



## Housing Required for Arviat:

**Current Population Approximately: 1,899**

Number of persons per dwelling: 4.16

Number of persons per dwelling for Nunavut as a whole: 3.27

Number of house required for the next 10 years:

Years	Population Change	Number of Houses Required
2003-2004	50	12
2004-2005	46	11
2005-2006	53	12.7
2006-2007	51	12.25
2007-2008	55	13.22
2008-2009	54	12.98
2009-2010	56	13.46
2010-2011	58	13.94
2011-2012	64	15.38
2012-2013	61	14.66

Standard size road : 15 metres wide ( $15/2 = 7.5$  metres)

Total Area of a standard size lot including road =  
 $900\text{m.sq.} + (7.5\text{m} \times 30\text{m} = 225\text{m.sq.}) = 1,125\text{m.sq.}$

**Therefore, if 12 houses are required each year, 13,500 squared metres (1.35ha) of residential land will be needed each year.**

Regulations for Open Space 5% of total Residential Area will be designated for Open Space as suggested by CMHC.

$13,500\text{m.sq.} \times 5\% = 675\text{m.sq.}$

Total Required Area of land required each year = 14,175.00 m.sq.

Total available lots (undeveloped) :Phase 1,2,4 -7,9 available lots: 83

Therefore, Arviat would have enough lots for the next 8 years, however, only 4 to 5 lots are developed each year and therefore, the Hamlet should have enough lots for the next 15 years.