

quence of an assumption of a gross reproduction rate of 1 would be that, with no net immigration, the population would decrease as time went on because not all females born alive survive to the end of their child-bearing years.)

The persons who were responsible for the U.S. projections apparently believed that the idea of a U.S. population of a billion or more is not reasonable. However, even if this consideration should be valid for the U.S., the same consideration would not apply to Canada for the foreseeable future. From an examination of U.S. fertility rates, it would seem that, if current U.S. rates would increase a U.S. population of 180 million to over a billion in about 100 years, the same rates would increase a Canadian population of 18 million to over 100 million in the same period. On the surface, at least, such a population for Canada does not seem unreasonable, considering the land and resources available.

The fertility assumptions chosen for the projections of the population of all of Canada were as follows:

- (a) the high fertility assumption was that the average of fertility rates for all of Canada for the period 1956 to 1960, inclusive, will apply throughout the future; and
- (b) the low fertility assumption was that the average described in (a) above will decrease linearly into fertility rates that produce a net reproduction rate of 1 for the period 2000-2004 and later. (A "net reproduction rate of 1" means that, on the average, every female born alive will bear one female child.)

In Schedule 4 below are shown the fertility rates computed in accordance with the above assumptions. In Schedule 5 below are shown the gross and net reproduction rates corresponding to the fertility rates listed in Schedule 4.

SCHEDULE 4

FERTILITY RATES USED FOR PROJECTION OF THE POPULATION OF ALL OF CANADA

(number of live births per 1,000 females in age group)

Female Age Group	High Fertility (average of rates for 1956-60 period)	Low Fertility (for year 2000 and after)
15-19.....	59.2	31.9
20-24.....	226.8	122.0
25-29.....	225.1	121.1
30-34.....	148.6	79.9
35-39.....	89.0	47.9
40-44.....	29.3	15.8
45-49.....	2.7	1.5

SCHEDULE 5

REPRODUCTION RATES FOR ALL OF CANADA

Type of Rate	High Fertility		Low Fertility	
	For current period	For year 2000 and after	For current period	For year 2000 and after
Gross Reproduction Rate.....	1.898	1.898	1.898	1.021
Net Reproduction Rate*.....	1.811	1.859	1.811	1.000

* A "net reproduction rate" depends on female mortality as well as fertility assumptions. The "current" net reproduction rate was based on the female mortality rates of the Canadian Life Table, 1955-1957, and the ultimate rates were based on the projected female mortality rates for the year 2000 and after.