. If the population figures reported by the Census since 1971 are reliable, then the number of deaths during the past three census decades must have been negative! The discrepancy, defined as the ratio of people not accounted for to the population at the decade's end, ranges from 4 per cent in 1971–81 to 17 per cent during the 1991–2001 period.

Population/Change	Census decade				
	1971-81	1981–91	1991-2001		
Total population change, all ages	258481	434616	780490		
Net in-migrants, all ages	38227	13797	-16511		
Net in-migrants, 0-9 years	0	3092	-6738		
Net in-migrants, aged 10 years and above	38227	10705	-9773		
End-of-decade population, 0–9 years	189739	295162	445190		
Deaths (among those aged more than 10 years)	-30515	-128749	-345073		
Discrepancy (per cent)	3.94	10.64	17.34		

Table 5: Population Dynamics in Nagaland (1971–2001)

Note: The estimate of discrepancy for 1971–81 is not accurate because we could not find information on out-migrants in the 0–9 year age group and, therefore, assumed zero net in-migration in that age group. However, if we replace 'Net in-migrants, 0–9 years' (0 in the above table) with 'In-migrants, 0–12/0–7 years' (6700/3443), the discrepancy becomes 4.80/4.38 per cent.

Sources: Please see the sources to Table 4.

3.4 Discussion

It can be concluded that demographic factors alone are insufficient to explain the changes in Nagaland's population. Hence, other factors like political–geographic and political– economic factors need to be examined in future work. Our preliminary analysis suggests that the political–geographic hypothesis–people migrate to cope with arbitrary postcolonial boundaries leading to otherwise unexpected shifts in population dynamics– cannot explain the changes in Nagaland's population if only intra-national boundaries are considered. While there is no reliable data on the international aspect of this problem, available evidence does not fully support the political–geographic hypothesis, because it can at best partly explain abnormal growth between 1981 and 2001 without being able to explain the subsequent steep decline in growth.

However, evidence partly supports a political–economic explanation—competing sub-groups of population inflated their numbers to seek greater political representation and, by implication, a greater share in state's resources—of the changes in Nagaland's population between 1991 and 2011. Different Naga tribes seem to have inflated their numbers in the Census of 2001 to avoid loss of political representation to competing tribes and non-tribal plainsmen due to the impending delimitation of constituencies in 2002. Ultimately, inter-tribal conflict and litigation forced deferment of delimitation in Nagaland to until after 2031 (Govt of India 2008b). So, there was no incentive in the 2011 Census to inflate population. Our preliminary analysis suggests that the inflation of population across Kohima, Mokokchung and Tuensang—the three broad geographic and ethnic divisions of Nagaland—in the 2001 Census was related to the expected loss of political representation due to impending delimitation, whereas deflation of population in the Census of 2011 is related to the inflation in the preceding decade. But a definitive conclusion in this regard can be arrived at only after an analysis of abnormalities in the census at the level of assembly constituencies and circles.

4. CONCLUDING REMARKS

Developmental states like India need information on the socio-economic division of their populations to design redistributive policies. And, given their obsession with global rankings, they also need information to compare themselves with other countries. But the official statistics of India are not free of errors. In this paper, we examined a largely ignored surprise in Census 2011, one of the biggest data collection exercises in the world. After two decades of abnormally high growth, Nagaland's population declined during 2001–2011. Our analysis suggests that the Census substantially overestimated the population of Nagaland both in 1991 and 2001. The inconsistencies in successive censuses—the most important source of information about smaller states of India like Nagaland—and the uncritical use of questionable statistics by government agencies raise questions about the Indian state's institutional capacity to design empirically-informed policies.⁵

⁵ The Census is not the only case where official statistics have been questioned. Several questions have been raised about official statistics in other fields in the past year. In July 2011, the Governor of the Reserve Bank of India expressed concern over the quality of statistics collected by government agencies (Subbarao 2011). A few months later, the commerce secretary admitted that India's export figures for the April–October period were inflated by US\$9.4 billion due to a misclassification of certain items and data entry errors (Business Line 2011). Not long afterward, the chief statistician conceded that the accuracy of the Index of Industrial Production is questionable (Financial Express 2011). More recently, the Planning Commission's Deputy Chairman argued that the National Sample Surveys systematically underestimate household consumption (Economic Times 2012).

REFERENCES

- Amarjeet Singh, M. 2009. "A Study on Illegal Immigration into North-East India: The Case of Nagaland." IDSA Occasional Paper No. 8. Institute for Defence Studies and Analyses: New Delhi. Available at http://www.idsa.in/system/files/OccasionalPaper8_NagalandIllegalImmigrationl.pdf (last accessed on March 19, 2012)
- Anker, R. 1978. "An Analysis of Fertility Differentials in Developing Countries." The Review of Economics and Statistics, 60:1, pp. 58–69.
- Bachani, D, R Sogarwal, and K S Rao. 2011. "A Population based Survey on HIV Prevalence in Nagaland, India." SAARC Journal of Tuberculosis Lung Diseases and HIV/AIDS, VI:1, pp. 1-11. Available at http://www.nacoonline.org/upload/Final%20Publications/ Population%20based%20survey%20on%20HIV%20prevalence%20in%20 Nagaland,%20India.pdf (last accessed on March 19, 2012)
- Barro, R J and X Sala-i-Martin. 2004. Economic Growth. Cambridge, Massachusetts: The MIT Press.
- Bhagat, R B and K C Das. 2008. "Levels, Trends and Structure of Workforce in India: Census Based Study 1981-2001." International Institute for Population Sciences: Mumbai.
- Business Line. 2011. "Govt admits goof-up in exports data; inflated by \$9b in April-Oct." Business Line, December 09. Available at http://www.thehindubusinessline.com/ industry-and-economy/article2701501.ece (last accessed on April 03, 2012).
- Centre for the Study of Developing Societies. 2008. "On Nagaland Assembly Election 2008." Centre for the Study of Developing Societies: New Delhi. Available at http://www.lokniti.org/pdfs_dataunit/Assembly%20Elections/Nagaland%20Assembly%20 Election%202008-%20A%20Report.pdf (last accessed on March 19, 2012)
- Chaurasia, A R. 2011. "Population Growth in India during 2001-2011: An Analysis of Provisional Results of 2011 Population Census." Studies in Population and Development, No 11-02. Shyam Institute: Bhopal. Available at http://shyaminstitute.in/yahoo_site_ admin/assets/docs/11_02.91173244.pdf (last accessed on March 19, 2012)
- Dreze, J and M Murthi. 2001. "Fertility, Education, and Development: Evidence from India." Population and Development Review, 27:1, pp. 33–63.
- Economic Times. 2012. "Poverty cutoff low due to NSSO data." Economic Times, March 21. Available at http://articles.economictimes.indiatimes.com/2012-03-21/news/31220118 _1_nsso-poverty-line-consumption-expenditure (last accessed on April 03, 2012)

- Financial Express. 2011. "Slowing investments only natural to a long-drawn cycle: TCA Anant." The Financial Express, December 16. Available at http://www.financialexpress. com/printer/news/888274/ (last accessed on April 03, 2012)
- Govt of India. 1976. "Census of India 1971, Series 15, Nagaland, Part II D, Migration Tables." Director of Census Operations, Nagaland.
- Govt of India. 1977. "Census of India 1971, Series 1 India, Part II D (i), Migration Tables (Tables D-I to D-IV)." Registrar General and Census Commissioner India.
- Govt of India. 1978. "Census of India 1971, India Series 1, paper 1 of 1979, Report of the Expert Committee on Population Projections." Demography Division, Office of the Registrar General of India, Ministry of Home Affairs: New Delhi.
- Govt of India. 1985a. "Census of India 1981, Series 1 India, Part II A (i), General Population Tables." Registrar General and Census Commissioner, India: New Delhi.
- Govt of India. 1985b. "Census of India 1981, Series 15, Nagaland, Part V A & B, Migration Tables." Director of Census Operations, Nagaland.
- Govt of India. 1988. "Census of India 1981, Series 1 India, Part V-A & B (i), Migration Tables (Table D-1 and D-2)." Registrar General and Census Commissioner India.
- Govt of India. 1992. "Census of India 1991, Series 1 India, Paper 1 of 1992, Volume I, Final Population Totals." Registrar General, India: New Delhi.
- Govt of India. 1996. "Census of India 1991, Population Projections for India and States 1996-2016, Report of the Technical Group on Population Projections Constituted by the Planning Commission." Registrar General, India, Ministry of Home Affairs: New Delhi.
- Govt of India. 1997a. "Census of India 1991 Series-1 India, Part V- D Series, Migration Tables, Volume 2 Part 1." Registrar General and Census Commissioner India.
- Govt of India. 1997b. "Census of India 1991 Series 1 India, Part V- D Series, Migration Tables, Volume 2 Part 2." Registrar General and Census Commissioner India.
- Govt of India. 1999a. "Census of India 1991 Non Workers in India: An Analysis of the 1991 Census Data." Registrar General, India: New Delhi.
- Govt of India. 1999b. "Compendium of India's Fertility and Mortality Indicators 1971-1997 based on the Sample Registration System (SRS)." Registrar General, India: New Delhi.
- Govt of India. 2002. "National Human Development Report 2001." Planning Commission, Government of India. Available at http://planningcommission.nic.in/reports/genrep/ index.php?repts=nhdcont.htm (last accessed on March 19, 2012)

- Govt of India. 2006. "Population Projections for India and States 2001-2026, Report of the Technical Group on Population Projections Constituted By the National Commission on Population." Office of the Registrar General & Census Commissioner, India: New Delhi.
- Govt of India. 2008a. "Census of India 2001 Workers and Non Workers An Analysis based on 2001 Census." Office of the Registrar General and Census Commissioner, Ministry of Home Affairs: New Delhi.
- Govt of India. 2008b. "The Gazette of India Extraordinary, Part II Section 3 Sub-section (ii), No 189, February 8, 2008." Legislative Department, Ministry of Law and Justice: New Delhi.
- Govt of India. 2011a. "Census of India 2011, Provisional Population Totals, Paper 1 of 2011, Series 1 India." Office of the Registrar General and Census Commissioner, India: New Delhi. Available at http://www.censusindia.gov.in/2011-prov-results/prov_results_paper1_india.html (last accessed on March 19, 2012)
- Govt of India. 2011b. "Census of India 2011, Provisional Population Totals, Paper 1 of 2011, Series 14 Nagaland." Directorate of Census Operations Nagaland: New Delhi.
- Govt of India. 2011c. "Economic Survey 2010-11." Ministry of Finance, Govt of India: New Delhi. Available at http://indiabudget.nic.in/budget2011-2012/survey.asp (last accessed on March 19, 2012)
- Govt of India. 2012. "Household Consumption of Various Goods and Services in India, Report No. 541 (66/1.0/3), NSS 66th Round, July 2009 - June 2010." National Sample Survey Office, Ministry of Statistics and Programme Implementation: New Delhi.
- Govt of India. nd1. "Census of India 2001, Series 1 India, Migration Tables (Table D-2)." Office of the Registrar General and Census Commissioner, India.
- Govt of India. nd2. "Census of India 2001, Series 13 Nagaland, Migration Tables (Table D0302)." Office of the Registrar General and Census Commissioner, India.
- Govt of Nagaland. 2010. "District Human Development Report Kohima 2009." Department of Planning and Coordination, Government of Nagaland: Kohima.
- Hazarika, S. 2005. "Rio tosses interim solution idea." The Statesman. December 24.
- International Institute for Population Sciences and Macro International. 2007. National Family Health Survey (NFHS-3), 2005–06: India: Vols I and II. International Institute for Population Sciences: Mumbai.
- International Institute for Population Sciences and Macro International. 2009. National Family Health Survey (NFHS-3), India, 2005-06: Nagaland. International Institute for Population Sciences: Mumbai.

- Jeermison, R K. 2011. "Politics of Population Growth in Nagaland." Available at http://e-pao. net/epSubPageExtractor.asp?src=manipur.Census_of_Manipur.Politics_of_Population_ Growth_in_Nagaland (last accessed January 07, 2012)
- Kundu, A and D Kundu. 2011. "The Census and the 'development' myth." Business Standard. April 08. Available at http://www.business-standard.com/india/news/amitabhkundudebolina-kunducensusthe-%5Cdevelopment%5C-myth/431360/ (last accessed on March 23, 2012)
- Means, G P. 1971. "Cease-Fire Politics in Nagaland." Asian Survey, 11:10, pp. 1005–28.
- Nagaland State AIDS Control Society. 2011. "HIV/AIDS Scenario, Nagaland (Till July 2011)." Available at http://www.nagalandsacs.com/main/index.php?option=com_ content&view=article&id=128:cmis-july-2011&catid=38:cmis&Itemid=239 (last accessed on March 19, 2012)
- Nagaland Post. 2009. "Nagaland's inflated census." Nagaland Post, September 20. Available at http://www.nagalandpost.com/ShowStory.aspx?npoststoryiden=UzEwMTczNTc%3 D-yM3AkZLK3uc%3D (last accessed on January 07, 2012)
- Population Foundation of India-Population Research Bureau. 2007. "The Future Population of India: A Long-range Demographic View." Population Foundation of India and Population Reference Bureau. Available at http://www.prb.org/pdf07/ futurepopulationofindia.pdf (last accessed on 19 March 2012)
- Preston, S H, P Heuveline, and M Guillot. 2001. Demography: Measuring and Modeling Population Processes. Oxford: Blackwell Publishers.
- Reserve Bank of India. 2005. "The Handbook of Statistics on the Indian Economy: 2004-05." Reserve Bank of India: Mumbai. Available at http://www.rbi.org.in/scripts/ AnnualPublications.aspx?head=Handbook%20of%20Statistics%20on%20Indian%20 Economy (last accessed on March 19, 2012)
- Reserve Bank of India. 2011. "The Handbook of Statistics on the Indian Economy: 2010-11." Reserve Bank of India: Mumbai. Available at http://www.rbi.org.in/scripts/ AnnualPublications.aspx?head=Handbook%20of%20Statistics%20on%20Indian%20 Economy (last accessed on March 19, 2012)
- Rio, N. 2010. "Address at the Conference of the Chief Ministers on Internal Security, New Delhi, 7th Feb 2010."
- Sharma, H N and B K Kar. 1997. "Pattern of Population Growth in North-East India," in Demographic Transition: The Third World Scenario. Aijazuddin Ahmad, Daniel Noin and H.N. Sharma eds. Jaipur: Rawat Publications, pp. 73–93.

- South Asia Terrorism Portal. nd. "Nagalim (Greater Nagaland)." Available at http://www. satp.org/satporgtp/countries/india/states/nagaland/data_sheets/insurgency_related_ killings.htm (last accessed on March 23, 2012)
- Srivastava, S C. 1987. Demographic Profile of North East India. New Delhi: Mittal Publications.
- Subbarao, D. 2011. "Statistics in the World of RBI." Inaugural address at the Statistics Day Conference of Reserve Bank of India, Mumbai, July 5, 2011. Available at http://www. rbi.org.in/scripts/BS_SpeechesView.aspx?id=582 (last accessed on April 03, 2012)
- Thohe Pou, R B. 2011. "Decadal Growth Rate of Nagaland is Minus 0.47% (or 31.97%)." Available at http://e-pao.net/epSubPageExtractor.asp?src=news_section.opinions. Politics_and_Governance.Decadal_Growth_Rate_of_Nagaland_is_Minus_point_47 (last accessed on March 19, 2012)

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