

MIGRATION AND SETTLEMENT IN FINLAND

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Preface

To promote international scientific cooperation and to disseminate research results, the Migration and Settlement Task of the Human Settlements and Services Area at IIASA initiated a comparative analysis of patterns of interregional migration and spatial population growth in National Member Organization Countries. To carry out the study, a network of national scholars was established, an integrated methodology for multiregional demographic analysis was developed and a package of computer programs to implement this methodology was written. The contributors were invited to prepare reports on migration and settlement in their respective countries. An outline was provided and computer analysis was done by IIASA. The results of the various case studies will be discussed at a Conference to be held at IIASA in September 1978.

Professor Kalevi Rikkinen of the University of Helsinki prepared this report on multiregional population dynamics and policy in Finland. The analysis shows that some important and policy-relevant changes are happening in both the age-structure of the population and in its regional distribution.

Frans Willekens
Leader
Migration and
Settlement Task

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TABLE OF CONTENTS

1.	INTRODUCTION	1
1.1.	Purpose	1
1.2	General Features of the Development of Population and Settlement	2
1.3	The Dynamics of Population Trends as a Research Target	6
2.	CURRENT PATTERNS OF SPATIAL POPULATION GROWTH	8
2.1	Regional Units and Data	8
2.2	Fertility	10
2.3	Mortality	20
2.4	Migration	26
2.5	Total Population System in 1974	35
3.	MULTIREGIONAL POPULATION ANALYSIS	37
3.1	The Multiregional Life Table	38
3.2	Mobility and Fertility Analysis	49
3.3	Population Projection Towards Stability	51
4.	POPULATION DISTRIBUTION POLICY	62
4.1	Population Distribution Policy Based on Agriculture	62
4.2	The First Development Area Laws, 1966-1969	64
4.3	Measures of Regional Policy Taken in 1970-1974	65
4.4	Regional Laws Enacted for the Years 1975-1979	66
4.5	The Problems of Sparsely Settled Areas	68
4.6	The Helsinki Area	69

5. CONCLUSION 70

APPENDIX A 73

APPENDIX B 81

Migration and Settlement in Finland

INTRODUCTION

1.1. Purpose

This report is part of the Comparative Migration and Settlement Study included in the Migration and Settlement Task in the Human Settlements and Services Area at IIASA. Its purpose is to give a detailed overview of the internal migration patterns, issues and policies in Finland. As such, the work amounts to a case study among the other corresponding reports made in countries belonging to IIASA and it is aimed at laying a basis for comparative research. However, this work can also be examined purely from the Finnish point of view. In this sense, it is to be hoped that this paper might open up new vistas and thus enlarge our understanding of the dynamics of multiregional population systems in Finland as well as provide policymakers with new tools for utilization in the analysis of human settlement systems.

The introductory section deals with general population changes in Finland. After this, light is shed on special aspects of population research in the country.

The second section of the study is concerned with input data: sources and the regional demographic characteristics of the Finnish population in the base year 1974. In this connection, attention is also paid to certain historical and recent trends of fertility, mortality and migration.

The third section applies the findings of multiregional demography. It contains the most important synthetic demographic information, such as the multiregional life table with life expectancy matrix, mobility and fertility analysis, and population projections.

The last section reviews the main features of population distribution policy in Finland. In this connection, the measures

of regional policy taken in Finland at various times are examined. It brings to the fore both the agricultural measures involved in the clearance of new land and the solutions to problems of urban growth and decline. Both direct and indirect population distribution policies are taken up for consideration.

1.2. General Features of the Development of Population and Settlement

Finland, with its 4.6 million inhabitants, ranks after Iceland and Norway as the most sparsely settled country in Europe. In 1975, the mean population density was 15.5 persons per sq. km of land. There are, however, great regional differences in population density. The population is densest in the southwestern and southern parts of the country (in extensive areas over 20 persons per sq. km), whereas in Lapland the average density is only 2 inhabitants per sq. km. Quite in the same way as great regional differences prevail within the country as a whole, there are differences within the provinces and individual communes. The urban centers are to be distinguished clearly from the sparsely settled agricultural and forest areas.

The present distribution of the population is the result of a long evolutionary process. The point of departure of the trend has been the continuous natural growth of the population; and the primary factor guiding the regional distribution has been migratory movements.

The natural development of the population followed the model of demographic transition. The trend of birth and death rates in Finland in the period between 1820 and 1975 is depicted in the accompanying diagram (Figure 1.1.). With the exception of years of epidemics and wars, the birth rate has exceeded the death rate. The postwar baby-boom is clearly apparent also in Finland. Following these so-called big age classes, the birth rate has steadily declined. Only in the year 1974 did the number of births again show a slight rising trend over the preceding year's figure. Since 1952 the mortality rate has remained at about 9%. The natural population growth has in recent years declined to about 4% and given rise to concern.

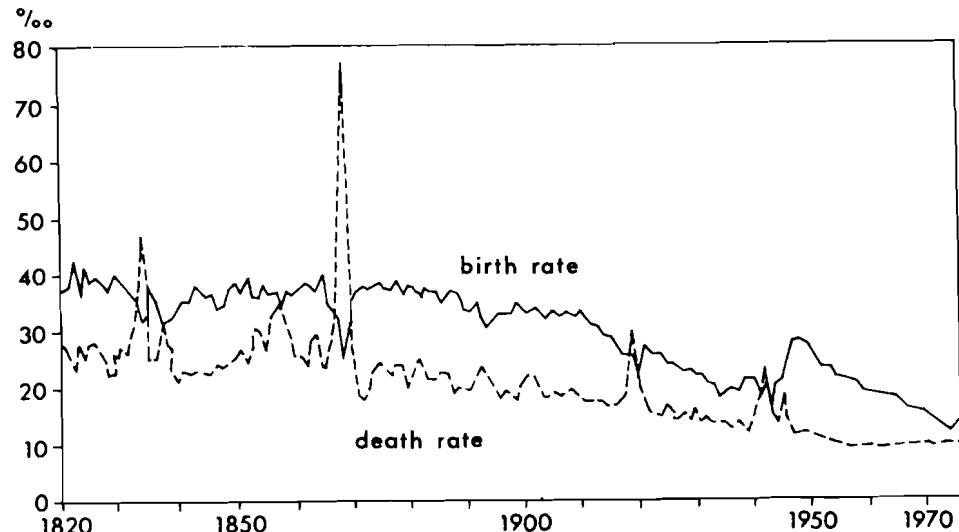


Figure 1.1. Birth and death rates in Finland, 1820-1975.

Source: Strömer, 1969, p. 179.

Statistical Yearbook of Finland, 1975, p. 57.

The settlement of Finland expanded for a very long time only on the basis of agriculture. The general direction of the expansion was from the south toward the north, and from the west toward the east. When the population of Finalnd in 1810 reached its first million mark, agricultural settlement had spread as far as the central parts of Lapland.

The predominantly agricultural structure of the Finnish national economy remained unchanged till about 1870 (Figure 1.2). In 1880, about 75% of the whole Finnish population gained its livelihood from agriculture. After that point, the advance of industry, the improvement of traffic conditions and the gradual realization of freedom of enterprise brought about a situation where the share of the farming population in the nation as a whole began to decline steadily.

Urban trades have grown strongly, a trend that became intensified after 1920. By contrast, the number of inhabitants dependent for their livelihood on agriculture and forestry has decreased even in the absolute sense since the decade of the 1930's. According to the census of 1970 of the occupationally employed Finnish population, 20.3% gained their livelihood from

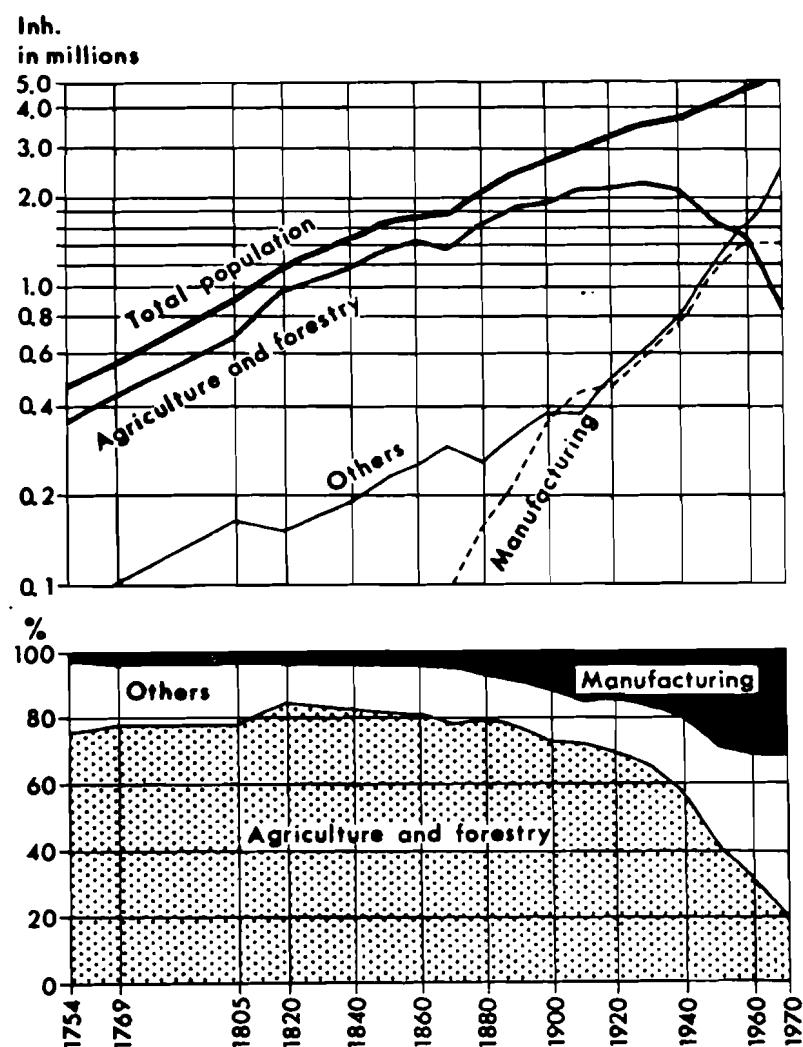


Figure 1.2. Occupational structure of population in Finland, 1754-1970.

Source: Rikkinen, 1977a, p. 10.

agriculture and forestry, 34.2% from the manufacturing and building industries, 26.0% from commerce and communications, 18.1% from the service vector, including trade, and 1.4% from unknown unknown occupations. Associated with these sectoral changes has been a growing urban concentration (Figure 1.3).

A special stage in the evolution of population and settlement in Finland was introduced by the consequences of World War II. Nearly half a million inhabitants were evacuated from the territories ceded to the USSR, totalling 12% of the then cultivated area of Finland, and resettled in other parts of the country. The resettlement of the displaced persons was carried out mainly

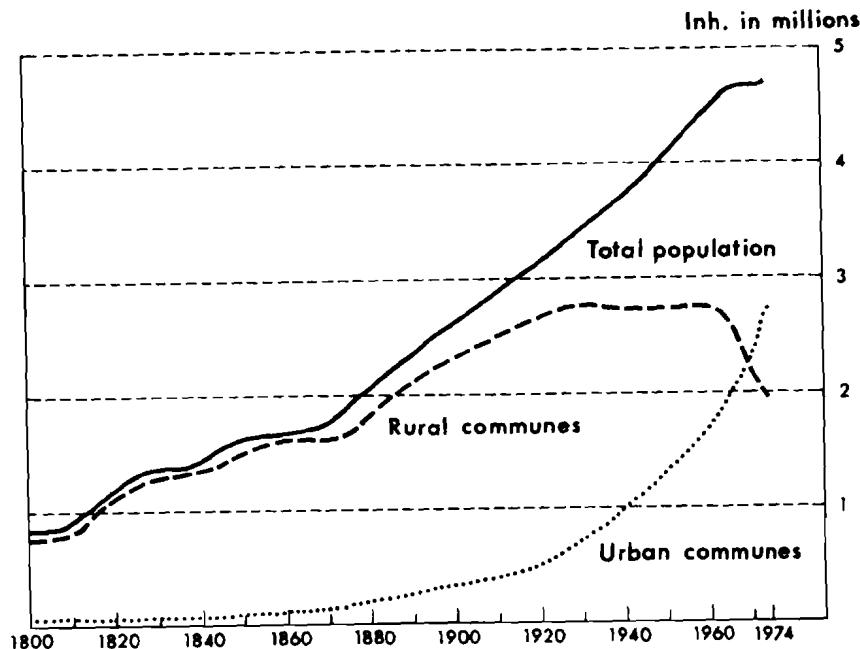


Figure 1.3. Population growth in Finland, 1800-1974.

Source: Rikkinen, 1974b, p. 56.

by creating new farmsteads in rural districts. The resettlement program also led to the clearing of considerable stretches of new arable land. The center of gravity of the cultivated farm-lands of Finland shifted during the postwar period farther north, signifying severer natural conditions than those prevailing before the outbreak of hostilities. In recent years, however, the extreme northerly limit of settlement has been pulled back. The migratory movement away from rural districts has meant the heaviest drain on the more remote, sparsely settled areas.

In the past couple of decades, the migratory balance sheet of the majority of Finnish rural communes has been negative. The heaviest migratory losses have been suffered by the predominantly agricultural regions of northern and eastern Finland. The internal migration has been directed primarily toward the industrialized and urbanized south of Finland, notably the region of the national capital. Inside the communes, in turn, the trend observed has been one of the bigger agglomerations increasing in size at the expense of the sparsely settled and peripheral agricultural sections. Recently, however, the growth of the cities and the migratory deficit of the farming districts have been checked.

In this respect, the trend in Finland seems to follow the developmental pattern known to have been established recently in industrialized countries.

The population trend in Finland has also been greatly influenced by emigration. Between 1835 and 1930, it is estimated that in all some 380,000 Finns emigrated to the United States, 230,000 of the emigrants apparently having remained across the Atlantic. The total population developments have been significantly affected also by the emigration that took place in the 1960's and 1970's. This migratory wave was directed mainly toward neighboring Sweden. In the decade of the sixties', Finland lost a total of 142,000 inhabitants through emigration. In the 1970's, the migratory movement levelled out and in certain years the reverse trend was even stronger, with emigrants returning home. However, at the end of 1974, the situation again became more unfavorable to Finland, reflecting changes in the economic picture.

The low rate of natural increase and the considerable emigration are central concerns of Finnish population policy. When the migratory deficit is deducted from the natural population increase, the result is that the Finnish population increased in the 1965-1975 period annually at an average of between 13,000 and 28,000 souls. Exceptions were the years 1969 and 1970, when the total population decreased as a result of the emigration to Sweden (Table 1.1). In the global framework, the rate of increase of the Finnish population (in 1975 it was 3.8% is one of the lowest.

1.3. The Dynamics of Population Trends as a Research Target

Research on the Finnish population has been carried out for a long time. The number of studies made is virtually countless, not least because the national population statistics have been good. A bibliography has recently been published by the Population Research Institute (Väestötutkimuslaitos) and covers the literature on population research published in Finland from 1973-76. Although the bibliography does not cover all the population studies printed in this period, there are still no less than

about 350 publications on the list (Population Research Institute, 1978, pp. 118-140).

The central research targets have been the primary problems involved in the national population trends, as pointed out in the preceding section, such as internal migratory movements, urbanization and the natural population growth trends, along with their consequences. Some of these problems are of an international character, but others are purely domestic. Examples of the latter are the post-World War II resettlement program and migratory movements and their special features. Further, the bilingual structure of the Finnish nation brings with it specific problems. The Swedish-speaking inhabitants, accounting for about 7% of the total population, are located regionally in the southwestern parts of the country as well as the southern and western coastal strips. This reflected in the directions followed by the migratory currents.

Table 1.1. Components of population change, Finland, 1960-1975.

Source: Statistical Yearbook of Finland, 1975, p. 57.

Year	Mean Population (Thousands)	Birth Rate (%)	Death Rate (%)	Natural Increase (%)	Total Increase (%)
1960	4429.6	18.5	9.0	9.6	7.5
1961	4461.0	18.4	9.1	9.3	6.6
1962	4491.4	18.1	9.6	8.6	7.0
1963	4523.3	18.2	9.3	8.9	7.2
1964	4548.5	17.7	9.4	8.3	4.0
1965	4563.7	17.1	9.7	7.3	2.7
1966	4580.9	17.0	9.5	7.5	4.8
1967	4605.7	16.8	9.5	7.3	6.0
1968	4626.5	15.9	9.7	6.2	2.9
1969	4623.8	14.6	9.9	4.6	-4.1
1970	4606.3	14.0	9.6	4.4	-3.5
1971	4612.1	13.2	9.9	3.3	3.4
1972	4639.7	12.7	9.5	3.2	4.4
1973	4666.1	12.2	9.3	2.9	4.2
1974	4690.6	13.3	9.5	3.8	4.1
1975	4711.3	14.1	9.4	4.7	3.8

In general, the specialists in different field of research have examined the population dynamics from the point of view of their own branch of inquiry. In addition, some of the research was basic research while other was more applied in nature and intended to be used by planners. Studies concerned with population dynamics can also be classified according to their research scale. In both the demographic and the spatial sense, studies can be found ranging from the microscopic to the macroscopic level. In other words, studies have been made in which at one extreme the life history of a single person has been followed in space, and at the other extreme the unit of study has been the Finnish population as a whole.

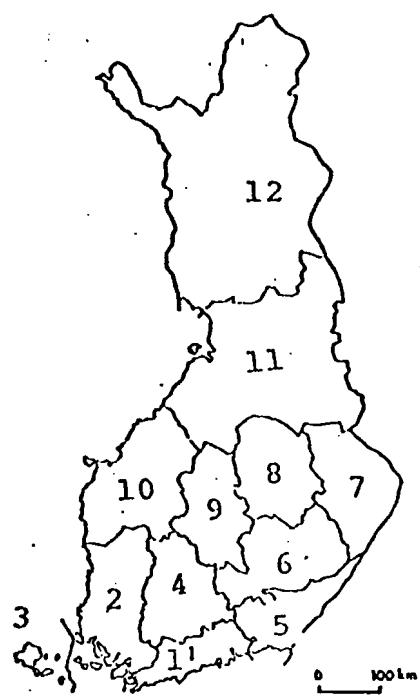
Characteristic of decision-making in the sphere of regional policy has been the fact that in spite of extensive attention given to different sectors of population research, the policy decisions reached have continuously run into generalizations. Among other things, the postwar large age class has in growing older constantly caused mistaken investment. Taken as a whole, it would appear that there is a need to develop analytical methods in the study of population dynamics of the kind striven after in its population research project by the IIASA's human and settlement study area.

2. CURRENT PATTERNS OF SPATIAL POPULATION GROWTH

2.1 Regional Units and Data

The basic regional units used in this paper are the provinces (läänis). Finland has 12 provinces (Figure 2.1). Alternative regional units would be the economic regions, 16 in total. Because of the data availability, the provinces have been selected.

The basic year for the analysis is 1974, the last year for which data were available when this study was started. The observed population characteristics in 1974 are given in the Appendix 1. The first column presents the population by age. It is the mid-year population, computed as the arithmetic mean of the population by age on December 31, 1973 and December 31,



<u>Province</u>	<u>Lääni</u>
1. Uusimaa	1. Uudenmaan Lääni
2. Turku and Pori	2. Turun ja Porin lääni
3. Ahvenanmaa	3. Ahvenanmaan maakunta
4. Häme	4. Hameen lääni
5. Kymi	5. Kymen lääni
6. Mikkeli	6. Mikkelin lääni
7. Pohjois-Karjala	7. Pohjois-Karjalan lääni
8. Kuopio	8. Kuopion lääni
9. Keski-Suomi	9. Keski-Suomen lääni
10. Vaasa	10. Vaasan lääni
11. Oulu	11. Oulun lääni
12. Lappi	12. Lapin lääni

Figure 2.1. Administrative provinces of Finland.

1974.* The data are given in 5-year age groups. The last age group is open-ended and contains the population of 75 years and older.

The live births are given by age of mother (Central Statistical Office of Finland, 1977, pp. 58-59). Regional age-specific deaths by sex are given in the same source (pp. 72-73).

Total migration flows between provinces are published annually in the Statistical Yearbook of Finland. However, age-specific migration flow data are only available in unpublished form and for the migration between the 404 communes (kunta). The data are based on a registration system. For this study, these data have been aggregated to give the age-specific migration flow matrices for the provinces. These results are given in Appendix 1. The migrations between communes but within provinces are also given in Appendix 1. In 1974, the intra-provincial migrations accounted for 58% of the total intercommunal migration.

Before we start multiregional analysis, it is necessary to study the demographic characteristics of the population in the base year, i.e., 1974, and some historical and recent trends. We will consider fertility, mortality and migration separately. Table 2.1 summarizes the regional differences in demographic parameters.

2.2 Fertility

a. Historical Trends

In Finland, it is possible to analyse the development of population since the year 1722. The crude birth rate reached its peak in 1755 (46.9%). After that it has been declining. During the 1850's, the crude birth rate had already declined to a level of about 35%. There were considerable differences between cities and the countryside. For example, during the period 1871-75, the crude birth rate in urban communes was 28.6%,

* The data differ slightly from recently published mean population data by province (Central Statistical Office of Finland, 1977, p. 43).

Table 2.1. Components of demographic change by province, Finland, 1961-1970 and 1974.

Source: Statistical Yearbook of Finland, 1976, p. 58-59, 76.

Province	Birth Rate (%)	Death Rate (%)	Natural Increase (%)	Net Internal Migration (%)	Total Change (%)				
					1961-70	1974	1961-70	1974	1961-70
- 11 -									
Uusimaa	17.0	14.3	9.4	8.8	7.6	5.6	6.2	18.6	12.1
Turku and Pori	15.5	12.7	10.2	9.8	5.3	2.9	3.0	2.2	6.7
Ahvenanmaa	14.9	12.9	11.3	11.6	3.6	1.3	7.9	-1.5	10.6
Häme	15.7	13.0	9.7	9.5	6.0	3.4	3.0	7.2	0.6
Kymi	15.3	11.9	10.1	10.7	5.2	1.2	-1.9	1.8	-1.0
Mikkeli	15.4	11.3	10.9	11.7	4.5	-0.4	-7.0	-6.7	-7.5
Pohjois-Karjala	16.2	11.9	9.8	10.4	6.3	1.6	-7.3	-11.3	-5.8
Kuopio	16.6	12.0	9.8	10.3	6.7	1.8	-4.8	-5.6	-3.4
Keski-Suomi	16.7	12.8	9.4	9.4	7.2	3.3	-3.2	-2.9	-0.2
Vaasa	17.0	13.9	9.5	9.7	7.4	4.3	-5.5	-2.4	-1.3
Oulu	19.8	15.6	8.1	8.5	11.8	7.1	-3.4	-1.4	4.7
Lappi	21.3	13.4	7.3	8.0	14.0	5.4	-8.9	-2.8	-4.7
Urban	18.3	14.5	8.8	8.5	9.4	6.0	4.0	31.0	17.5
Rural	15.5	11.6	10.1	10.9	5.4	0.7	-5.5	-19.1	-14.5
TOTAL	16.8	13.3	9.5	9.5	7.2	3.8		3.3	4.1

but in rural communes 37.7%. The important reason for this was the higher proportion of married women in rural areas (Strömer, 1969, p. 30). The correlation of industrialization and urbanization with the declining birth rate and the regional differences became clearer around the turn of the 19th century. The birth rate in urban centers was low and the growth of the urban population was for the most part a result of in-migration. The rural population began to adopt ideals that had previously been characteristic of urban society, and in the early 20th century the birth rate declined sharply throughout the country (Table 2.2).

Declining birth rates had a remarkable influence on the population development in the 1950's, 1960's and 1970's. The birth rate was lowest in 1973 when only about 57,000 babies were born. After that, the birth rate has increased a little because of social (family) and political efforts.

In 1950, fertility was above the national average in all the provinces outside the industrialized part of Finland (Table 2.3). In the 1950's, fertility increased only in the provinces of Ahvenanmaa and Uusimaa and decreased in all the other, with the sharpest decline in the provinces of northern and eastern Finland. In the 1960's there were great changes in regional fertility trends. The differences in fertility between the various parts of the country, which were still distinct in 1960, leveled in the 1960's. The decline in fertility was most important in regions of high fertility, namely, northern and eastern Finland. In 1961/70 the crude birth rate was highest in Lapland (21.3%), but in 1975 the rate was only 14.4% (Table 2.1). The diffusion of declining birth rates has thus affected the whole country.

If fertility is investigated by age group, it can be seen that after World War II, children are being born to younger age groups than earlier (Figure 2.2, Table 2.4). In the youngest age group, 15-19, the fertility rate increased until 1967 (36.2%). This is partially due to the fact that the marriage frequency increased among persons under the age of 20. But in recent years the fertility rate in this youngest age group has decreased again.

Table 2.2. Reproduction rates, 1938-1974.

Source: Statistical Yearbook of Finland, 1975, p. 65.

	Net Reproduction Rates				Gross Reproduction Rates			
	Whole Country	Urban Communes*	Rural Communes*		Whole Country	Urban Communes*		Urban Communes*
			Rural Communes*	Urban Communes*		Urban Communes*	Gross Reproduction Rates	
1941-1945	1.048	0.812**	1.166***	1.262	0.938**	1.405***		
1946-1950	1.469	1.171**	1.605***	1.637	1.279**	1.798***		
1951-1955	1.373	1.125	1.538	1.452	1.177	1.637		
1956-1960	1.301	1.123	1.436	1.357	1.164	1.502		
1961-1965	1.236	1.114	1.357	1.276	1.148	1.403		
1966-1970	1.009	0.955	1.061	1.035	0.979	1.091		
1973-8	1.011	0.564	1.209	1.220	0.674	1.462		
1950	1.379	1.063	1.525	1.536	1.161	1.707		
1962	1.255	1.122	1.366	1.296	1.157	1.412		
1963	1.259	1.132	1.380	1.300	1.167	1.426		
1964	1.219	1.115	1.324	1.258	1.149	1.368		
1965	1.167	1.079	1.262	1.204	1.112	1.304		
1966	1.150	0.084	1.225	1.180	1.111	1.260		
1967	1.099	1.038	1.181	1.129	1.064	1.214		
1968	1.020	0.971	1.184	1.047	0.955	1.217		
1969	0.916	0.872	0.979	0.940	0.894	1.007		
1970	0.870	0.833	0.924	0.893	0.854	0.950		
1971	0.812	0.784	0.854	0.833	0.804	0.877		
1972	0.751	0.721	0.806	0.771	0.739	0.829		
1973	0.709	0.684	0.758	0.728	0.701	0.779		
1974	0.776	0.754	0.821	0.796	0.772	0.843		

* Since 1951, the mortality of towns and rural communes has been separately observed at the calculation of the net reproduction rates.

**Excluding 2nd-class towns.

***Including 2nd-class towns.

Table 2.3. General fertility rates by province
in 1950, 1960 and 1970.

Source: CICRED, 1974, p. 13.

Province	1950	1960	1970
Uusimaa	74	76	59
Turku and Pori	94	78	62
Ahvenanmaa	73	83	73
Häme	93	78	61
Kymi	98	84	58
Mikkeli	120	94	62
Pohjois-Karjala	—	110	63
Kuopio	134	98	65
Keski-Suomi	—	93	64
Vaasa	114	87	71
Oulu	148	117	78
Lappi	158	128	72
TOTAL	106	89	64

It seems that most recent efforts to increase the birth rate has had its greatest effect in older age groups.

b. Fertility in 1974

The 1974 age-specific fertility rates by province are shown in Table 2.5. The fertility rates are computed by dividing the annual number of births by mid-year total population in each age group. The rate of reproduction is 5 times the sum of the age-specific rates. For Uusimaa, for example, the gross reproduction rate (GRR) is 0.7610. The crude rate is the total number of births divided by the total mid-year population. It is 14% for Uusimaa. The mean age given in the table is the mean age of the schedule, which is different from the mean age of parents. The mean age of the fertility schedule of Uusimaa, for example, is 26.76.

The regional differences of the general fertility rates have declined during the last decades. Table 2.3 shows remarkably low fertility rates for all provinces (GRR everywhere under unity). However, the main trend remains, i.e., relatively high fertility in the northern provinces of Lappi, Oulu and Vaasa.

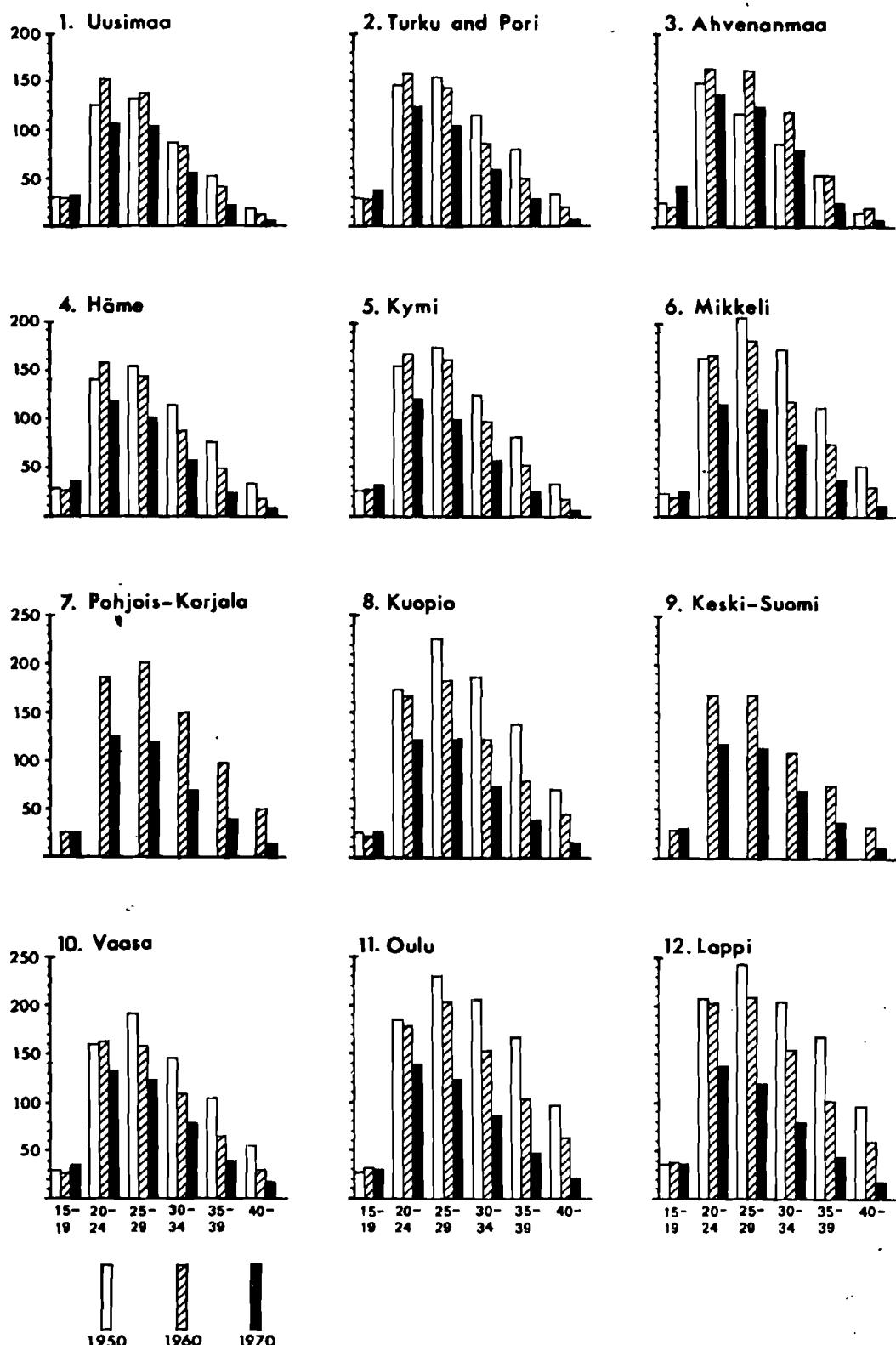


Figure 2.2. Age-specific fertility rates by province in 1950, 1960, and 1970.

Source: CICRED, 1974, p. 14.

Table 2.4. Age-specific fertility rates, 1891-1974. Per 1000 women of the age group indicated.

Source: Statistical Yearbook of Finland, 1975, p. 65.

Years	15-19	20-24	25-29	30-34	35-39	40-44	45-49
1891-1900	17.4	157.8	213.0	236.9	191.0	114.3	18.2
1901-1910	16.8	147.7	226.8	227.4	192.6	109.1	16.2
1911-1920	14.9	122.8	181.4	181.9	155.2	92.9	14.0
1921-1930	14.2	110.0	156.9	143.8	116.8	67.4	10.5
1931-1940	14.4	96.5	126.2	108.9	82.8	43.5	5.9
1941-1945	11.3	105.2	141.9	124.3	88.4	41.8	5.4
1916-1950	25.7	161.9	189.4	147.5	100.5	43.3	5.0
1951-1955	27.2	157.6	165.8	125.0	81.0	35.1	3.9
1956-1960	20.3	161.4	159.6	108.1	67.5	27.5	2.8
1961-1965	30.7	156.7	156.0	98.8	55.7	22.5	2.2
1966-1970	34.7	131.9	125.9	76.5	39.7	13.7	1.4
1966	35.8	141.5	143.2	90.6	47.7	17.1	1.8
1967	36.2	141.4	138.9	83.4	45.6	16.2	1.7
1968	35.7	135.3	125.8	76.6	38.7	14.1	1.5
1969	33.5	122.6	113.8	68.5	34.9	11.7	1.2
1970	32.2	119.4	108.6	64.6	30.5	9.3	0.8
1971	29.7	111.3	107.5	58.1	25.2	7.1	0.6
1972	28.6	104.3	103.9	53.2	21.9	6.1	0.5
1973	26.2	96.5	98.9	51.2	21.7	5.7	0.5
1974	27.2	103.9	107.7	56.7	23.0	5.8	0.5

Table 2.5. Fertility rates, 1974.

Age	UUDENMAA	TURUN	AHVENAN	HAMEEN	KYMNEN	MIKKELI	POH.-KAR	KUOPION	KESK.-SU	VAASTAN	DULUN	LAPIN
0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
5	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
10	0.000026	0.000019	0.000000	0.000000	0.000000	0.000000	0.000059	0.000000	0.000000	0.000000	0.000000	0.000000
15	0.013099	0.014399	0.014417	0.013941	0.012714	0.010000	0.012272	0.010806	0.011572	0.014604	0.014444	0.014464
20	0.048500	0.051922	0.049696	0.051032	0.048165	0.04438	0.044336	0.046919	0.048733	0.054313	0.056725	0.051876
25	0.051974	0.049795	0.053883	0.048288	0.049635	0.053533	0.050265	0.052229	0.053326	0.059949	0.062256	0.051448
30	0.028172	0.024199	0.021739	0.024287	0.024420	0.027390	0.03182	0.029198	0.029868	0.031441	0.033404	0.029220
35	0.008877	0.009580	0.011542	0.010601	0.008524	0.010588	0.013257	0.011938	0.012698	0.014683	0.014269	0.014433
40	0.001871	0.002253	0.003484	0.002882	0.002159	0.004223	0.003619	0.002577	0.003063	0.004091	0.005513	0.003774
45	0.000129	0.000366	0.000000	0.000148	0.000136	0.000147	0.000177	0.000185	0.000332	0.000422	0.000420	0.200753
50	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
55	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
60	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
65	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
70	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
75	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Gross	0.152648	0.152535	0.154762	0.150579	0.145753	0.150321	0.157168	0.153852	0.159592	0.179531	0.192029	0.165967
Crude	0.014347	0.012692	0.012404	0.012947	0.011920	0.011320	0.011930	0.012048	0.012868	0.013939	0.015572	0.013387
M. Age	26.7558	26.5433	26.7487	26.6371	26.6388	27.4131	27.5802	27.2731	27.3090	27.2539	27.5663	27.2474

The deviation between the gross reproduction rate and the crude birth rate measures the impact of the age composition on the overall fertility. If each age group would have the same number of people, both measures would be the same. Figure 2.3 demonstrates the relationship between gross rates of reproduction and crude birth rates.

The provinces may be grouped in 2 categories. Most are in category I, with nearly a constant gross fertility rate of 0.15 but different crude birth rates. For example, provinces 4 (Häme) and 6 (Mikkeli) have the same gross fertility rate, but completely different crude birth rates. The reason for this is the concentration of the population of Häme and 28% for Mikkeli. Both provinces, however, have almost the same mean age (34.6 versus 34.9).

Category II is characterized by higher gross fertility rates and crude birth rates. It consists of the three northern provinces and Uusimaa.

Figure 2.4 contains the regional fertility curves. The curves have all the same shape. The highest fertility rates are

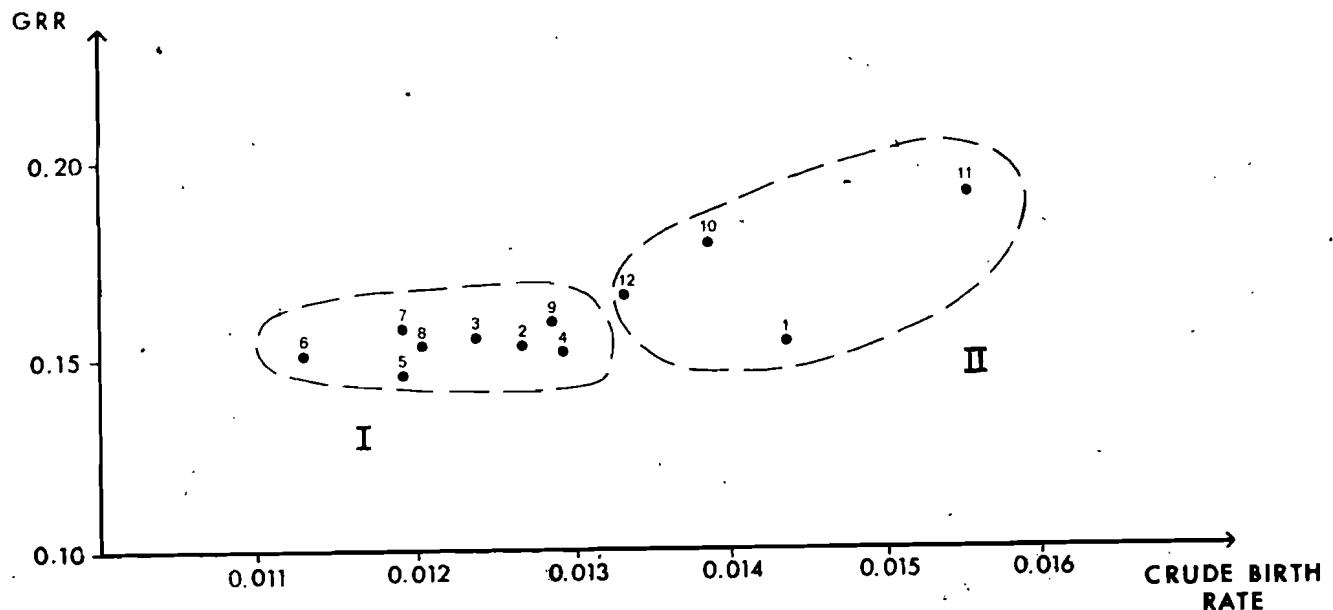


Figure 2.3. GRR and crude birth rates by province, Finland, 1974.

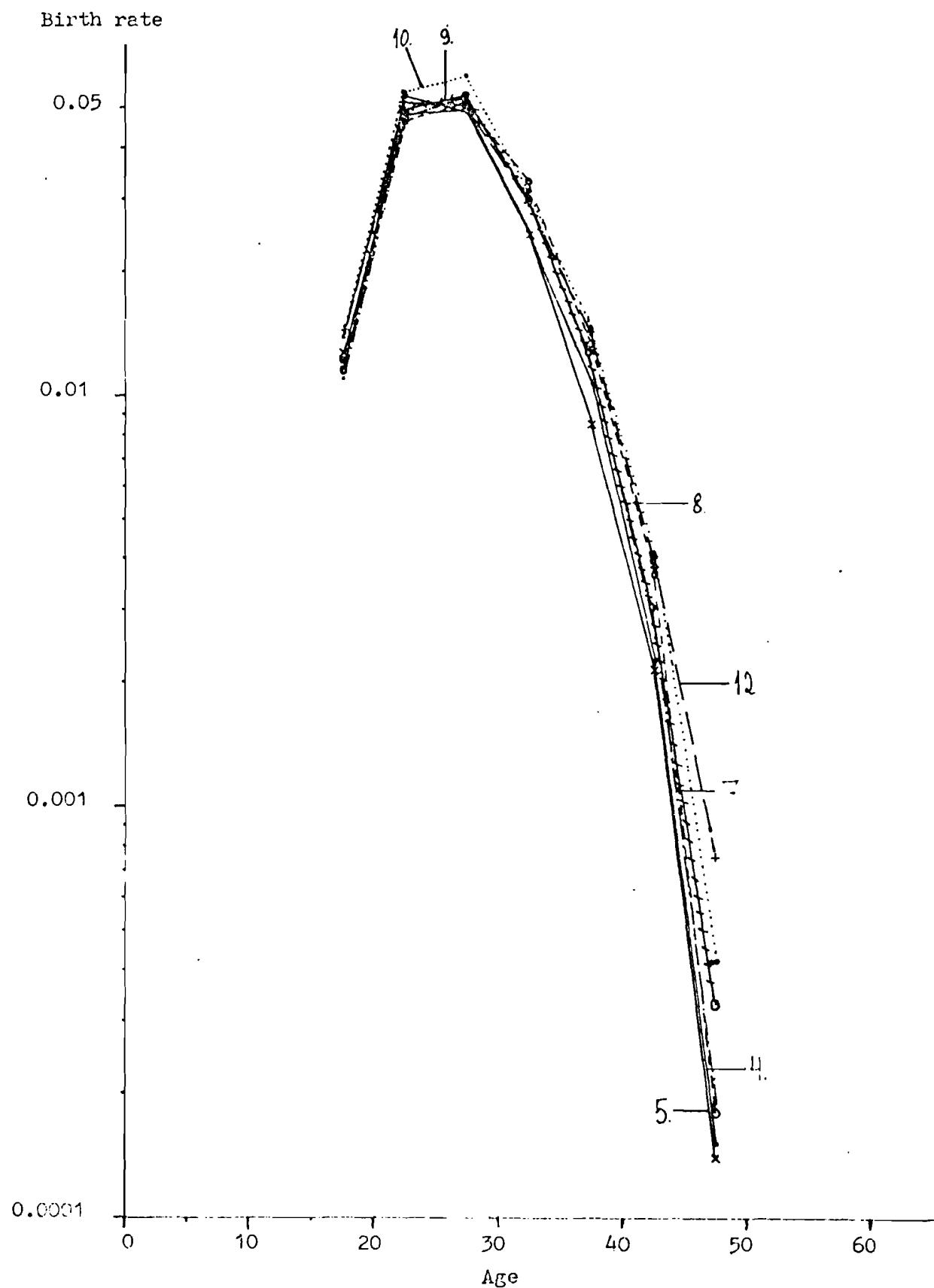


Figure 2.4. The fertility schedules by province, Finland, 1974.

in age groups 20-24 and 25-29. The mean age of the fertility curves is between 26.54 and 27.57, i.e., the difference is not more than 1 year.

2.3 Mortality

a. Historical Trends

The downward trend of the crude death rate began in the 1880's, after the overall fall following the famine years of 1866-68. This trend continued up to the 1950's, when the crude death rate fell to the level of about 9.5%. Since the end of the 1950's, the crude death rate has remained constant. The mean life expectancy has increased considerably, especially in the age group 0-4. The life expectancy at the age of 0 years was 45.3 years for men and 48.1 years for women in the first half of the 20th century, but rose to 65.9 years for men and 73.6 years for women in 1966-70.

In the decline of the mortality rate there are some features that are characteristic of Finland in comparison with development in other industrialized countries. The drop in women's mortality rate was considerably sharper than in that of men. This led to a continuous increase in the difference between the mean life expectancies of men and women of the same age. As late as the early 20th century, the difference between the mean life expectancies at birth was three years in favor of women, but in 1974 the difference grew to 8.5 years.

Table 2.6 shows the mortality rates of age groups from the years 1960 and 1970. The excess mortality of men is distinct when the mortality rates of the two sexes are compared. The mortality rates are higher among men in all age groups. The difference is particularly distinct in the age groups over 30. Higher male mortality appears in the younger age groups, partly because of accidents. Various heart and circulatory diseases are common among men over 40 years and cause excess mortality in these age groups.

Table 2.6. Age-specific death rates, Finland, 1960, 1970.
(Per 1000 population by sex and age).

Source: Statistical Yearbook of Finland, 1975, p. 69.

Age Group	Males	Females	Total	Males	Females	Total
0- 4	5.8	4.3	5.1	3.5	2.6	3.1
5- 9	0.6	0.4	0.5	0.6	0.4	0.5
10-14	0.6	0.3	0.4	0.5	0.2	0.4
15-19	1.2	0.4	0.8	1.2	0.4	0.8
20-24	1.5	0.7	1.1	1.5	0.5	1.0
25-29	2.0	0.8	1.4	1.7	0.5	1.1
30-34	2.6	1.1	1.9	2.3	0.8	1.6
35-39	3.7	1.6	2.6	3.8	1.2	2.5
40-44	5.2	2.4	3.7	5.3	1.9	3.6
45-49	8.4	3.7	5.9	8.7	3.1	5.7
50-54	13.5	5.4	9.2	13.2	5.2	8.8
55-59	20.3	8.6	13.9	20.9	7.4	13.4
60-64	32.1	15.2	22.4	31.9	13.1	21.2
65-69	47.8	26.2	34.9	47.2	22.8	32.7
70-74	73.8	49.6	58.5	74.0	41.5	53.5
75-79	107.3	87.3	94.2	107.0	76.8	87.3
80-	189.3	174.7	179.4	195.1	162.8	172.6
TOTAL	9.7	8.3	9.0	10.7	8.5	9.6

The regional differences in the mean life expectancy can be investigated for the years 1961-1965 on the basis of the existing statistics.

As illustrated in Table 2.7, the mean life expectancies of both men and women were somewhat higher in the southern parts of the country. Life expectancy was lowest for men in northern Karelia, i.e., 63.6 years, whereas the mean life expectancy was highest for women in southwestern inland, i.e., 73.7 years.

In all regions, the mortality rate was distinctly higher among men. It was highest among men in northern Karelia, where the difference between the life expectancies of men and women at the age of 0 years was more than 8 years. The difference was least in central Ostrobothnia, where it was slightly over 6 years.

Table 2.7. Mean life expectancy by region
in 1961-1965.

Source: CICRED, 1974, p. 17.

Region	Men		Women	
	Mean life Expectancy	All Finland = 100	Mean life Expectancy	All Finland = 100
Total	65.4	100.0	72.6	100.0
Province of Uusimaa				
Uusimaa	65.7	100.5	73.3	101.0
Ahvenanmaa	—	—	—	—
Province of Turku and Pori				
Varsinais-Suomi	67.1	102.6	73.7	101.5
Satakunta	65.1	101.1	72.9	100.4
Province of Häme				
Tammemnaa	66.7	102.0	73.1	100.7
Southern Häme	66.0	100.9	72.6	100.0
Province of Kymi				
Southeastern Finland	65.4	100.0	73.2	100.8
Province of Mikkeli				
Southern Savo	65.3	99.8	72.2	99.4
Province of Pohjois-Karjala				
Northern Karelia	63.7	97.4	71.8	98.9
Province of Kuopio				
Northern Savo	65.0	99.4	72.3	99.6
Province of Keski-Suomi				
Central Finland	65.5	100.2	72.0	99.2
Province of Vaasa				
Southern Ostrobothnia	67.0	102.4	73.3	101.0
Central Ostrobothnia	65.8	100.6	72.2	99.4
Province of Oulu				
Kainuu	65.1	99.5	72.0	99.2
Northern Ostrobothnia	64.0	97.9	72.0	99.2
Province of Lappi				
Lappi	64.7	98.9	72.4	99.7

b. Regional Difference: Situation in 1974

The observed age and region-specific death rates for 1974 are presented in Table 2.8. They are obtained in a way similar to the fertility rates.

The death rates in Finland are among the lowest in the world. The relationship between the regional gross and crude death rates

Table 2.8. Observed death rates.

Age	UUDENMAA	TURUN	AHVENAN	HAMEEN	KYMEEN	MIKKELI	POH.KAR	KUOPION	KESK.SU	VAASTAN
0	0.002637	01002576	0.001985	0.002823	0.003245	0.002480	0.003499	0.002849	0.002830	0.003115
5	0.000324	0.000452	0.000000	0.000328	0.000387	0.000312	0.000594	0.000456	0.000597	0.000266
10	0.000249	0.000342	0.000000	0.000297	0.000321	0.000370	0.000820	0.000260	0.000377	0.000308
15	0.000861	0.000942	0.000655	0.000818	0.001221	0.001089	0.000579	0.000941	0.000856	0.000853
20	0.000961	0.001059	0.000000	0.000796	0.001141	0.001148	0.001065	0.001262	0.001023	0.000805
25	0.001095	0.001016	0.000971	0.001171	0.001480	0.001051	0.001984	0.001549	0.000728	0.000897
30	0.001331	0.001220	0.002717	0.001348	0.001924	0.001660	0.001752	0.001730	0.001709	0.001623
35	0.001714	0.002246	0.001649	0.001817	0.002320	0.002212	0.002176	0.003305	0.002290	0.001933
40	0.003913	0.002713	0.005226	0.003717	0.003474	0.003455	0.003905	0.003833	0.002784	0.002810
45	0.005726	0.004440	0.006504	0.005691	0.006777	0.006340	0.005676	0.005932	0.005382	0.005327
50	0.007606	0.008024	0.004684	0.007745	0.008299	0.010300	0.010355	0.009948	0.008462	0.006780
55	0.012828	0.010730	0.015760	0.011142	0.013039	0.014007	0.014708	0.013021	0.013797	0.011285
60	0.019247	0.016990	0.016055	0.018558	0.020291	0.020496	0.020879	0.022731	0.021280	0.016884
65	0.029384	0.028200	0.028986	0.029016	0.032950	0.033524	0.034710	0.029238	0.030517	0.028294
70	0.044520	0.044526	0.044944	0.045788	0.049456	0.056076	0.050838	0.052617	0.053607	0.046814
75	0.104140	0.109623	0.104882	0.110438	0.121184	0.129225	0.122892	0.117925	0.121554	0.115560
Gross	0.236536	0.235096	0.235019	0.241493	0.267509	0.283746	0.265430	0.267597	0.267793	0.243556
Crude	0.000770	0.009833	0.011586	0.009448	0.010709	0.011697	0.010373	0.010278	0.009723	0.009649
M. Age	68.6854	69.1628	69.0294	68.9966	68.6965	69.2252	68.4918	68.5554	69.1734	69.3433

is given in Figure 2.5. Two groups of provinces may be distinguished. The first contains the northern and eastern provinces and has high gross mortality rates, especially among men. The relatively high mortality in this part of Finland is a well-known fact and has induced a number of regional mortality studies. Several explanations have been proposed, in particular food habits. However, no consensus exists on the reasons.

For a same gross mortality rate, differences in crude death rates are caused by differences in the age composition of the population (Figure 2.5).

The provinces located in the right part of the diagram have mean age of the population above the national average.

The mortality schedules by province are presented in Figure 2.6.

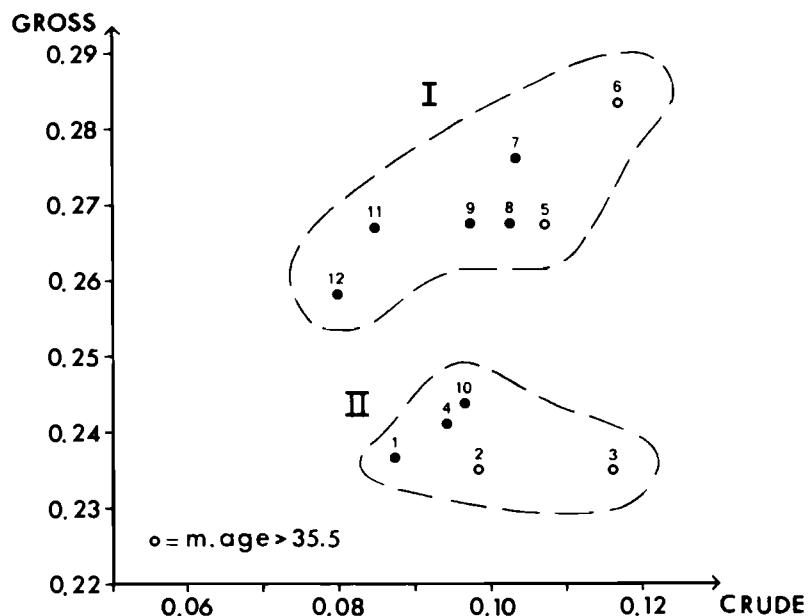


Figure 2.5. Gross and crude death rates by province, Finland, 1974.

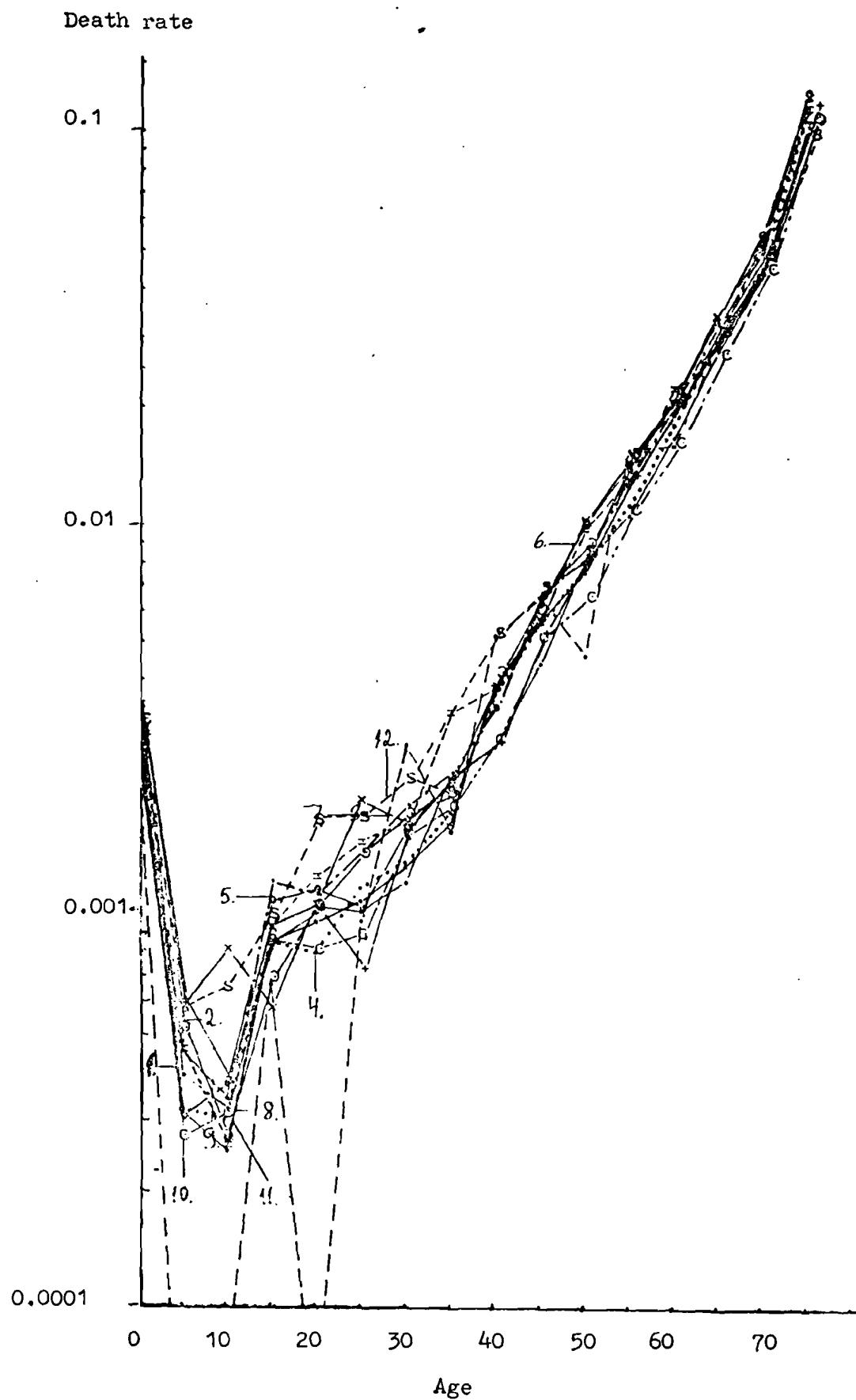


Figure 2.6. The mortality schedules for provinces, Finland, 1974.

2.4. Migration

a. Historical Trends

During the time of the agrarian society, the general distribution of the population corresponded largely to the distribution of fertile land. The rapid industrialization of Finnish society brought about, however, a redistribution of the population. As a consequence of industrialization, people began to gravitate toward urban communities, located mostly in southwestern and southern Finland, where harbors and the urbanization process that had started earlier offered industry the most favorable conditions.

This developmental process in the population structure also involved changes in the structure of the family unit. The average family size and birth rate decreased, one reason being that in industrial communities children could not be put to work nearly so effectively as in agriculture. The high agrarian birth rate and low urban birth rate resulted in a conspicuous difference between the population structure of the two sections of the country.

Figure 2.6. shows the regional distribution of the Finnish population by provinces in 1970 and the growth of the population in the past two decades. It can be seen that the population has grown, on the one hand, in the southernmost provinces and, on the other, in the two northernmost provinces. The relatively vigorous growth experienced by the provinces in southern Finland is due expressly to the migratory movement into urban communities and their near surroundings. The populations of the northern provinces of Lapland and Oulu, again, have grown mainly as a result of high birth rates. It was not until the end of the period that the population figures in these provinces began to show a downward trend.

The strongest migratory magnets in the south have been the cities and other urban centers of Uusimaa province. The exceptional position of this province becomes quite clear upon an

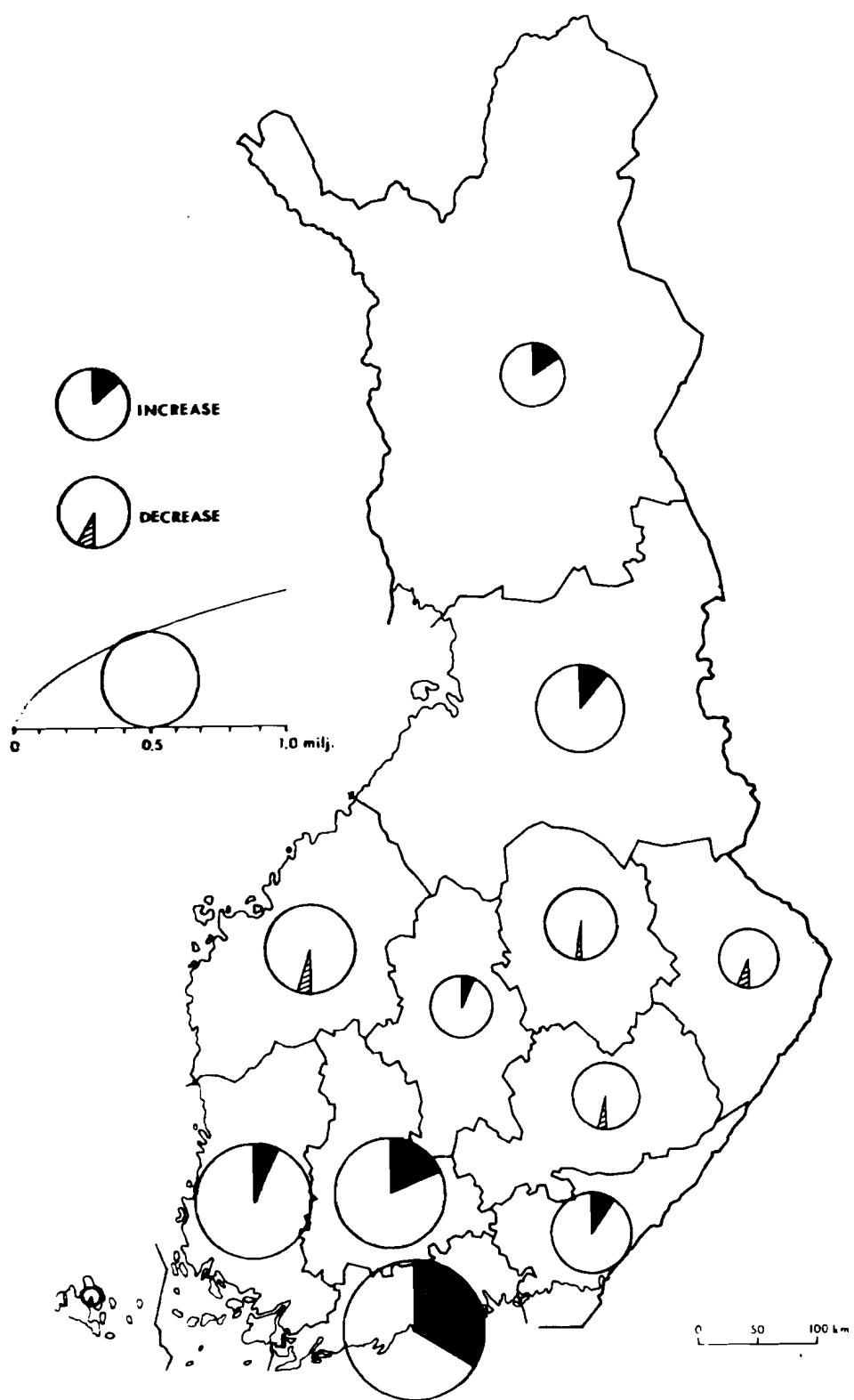


Figure 2.6. Regional distribution of population in 1970 and change of population in 1950-1970 in relation to population size in 1970.

Source: CICRED, 1975, p. 30.

examination of the net outmigration of the province to its 1970 population (Figure 2.7). The diagram reveals that Uusimaa has experienced a migratory gain of the same magnitude in different five-year periods. The province received no less than a quarter of its 1970 population through immigration taking place during the previous two decades. It was net until the end of the 1960s that the migratory gain began to have any significant effect on the population structure in the other provinces experiencing such a gain.

The heaviest losses through migration have been experienced by the provinces of Pohjois-Karjala, Mikkeli and Kuopio. The province of Lappi is interesting in the respect that, exceptionally, it scored migratory gains in the 1956-60 period but ten years later sustained heavy migratory losses, mostly on account of the massive wave of emigration to Sweden.

A regional study of the migratory flows between the Finnish provinces reveals that Uusimaa registered gains during the entire twenty-year period at the expense of all the other regions. During the 1966-70 period, also the province of Häme started to emerge as a clear population gainer through migration (Figure 2.8).

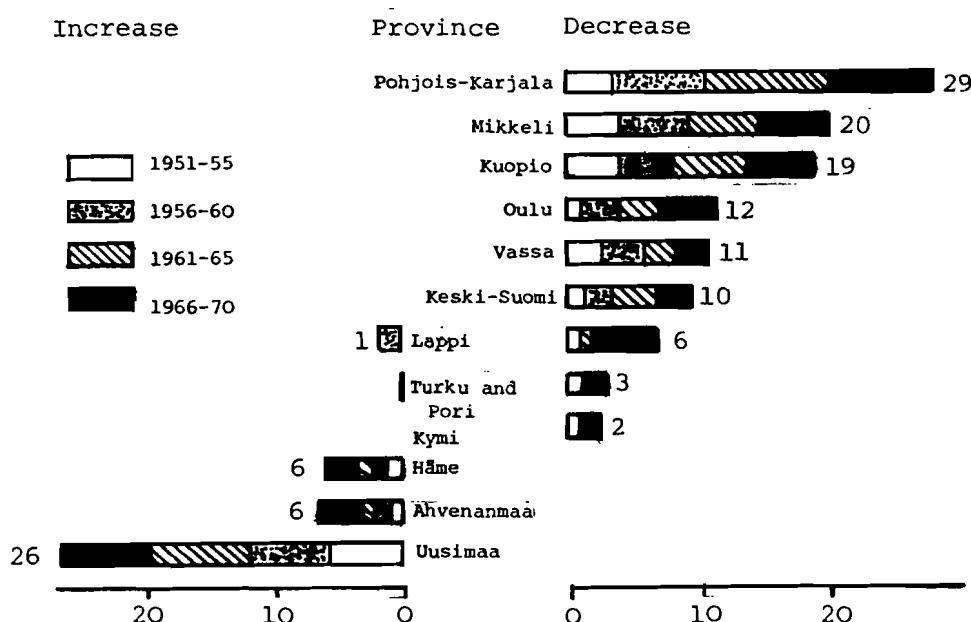


Figure 2.7. Changes in population of 1970 caused by internal migration, given in percentages by province in quinquennial periods 1950-1970.

Source: CIRED, 1975, p. 31.

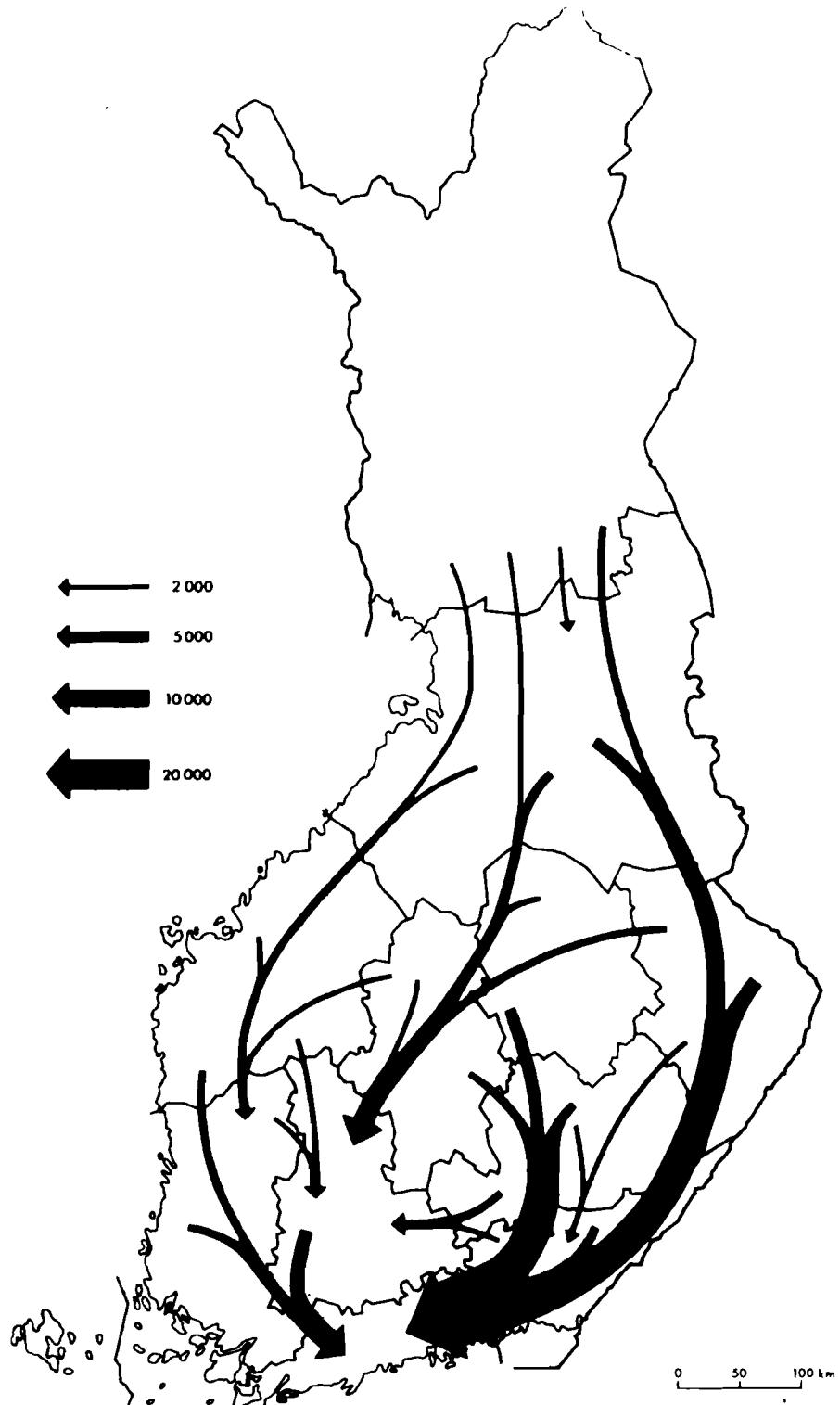


Figure 2.8. Directions of net in-migration flows between provinces in 1966-1970.

Source: CICRED, 1975, p. 32.

Häme was on the losing end of the migratory balance sheet only in comparison with Uusimaa. The persistent flow of migratory streams in the same direction has led to the ever-greater concentration of the Finnish population in southern and southwestern Finland. This trend was at first slowed down by the markedly higher birth rate of the regions sustainaing migratory losses. The levelling off that has taken place in the birth rate meant, however, that the migratory currents now reflect more and more the over-all population trends in the different regions. In other words, the regional differences in the birth rate and the natural population growth are affecting the regional distribution of the population less than are migratory movements.

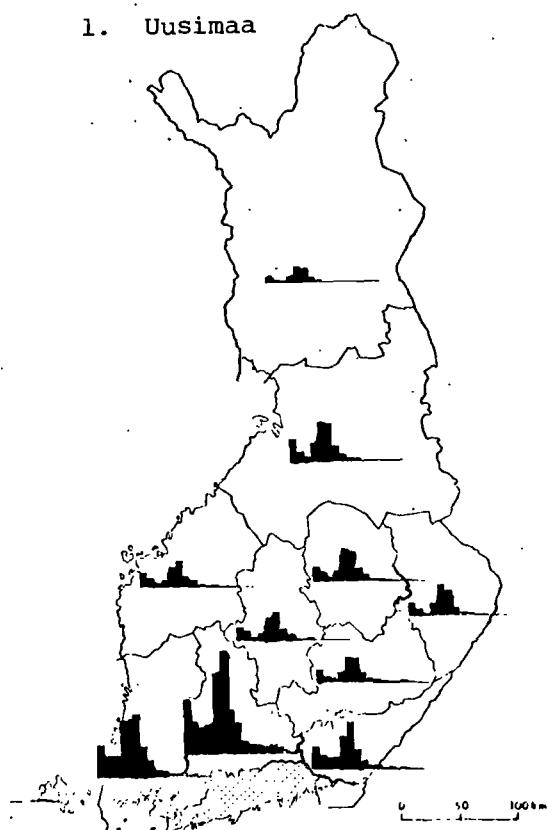
b. Migration in 1974

Figure 2.9 presents, for each region of origin, the number and age structure of the out-migrants by region of destination. A number of observations can be made. First, the province of Uusimaa is a major destination area. On the other hand, however, it is an important source of out-migrants. Second, two other southern provinces are important in- and out-migration provinces: Turku and Pori and Häme. A third observation relates to the migration distance. Distance negatively affects migration. A considerable proportion of out-migrants stay in adjacent provinces. Fourth, the province of Ahvenanmaa exchanges migrants with only three provinces: Uusimaa, Turku and Pori and Vaasa. This is due to the representation of the Swedish language in these three provinces.

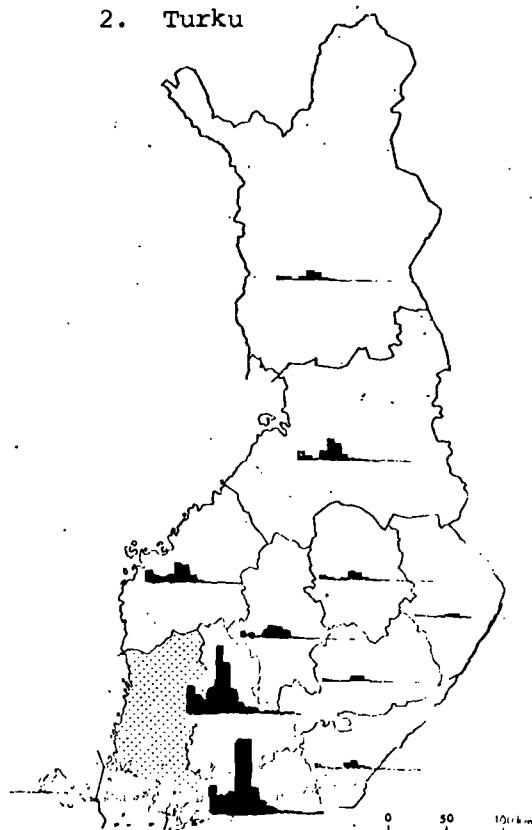
Out-migration rates by provinces are given in the Appendix 2. The total migration rates are the sums of the migration rates outside the province. The schedules of intra-provincial migration and of migration towards other provinces are drawn in Figure 10. One observes high migration rates in age group 20-24 and in age group 0-4.

A comparison between intra-provincial and inter-provincial migration rates desrves some attention. Figure 2.11 gives the

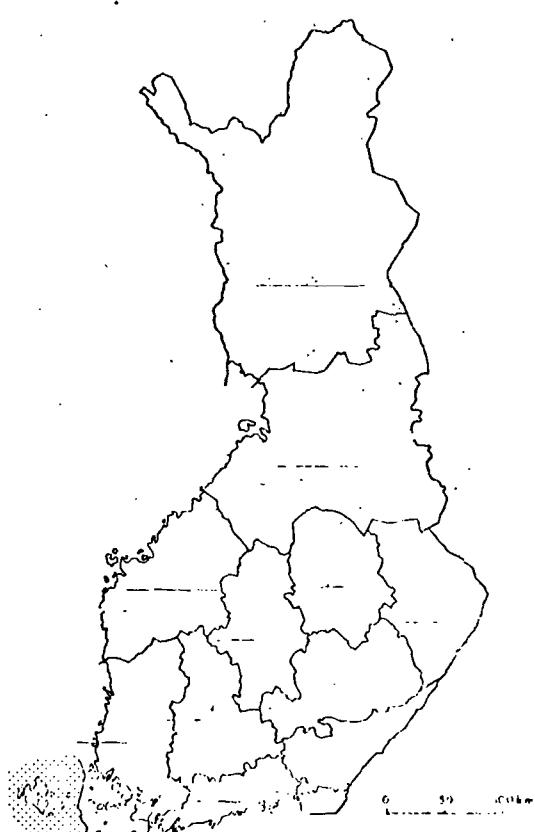
1. Uusimaa



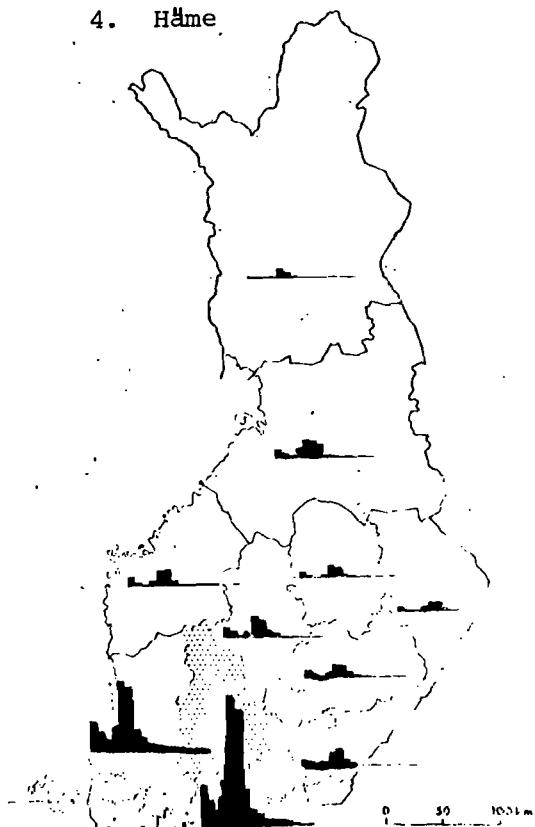
2. Turku



3. Ahvenanmaa

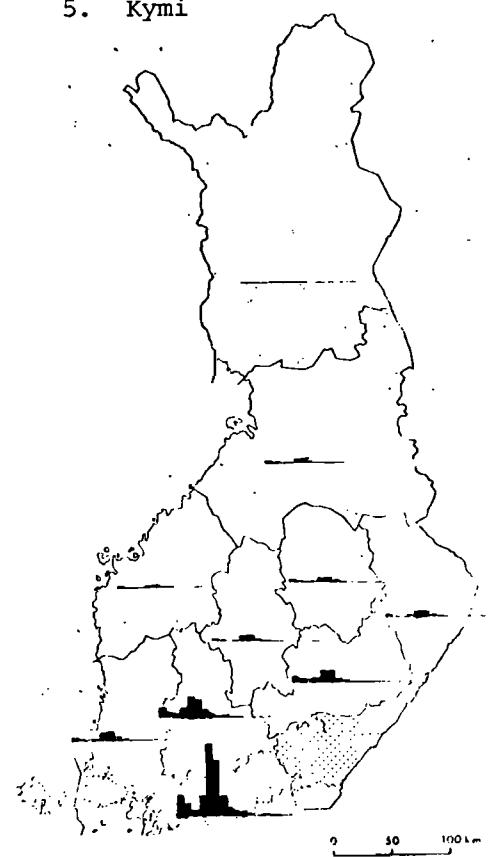


4. Häme

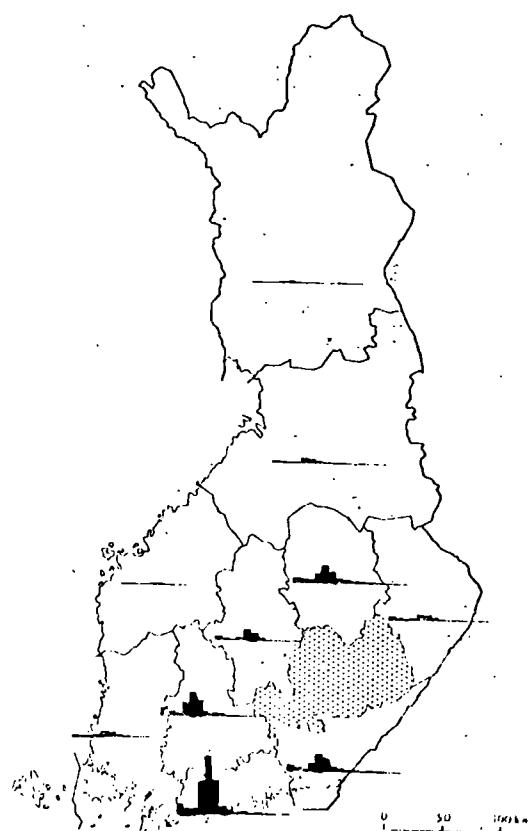


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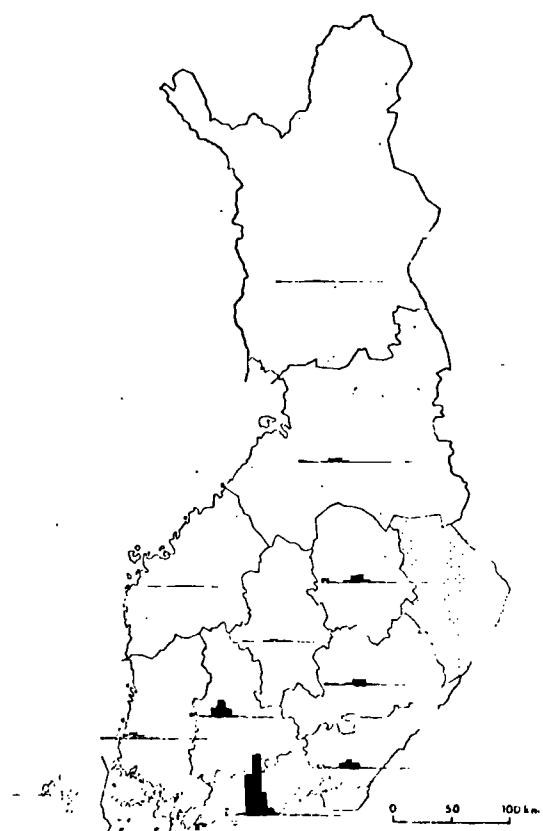
5. Kymi



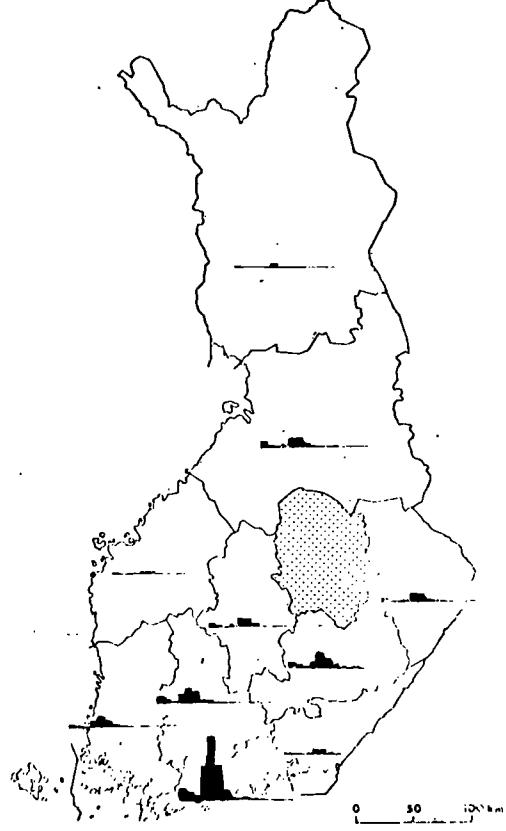
6. Mikkeli



7. Pohjois-Karjala



8. Kuopio



(continued)

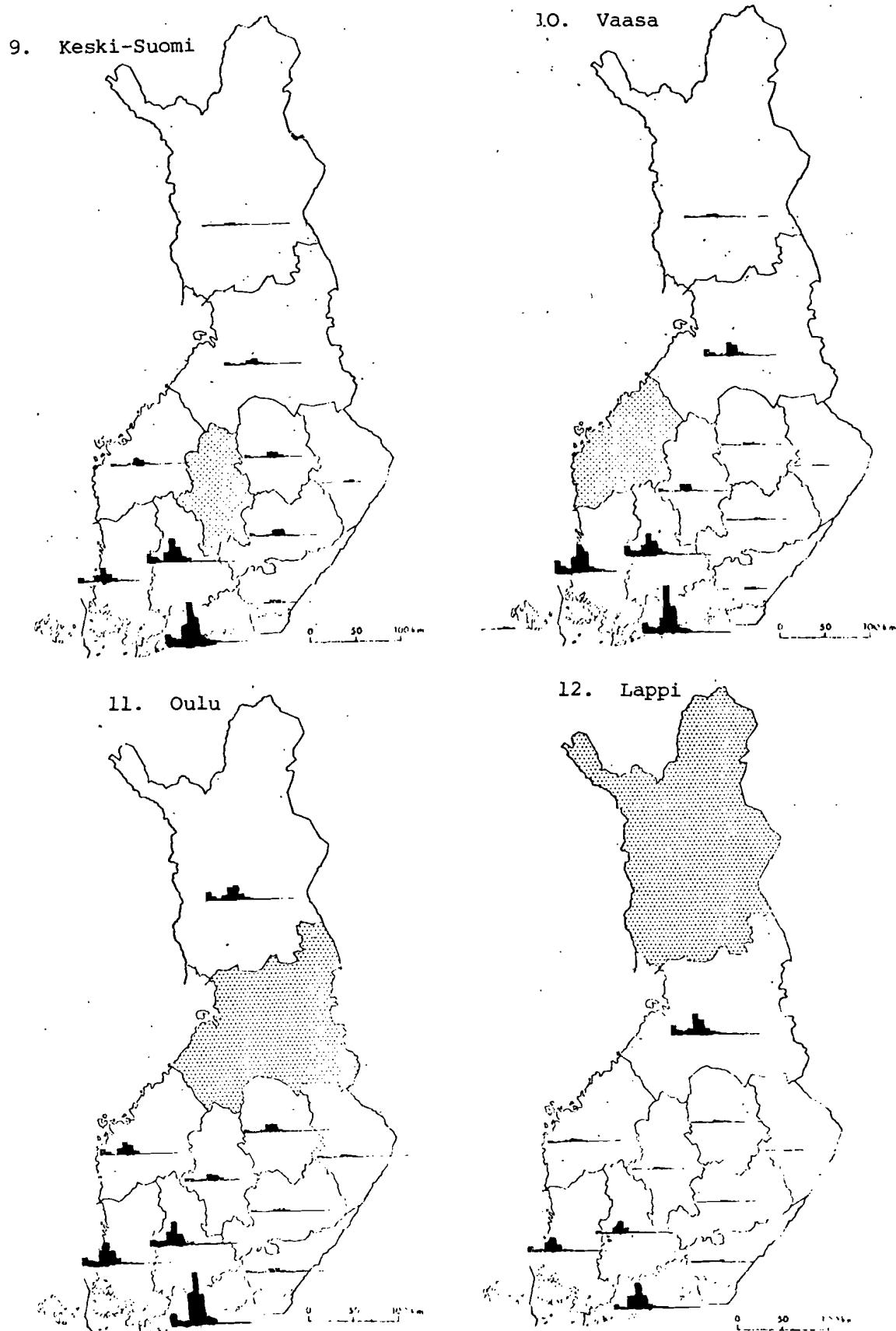


Figure 2.9. The number and age structure of the out-migrants by province of origin, Finland, 1974.

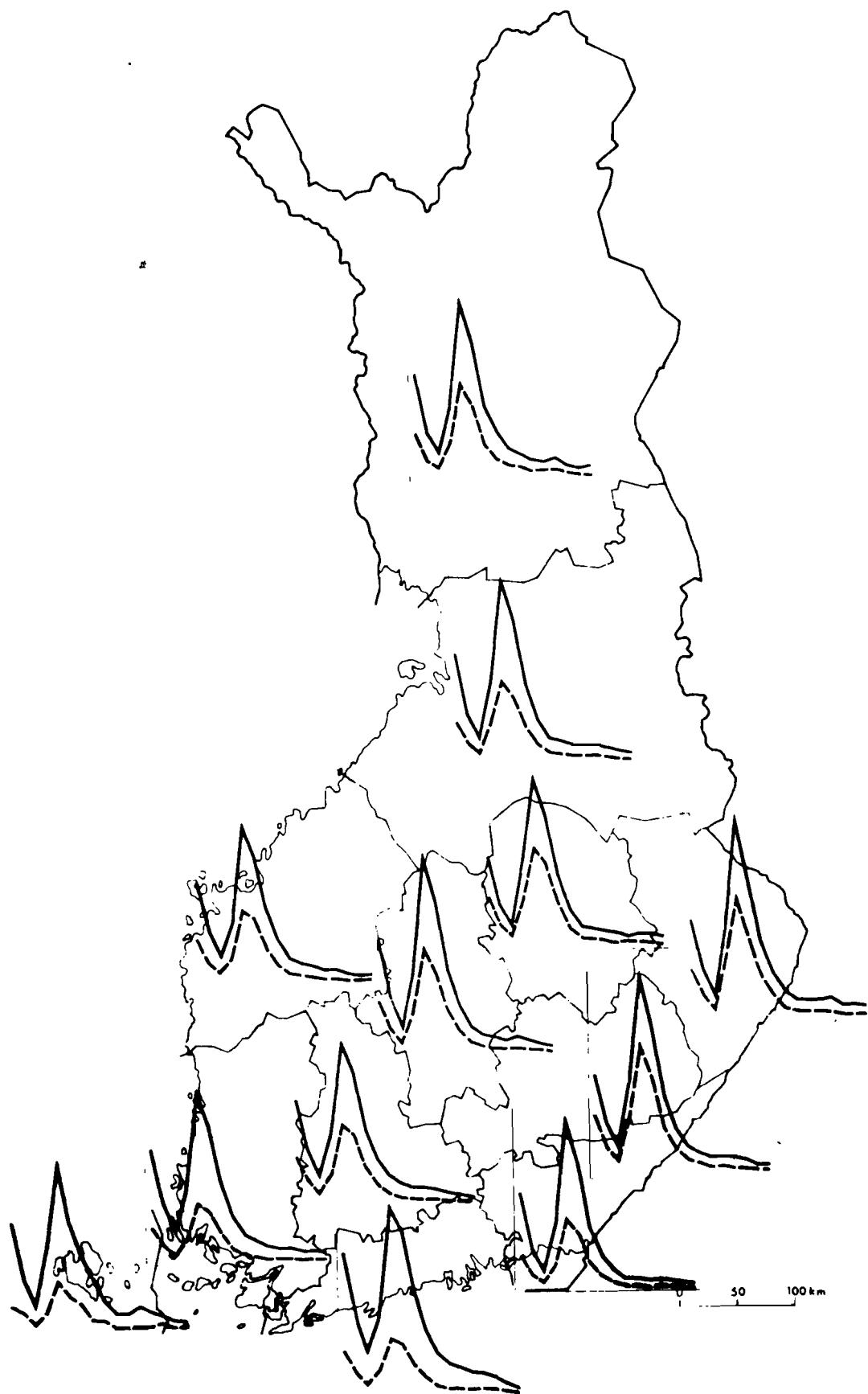


Figure 2.10. The total and intra-provincial out-migration rates by provinces, Finland, 1974.

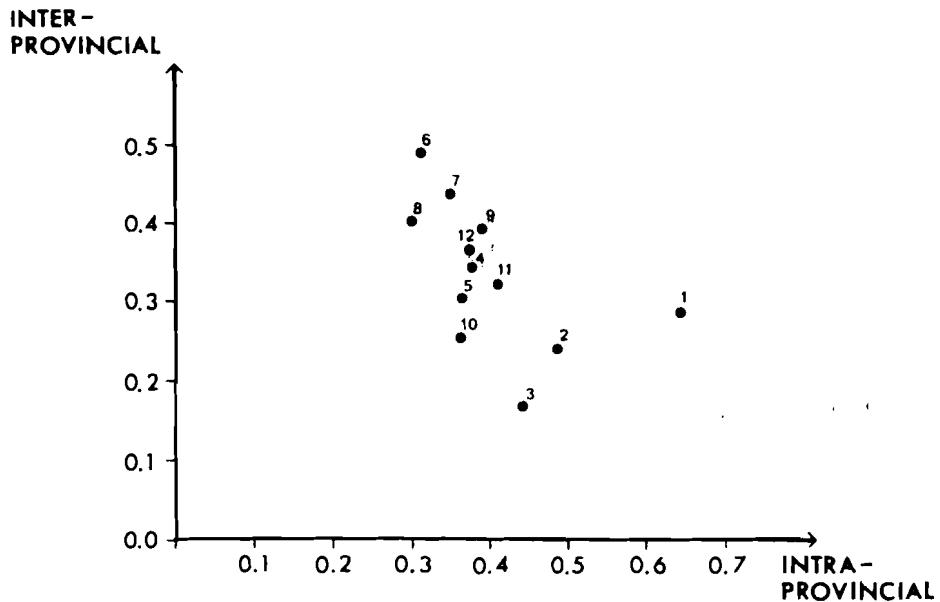


Figure 2.11. Gross out-migration rates.

gross migration rates. Observe the high intra-provincial migration rate of Uusimaa. This may be explained by the suburbanization process around Helsinki. The inter-provincial migration rate is lowest for the isolated Swedish-speaking province of Ahvenanmaa. Interesting is the decline in the gross out-migration rates as the intra-provincial migration rates increase.

The mean age of total inter-provincial migration schedule is between 23.91-26.06 years. The mean age of the intra-provincial migration rate is between 24.44-26.23 years.

2.5. Total Population System in 1974

Table 2.9 summarizes the demographic information on the whole system, i.e., the country. It is an aggregation of the regional data. The migration column contains the number of migrants between the regions in the system (provinces).

Table 2.9. Total population system.

AGE	POPULATION		BIRTHS		DEATHS		MIGRATION		OBSERVED RATES		
	ABSOLUTE	PERCENT	ABSOLUTE	PERCENT	ABSOLUTE	PERCENT	ABSOLUTE	PERCENT	BIRTH	DEATH	MIGRATION
0	301733.	6.4328	0.	0.0000	839.	1.8780	30439.	11.0275	0.000000	0.002781	0.102881
5	361840.	7.7143	0.	0.0000	145.	0.3246	18821.	6.8185	0.000000	0.000401	0.052015
10	387373.	8.2586	5.	0.0080	132.	0.2955	10716.	3.8822	0.000013	0.000341	0.027663
15	405257.	8.6399	5391.	8.6295	358.	0.8013	27344.	9.9063	0.013303	0.000883	0.067473
20	427498.	9.1141	21600.	34.5755	436.	0.9759	66481.	24.0850	0.050527	0.001020	0.155512
25	436247.	9.3006	22810.	36.5124	517.	1.1572	55377.	20.0622	0.052287	0.001185	0.126940
30	306629.	6.5372	8505.	13.6141	468.	1.0475	23176.	8.3963	0.027737	0.001526	0.075583
35	288847.	6.1581	3284.	5.2568	595.	1.3318	12856.	4.6575	0.011369	0.002260	0.044528
40	279945.	5.9683	802.	1.2836	1005.	2.2495	7639.	2.7675	0.002865	0.003590	0.027288
45	287010.	6.1189	75.	0.1201	1649.	3.6910	6035.	2.1864	0.000261	0.005745	0.021027
50	263173.	5.6107	0.	0.0000	2166.	4.8482	4654.	1.6861	0.000000	0.008230	0.017684
55	226674.	4.8326	0.	0.0000	2865.	6.4128	3591.	1.3010	0.000000	0.012639	0.015842
60	235159.	5.0135	0.	0.0000	4537.	10.1553	3704.	1.3419	0.000000	0.019293	0.015751
65	198413.	4.2301	0.	0.0000	5985.	13.3965	2574.	0.9325	0.000000	0.030164	0.012973
70	139736.	2.9791	0.	0.0000	6652.	14.8894	1419.	0.5141	0.000000	0.047604	0.012155
75	144998.	3.0913	0.	0.0000	16327.	36.5453	1201.	0.4351	0.000000	0.112602	0.008283
TOTAL	4690532.	100.0000	62472.	100.0000	44676.	100.0000	276027.	100.0000	0.158362	0.250065	0.779577
CRUDE									0.013319	0.009525	0.058848
M. AGE	34.0376		26.3300		65.0753		24.4435	26.9615	68.8471	26.3224	

3. MULTIREGIONAL POPULATION ANALYSIS*

The previous sections gave an overview of recent trends in regional demographic changes in Finland. Regional differences in fertility and mortality, and interregional migration flows cause regionally deviating demographic features. It is the purpose of this section to describe these differences and to analyse their impacts on important demographic characteristics. The methodology used is provided by multiregional demography. The advantage of this new field of study is that it enables one to consider simultaneously several regions and to trace through the effect of changes in one region on each other region.

The basic parameters of our analysis consist of age and region-specific rates of mortality, fertility and migration. These schedules of age-specific rates are computed from the data presented in the previous section and are given in Appendix B. Note that the schedules are independent of the observed age structure and regional distribution of the population. They are pure representations of the age effects of the components of demographic change. A description and analysis of these age effects on demographic characteristics is the objective of this part of the paper. Three sections will be distinguished. In the first, the multiregional life table is discussed and the important summary measure of the life expectancy matrix is computed. The second section confronts the hypothetical life table population with observed fertility and migration schedules, and derives a number of important statistics describing the fertility and migration experience in the multiregional population system. In addition, the long-run impact of current demographic behavior is explained by introducing the concept of multiregional stable population. The final section presents the short, medium and long-run impact of the currently observed schedules of mortality, fertility and migration and of the age and regional composition of the population.

*This section is written with Frans Willekens.

3.1 The Multiregional Life Table

The multiregional life table is a collection of statistics describing the mortality and migration experiences of a set of regional birth cohorts. A regional birth cohort is a group of people, 100,000 say, born at the same moment in time and in the same region. If these cohorts are subjected to the observed schedules or age-specific rates of mortality and migration as they age, a hypothetical population would evolve with the interesting feature that it is independent of the age and regional structure of the observed population. This hypothetical population will be denoted as the life table population.

The methodology of multiregional life table construction is described in Rogers (1975a, Chapter 5), and the computer program is given in Willekens and Rogers (1976). The first step in constructing a life table is to compute age-specific transition probabilities from the observed rates. By way of illustration, the transition probabilities of 20-year-old persons are repeated in Table 3.1. For example, the probability that a person living in the province of Uusimaa at age 20 will still be alive at age 25 is 99.5%. The probability that he is still in Uusimaa is 78.6%. Hence, there is a 20.9% chance that he moves to other provinces. In other words, of 100 20-year-old persons in Uusimaa, about 21 will be in other provinces 5 years later. An average of about 3 will be in Turku and Pori, 5 in Häme, 2 in Kymi, etc. The probability of dying is obtained as a residual; namely, unity minus the probability of survival. It not only depends on the death rate in Uusimaa, but also on the death rates in the other provinces to which a person of age 20 might migrate. The remarkably low probability of dying in Ahvenanmaa is largely due to measurement problems. In 1974, no deaths of 20-24-year-olds were counted in this small province. The observed zero death rate, applied to a birth cohort, implies that no one dies in Ahvenanmaa between those ages. Hence, all deaths of Ahvenanmaa-born people between these ages occur in other regions. This can also be seen from the life history of the birth cohort of Ahvenanmaa.

Table 3.1. Transition probabilities of 20-year-old persons, Finland: 12 provinces.

Region of Destination	Region of Origin											
	1	2	3	4	5	6	7	8	9	10	11	12
Uusimaa	0.78579	0.07554	0.06598	0.12325	0.13625	0.17266	0.20189	0.15560	0.13929	0.09778	0.10652	0.10773
Turku and Pori	0.03288	0.76843	0.04722	0.06412	0.02031	0.02540	0.03052	0.03050	0.05053	0.05700	0.04467	0.05841
Ahvenanmaa	0.00199	0.00253	0.81260	0.00052	0.00033	0.00027	0.00052	0.00057	0.00064	0.00483	0.00096	0.00027
Häme	0.04727	0.06092	0.07299	0.69886	0.04206	0.06994	0.06067	0.04151	0.07794	0.04375	0.04675	0.04861
Kymi	0.01991	0.00711	0.00330	0.01430	0.72057	0.04990	0.03461	0.01745	0.01477	0.00633	0.00963	0.00991
Mikkeli	0.01373	0.00587	0.00087	0.01196	0.02033	0.55459	0.02034	0.03360	0.01934	0.00362	0.00614	0.00550
Pohjois-Karjala	0.01653	0.00442	0.00086	0.00857	0.01139	0.01703	0.57875	0.02093	0.00635	0.00278	0.00683	0.00334
Kuopio	0.01845	0.00930	0.00323	0.01258	0.01060	0.04661	0.02543	0.63566	0.01923	0.00672	0.01510	0.01024
Keski-Suomi	0.01355	0.01213	0.00332	0.01934	0.01122	0.02944	0.01238	0.02254	0.62206	0.01535	0.01322	0.00992
Vaasa	0.01229	0.01846	0.03569	0.01505	0.00623	0.00626	0.00605	0.00846	0.02155	0.72557	0.02414	0.01326
Oulu	0.02343	0.02070	0.01260	0.01829	0.01057	0.01682	0.01732	0.02241	0.01691	0.02618	0.69750	0.07491
Lappi	0.00935	0.00935	0.00088	0.00901	0.00457	0.00549	0.00630	0.00471	0.00694	0.00595	0.02332	0.64985
TOTAL PROBABILITY OF SURVIVAL	0.99517	0.99477	0.99955	0.99585	0.99442	0.99443	0.99476	0.99395	0.99494	0.99586	0.99478	0.99195
PROBABILITY OF DYING	0.00483	0.00523	0.00045	0.00415	0.00558	0.00557	0.00524	0.00605	0.00506	0.00414	0.00522	0.00805

The complete life history of all the birth cohorts may be obtained by consecutive application of the age-specific transition probabilities. For instance, from the 100,000 babies born in Uusimaa, a total of

$$100,000 \times 0.80798 = 80,798$$

will still be there at age 5. Some, namely

$$100,000 \times 0.02884 = 2884 . ,$$

will migrate to the province of Turku and Pori.

$$100,000 \times 0.00069 = 69$$

will move to Ahvenanmaa, and so on. The number of deaths is equal to

$$100,000 \times 0.01319 = 1319 .$$

This procedure distributes the birth cohort of Uusimaa over the various regions and the state of death at age 5. An analogous procedure yields the regional distribution of this cohort at age 10. For instance, of the 80,798 people in Uusimaa at age 5,

$$80,798 \times 0.89565 = 72,367$$

will still be there at age 10, and

$$80,798 \times 0.01801 = 1455$$

will be in the province of Turku and Pori. Similarly, we may follow the life history of those 2884 migrants in Turku and Pori.

The life histories of the people born in the various provinces may be aggregated to give the expected number of survivors at exact age by place of birth and place of residence. Table 3 of the Appendix shows that, of the 100,000 babies born in Uusimaa, 4340 are living in Turku and Pori at age 10. Some (2884 x 0.91520 = 2639) have moved to the province before age 5 and have stayed there. Some (80798 x 0.01801 = 1455) moved directly from Uusimaa, and the rest have first moved to other provinces before coming to Turku and Pori.

These results may also be interpreted as probabilities. If divided by the radix or size of the birth cohort, they denote the probabilities of being in the various regions when born in a specific region. For example, the probability that a person born in Uusimaa will be in Turku and Pori at age 20 is 0.06045. In other words, 6.0% of the babies born in Uusimaa will be in Turku and Pori when they are 20 years old (Table 3.2). Interesting is the distribution of the birth cohort of Uusimaa at age 75. About half (50.6%) will still be alive. Only 18.8% will be in the region of birth. Striking is the result for Lapland. Of the babies born in this region, only 8.2% will live there when they reach age 75, but 41.2% will be in the rest of Finland, with most in Uusimaa (10.7%) and Turku and Pori (7.4%).

Thus far, life table statistics have been presented that may be interpreted as probabilities, conditional probabilities, and unconditional probabilities. Probabilities allow a detailed investigation of inter-provincial transitions at various ages. However, these probabilities may also be used to derive measures of the average duration of stay in each region by persons of various ages.

It is convenient to express the duration of residence per unit cohort, i.e., cohort of a single person. Table 3.3 presents the number of years lived in each region per unit birth cohort. It gives the average length of stay in each region between ages 20-25 per baby born in the various regions. For instance, a baby born in the various regions. For instance, a person born

Table 3.2. Probabilities of survival from birth to exact age 20
by region, Finland, 12 provinces.

region of residence at age 20

region of birth

	1-	2-	3-	4-	5-	6-	7-	8-	9-	10-	11-	12+
UUSIMAA	0.63071	0.68991	0.76660	0.13295	0.13584	0.15117	0.17238	0.14473	0.13249	0.07951	0.10592	0.09466
TURKU	0.06045	0.67139	0.06085	0.08760	0.03601	0.04186	0.04944	0.04321	0.06135	0.07566	0.06179	0.07426
AHVENAN	0.00210	0.00280	0.75553	0.00096	0.00092	0.00042	0.00041	0.00039	0.00073	0.00434	0.00086	0.00040
HAME	0.08552	0.08132	0.02152	0.58592	0.06667	0.09334	0.07048	0.06857	0.09836	0.05648	0.05618	0.05331
KYMI	0.03633	0.01506	0.00723	0.02620	0.61255	0.06684	0.05376	0.02926	0.01858	0.00993	0.01692	0.01633
MIKKELI	0.02064	0.00958	0.00446	0.02720	0.03445	0.46685	0.03119	0.04028	0.02601	0.00865	0.01209	0.00927
PÖH. KAR	0.02060	0.00039	0.00350	0.01470	0.01739	0.02909	0.49457	0.02799	0.01143	0.00493	0.01060	0.00662
KUOPIO	0.02429	0.01300	0.00637	0.01716	0.01701	0.05589	0.03908	0.52343	0.02596	0.00884	0.01900	0.01420
KESK. SU	0.02313	0.01681	0.01983	0.02776	0.01438	0.03107	0.01396	0.02887	0.53383	0.01766	0.01953	0.01252
VÄÄSA	0.02592	0.02967	0.03014	0.02577	0.01330	0.01365	0.01123	0.01500	0.02773	0.67025	0.03435	0.02308
OULU	0.03778	0.02658	0.00844	0.03033	0.01969	0.02148	0.02626	0.04304	0.02925	0.03120	0.0582	0.09048
LAPLAND	0.01190	0.01229	0.00153	0.00910	0.00705	0.00741	0.01080	0.01302	0.01162	0.01008	0.03591	0.58040
TOTAL	0.97947	0.97881	0.96598	0.97665	0.97526	0.97908	0.97363	0.97770	0.97733	0.97752	0.97696	0.97757

Table 3.3. Time spent in each region between ages 20 and 25
per unit birth cohort, Finland: 12 provinces.

Region of Residence	Region of Birth											
	1-	2-	3-	4-	5-	6-	7-	8-	9-	10-	11-	12-
UUSIMAA	2.92272	0.59629	0.46564	0.84903	0.88827	0.9421	1.11484	0.94927	0.87053	0.58144	0.71193	0.66265
TURKU	0.35223	3.00338	0.37649	0.50918	0.22403	0.26136	0.29741	0.27254	0.37977	0.45539	0.37513	0.44762
AHVENAN	0.01408	0.01799	0.42968	0.00686	0.00596	0.00381	0.00409	0.00402	0.00583	0.02885	0.00608	0.00379
HAME	0.47332	0.47559	0.14415	2.54073	0.38698	0.53051	0.42576	0.39750	0.56559	0.34678	0.35075	0.34104
KYMI	0.19964	0.08867	0.04505	0.14872	2.65255	0.36434	0.29317	0.16918	0.11682	0.06419	0.10113	0.10651
MIKKELI	0.11236	0.05661	0.02525	0.18757	0.17571	1.83462	0.16246	0.21346	0.13984	0.04828	0.06724	0.05468
POH.KAR	0.11434	0.24858	0.02073	0.08074	0.09658	0.14924	1.96691	0.14973	0.06562	0.03146	0.06128	0.04042
KUOPIO	0.14049	0.08026	0.04007	0.10309	0.10194	0.30019	0.20974	2.16108	0.14858	0.05052	0.11362	0.08718
KESK.SU	0.12822	0.10004	0.09428	0.15394	0.08979	0.17860	0.09022	0.16309	2.18243	0.10794	0.11235	0.07929
VAASA	0.14395	0.16386	0.20547	0.14637	0.07871	0.08221	0.07105	0.09092	0.16260	2.90356	0.19629	0.13416
OULU	0.21337	0.17195	0.07164	0.17555	0.11860	0.13586	0.15704	0.23415	0.16967	0.19154	2.59521	0.50850
LAPLAND	0.07149	0.07331	0.01298	0.05954	0.04413	0.04747	0.06287	0.07036	0.06710	0.05898	0.19023	2.40555
TOTAL	4.88532	4.88156	4.92623	4.88212	4.86325	4.88241	4.85556	4.87528	4.87439	4.87684	4.88206	4.87123

exceeds the remaining lifetime measures. The expectation of life at age 20 is given in Table 3.4. The life expectancy at age is decomposed according to the region where this life is expected to be lived. For instance, of the total of 53.56 years, 23.25 years are expected to be spent in Uusimaa, 6.04 in Turku and Pori, and 24.27 years in the other provinces of Finland. The differences between those values and the equivalent values of Table [redacted] are due to mortality and migration of ages 0-19.

The most important life table statistic is the life expectancy at birth (Table 3.5). Note that the total life expectancy of a given birth cohort not only depends on the mortality schedule of the province of birth, but also on the mortality schedules of other provinces the members of the birth cohort may migrate to. Therefore, the total life expectancy computed in multi-regional demography differs from the life expectancy derived for a closed system. The latter case implies the assumption that a person never leaves his region of birth, and is therefore during his whole lifetime subject to the mortality pattern of that region.

Multiregional life tables are not only useful in their own right, but do also provide the necessary input to multiregional demographic growth models. The proportion of people in a given age group and region surviving to the next age group is derived from the life table. Recall that Table 3.3 may be interpreted as representing the relative number of people in each region and age group in the life table or stationary population. Table 3.6 shows that the total survivorship proportion of 20-24-year-old persons living in Uusimaa is 0.995, i.e., 99.5% will survive to be 25-29 years old 5 years later. About 79.0% will remain in Uusimaa, 3.2% will be in Turku and Pori 5 years later, and 17.3% will survive in the other provinces. The matrices of survivorship proportions constitute the building blocks of the multi-regional demographic growth operator, or generalized LESLIE matrix.

Table 3.4. Life expectancies at age 20, by province of birth and province of future residence, Finland.

	<u>Province of Future Residence</u>	<u>Province of Birth</u>											
		1-	2-	3-	4-	5-	6-	7-	8-	9-	10-	11-	12-
UUSIMAA	23.23336	10.27800	8.41303	12.89496	13.55202	14.22162	14.97573	13.61639	12.92807	9.97255	11.20205	10.87282	
TURKU	6.00265	22.32141	6.12534	7.66880	4.65829	5.10005	5.36742	5.16242	6.35614	7.11457	6.22721	6.82818	
AHVENAN	0.22305	0.28386	26.25124	0.13925	0.12019	0.10291	0.11068	0.10605	0.12503	0.43972	0.13906	0.10216	
HAME	7.06714	7.13525	3.16311	17.16420	6.32284	7.50067	6.70545	6.32859	7.86420	5.84127	5.82480	5.87787	
KYMI	3.03572	1.85744	1.03433	2.54658	16.49322	4.49577	3.85277	2.85089	2.35764	1.59265	2.05238	2.07467	
MIKKELI	1.65478	1.11070	0.57479	1.59863	2.22156	0.65647	2.15074	2.55303	1.91532	1.02930	1.27251	1.13046	
PCH.KAR	1.53410	0.90690	0.49774	1.24569	1.47240	1.88449	9.85863	1.99063	1.16281	0.75794	1.09769	0.91526	
KUOPIO	2.07226	1.43511	0.95963	1.72316	1.00499	3.40427	2.77266	11.50064	2.20027	1.24943	1.92544	1.60426	
KESK.SU	1.97962	1.71643	1.17666	2.20372	1.70539	2.49449	1.75080	2.40052	11.67996	1.86607	1.88836	1.57746	
VAASA	2.35572	2.68171	3.59971	2.43471	1.64753	1.74622	1.69181	1.87612	2.67336	19.55807	3.02327	2.37955	
OULU	3.00163	2.65535	1.40347	2.68821	2.13346	2.45731	2.65027	3.28795	2.76212	3.00823	15.84544	6.32201	
LAPLAND	1.11334	1.11442	0.39819	1.02884	0.82295	0.92426	1.06670	1.16043	1.11056	1.03489	2.42392	1.3.14676	
TOTAL	53.27337	53.49657	53.59724	53.33776	52.95483	52.98854	52.95367	52.91565	53.15547	53.46467	52.92294	52.83151	

Table 3.5. Expectations of life at birth, by province of birth and province of future residence.

Table 3.6. Matrix of survivorship preparations of 20.24 years old persons,
Finland, 12 provinces.

Region of Destination	Region of Origin											
	1-	2-	3-	4-	5-	6-	7-	8-	9-	10-	11-	12-
UUSIMAA	0.78984	0.07257	0.05754	0.11558	0.12391	0.15233	0.16620	0.13428	0.12127	0.08300	0.09250	0.09263
TURKU	0.03212	0.77956	0.04154	0.05943	0.02072	0.02356	0.02742	0.02703	0.04357	0.05294	0.04019	0.04907
AHVENAN	0.00157	0.00229	0.83481	0.00044	0.00036	0.00023	0.00040	0.00042	0.00039	0.00422	0.00067	0.00015
HAME	0.04747	0.05497	0.01076	0.71089	0.04004	0.06481	0.05350	0.03941	0.06933	0.03919	0.03931	0.04171
KYMI	0.02124	0.00819	0.00329	0.01575	0.73108	0.04635	0.03349	0.01822	0.01467	0.00717	0.01051	0.01135
MIKKELI	0.01326	0.00623	0.00081	0.01221	0.02113	0.58495	0.02236	0.03257	0.02104	0.00458	0.00730	0.00580
POH.KAR	0.01517	0.02447	0.00152	0.00481	0.01163	0.01829	0.61770	0.02266	0.00760	0.00312	0.00685	0.00421
KUOPIO	0.01683	0.00871	0.00460	0.01158	0.01074	0.04336	0.02810	0.65321	0.01932	0.00666	0.01619	0.01011
KESK.SU	0.01389	0.01194	0.00487	0.01883	0.01215	0.02878	0.01175	0.02345	0.65001	0.01644	0.01381	0.00995
VAASA	0.01286	0.01790	0.02867	0.01549	0.00672	0.00682	0.00679	0.00929	0.02089	0.74600	0.02331	0.01128
OULU	0.02186	0.01906	0.00842	0.01785	0.01100	0.01688	0.01832	0.02503	0.01884	0.02558	0.71612	0.07379
LAPLAND	0.00867	0.00884	0.00071	0.00824	0.00421	0.00597	0.00715	0.00755	0.00811	0.00669	0.02717	0.67963
TOTAL	0.99478	0.99473	0.99753	0.99511	0.99368	0.99433	0.99317	0.99331	0.99524	0.99559	0.99395	0.99178

person born in Uusimaa may expect to live an average of 4.89 years between ages 20 and 25. Of this, 2.92 is spent in Uusimaa, 0.35 in Turku and Pori, and so on.

In addition to the duration of residence interpretation of Table 3.2, it may be given a number-of-people interpretation. Table 3.2, for example, shows that if the birth cohort is unity, there are 4.89 people in age group 20-24 who were born in Uusimaa. The column elements give the regions of residence of these Uusimaa-born people. Hence, Table 3.2 gives the age and regional distribution of the life table population. The distribution is expressed in terms of unit born (birth cohort of a single person). It may be converted to the more conventional expression in terms of percentage distribution by introducing the ratios of birth cohorts. However, Willekens and Rogers (1977) have shown that the expression in terms of unit born provides a better measure, since it gives the relative composition of any stationary population.

The duration-of-residence interpretation of Table 3.3 leads to the question of how long a person, born in a certain region, is expected to live in the various regions beyond a given age, x say. The length of stay beyond age x is obtained by adding the number of years lived in each age group above age x . For example, a person born in Uusimaa may, at time of birth, expect to live 52.46 years beyond age 20. Of this, an average of 22.78 years will be spent in Uusimaa, 5.91 years in Turku and Pori, and 23.77 years in the other provinces. Note that this expected remaining lifetime is expressed at time of birth. It is the lifetime beyond a given age x which a newly-born baby can expect, and accounts for the babies that will die before reaching age x .

A measure which is independent of the mortality and migration pattern of ages below age x is the life expectancy. It represents the average length of stay in the various regions beyond age x , given that the person reaches age x . Since the life expectancy is expressed per unit survivor of age x , it generally

3.2 Mobility and Fertility Analysis

The multiregional life table provides a framework to study internal migration in combination with regional differences in mortality. The matrices of life expectancies contain for each regional cohort the expected duration of residence in each province. Another measure of migration intensity is the net migration-production rate (NMR) matrix (Rogers, 1975b), given in Table 3.7. The NMR matrix represents the number of crossings of provincial boundaries a person is expected to make during his lifetime. The columns denote the province of birth and the rows represent the provinces of out-migration. For example, a person born in Uusimaa will change his residence at the average of 4.09 times during his life (includes intra-provincial migration). He will depart in Uusimaa an average of 2.70 times, Turku and Pori 0.26 times, and so on.

The relative importance of each province as a region of origin is given by the matrix of net allocations. Of the total number of inter-provincial migrations by a Uusimaa-born person, 56% will be out of Uusimaa, 6% out of Turku and Pori, 11% out of Häme, and so on.

The multiregional life table and the NMR matrix summarize in different ways the migration and mortality behavior of a multiregional population system. The life table yields duration measures whereas the NMR matrix is a frequency measure which gives the number of events, i.e., inter-provincial migrations. A convenient way to summarize the age schedules of the 3 components of demographic change (mortality, migration and fertility) is the net rate of reproduction (NRR) matrix. It is the multiregional analogue of the net rate of reproduction. The NRR matrix for Finland is given in Table 3.7. The elements denote the number of children a person is expected to have during his lifetime by place of birth of the parent and place of birth of the children. For example, a person born in Uusimaa will have at the average 0.76 children of this total. 0.40 are born in Uusimaa, 0.06 in Turku and Pori, and 0.30 in other provinces. The number of children born in the various regions to a Uusimaa-born person depends not only on the migration pattern of the

Table 3.7. Net migraproduction rate matrix, Finland, 12 provinces.

birth cohort of Uusimaa but also on regionally different fertility levels.

3.3 Population Projection

The multiregional life table describes the migration and mortality experience of members of a regional birth cohort as they age. The life table statistics are independent of the observed age composition and regional distribution of the population but only depend on the prevailing schedule of mortality and migration. Analogously, the NMR- and NRR-matrices are not affected by the age and regional population structure. The short- and medium-run impact of the population structure is best studied by projecting the multiregional population with constant demographic schedules.

The projection is performed using the discrete model of multiregional demographic growth (Rogers, 1975, Chapter 4). If the regional age schedules of mortality, fertility and internal migration remain at the 1974 level, then the total population of Finland will continue growing slightly until it reaches a maximum of 4.89 million in 1989 and it will decline thereafter as the big age groups (baby boom) leave the reproductive period. The changing age structure of the population, caused by low fertility, results in a drop of the crude birth rate from 13.3% in 1974 to 10.3% in 2004 and a rise in the death rate from 9.5% to 13.6%. The regional population growth will become more uneven as the southern provinces increase their share of the national population (Table 3.9). As the population ages, the migration intensity will level off but the basic tendency of negative net outmigration in the North and Central provinces will prevail. This phenomenon, combined with negative natural increase in most provinces, shape the future distribution.

The stable growth rate of Finland's population is negative, as we could expect from the net reproduction rate matrix (Table 3.8). The share of Uunimaa in the national population goes up to a significant 28% at stability (23% in 1974). Another important observation is the increase in mean age. The overall

mean age changes from 34 years in 1977 to 43 years at stability. No great regional differences occur, although the aging is less in provinces with relatively higher fertility.

Table 3.8. Net reproduction rate matrix, Finland, 12 provinces.

Table 3.9. Multiregional population projection.

YEAR 1974

POPULATION

AGE	TOTAL	UUSIMAA	TURKU	AHVENAN	NAME	KYMI	MIKKELI	POH.KAR	KUOPIO	KESK.SU	VAASA	OULU	LAPLAND
0	301733	70113	43095	1511	41448	20644	12099	10289	15446	14843	28890	29206	13349
5	361845	87222	51061	1708	48765	25847	16031	13467	19740	18419	33898	35129	17553
10	387373	76355	52685	1530	51527	28059	18925	17075	23034	21230	35720	40665	21588
15	405257	77792	55214	1526	53797	29496	20199	16986	24432	22209	37525	42233	21846
20	427498	98805	62305	1811	61538	30586	18295	15969	22976	21505	37210	38093	18313
25	436247	12312	64002	2067	63143	30402	16177	13608	20008	19609	34563	33026	15297
30	306629	85652	43431	1472	43028	21826	12048	9704	14453	14631	24649	24099	11636
35	288847	71742	41856	1213	40186	21118	12656	10108	14826	14412	24314	23925	12471
40	279945	64661	41262	1148	39007	21302	13023	10499	15133	14366	24198	23401	11925
45	287710	61825	43470	1230	40413	22133	13565	11276	16184	15050	26094	23610	11960
50	263173	56140	40387	1281	37444	19882	12524	10237	14375	13945	25662	21054	10249
55	226674	48954	32855	1269	32489	17563	10780	9043	12211	11814	22330	17337	8029
60	235159	51021	37081	1308	34271	18629	11417	9627	12626	12124	22210	17209	7636
65	198413	43391	32624	1035	29467	16085	9963	7750	10637	10060	18237	13178	5986
70	139736	30166	23537	801	20704	11404	7151	5252	7412	6958	13308	8903	4148
75	144998	32514	24794	1106	20790	10909	7367	4960	7827	6639	14235	9585	4252
TOTAL	4690532	1073485	691672	22009	657049	345985	212200	177670	251320	238814	423043	400053	196232

PERCENTAGE DISTRIBUTION

AGE	TOTAL	UUSIMAA	TURKU	AHVENAN	NAME	KYMI	MIKKELI	POH.KAR	KUOPIO	KESK.SU	VAASA	OULU	LAPLAND
0	6.43	6.61	6.23	6.87	6.31	5.97	5.70	5.78	6.15	6.22	6.83	7.29	6.80
5	7.71	7.47	7.34	7.76	7.42	7.47	7.55	7.57	7.85	7.71	8.01	8.76	8.95
10	8.26	7.11	7.62	6.95	7.69	6.11	6.91	9.60	9.17	8.69	8.44	10.14	11.09
15	8.64	7.25	7.98	6.93	8.19	8.53	9.52	10.67	9.72	9.30	8.87	10.54	11.13
20	9.11	9.29	9.01	8.23	9.36	8.87	8.42	8.98	9.14	9.08	8.80	9.50	9.33
25	9.30	11.49	9.25	9.36	9.62	8.79	7.62	7.65	7.96	8.63	8.17	8.24	7.89
30	6.54	7.98	6.28	6.69	6.55	6.31	5.68	5.46	5.75	6.13	5.83	6.01	5.93
35	6.16	6.68	6.05	5.51	6.12	6.10	5.96	5.68	5.90	6.03	5.75	5.97	6.36
40	5.97	6.02	5.97	5.22	5.94	6.16	6.14	5.90	6.02	6.02	5.72	5.84	6.08
45	6.12	5.76	6.29	5.59	6.15	6.40	6.39	6.34	6.44	6.30	6.17	5.94	6.09
50	5.61	5.23	5.84	5.82	5.70	5.75	5.90	5.76	5.72	5.84	6.07	5.25	5.22
55	4.83	4.56	5.04	5.77	4.94	5.08	5.06	4.86	4.95	5.28	4.33	4.09	4.09
60	5.01	4.75	5.36	5.94	5.22	5.38	5.41	5.02	5.08	5.25	4.29	3.89	3.89
65	4.23	3.74	4.72	4.70	4.48	4.65	4.79	4.36	4.23	4.21	3.51	3.29	3.05
70	2.98	2.81	3.40	3.64	3.15	3.37	3.37	2.95	2.91	3.15	2.22	2.11	2.11
75	3.09	3.03	3.58	5.03	3.16	3.47	2.88	3.11	2.78	3.36	2.39	2.17	2.17
TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
M.AG	34.0376	33.9597	35.2040	36.1660	34.5854	34.8939	34.9367	35.9875	33.8804	33.8694	34.3145	34.4597	30.9908
SHA	100.0000	22.8862	14.7461	8.4692	14.0000	7.3762	4.5248	3.7921	5.3588	5.0914	9.0191	8.5466	4.1636

(continued)

YEAR 1979
POPULATION

AGE	TOTAL	UUSIMAA	TURKU	AHVENAN	HAME	KYMI	MIKKELI	POH.KAR	KUOPIO	KESK.SU	OULU	LAPLAND
0	314219.	76154.	44738.	1459.	43123.	20548.	12146.	10873.	15360.	15485.	26923.	32142.
5	299337.	68729.	43721.	1509.	41852.	20562.	12172.	10355.	15304.	14932.	28126.	29101.
10	361177.	79459.	51753.	1727.	49294.	25862.	15930.	13415.	19640.	18462.	33515.	34975.
15	386190.	82883.	53669.	1641.	52077.	27732.	17770.	15875.	21813.	20325.	34807.	39109.
20	403329.	93693.	57084.	1778.	55937.	28063.	17094.	15702.	21855.	20222.	34265.	38699.
25	425140.	113022.	62938.	2062.	61261.	29047.	15914.	14026.	20972.	20208.	33383.	35963.
30	435211.	123644.	64055.	2098.	62719.	29906.	15956.	13556.	19676.	20611.	33117.	36345.
35	305976.	83409.	43839.	1429.	43385.	21627.	12045.	9648.	1490.	14606.	24176.	15051.
40	284799.	70394.	42010.	1195.	40162.	20839.	12408.	9886.	14648.	14133.	23752.	11398.
45	273574.	63354.	40944.	1134.	38525.	20730.	12572.	10245.	14709.	13969.	23546.	11178.
50	277177.	59965.	42464.	1237.	39549.	21266.	12882.	10783.	1501.	14565.	25268.	11137.
55	249462.	53320.	38753.	1256.	36126.	18935.	11708.	9496.	13503.	13240.	24520.	9386.
60	229415.	45031.	32667.	1186.	30595.	16286.	9906.	8198.	1177.	10791.	20807.	15657.
65	208113.	44840.	33371.	1170.	30893.	16418.	10044.	8397.	11103.	10634.	19810.	7114.
70	163949.	35893.	27305.	863.	24816.	13184.	7996.	6305.	8741.	8199.	15099.	6533.
75	219292.	51793.	37746.	1388.	33569.	16481.	9473.	7370.	10668.	10041.	20230.	4814.
TOTAL	4812718.	1143582.	717339.	23133.	683883.	347486.	206016.	174132.	249259.	240421.	4223345.	194390.

PERCENTAGE DISTRIBUTION

AGE	TOTAL	UUSIMAA	TURKU	AHVENAN	HAME	KYMI	MIKKELI	POH.KAR	KUOPIO	KESK.SU	OULU	LAPLAND
0	6.53	6.66	6.24	6.31	6.31	5.91	5.98	6.24	6.16	6.44	6.83	6.83
5	6.22	6.01	6.10	6.52	6.12	5.92	5.91	5.95	6.14	6.21	6.64	6.67
10	7.53	6.95	7.21	7.47	7.21	7.44	7.73	7.70	7.88	7.68	7.92	8.54
15	8.72	7.07	7.51	7.10	7.61	7.98	8.63	9.12	8.75	8.45	8.22	9.55.
20	8.38	6.19	7.96	7.69	8.18	8.08	8.34	9.02	8.77	8.41	8.09	9.44.
25	8.83	9.88	8.77	8.91	8.96	8.36	7.72	8.05	8.41	8.41	7.89	8.41
30	9.04	10.01	8.93	9.07	9.17	8.61	7.75	7.79	7.89	8.57	7.82	8.03
35	6.31	7.29	6.11	6.18	6.34	6.22	5.85	5.54	5.81	6.08	5.71	5.80
40	5.92	6.16	5.86	5.17	5.87	6.00	6.02	5.68	5.88	5.88	5.61	5.72
45	5.68	5.54	5.71	4.98	5.63	5.97	6.18	5.88	5.90	5.81	5.56	5.75
50	5.76	5.24	5.92	5.35	5.78	6.12	6.25	6.19	6.18	6.06	5.97	5.73
55	5.19	4.66	5.40	5.43	5.28	5.45	5.68	5.45	5.42	5.51	5.79	4.83
60	4.35	3.94	4.55	5.13	4.47	4.69	4.81	4.71	4.48	4.49	4.91	3.66
65	4.32	3.92	4.65	5.06	4.52	4.72	4.88	4.82	4.45	4.42	4.68	3.56
70	3.41	3.14	3.82	3.73	3.63	3.79	3.88	3.62	3.51	3.41	3.57	2.46
75	4.56	4.53	5.26	6.00	4.91	4.74	4.68	4.23	4.36	4.18	4.78	3.54

TOTAL
M.AG
SHA
LAH
R

100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	
35.4437	35.1085	36.4725	36.6935	36.0389	36.4392	36.4498	35.7093	35.5531	35.4397	35.7811	32.7779	33.0416
100.0000	100.0000	100.0000	100.0000	100.0000	100.0000	100.0000	100.0000	100.0000	100.0000	100.0000	100.0000	100.0000
1.026049	1.065299	1.037100	1.051052	1.040840	1.004349	0.970856	0.970856	0.991600	1.006730	1.000713	1.022152	0.990612
R	0.005143	0.012651	0.007287	0.000958	0.000866	0.000958	0.000866	0.000958	0.001342	0.001342	0.000143	0.004382

(continued)

YEAR 1984

POPULATION

AGE	TOTAL		UUSIMAA	TURKU	AHVENAN	NAME	KYMI	MIKKELI	POH.KAR	KUOPIO	KESK.SU	VAASA	OULU	LAPLAND
	UUSIMAA	TURKU	AHVENAN											
0	314714.	76753.	44745.	1525.	42940.	20108.	11881.	10850.	15381.	15414.	28411.	33215.	13521.	
5	311726.	73426.	45423.	1468.	43574.	20629.	12307.	10913.	15357.	15574.	26297.	31761.	12998.	
10	298793.	67865.	44218.	1522.	42160.	20634.	12192.	10378.	15299.	15005.	27620.	28945.	12755.	
15	360077.	82511.	52604.	1824.	51485.	25566.	15130.	12693.	18720.	17794.	32657.	33842.	16260.	
20	384375.	94082.	55385.	1864.	53857.	26398.	15282.	13495.	19737.	18649.	31904.	36040.	17663.	
25	401196.	106966.	58093.	1997.	56358.	26776.	14912.	13620.	19927.	19005.	30897.	35895.	16593.	
30	422263.	115025.	62860.	2088.	60781.	28645.	15664.	13761.	20258.	20186.	32644.	32680.	14884.	
35	429477.	120116.	64349.	2037.	62981.	29757.	16129.	13489.	19826.	20584.	32644.	32680.	14884.	
40	299658.	81211.	44045.	1405.	43288.	21388.	11928.	9514.	14390.	14377.	23427.	10988.		
45	278245.	68699.	41679.	1180.	39652.	20316.	12025.	9886.	14264.	13763.	22654.	23139.	11188.	
50	264142.	61236.	40022.	1142.	37721.	19935.	11953.	9817.	14024.	13537.	22831.	21511.	10412.	
55	263142.	56929.	40758.	1217.	34158.	20246.	12059.	10045.	14459.	13832.	24175.	21105.	10199.	
60	236834.	49070.	36313.	1177.	34066.	17569.	10764.	8620.	12357.	12088.	22851.	17709.	8312.	
65	185339.	39584.	29405.	1061.	27574.	14358.	8722.	7159.	9829.	9467.	18546.	13552.	6082.	
70	171946.	37104.	28025.	975.	26010.	13463.	8070.	6824.	9126.	8666.	16397.	12033.	5252.	
75	257437.	61584.	43934.	1500.	42183.	19069.	10626.	8840.	12814.	11829.	22968.	16078.	8012.	
TOTAL	4873276.	1192162.	731860.	23981.	699728.	344850.	199643.	169665.	245767.	239772.	419289.	415573.	190985.	

PERCENTAGE DISTRIBUTION

AGE	TOTAL		UUSIMAA	TURKU	AHVENAN	NAME	KYMI	MIKKELI	POH.KAR	KUOPIO	KESK.SU	VAASA	OULU	LAPLAND
	UUSIMAA	TURKU	AHVENAN											
0	6.46	6.44	6.11	6.36	6.14	5.83	5.95	6.39	6.26	6.43	6.43	6.78	7.99	7.06
5	6.40	6.16	6.21	6.12	6.23	5.98	6.16	6.43	6.25	6.50	6.75	7.64	7.81	
10	6.13	5.69	6.74	6.35	6.23	5.98	6.11	6.12	6.23	6.26	6.64	6.97	6.68	
15	7.39	6.92	7.19	7.61	7.21	7.41	7.58	7.48	7.62	7.42	7.79	8.14	8.51	
20	7.89	7.89	7.77	7.77	7.70	7.65	7.65	7.65	7.65	7.63	7.78	8.67	9.25	
25	8.23	8.97	7.94	8.33	8.05	7.76	7.47	8.03	8.11	7.93	7.37	8.65	8.69	
30	8.66	9.65	8.59	8.71	8.69	8.31	7.85	8.11	8.24	8.42	7.64	8.44	8.31	
35	8.81	10.08	8.79	8.50	9.00	8.63	8.08	7.95	8.07	8.58	7.79	7.86	7.79	
40	6.15	6.81	6.02	5.86	6.19	6.20	5.97	5.61	5.86	6.00	5.65	5.64	5.75	
45	5.71	5.76	5.69	4.92	5.67	5.89	6.02	5.71	5.80	5.74	5.52	5.45	5.66	
50	5.42	5.14	5.47	4.76	5.39	5.78	5.94	5.79	5.71	5.65	5.45	5.18	5.45	
55	5.40	4.78	5.57	5.47	5.45	5.87	6.04	5.90	5.88	5.77	5.77	5.08	5.34	
60	4.74	4.12	4.96	4.91	4.86	5.09	5.39	5.08	5.03	5.04	5.45	4.26	4.35	
65	3.80	3.32	4.02	4.42	3.94	4.16	4.37	4.22	4.00	3.95	4.42	3.26	3.18	
70	3.53	3.11	3.83	4.06	3.72	3.90	4.04	4.02	3.71	3.61	3.91	2.90	2.75	
75	5.28	5.17	6.02	6.25	5.74	5.53	5.32	5.21	5.21	4.93	5.48	3.87	4.19	
TOTAL	100.00													

HAG 36.3151 35.8513 37.1826 36.8878 37.3880 37.4473 36.6318 36.6754 36.4298 36.6803 35.6757 34.3797
 SHA 100.0000 24.4633 15.0178 0.4921 14.3585 7.0764 4.0967 3.4815 5.0432 4.9201 8.6039 8.5276 3.9198
 LAM 1.012583 1.042480 1.023023 1.036658 1.023169 0.992413 0.985990 0.97347 0.985990 0.997299 0.99421 1.014253 0.982487
 R 0.002501 0.008321 0.004008 0.007200 0.004581=0.001523=0.006284=0.005197=0.002822=0.000541=0.001925 0.001925 0.002831=0.003534

(continued)

YEAR 1989

POPULATION

AGE	TOTAL	UUSIMAA	TURKU	AHVENAN	HAME	KYMI	MIKKELI	POH.KAR	KUOPIO	KESK.SU	VAASA	OULU	LAPLAND
0-5	392488.	74967.	43305.	1568.	41384.	18979.	11084.	10099.	14494.	14596.	27014.	32183.	12815.
5-10	312248.	73911.	45439.	1528.	43433.	20262.	12095.	10895.	15378.	15522.	27865.	32692.	13230.
10-15	297899.	72331.	45952.	1487.	43911.	20774.	12362.	10926.	15408.	15653.	28047.	31483.	12820.
15-20	358376.	92736.	44047.	1600.	42986.	20435.	11674.	9889.	14647.	14991.	27114.	32000.	12185.
20-25	382233.	105032.	56143.	2050.	51699.	24333.	13270.	11192.	17202.	16548.	29917.	31570.	14476.
25-30	398373.	104728.	58253.	2013.	5061.	25237.	13597.	12093.	16251.	17693.	28911.	33659.	15546.
30-35	418512.	112364.	63069.	2023.	56240.	26544.	14706.	13266.	19237.	18999.	29768.	34704.	15919.
35-40	423485.	11684.	69487.	2002.	62697.	2982.	16062.	13312.	15818.	13610.	20235.	20149.	15587.
40-45	429771.	78967.	43722.	1383.	42697.	20876.	11631.	9370.	14051.	14025.	20272.	21735.	14415.
45-50	266749.	65278.	40753.	1188.	38816.	19564.	11463.	9309.	13622.	13360.	22457.	23123.	10344.
50-55	250775.	57981.	38434.	1126.	36412.	18996.	11203.	9123.	13187.	12870.	21871.	20035.	9537.
55-60	243076.	52371.	3819.	1142.	35920.	18779.	11101.	9083.	13226.	12629.	22555.	19049.	9025.
60-65	204294.	43152.	32681.	1053.	30637.	15497.	9481.	7539.	10863.	10680.	20370.	15323.	7899.
65-70	153136.	32761.	24760.	884.	23211.	1177.	7012.	5824.	8077.	7715.	15344.	10943.	4887.
70-75	269925.	63690.	44987.	1688.	42098.	19468.	10750.	9559.	13380.	12498.	24926.	18125.	8736.
TOTAL	4887482.	1221961.	738411.	24740.	707137.	339561.	193310.	165090.	240993.	237619.	412977.	418634.	187050.
PERCENTAGE DISTRIBUTION													
AGE	TOTAL	UUSIMAA	TURKU	AHVENAN	HAME	KYMI	MIKKELI	POH.KAR	KUOPIO	KESK.SU	VAASA	OULU	LAPLAND
0	6.19	6.13	5.86	6.34	5.85	5.59	5.73	6.12	6.01	6.14	6.54	7.69	6.85
5	6.39	6.05	6.15	6.17	6.14	5.97	6.26	6.60	6.38	6.53	6.75	7.81	7.07
10	6.37	5.92	6.22	6.01	6.21	6.12	6.40	6.62	6.39	6.59	6.79	7.52	6.86
15	6.09	5.73	6.07	6.47	6.78	6.02	6.04	5.99	6.08	6.10	6.57	6.69	6.51
20	7.33	7.59	7.25	8.11	7.39	7.17	6.86	6.78	7.14	6.96	7.24	7.74	6.74
25	7.82	8.60	8.28	7.65	7.43	7.32	7.03	7.57	7.45	7.09	8.04	8.31	6.31
30	8.15	9.07	7.69	8.13	7.95	7.62	7.61	8.04	7.98	8.00	7.21	8.29	8.51
35	8.05	9.20	8.54	8.18	8.63	8.41	8.18	8.24	8.40	8.48	7.66	8.23	8.33
40	8.66	9.56	8.73	8.09	8.87	8.68	8.31	8.06	8.19	8.53	7.77	7.68	7.71
45	5.99	6.45	5.92	5.59	6.04	6.15	6.02	5.68	5.83	5.90	5.60	5.42	5.53
50	5.50	5.42	5.62	4.80	5.49	5.76	5.93	5.64	5.62	5.44	5.15	5.57	5.31
55	5.13	4.74	5.21	4.55	5.15	5.59	5.80	5.47	5.42	5.30	4.79	5.18	4.82
60	4.97	4.29	5.07	4.62	5.06	5.53	5.74	5.50	5.49	5.31	5.46	4.55	4.80
65	4.18	3.53	4.43	4.26	4.33	4.56	4.90	4.57	4.51	4.46	4.93	3.66	3.80
70	3.13	2.68	3.35	3.57	3.28	3.47	3.63	3.53	3.25	3.72	2.61	2.61	2.61
75	5.52	5.21	6.09	6.82	5.95	5.74	5.56	5.79	5.55	5.26	6.04	4.33	4.67
TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
AGE	TOTAL	UUSIMAA	TURKU	AHVENAN	HAME	KYMI	MIKKELI	POH.KAR	KUOPIO	KESK.SU	VAASA	OULU	LAPLAND
0	392488.	74967.	43305.	1568.	41384.	18979.	11084.	10099.	14494.	14596.	27014.	32183.	12815.
5	312248.	73911.	45439.	1528.	43433.	20262.	12095.	10895.	15378.	15522.	27865.	32692.	13230.
10	297899.	72331.	45952.	1487.	43911.	20774.	12362.	10926.	15408.	15653.	28047.	31483.	12820.
15	358376.	92736.	44047.	1600.	42986.	20435.	11674.	9889.	14647.	14991.	27114.	32000.	12185.
20	382233.	105032.	56143.	2050.	51699.	24333.	13270.	11192.	17202.	16548.	29917.	31570.	14476.
25	398373.	104728.	58253.	2013.	5061.	25237.	13597.	12093.	16251.	17693.	28911.	33659.	15546.
30	418512.	112364.	63069.	2023.	56240.	26544.	14706.	13266.	19237.	18999.	29768.	34704.	15919.
35	423485.	11684.	69487.	2002.	62697.	2982.	16062.	13312.	15818.	13610.	20235.	20149.	15587.
40	429771.	78967.	43722.	1383.	42697.	20876.	11631.	9370.	14051.	14025.	20272.	21735.	14415.
45	266749.	65278.	40753.	1188.	38816.	19564.	11463.	9309.	13622.	13360.	22457.	23123.	10344.
50	250775.	57981.	38434.	1126.	36412.	18996.	11203.	9123.	13187.	12870.	21871.	20035.	9537.
55	243076.	52371.	3819.	1142.	35920.	18779.	11101.	9083.	13226.	12629.	22555.	19049.	9025.
60	204294.	43152.	32681.	1053.	30637.	15497.	9481.	7539.	10863.	10680.	20370.	15323.	7899.
65	153136.	32761.	24760.	884.	23211.	1177.	7012.	5824.	8077.	7715.	15344.	10943.	4887.
70	269925.	63690.	44987.	1688.	42098.	19468.	10750.	9559.	13380.	12498.	24926.	18125.	8736.
TOTAL	4887482.	1221961.	738411.	24740.	707137.	339561.	193310.	165090.	240993.	237619.	412977.	418634.	187050.

(continued)

YEAR 1994

POPULATION

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AGE	TOTAL	UUSIMAA	TURKU	AHVENAN	NAME	KYMI	MIKKELI	POH.KAR	KUOPIO	KESK.SU	VAASA	OULU	LAPLAND
0	281073	71136	49754	1558	38743	9973	9927	13071	13335	24979	29719	11432	112567
5	340991	7197	43940	1562	41846	19179	11348	16200	14537	14740	26536	31637	12567
10	311640	72766	45973	1544	43790	20439	12173	10910	15429	15610	21647	32353	13045
15	312220	74433	46576	1572	44776	20632	11873	10403	14801	15116	27393	30354	12291
20	296485	77925	45329	1744	43601	19533	10397	8847	13605	13522	24847	26098	11037
25	356411	101168	53723	2145	51329	23300	12081	10436	16198	15949	29867	31250	13125
30	379645	105931	56131	2047	53887	25070	13562	11985	17768	17866	32586	14946	14946
35	394831	106161	58658	1948	56618	1948	14862	13079	19206	18971	29411	31951	15550
40	412461	109582	63161	1986	60748	28503	15739	13391	20063	19631	31016	33741	15039
45	413772	113334	63914	1971	61756	28006	15713	13117	19289	19780	31341	31148	13603
50	282803	75729	42771	1388	41770	20123	11132	9039	13452	13638	22471	21628	96661
55	255163	62545	39145	1172	37466	18669	10769	8671	12826	12716	21532	20100	9551
60	231656	53212	36043	1058	34293	17616	10329	8295	1078	11758	20225	18084	8442
65	215109	46038	34362	1023	32560	16560	9792	7946	11621	11075	20126	16478	7706
70	168797	35723	27447	878	25781	12716	7627	6140	8924	8636	16854	12371	5700
75	240435	56247	39658	1529	37552	17056	9351	8173	11840	11126	23306	16477	8120
TOTAL	4850831	1233928	737516	25124	706320	331876	186720	159661	234709	233591	402980	416591	181815

PERCENTAGE DISTRIBUTION

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AGE	TOTAL	UUSIMAA	TURKU	AHVENAN	NAME	KYMI	MIKKELI	POH.KAR	KUOPIO	KESK.SU	VAASA	OULU	LAPLAND
0	5.79	5.76	5.53	6.20	5.49	5.23	5.34	5.65	5.57	5.71	6.20	7.13	6.29
5	6.19	5.83	5.96	6.22	5.92	5.78	6.08	6.39	6.19	6.31	6.58	7.59	6.91
10	6.43	5.90	6.23	6.14	6.20	6.16	6.52	6.83	6.57	6.68	6.86	7.77	7.18
15	6.49	6.03	6.32	6.26	6.34	6.22	6.36	6.52	6.31	6.47	6.80	7.29	6.76
20	6.11	6.32	6.15	6.94	6.17	5.89	5.57	5.54	5.80	5.79	6.17	6.26	6.07
25	7.35	8.20	7.28	8.54	7.27	7.02	6.47	6.54	6.90	6.83	6.72	7.17	7.22
30	7.43	8.58	7.61	8.15	7.63	7.55	7.26	7.51	7.57	7.61	6.93	7.82	6.22
35	8.14	8.60	7.94	7.75	8.02	7.99	8.19	8.19	8.12	7.39	8.15	8.55	8.27
40	8.51	8.88	8.56	8.60	8.53	8.43	8.39	8.55	8.49	7.71	8.10	8.71	8.10
45	8.53	9.18	8.67	7.84	8.74	8.68	8.42	8.22	8.47	7.78	7.48	7.48	7.48
50	5.83	6.14	5.80	5.52	5.91	6.06	5.96	5.66	5.73	5.84	5.58	5.19	5.31
55	5.26	5.97	5.31	4.66	5.30	5.63	5.77	5.43	5.46	5.44	5.34	4.82	5.25
60	4.78	4.31	4.89	4.21	4.86	5.31	5.53	5.20	5.15	5.03	5.07	4.34	4.64
65	4.43	3.73	4.66	4.07	4.58	4.99	5.24	4.98	4.74	4.99	3.96	3.96	4.24
70	3.48	2.90	3.72	3.50	3.65	3.83	4.08	3.85	3.80	3.70	4.18	3.14	3.14
75	4.96	4.56	5.38	6.09	5.32	5.14	5.01	5.12	5.04	4.76	5.78	3.96	4.47
TOTAL	100.00												
M.AG	37.6175	37.1855	38.2262	37.2501	38.1956	38.7425	38.7601	38.0948	38.1724	37.8281	37.9475	35.9681	36.3618
SHA	100.0000	25.4375	15.2039	0.5179	14.5608	3.8492	3.2914	4.0385	4.0155	4.3075	8.5880	3.7481	
LAM	0.992501	1.009793	0.998789	1.015484	0.998845	0.977367	0.965909	0.967113	0.973926	0.983049	0.975793	0.995120	0.972014
R	*0.001505	0.001949-0.	0.000242	0.003073-0.	0.000231-0.	0.004579-0.	0.006688-0.	0.005284-0.	0.003419-0.	0.004901-0.	0.000978-0.	0.005677	

(continued)

YEAR 1991
POPULATION

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AGE	TOTAL	UUSIMAA	TURKU	AHVENAN	NAME	KYMI	MIKKELI	POH.KAR	KUOPIO	KESK.SU	VAASA	OULU	LAPLAND
0	259479.	66597.	38114.	1495.	36100.	15734.	8932.	8098.	11720.	12164.	22963.	27415.	10146.
5	278848.	68093.	41287.	1545.	39159.	17577.	10277.	9183.	13176.	13513.	24561.	29225.	11271.
10	299548.	70796.	44439.	1573.	42185.	19373.	11448.	10258.	14605.	14844.	26348.	31293.	12402.
15	310740.	74835.	46699.	1626.	44676.	20328.	11712.	10391.	14819.	15080.	27031.	31139.	12494.
20	308759.	82269.	47134.	1733.	45417.	19827.	10633.	9290.	13850.	14097.	25211.	28084.	11213.
25	294865.	84418.	45258.	1849.	43068.	18822.	9638.	8374.	12977.	13080.	22501.	24648.	10232.
30	354210.	101227.	53503.	2117.	50979.	23193.	12204.	10550.	15935.	16171.	26170.	29140.	12842.
35	376277.	103138.	56374.	1975.	54223.	25068.	13776.	11905.	17813.	17807.	27658.	31924.	14614.
40	389301.	103513.	58716.	1916.	56442.	26319.	14793.	12850.	19038.	18672.	28929.	33159.	14960.
45	403183.	106530.	62580.	1952.	59834.	27668.	15388.	13170.	19572.	19547.	30370.	32606.	14166.
50	399719.	108751.	62457.	1977.	60352.	27790.	15070.	12657.	18484.	19237.	30488.	29722.	12724.
55	268559.	71333.	41101.	1365.	40300.	19222.	10497.	8445.	12691.	13083.	21575.	20160.	8867.
60	235728.	57287.	36723.	1102.	35286.	17356.	9958.	7901.	11760.	11628.	20124.	18148.	8456.
65	205008.	46687.	32462.	949.	30912.	15562.	9124.	7268.	10628.	10318.	18243.	15646.	7210.
70	177724.	38103.	28877.	854.	27230.	13586.	7884.	6473.	9543.	9024.	16664.	13502.	6184.
75	265073.	61364.	44056.	1525.	41686.	18431.	10176.	8634.	13076.	12445.	25603.	18620.	9456.
TOTAL	4826808.	1244921.	739692.	25547.	707630.	325857.	181510.	155428.	229687.	230431.	394438.	414229.	177240.

PERCENTAGE DISTRIBUTION

AGE	TOTAL	UUSIMAA	TURKU	AHVENAN	NAME	KYMI	MIKKELI	POH.KAR	KUOPIO	KESK.SU	VAASA	OULU	LAPLAND
0	5.38	5.35	5.15	5.85	5.10	4.83	4.92	5.21	5.10	5.28	5.82	6.62	5.72
5	5.78	5.47	5.50	6.05	5.53	5.39	5.66	5.91	5.74	5.86	6.23	7.06	6.36
10	6.21	5.69	6.21	6.16	5.96	5.95	6.31	6.59	6.36	6.44	6.68	7.55	7.08
15	6.44	6.01	6.30	6.36	6.31	6.24	6.45	6.69	6.45	6.54	6.85	7.52	7.05
20	6.40	6.61	6.37	6.78	6.42	6.08	5.86	5.98	6.03	6.12	6.39	6.78	6.33
25	6.11	6.78	6.12	7.24	6.08	5.78	5.31	5.39	5.68	5.70	5.95	5.77	5.77
30	7.33	8.13	7.23	8.29	7.20	7.12	6.72	6.79	6.94	7.02	6.63	7.03	7.25
35	7.80	8.28	7.62	7.73	7.66	7.59	7.66	7.73	7.73	7.01	7.71	8.25	8.25
40	8.07	8.31	7.94	7.48	7.97	8.08	8.15	8.27	8.29	8.10	7.33	8.01	8.44
45	8.35	8.56	8.46	7.64	8.45	8.49	8.48	8.47	8.52	8.40	7.70	7.67	7.99
50	8.26	8.74	8.44	7.74	8.53	8.53	8.30	8.14	8.05	8.35	7.73	7.10	7.18
55	5.56	5.73	5.56	5.34	5.69	5.90	5.78	5.43	5.53	5.64	5.47	4.87	5.00
60	4.88	4.62	4.96	4.31	4.93	5.33	5.49	5.08	5.12	5.05	5.10	4.38	4.77
65	4.25	5.75	4.39	3.72	4.37	4.78	5.03	4.68	4.63	4.63	3.78	4.07	4.07
70	3.68	3.06	3.90	3.34	3.85	4.17	4.34	4.16	4.15	3.92	4.22	3.21	3.49
75	5.49	4.93	5.96	5.97	5.89	5.66	5.61	5.55	5.69	5.49	4.49	4.49	5.34

TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
H.AG	38.6832	38.3331	39.2578	37.7882	39.2931	39.8097	39.7656	39.0675	39.2748	38.8989	38.8208	36.986	37.608	36.608
SHA	100.0000	25.7918	15.3247	0.5293	14.6646	6.7510	3.7605	3.2201	4.7586	4.7740	8.1716	8.5818	3.6720	3.6720
LAM	0.995048	1.008929	1.0016838	1.002138	0.981864	0.972097	0.973489	0.976474	0.978801	0.994330	0.974836	0.974836	0.001137	0.005097
R	-0.00093	0.001774	0.000589	0.0003340	0.000427	-0.000427	0.000426	0.000425	0.000425	0.000425	0.000425	0.000425	-0.000425	-0.000425

(continued)

YEAR 2004
POPULATION

AGE	TOTAL	UUSIMAA	TURKU	AHVENAN	NAME	KYMI	MIKKELI	POH.KAR	KUOPIO	KESK.SU	VAASA	OULU	LAPLAND
0	246576.	63774.	36591.	1453.	34574.	14739.	8308.	7544.	10911.	11470.	21670.	26235.	9406.
5	257426.	6310.	38550.	1479.	36415.	1590.	9261.	8282.	11675.	12357.	22599.	26949.	10060.
10	278343.	66857.	41726.	1552.	39438.	17778.	10394.	9245.	13266.	13650.	24357.	28911.	11149.
15	298644.	72663.	45730.	1648.	43223.	19286.	11042.	9777.	14046.	14356.	25777.	30107.	11890.
20	309277.	82629.	47181.	1779.	45357.	19585.	10527.	9286.	13868.	14074.	24935.	28698.	11378.
25	307273.	88658.	47076.	1855.	4865.	19237.	9920.	8771.	13320.	13627.	22958.	26287.	10490.
30	292283.	84255.	44938.	1818.	42635.	18827.	9834.	8527.	12860.	13289.	21732.	24029.	10140.
35	352079.	96249.	53612.	2034.	51211.	23217.	12468.	10567.	16060.	16253.	25895.	28654.	12659.
40	371011.	100421.	56484.	1934.	54039.	24902.	13749.	11740.	17691.	17551.	27230.	31201.	14068.
45	380343.	100621.	58215.	1876.	56443.	25750.	14466.	12626.	16507.	18218.	28287.	32002.	14070.
50	389455.	102369.	61137.	1956.	58473.	26705.	14754.	12690.	18721.	18811.	29551.	31050.	13236.
55	379616.	102386.	59972.	1944.	58176.	26567.	14237.	11828.	17451.	18343.	29301.	27714.	11692.
60	248143.	65169.	38582.	1281.	37941.	17889.	9752.	7715.	11653.	11897.	20185.	18213.	7866.
65	208639.	50180.	33085.	989.	31809.	15332.	8821.	6938.	10360.	10212.	17985.	15706.	7223.
70	169411.	38582.	27276.	793.	26020.	12775.	7354.	5930.	8740.	8411.	15113.	12630.	5766.
75	279240.	65412.	46358.	1487.	4028.	19686.	10536.	9104.	13976.	13009.	25342.	20012.	10250.
TOTAL	4767013.	1245824.	735813.	25879.	703645.	318266.	175421.	150569.	223367.	225506.	362957.	408398.	171366.

PERCENTAGE DISTRIBUTION

AGE	TOTAL	UUSIMAA	TURKU	AHVENAN	NAME	KYMI	MIKKELI	POH.KAR	KUOPIO	KESK.SU	VAASA	OULU	LAPLAND
0	5.17	5.12	4.97	5.61	4.91	4.63	4.74	5.01	4.89	5.09	5.66	6.42	5.49
5	5.40	5.11	5.24	5.72	5.18	5.02	5.28	5.50	5.32	5.48	5.90	6.60	5.87
10	5.84	5.37	5.67	6.00	5.60	5.59	5.93	6.14	5.94	6.04	6.37	7.08	6.51
15	6.26	5.83	6.12	6.37	6.11	6.06	6.29	6.49	6.29	6.37	6.73	7.37	6.94
20	6.49	6.63	6.41	6.88	6.45	6.15	6.00	6.17	6.21	6.24	6.51	7.03	6.64
25	6.44	7.12	6.40	7.17	6.38	6.04	5.65	5.83	5.96	6.04	5.99	6.44	6.12
30	6.14	6.76	6.11	7.02	6.06	5.92	5.61	5.66	5.76	5.89	5.80	5.86	5.92
35	7.36	7.89	7.29	7.86	7.28	7.11	7.02	7.19	7.21	6.76	7.02	7.39	
40	7.78	8.96	7.68	7.47	7.68	7.82	7.84	7.80	7.92	7.78	7.11	7.64	8.21
45	7.98	8.08	7.91	7.25	7.91	8.09	8.25	8.39	8.31	8.08	7.39	7.84	
50	8.17	8.22	8.31	7.56	8.31	8.39	8.41	8.43	8.38	8.34	7.72	7.60	7.72
55	7.96	8.22	8.15	7.51	8.27	8.35	8.12	7.86	7.81	8.13	7.65	6.79	6.82
60	5.21	5.23	5.24	4.95	5.39	5.62	5.56	5.12	5.22	5.28	5.27	4.46	4.59
65	4.34	4.03	4.50	3.82	4.52	4.82	5.03	4.61	4.64	4.70	3.85	4.21	
70	3.55	3.10	3.71	3.06	3.70	4.01	4.19	3.94	3.91	3.73	3.95	3.38	
75	5.86	5.25	6.30	5.75	6.26	6.19	6.01	6.05	6.26	5.77	6.62	5.98	
TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
H.AG	39.6377	39.4111	40.1679	38.4395	40.2723	40.7980	40.6418	39.9957	40.2524	39.8221	39.4869	37.0103	38.6412
SHA	100.0000	26.1343	15.4355	0.5429	14.7607	6.6764	3.6799	3.1586	4.6857	4.7306	8.0335	8.5672	3.5948
LAM	0.987612	1.000726	0.994756	1.013009	0.994088	0.976705	0.966454	0.968738	0.972484	0.978635	0.985924	0.966858	
R	0.000145-0.001052	0.002585-0.001186-0.	0.004714-0.006352-0.	0.006824-0.006352-0.	0.005580-0.005580-0.	0.004319-0.005908-0.	0.004319-0.005908-0.	0.006352-0.	0.006352-0.	0.006352-0.	0.006352-0.	0.006352-0.	0.006741

(continued)

STABLE EQUIVALENT TO ORIGINAL POPULATION

AGE	TOTAL	UUSIMAA	TURKU	AHVENAN	NAME	KYMI	MIKKELI	POH.KAR	KUOPIO	KESK.SU	VAASA	OULU	LAPLAND
0	337704.	90295.	52109.	2693.	48043.	10713.	10582.	9678.	13928.	15218.	28326.	36511.	11607.
5	351783.	89780.	54979.	2740.	50713.	20286.	11742.	10561.	15070.	16365.	29502.	37508.	12336.
10	368698.	92402.	58116.	2850.	53542.	21742.	12593.	11263.	16073.	17419.	30885.	38879.	12951.
15	385944.	9624.	61479.	3047.	51090.	22871.	12918.	11446.	16397.	17781.	31844.	39245.	13216.
20	403353.	111839.	64577.	3267.	60372.	23469.	12534.	11085.	16533.	17623.	31120.	37851.	13062.
25	421297.	124422.	66954.	3429.	62246.	24511.	12710.	11339.	17176.	18122.	30170.	36819.	13307.
30	439292.	129317.	69380.	3449.	64539.	26288.	13919.	12278.	18229.	19473.	30972.	37257.	14183.
35	457182.	131315.	72673.	3445.	67897.	27978.	15137.	13024.	19529.	20646.	32365.	38267.	14906.
40	473333.	133788.	76166.	3510.	70864.	29363.	16019.	13602.	20520.	21463.	33558.	39246.	15234.
45	485541.	136097.	79081.	3584.	73228.	30278.	16571.	14141.	21122.	22049.	34520.	39783.	15137.
50	492568.	136958.	81009.	3726.	75096.	30797.	16762.	14376.	21297.	22571.	35331.	39750.	14893.
55	491207.	135275.	81566.	3794.	75971.	31033.	16697.	14141.	21151.	22636.	35725.	38828.	14389.
60	476652.	129608.	80248.	3711.	75024.	30459.	16404.	13599.	20439.	21770.	35186.	36765.	13441.
65	443199.	118835.	75826.	3478.	70943.	2837.	15423.	12605.	18986.	20116.	33124.	33374.	12114.
70	385046.	102731.	66845.	3039.	62659.	24574.	13180.	10876.	16491.	17255.	28673.	28272.	10250.
75	641144.	183153.	112665.	5493.	106241.	37805.	18792.	16268.	25621.	26237.	46327.	44547.	17993.
TOTAL	7053920.	1944641.	1153680.	55256.	1074476.	428547.	231983.	200285.	298561.	316743.	527631.	602899.	219020.

PERCENTAGE DISTRIBUTION

AGE	TOTAL	UUSIMAA	TURKU	AHVENAN	NAME	KYMI	MIKKELI	POH.KAR	KUOPIO	KESK.SU	VAASA	OULU	LAPLAND
0	4.79	4.64	4.52	4.87	4.47	4.37	4.56	4.63	4.66	4.80	5.37	6.06	5.30
5	4.99	4.63	4.77	4.96	4.72	4.73	5.06	5.27	5.05	5.17	5.59	6.22	5.63
10	5.23	4.75	5.04	5.16	4.98	5.07	5.43	5.62	5.38	5.50	5.85	6.45	5.91
15	5.47	5.07	5.33	5.51	5.31	5.34	5.57	5.72	5.49	5.61	6.03	6.51	6.03
20	5.72	5.75	5.60	5.91	5.62	5.48	5.40	5.53	5.54	5.56	5.92	6.26	5.96
25	5.97	6.40	5.88	6.21	5.79	5.72	5.48	5.66	5.75	5.72	6.11	6.08	6.08
30	6.23	6.65	6.71	6.24	6.01	6.13	6.00	6.13	6.11	6.15	6.87	6.16	6.46
35	6.48	6.75	6.30	6.24	6.32	6.53	6.50	6.54	6.52	6.13	6.35	6.81	6.81
40	6.71	6.88	6.40	6.35	6.63	6.85	6.91	6.79	6.67	6.78	6.51	6.96	6.96
45	6.86	7.00	6.85	6.49	6.82	7.07	7.14	7.06	7.07	6.96	6.54	6.60	6.91
50	6.96	7.04	7.02	6.74	6.99	7.19	7.23	7.18	7.13	7.13	6.69	6.59	6.60
55	6.96	6.96	7.07	6.07	7.07	7.24	7.20	7.06	7.08	7.15	6.77	6.44	6.57
60	6.76	6.56	6.96	6.72	6.98	7.11	7.07	6.79	6.85	6.87	6.67	6.10	6.14
65	6.28	6.11	6.57	6.29	6.60	6.62	6.65	6.29	6.36	6.35	5.54	5.53	5.53
70	5.46	5.28	5.79	5.50	5.83	5.73	5.68	5.43	5.52	5.45	4.69	4.68	4.68
75	9.09	9.42	9.77	9.94	9.89	8.82	8.10	8.12	8.56	8.76	7.39	8.22	
TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
H.AG	42.7455	43.0569	43.5714	42.9143	43.6043	43.3905	42.8297	42.2451	42.7206	42.4334	41.6301	39.7829	40.9346
SHA	100.0000	27.5682	16.3552	0.7833	15.2323	6.8753	3.2887	2.0393	4.2326	4.4903	7.4828	8.5470	3.1049
LAH	0.952411	0.952411	0.952411	0.952430	0.952411	0.952411	0.952411	0.952411	0.952411	0.952411	0.952411	0.952411	0.952411
R	=0.009752-0.009752-0.009752-0.009752-0.009752-0.009752-0.009752-0.009752-0.009752-0.009752-0.009752-0.009752-0.009752												

(table concluded)

4. POPULATION DISTRIBUTION POLICY

The first stage in the development of the Finnish population was settlement based on agriculture. Among the last major events of this stage was the resettlement of displaced Karelians. Along with the advance of industrialization, the population began to shift to urban centers. Especially in southern Finland, the large agglomerations have been on the receiving end of a substantial migratory movement. This last stage is thus characterized by a concentration of the population.

Efforts have been made to guide the settlement and population trends by various measures of regional policy. The aim has been to secure the opportunities for permanent employment, a rising level of income and the availability of important services as well as otherwise to promote the balanced development of the industrial and social structure of different regions. In the work to achieve such goals, both direct and indirect methods have been used in guiding settlement and population. The measures of regional policy bearing upon the agricultural population have been in the main direct. The measures of regional guidance of the population related to industrialization and urbanization, again, have been mainly indirect.

4.1 Population Distribution Policy Based on Agriculture

The year 1918 saw the enactment of the tenant farmers' liberation law, which enabled the small tenant farmers to gain title to their leaseholds. Between 1919 and 1934, no less than 64,000 small tenant farms and leaseholds were redeemed and became independent, in addition 53,000 cottages were purchased by their tenants. The emancipation of the tenant farmers solved only a part of the problems of the rural area. The landless population was still numerous. The settlement laws of 1922 were passed to facilitate the acquisition of land by the landless. The most important of these laws was Lex Kallio, which was quite radical because it departed from earlier practice by providing for the expropriation of privately-held land.

During World War II, Finnish settlement policy was driven into altogether new channels. This came about when, at the end of the Winter War, some 40000 farming families displaced from territory ceded to the USSR had to be resettled. For this purpose a so-called rapid resettlement act was passed first (1940), followed by land procurement acts (1945). These laws constituted a large-scale reform, for not only was land procured for displaced farmers but also for other population groups, such as war veterans. On the basis of the land procurement laws, about 135000 farmsteads were established in the years between 1954 and 1969. The implementation of the provisions of the land procurement laws was systematic, following clear-cut guidelines. Thus the displaced population from the province of Karelia was resettled in southern and central Finland. The refugees from northern regions, again, were resettled in corresponding areas of northern Finland. In the north, state-owned forests were set aside for the most part to carve out new homesteads, whereas in southern and central Finland, land was expropriated for the most part from privately-owned estates.

In 1958 a land procurement act was passed based mainly on the need to improve the basic conditions in the management of farms. On the other hand, the act was also framed to promote land settlement: it was used to encourage settlers to move into, for instance, the backwoods of the far north. The implementation of this law terminated at the end of the 1960's. Its enactment led to the formation of some 16500 farmsteads or other holdings, of which nearly 11000 cases involved the addition of land to enlarge existing farms.

As early as the 1950's, Finland had reached the stage where agricultural production exceeded domestic consumption. This situation, in turn, generated demands for the curtailment of production, which meant withdrawing some of the fields from cultivation. When the field withdrawal plan began to be carried out in 1969, as many as 13400 farms made the agreement the very first year and ceased agricultural production in return for

compensation from the state. The number kept growing and by the end of 1973 amounted to 39,800 farms, which meant the withdrawal from cultivation of 9% of the total acreage under plow.

The "packaging" of fields has been commonest in areas where the natural conditions are least favorable, for example, in the north Bothnian region (Pohjois-Pohjanmaa), about 20% of the arable land has been withdrawn, whereas in southwestern Finland the figure is only 1.5%, and in the province of Uusimaa, on the south coast, 3.5%. Thus the law has been of some, though slight, significance in combating overproduction. It has given elderly farmers, for instance, a chance to retire from agriculture.

4.2. The First Development Area Laws, 1966-1969

The effects of legislation governing regional policy on the population trend have been mainly indirect. Regional policy has been closely bound up with numerous segments of social policy. The measures of regional policy taken have had especially close points of contact with employment and manpower policy.

It might be said that Finnish regional policy at first concerned itself only with areas lagging behind in progress. Even before the enactment of the first development area laws in 1966, a number of separate, uncoordinated measures favoring the development areas had been taken. Among these were the extra emoluments paid to civil servants, extra grants-in-aid distributed to communities in distress, subsidies to help cover the costs of introducing electricity, loans to small industry, assumption of surety by the state and the investment of public funds to maintain employment in development areas.

The first laws relating to the development areas were enacted in 1966 and remained in effect until 1969. The laws aspired "to raise production and the standard of living as well as to secure employment opportunities in those parts of the country where economic development has lagged substantially

behind that of the rest of the country." For the first time, the laws stated precisely what sections of the country were lagging essentially behind the rest: Development Area Zones I and II were formed. The first zone, defined as the most underdeveloped, contained northern and eastern Finland, and the second zone central Finland, in the main. The most important features of the laws were tax relief and investment credit to industrial enterprises. A total of 3404 new jobs were created between 1966 and 1969 in the projects receiving investment credit, 2567 of them in Development Zone I and 836 in Development Zone II. During the same period, 8028 new jobs were created in the projects receiving tax relief, 6478 of them in Development Zone I and 1550 in Development Zone II.

4.3 Measures of Regional Policy Taken in 1970-1974

The first development area laws were not, however, sufficient. They were unable to compensate for the advantages from the concentration of production. It was endeavored to take this into account in the enactment of new development area laws in 1970-1974. In principle, it was aspired to "raise production and the standard of living as well as to secure employment and income" by using largely the same methods as earlier. The procedures were selective and involved the giving of direct support to the promotion of the sources of livelihood and vocational training. The boundaries of the development areas were changed to some extent by diminishing Zone I and correspondingly expanding Zone II.

In 1971, the Development Area Fund was established to participate in supporting the development areas in various ways. The most important of its functions was the granting of credit to enterprises operating in the development areas. In all, 36000 new jobs have been created by the measures taken by the Fund. For the most part, the beneficiaries have been small and medium-sized enterprises dependent on the employment of manpower.

After the enactment of the second group of development area laws, lively public discussion arose on the subject of so-called growth-center policy. A clear measure of growth-center policy was the appropriation of funds in 1973 for the building of the first industrial villages. By 1976, 9 industrial villages had been established.

4.4 Regional Laws Enacted for the Years 1975-1979

During the time of the second development area laws, people began to talk more about "regional policy" instead of development area policy. This is also reflected by the regional laws currently in force, which were enacted for the years 1975-1979. The law governing the promotion of regional development defines the means and ends of regional policy as follows: "Efforts should be made by supporting productive activity as well as by guiding the location of enterprises and public services to secure for the population of the country as a whole opportunities for employment, a rising income level and the availability of important services."

As a change from the earlier system, it is now possible to set aside for containment in the development area zones, as areas qualifying for extra support, such communes as "where the securing of places of permanent employment is particularly difficult." Such areas are eligible for relatively the most generous aid (Figure 4.1.). Olavi Änkö, from the office of the Council of State, has described the main features of the measures of regional policy now being applied in Finland as follows (Änkö 1978, pp. 37-38):

In order to apply regional policy measures, two zones have been established: a strongly supported development zone I and a moderately supported development zone II. In addition the most problematic communities of zone I and the archipelago can be designated as additional-support areas, and on the other hand problem communities outside the developing regions can be decreed areas where certain supportive measures can be applied.

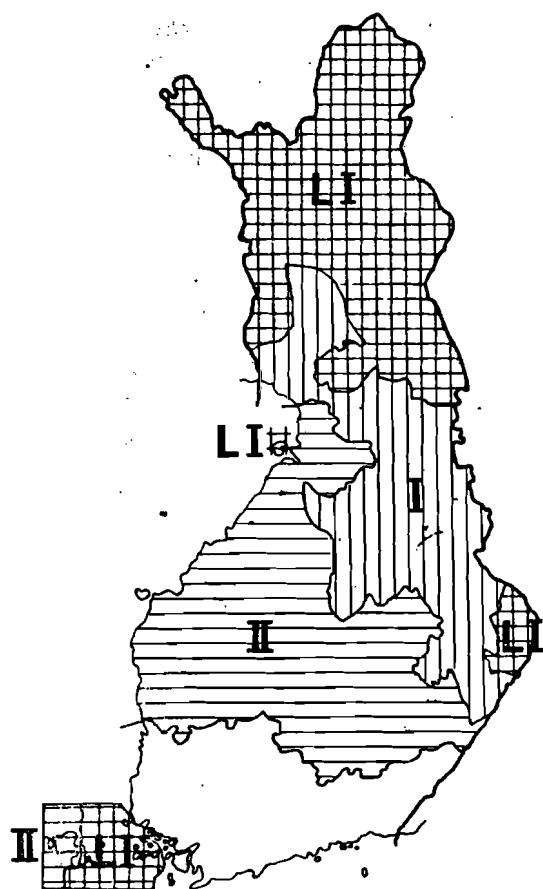


Figure 4.1. The development zones of Finland in 1976:

- I = strongly supported development zone
- II = moderately supported development zone
- III = additional-support areas of zone I

Aid can be granted for investments that either create new jobs or boost the production of processing or tourist industries. Investment aid covers part of the capital expenditure investments, aid for starting new operations covers part of the wage expenses for the first 2 or 3 years and training aid covers part of the cost of special training for the workers. Certain upper and lower limits have been placed on this aid depending on the zone, and within these limits the size of the aid will be determined on the basis of developmental needs and other investment factors of the locality in question. This aid is granted by the Ministry of Commerce and Industry. The Regional Development Fund Ltd. also shares in the financing. This Fund grants loans for investments either with or without warranties and also supports marketing etc. to some extent. In addition the Government Investment Fund, which finances large enterprises in the whole country, takes regional aspects into account when making its decisions. Certain minor tax policy measures are also applied to investments. In order to place investments in the best way from a regional policy standpoint, the government and the commercial and industrial organizations have agreed on special information and negotiation procedure.

To help industry already in operation there is a transport aid for developing regions. Aid is granted for the transport of products processed in these regions according to a graduated scale based on the length and method of transportation. On the basis of labor and market conditions the Ministry of Labor may in special cases grant support to enterprises in order to maintain jobs during a recession.

A regional gradation of price supports, among others, is used in agriculture. During the past year a graduated scale has also been introduced for interest and repayment terms on loans used to improve farms, depending on which development zone they are situated in.

4.5 The Problems of Sparsely Settled Areas

The biggest population drain has been suffered by sparsely inhabited rural areas located beyond the commuting range of urban agglomerations. The age structure of sparsely settled areas has become distorted as younger people have moved away. The erosion of the population base lowers the previously depressed service level. The overall picture displayed by many sparsely settled areas is dismal.

In the view of many researchers, the population drain on sparsely settled areas has been influenced by many government measures and the cultivation of negative popular opinion about the settlement of areas off the beaten track. This is understandable in the light of the fact that the guiding principle has been centralization.

Further, certain measures of agricultural policy have also encouraged the abandonment of sparsely settled areas. The aforementioned field withdrawal system, which took effect in 1969, has influenced this trend. There are many deserted farm-houses, outbuildings and schoolhouses in rural parts of the country. The "packaging" of fields is believed to have given a strong boost to the migratory movement from sparsely settled areas to Sweden in 1969-1971.

In recent years, sparsely settled areas have begun to be viewed more and more as special cases, to be given particular attention in regional policy. The archipelago of Finland belongs to the category of sparsely settled areas, and plans are underway to establish a national park there. In order to secure the means of livelihood of the islanders while taking into account the considerations of environmental protection, the archipelago must, it is emphasized, begin to be dealt with as an area apart.

4.6 The Helsinki Area

At the same time as the problem of sparsely settled backwoods areas has been the scantiness and continuous shrinkage of the population. By contrast the Helsinki area, in particular, has been characterized by, in the opinion of many, excessive concentration of production and population. The detrimental effects of such concentration have been, among other things, rising real estate prices, a shortage of housing and congested traffic.

Although the rapid growth of Helsinki has had its obvious harmful effects, no steps were taken to check its expansion

during the vigorous period of growth in the 1960's. It has been endeavored to promote the planning of the entire area, mostly through the joint efforts of Helsinki and its communes. This cooperative action has not, however, been sufficient from the standpoint of the overall planning of the region.

The KASTE Commission (Komiteanmietintö 1976: 3), appointed to investigate the Helsinki district, submitted its estimate of the effects of alternative measures till 1985. Among other things, the commission made an estimation of the effects on the number of available jobs of regional-policy supporting measures, guidance in the planning of locations and decentralization. Since 1976, however, there has not been much talk about checking the growth of the Helsinki region, except for the fact that certain state offices have been decentralized and certain other decentralization projects are underway. There is a natural reason for this. Population statistics from recent years have shown that the population growth of the cities has ceased. In 1976 the migratory gain of the cities was only 14 persons, whereas as recently as 1967-71 it averaged 22,000 souls. Helsinki has been experiencing a migratory deficit since 1969, but of recent years the population growth of its administratively independent suburbs has slowed down. Correspondingly, the population drain on many rural communities has halted. This most recent trend, which is a familiar phenomenon in many industrial countries, has made measures of regional policy less urgent in Finland toward checking the growth of the region of the national capital.

5. CONCLUSION

This report is one of the national case-studies in the comparative migration and settlement study organized by the Human Settlements and Services Area at IIASA. The first objective was to present an overview of spatial dynamics of population and policies in Finland. Another objective was to apply the new techniques of multiregional population analysis to data of 12 provinces.

Multiregional population analysis enables one to consider simultaneously several regions and a large number of population characteristics. It has many advantages over purely demographic and geographical analysis because it brings together the points of view of demographic and geographic research.

The multiregional life tables and the mobility and fertility analysis offer an useful basis for the analysis of the regional population dynamics in Finland in an internationally comparable form. The multiregional population projection can be a very important tool in population distribution policy. In this first proof to apply the multiregional population analysis for Finnish data all possibilities of this kind of analysis was not discussed. The emphasis was more on the introduction of the new procedure in generally understandable form. Also the relationship between multiregional population analysis and population distribution policy needs in the future research more attention.

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APPENDIX A

Observed Number of Population, Births, Deaths
and Migrants by Age and Region

OBSERVED RATES

DEATH RATES

AGE	UUDENMA	TURUN	AHVENAN	HAMEEN	KYKEN	MIKKELI	POH.KAR	KUOPION	KESK.SU	VAASAN	OUULUN	LAPIN
0	0.002637	0.002576	0.001985	0.002823	0.003345	0.002480	0.003499	0.002849	0.002330	0.003115	0.002705	0.002472
5	0.000324	0.000450	0.000300	0.000328	0.000367	0.000312	0.000594	0.000456	0.000597	0.000266	0.000512	0.000570
10	0.000249	0.000342	0.000300	0.000297	0.000321	0.000370	0.000280	0.000377	0.000308	0.000271	0.000649	0.000271
15	0.000181	0.0001942	0.0001655	0.0001818	0.0001221	0.0001089	0.000579	0.000941	0.000853	0.000687	0.001007	0.001007
20	0.0001961	0.0001059	0.0001000	0.0000796	0.0001141	0.0001148	0.0001065	0.0001262	0.0001023	0.0000806	0.001050	0.001747
25	0.0001095	0.0001016	0.0000971	0.0001171	0.0001480	0.0001051	0.0001984	0.0001549	0.0001728	0.0001623	0.0010453	0.001765
30	0.0001334	0.0001220	0.0001220	0.0001348	0.0001924	0.0001660	0.0001752	0.0001730	0.0001709	0.0001826	0.0002234	0.0002234
35	0.0001714	0.0002246	0.0002246	0.0001649	0.0001817	0.0002120	0.0002176	0.0003305	0.0002290	0.0001933	0.0002048	0.0002085
40	0.0003913	0.0002713	0.0002266	0.0003717	0.0003474	0.0003455	0.0003905	0.0003833	0.0002784	0.0002810	0.0004231	0.0005367
45	0.0005726	0.0004440	0.0006504	0.0005691	0.0006777	0.0006340	0.0006576	0.0005932	0.0005327	0.0006888	0.0007023	0.0007023
50	0.0007606	0.0008124	0.0004684	0.0007745	0.0008299	0.0008300	0.0009948	0.0009948	0.0008462	0.0006780	0.0009214	0.0008781
55	0.0012828	0.0010732	0.0015700	0.0011142	0.0013039	0.0014007	0.0014708	0.0013021	0.0013797	0.0011285	0.0015631	0.0015319
60	0.0019247	0.0016090	0.0016090	0.0016055	0.0018558	0.0020496	0.0020879	0.0022731	0.0021280	0.0016884	0.0021210	0.0022263
65	0.0029304	0.0028200	0.0028200	0.0028986	0.0029016	0.0032954	0.0033524	0.0029238	0.0030517	0.0028294	0.0033693	0.0032409
70	0.0045200	0.0045200	0.0049444	0.0045708	0.0049456	0.0056074	0.0050838	0.0052617	0.0053607	0.0046814	0.0053200	0.0050966
75	0.104140	0.109623	0.1046882	0.104380	0.121184	0.129225	0.122892	0.117925	0.121554	0.115560	0.115806	0.103481
GROSS	1.0182682	1.0175482	1.0175097	1.0207464	1.0337547	1.0418729	1.0382150	1.037985	1.0338964	1.0217779	1.0337722	1.0290695
CRUDE	0.006770	0.009833	0.011586	0.009448	0.010709	0.011697	0.010373	0.010278	0.009723	0.009649	0.008514	0.007980
M.AGE	68.6854	69.1628	69.0294	68.9966	68.6965	69.2252	68.4918	68.5554	69.1734	69.3433	68.5430	67.6855

FERTILITY RATES

AGE	UUDENMA	TURUN	AHVENAN	HAMEEN	KYKEN	MIKKELI	POH.KAR	KUOPION	KESK.SU	VAASAN	OUULUN	LAPIN
0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
5	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
10	0.000026	0.000019	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
15	0.0013099	0.0014399	0.0014417	0.0013941	0.0012714	0.0011900	0.0012272	0.0010806	0.0011572	0.0014604	0.0014444	0.0014644
20	0.0048500	0.0051922	0.0052118	0.005132	0.0048165	0.0044338	0.004336	0.004316	0.0048733	0.0054313	0.0058725	0.0051876
25	0.0051974	0.0049795	0.0055883	0.0048268	0.0049656	0.0053533	0.0050265	0.0052229	0.0053326	0.0059949	0.0060256	0.0051448
30	0.028172	0.024199	0.021739	0.0223790	0.0244220	0.0227390	0.0331362	0.0291980	0.0298680	0.031441	0.033404	0.029220
35	0.008477	0.009582	0.011542	0.010601	0.0105824	0.0105808	0.013257	0.011938	0.012698	0.014683	0.019269	0.014433
40	0.001871	0.002253	0.003464	0.002828	0.002159	0.0020223	0.0036119	0.002577	0.0030763	0.004091	0.0055113	0.003774
45	0.000129	0.000368	0.000000	0.000000	0.0001148	0.0001147	0.0001177	0.0001185	0.000332	0.000422	0.000420	0.000753
50	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
55	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
60	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
65	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
70	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
75	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
GROSS	0.7633240	0.762677	0.801417	0.752895	0.728763	0.751604	0.765835	0.769261	0.797959	0.897653	0.960145	0.829833
CRUDE	0.014347	0.012692	0.012858	0.012947	0.011920	0.011320	0.011930	0.012048	0.012868	0.013909	0.015572	0.013387
M.AGE	26.7558	26.5433	26.6023	26.6386	27.4131	26.6371	27.5702	27.2731	27.3090	27.2539	27.5663	27.2474

OUTMIGRATION RATES

MIGRATION FROM IUDENMA TO
TURUN AHVENAN

AGE	TOTAL	IUDENMA	TURUN AHVENAN	HAMEEN	KYmen	MIKKELI	POH.KAR	KUOPION	KESK.SU	VAA SAN	OU LUN	LAPIN
0	0.125464	0.084484	0.006462	0.0000155	0.010619	0.004414	0.002482	0.002510	0.002975	0.002708	0.002905	0.004583
5	0.077913	0.04877	0.003814	0.000137	0.005622	0.002580	0.001122	0.001271	0.001633	0.001795	0.001633	0.001227
10	0.045050	0.02354	0.002109	0.000226	0.003143	0.001270	0.000864	0.000576	0.000851	0.000930	0.000930	0.000524
15	0.071854	0.047498	0.002777	0.000244	0.005142	0.001497	0.001813	0.000527	0.001864	0.001401	0.001337	0.001116
20	0.165336	0.114701	0.004707	0.000466	0.011315	0.004777	0.003573	0.000463	0.004646	0.001406	0.002824	0.002297
25	0.145801	0.120028	0.007128	0.000219	0.011661	0.005377	0.002814	0.002911	0.003406	0.003228	0.003001	0.004412
30	0.095538	0.067249	0.005009	0.000093	0.007239	0.003327	0.001623	0.001448	0.002277	0.002067	0.001821	0.002569
35	0.059293	0.041972	0.004358	0.0002070	0.004473	0.001625	0.001023	0.000739	0.001310	0.001254	0.001393	0.001380
40	0.037488	0.027745	0.001639	0.000193	0.002799	0.000959	0.000844	0.000634	0.000510	0.000541	0.000650	0.000835
45	0.029114	0.021272	0.001553	0.000032	0.002200	0.001035	0.000518	0.000340	0.000566	0.000372	0.000323	0.000113
50	0.025347	0.018082	0.000998	0.000089	0.002405	0.000534	0.000428	0.000405	0.000534	0.000819	0.000321	0.000107
55	0.021837	0.015300	0.001103	0.000102	0.002043	0.001042	0.000511	0.000366	0.000368	0.000347	0.000368	0.000061
60	0.020599	0.013445	0.001411	0.000120	0.002568	0.000608	0.000445	0.000294	0.000274	0.000333	0.000372	0.0000470
65	0.017607	0.011339	0.001198	0.000092	0.002189	0.000737	0.000507	0.000277	0.000599	0.000254	0.000346	0.000092
70	0.011536	0.007061	0.000762	0.000000	0.001558	0.000431	0.0000431	0.000331	0.000398	0.000265	0.000166	0.000066
75	0.007935	0.004898	0.000492	0.000000	0.001169	0.000492	0.0000185	0.000123	0.000092	0.000092	0.000092	0.000092
GROSS	4.723724	3.267305	0.235306	0.0009346	0.380721	0.157010	0.096607	0.094980	0.111864	0.097398	0.093401	0.140492
CRUDE	0.073639	0.050892	0.0203617	0.0000143	0.005779	0.002443	0.001484	0.001514	0.001763	0.001539	0.001459	0.002249
M.AGE	26.6051	26.6097	27.4207	28.3044	27.0075	27.6875	24.9344	25.9865	25.4132	25.3212	23.4243	23.7419

MIGRATION FROM TURUN TO
IUDENMA TURUN AHVENAN

AGE	TOTAL	IUDENMA	TURUN AHVENAN	HAMEEN	KYmen	MIKKELI	POH.KAR	KUOPION	KESK.SU	VAA SAN	OU LUN	LAPIN
0	0.100244	0.009083	0.067757	0.0000186	0.008934	0.000951	0.000673	0.001462	0.001717	0.003574	0.002993	0.001299
5	0.053754	0.005092	0.032624	0.0000176	0.005053	0.000666	0.000411	0.000509	0.000783	0.001038	0.001606	0.000744
10	0.028146	0.002581	0.019949	0.000057	0.002524	0.000380	0.000247	0.000247	0.000285	0.000456	0.000740	0.000493
15	0.063172	0.005506	0.042236	0.0000290	0.006303	0.000489	0.0001580	0.000543	0.000743	0.001141	0.001829	0.001050
20	0.149731	0.016708	0.097023	0.0000594	0.015183	0.001396	0.0001370	0.0000915	0.0002103	0.0022905	0.004446	0.002279
25	0.118009	0.016293	0.073295	0.0000453	0.011187	0.001891	0.0001406	0.0000891	0.0001750	0.002547	0.003428	0.001750
30	0.071907	0.006213	0.021175	0.0000161	0.007875	0.001382	0.0000806	0.0000622	0.0001882	0.001358	0.002533	0.000852
35	0.041380	0.004205	0.028144	0.0000448	0.003440	0.000908	0.000382	0.000454	0.000526	0.000684	0.000980	0.000454
40	0.024926	0.027223	0.033000	0.0002301	0.002301	0.000242	0.000170	0.000388	0.000460	0.000533	0.000581	0.000216
45	0.020267	0.001817	0.014424	0.000046	0.002047	0.0001368	0.000115	0.000138	0.000158	0.000368	0.000322	0.000115
50	0.014859	0.001436	0.012443	0.000050	0.001015	0.000198	0.000025	0.000050	0.000050	0.000223	0.000322	0.000058
55	0.012997	0.001262	0.008980	0.000057	0.001578	0.000172	0.0000957	0.000029	0.000115	0.000201	0.000287	0.000172
60	0.013166	0.001133	0.009223	0.000000	0.001591	0.000135	0.0000027	0.0000135	0.0000081	0.0000324	0.0000108	0.000106
65	0.010544	0.025582	0.07939	0.000000	0.001195	0.000184	0.0000123	0.000061	0.000123	0.000153	0.0000123	0.000031
70	0.009729	0.000977	0.006670	0.000000	0.001614	0.000127	0.000042	0.000042	0.000127	0.000000	0.000042	0.000000
75	0.007865	0.001452	0.005001	0.000000	0.000686	0.000061	0.000000	0.000000	0.000121	0.000000	0.000000	0.000040
GROSS	3.703696	0.392669	2.444529	0.0102991	0.0362639	0.051561	0.033655	0.027389	0.048799	0.069123	0.108196	0.046762
CRUDE	0.054947	0.005915	0.036123	0.0000172	0.0005357	0.000746	0.000510	0.000498	0.000734	0.001632	0.001583	0.000723
M.AGE	25.6852	26.3068	25.8305	24.9112	26.5513	26.1144	24.1621	24.4728	23.9017	23.1508	22.7388	22.7603

MIGRATION FROM AHVENAN TÖ
UUDENMAA TURUN AHNINAN

AGE	TOTAL	UUDENMAA	TURUN AHNINAN	HAMEEN	KYHEN	MIKKELJ	POH. KAR	KUOPION	KESK. SU	VAASAN	OULUN	LAPIN	
0	0.091992	0.005295	0.005956	0.072138	0.003309	0.000662	0.000662	0.002647	0.000662	0.000662	0.000662	0.000662	
5	0.043911	0.006440	0.00498	0.029274	0.00585	0.00000	0.000585	0.001171	0.001756	0.00000	0.00000	0.00000	
10	0.028261	0.001317	0.00000	0.016340	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
15	0.073773	0.003277	0.005242	0.005701	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
20	0.141911	0.014999	0.011044	0.100497	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
25	0.792233	0.010680	0.007671	0.063592	0.001456	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
30	0.063179	0.008832	0.006114	0.004440	0.001359	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
35	0.042869	0.003298	0.001649	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
40	0.023519	0.003484	0.000871	0.016551	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
45	0.015088	0.00000	0.00000	0.012195	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
50	0.013271	0.00000	0.00000	0.011710	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
55	0.018913	0.00000	0.00000	0.017336	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
60	0.013761	0.00000	0.00000	0.012232	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
65	0.010628	0.001932	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
70	0.006242	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
75	0.005425	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
GROSS	3.359485	0.375108	0.227126	2.509909	0.049422	0.0011765	0.0003277	0.005355	0.023422	0.035589	0.162299	0.026214	
CRUDE	0.046571	0.004544	0.003408	0.035894	0.000727	0.000182	0.000045	0.000091	0.000363	0.000545	0.002363	0.000409	
M. AGE	25.7384	25.2346	23.5754	26.2625	21.4259	15.1286	17.5000	16.5656	23.4298	16.8941	27.1791	21.1091	0.0000

AGE	TOTAL	UUDENMAA	TURUN AHNINAN	HAMEEN	KYHEN	MIKKELJ	POH. KAR	KUOPION	KESK. SU	VAASAN	OULUN	LAPIN
0	0.094769	0.014428	0.010350	0.00000	0.049749	0.0002533	0.003947	0.001785	0.002147	0.00000	0.003619	0.00000
5	0.050590	0.008182	0.005783	0.00000	0.026474	0.001764	0.000677	0.001333	0.00000	0.00000	0.00000	0.00000
10	0.027253	0.004572	0.002573	0.00000	0.000040	0.000040	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
15	0.062676	0.012621	0.006134	0.00000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
20	0.141882	0.029969	0.015992	0.00000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
25	0.116519	0.025798	0.012650	0.00000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
30	0.066817	0.012480	0.007135	0.00000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
35	0.041507	0.006196	0.004579	0.00000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
40	0.027252	0.004717	0.002666	0.00000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
45	0.020389	0.002796	0.002103	0.00000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
50	0.016718	0.003045	0.001602	0.00000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
55	0.016529	0.002278	0.001631	0.00000	0.010527	0.0000492	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
60	0.014716	0.002393	0.001546	0.00000	0.008462	0.0000496	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
65	0.012047	0.001663	0.000950	0.00000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
70	0.009998	0.001449	0.001111	0.00000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
75	0.008129	0.001635	0.000529	0.000000	0.004137	0.0000529	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
GROSS	3.635554	0.659307	0.386579	0.001528	1.892095	0.106663	0.094958	0.060546	0.066405	0.127331	0.095411	0.107540
CRUDE	0.054862	0.010228	0.005876	0.000026	0.028132	0.001590	0.001402	0.000915	0.001021	0.001933	0.001455	0.001674
M. AGE	26.4106	26.3424	25.7771	19.6327	26.9739	27.3266	26.3740	25.4706	24.3318	25.0974	24.6680	25.3792

AGE	TOTAL	UUDENMAA	TURUN AHNINAN	HAMEEN	KYHEN	MIKKELJ	POH. KAR	KUOPION	KESK. SU	VAASAN	OULUN	LAPIN
0	0.094769	0.014428	0.010350	0.00000	0.049749	0.0002533	0.003947	0.001785	0.002147	0.00000	0.003619	0.00000
5	0.050590	0.008182	0.005783	0.00000	0.026474	0.001764	0.000677	0.001333	0.00000	0.00000	0.00000	0.00000
10	0.027253	0.004572	0.002573	0.00000	0.000040	0.000040	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
15	0.062676	0.012621	0.006134	0.00000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
20	0.141882	0.029969	0.015992	0.00000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
25	0.116519	0.025798	0.012650	0.00000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
30	0.066817	0.012480	0.007135	0.00000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
35	0.041507	0.006196	0.004579	0.00000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
40	0.027252	0.004717	0.002666	0.00000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
45	0.020389	0.002796	0.002103	0.00000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
50	0.016718	0.003045	0.001602	0.00000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
55	0.016529	0.002278	0.001631	0.00000	0.010527	0.0000492	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
60	0.014716	0.002393	0.001546	0.00000	0.008462	0.0000496	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
65	0.012047	0.001663	0.000950	0.00000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
70	0.009998	0.001449	0.001111	0.00000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
75	0.008129	0.001635	0.000529	0.000000	0.004137	0.0000529	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
GROSS	3.635554	0.659307	0.386579	0.001528	1.892095	0.106663	0.094958	0.060546	0.066405	0.127331	0.095411	0.107540
CRUDE	0.054862	0.010228	0.005876	0.000026	0.028132	0.001590	0.001402	0.000915	0.001021	0.001933	0.001455	0.001674
M. AGE	26.4106	26.3424	25.7771	19.6327	26.9739	27.3266	26.3740	25.4706	24.3318	25.0974	24.6680	25.3792

		MIGRATION FROM KYMEN TO		HAMEEN		KYMEN		MIKKELI		POH.KAR		KUOPION		KESK.SU		VAASAN		OULUN		LAPPIN		
AGE	TOTAL	UUDENMA	TURUN	AHVENAN																		
0	0.089857	0.015307	0.003052	0.000048	0.006879	0.049797	0.004505	0.002470	0.001938	0.001695	0.001550	0.001550	0.001641	0.000775	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000		
5	0.047201	0.007738	0.001780	0.000039	0.003289	0.026966	0.002515	0.000851	0.001045	0.001006	0.000426	0.0001161	0.000387	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000		
10	0.026537	0.004171	0.001034	0.000071	0.001960	0.001960	0.000463	0.000463	0.000678	0.001322	0.000441	0.000739	0.000746	0.000237	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000		
15	0.0154041	0.001239	0.001142	0.000042	0.0005119	0.03750	0.002667	0.000678	0.000678	0.000281	0.002607	0.001206	0.002086	0.000945	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000		
20	0.013783	0.003175	0.0004008	0.000033	0.0009842	0.000573	0.000573	0.0002835	0.0002835	0.000281	0.000281	0.001206	0.002467	0.000691	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000		
25	0.011999	0.0025985	0.0004605	0.00005	0.0008552	0.005437	0.005446	0.0002739	0.0002739	0.0002533	0.0002533	0.001414	0.002467	0.000691	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000		
30	0.006755	0.0013333	0.0003207	0.00000	0.0005406	0.033996	0.0002932	0.0001924	0.0001924	0.001787	0.001420	0.0000871	0.001375	0.000504	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000		
35	0.003987	0.000587	0.0006014	0.00000	0.001657	0.0022351	0.0002884	0.0000422	0.0000422	0.000282	0.000282	0.000000	0.000000	0.00063	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000		
40	0.0023049	0.0004131	0.0000845	0.00000	0.001925	0.013285	0.001408	0.0000422	0.0000422	0.000136	0.000136	0.000000	0.000000	0.000047	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000		
45	0.0018615	0.0003524	0.0000678	0.00000	0.0002124	0.0009707	0.000704	0.0000352	0.0000352	0.000050	0.000050	0.000000	0.000000	0.000101	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000		
50	0.0016095	0.0002666	0.0000604	0.00000	0.0001207	0.0007687	0.000668	0.0000171	0.0000171	0.000114	0.000057	0.000000	0.000000	0.000114	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000		
55	0.0012356	0.0001367	0.00001512	0.00000	0.0001139	0.0007687	0.000668	0.0000171	0.0000171	0.000114	0.000057	0.000000	0.000000	0.000054	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000		
60	0.0012937	0.0002226	0.0000268	0.00000	0.0001140	0.0007998	0.000752	0.0000376	0.0000376	0.0001376	0.000000	0.000000	0.000000	0.000107	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000		
65	0.0009777	0.0001119	0.0000249	0.00000	0.0001119	0.0006567	0.000560	0.0000560	0.0000560	0.000062	0.000062	0.000000	0.000000	0.000124	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000		
70	0.0007117	0.0001578	0.0000263	0.00000	0.0001578	0.0004297	0.000438	0.0000438	0.0000438	0.000086	0.000086	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000		
75	0.0006342	0.0001558	0.0000367	0.00000	0.0000550	0.0004767	0.000367	0.0000000	0.0000000	0.000275	0.000275	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000		
GROSS	3.408735	0.6707520	0.123100	0.0001926	0.000262953	1.049850	0.170247	0.0000171	0.0000171	0.00067916	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000		
CRUDE	0.0501118	0.0010110	0.0001792	0.0000029	0.00030873	0.027001	0.002474	0.00001159	0.00001159	0.0000986	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000		
M. AGE	26.0126	25.7803	26.5440	24.7586	25.8972	26.2269	26.3905	26.6024	26.6054	24.9560	24.2819	22.9890	22.6375									
		MIGRATION FROM MIKKELI TO		HAMEEN		KYMEN		MIKKELI		POH.KAR		KUOPION		KESK.SU		VAASAN		OULUN		LAPPIN		
AGE	TOTAL	UUDENMA	TURUN	AHVENAN																		
0	0.090503	0.012646	0.003471	0.00000	0.000331	0.0088678	0.035210	0.004794	0.006529	0.004794	0.0004179	0.001934	0.000499	0.000499	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
5	0.046531	0.007539	0.001559	0.00000	0.0004928	0.004344	0.002122	0.00004233	0.00004233	0.0002962	0.0000899	0.0002864	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000		
10	0.027718	0.003491	0.001481	0.00000	0.0002645	0.002486	0.0011796	0.0001164	0.0001164	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000		
15	0.0183618	0.0021387	0.0002376	0.00000	0.0001951	0.0006040	0.0001685	0.0001733	0.0001733	0.0000683	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000		
20	0.0174365	0.0046072	0.0005029	0.00000	0.0001380	0.0018420	0.0001368	0.0000688	0.0000688	0.0000646	0.00013720	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000		
25	0.0132657	0.002857	0.0004451	0.00000	0.0001374	0.0045188	0.0001374	0.00005007	0.00005007	0.0000510	0.00003901	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000		
30	0.071132	0.0102292	0.0003237	0.00000	0.00017221	0.006059	0.0027888	0.00013901	0.00013901	0.0000510	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000		
35	0.043300	0.00205689	0.0001659	0.00000	0.0004820	0.0004267	0.001857	0.0001580	0.0001580	0.00004425	0.0001343	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000		
40	0.027567	0.0035609	0.0000845	0.00000	0.0003532	0.0002227	0.0011979	0.0001768	0.0001768	0.00002995	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000		
45	0.021673	0.003612	0.0000295	0.00000	0.0001401	0.002285	0.0001401	0.00001032	0.00001032	0.00002580	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000		
50	0.017566	0.0021556	0.0000559	0.00000	0.0001437	0.0001118	0.0000863	0.0000639	0.0000639	0.00001757	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000		
55	0.0183617	0.002597	0.0001866	0.00000	0.0001670	0.0001299	0.00006813	0.0000649	0.0000649	0.00001670	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000		
60	0.016905	0.001839	0.0000438	0.00000	0.0001226	0.00009372	0.00009372	0.0000876	0.0000876	0.00001314	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000		
65	0.014955	0.0015076	0.0000401	0.00000	0.0001104	0.0000903	0.0000830	0.0000502	0.0000502	0.00001506	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000		
70	0.010768	0.000839	0.0000289	0.00000	0.0001018	0.0000699	0.00004894	0.0000140	0.0000140	0.00001119	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000		
75	0.010859	0.001086	0.0000271	0.00000	0.0001021	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000		
GROSS	4.052421	0.754740	0.132693	0.000309	0.0006879	0.049797	0.004505	0.0002470	0.0002470	0.0001938	0.0001695	0.0001550	0.0001405	0.0001405	0.0001405	0.0001405						

AGE	MIGRATION FROM KESK.SU TO TURUN AVHANAN		MIGRATION FROM VAASAN TO TURUN AVHANAN		MIGRATION FROM VAASAN TO HAMEEN		POH.KAH KUOPION KESK.SU VAASAN		OULUN LAPIN		
	TOTAL	UIDEHHA	HAMEEN	KYHEN	MIKKELI	POH.KAH	KUOPION	KESK.SU	VAASAN	OULUN	LAPIN
0	0.103079	0.012194	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
5	0.052357	0.006298	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
10	0.025530	0.003481	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
15	0.071728	0.014769	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
20	0.171960	0.034643	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
25	0.134359	0.024666	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
30	0.075456	0.010349	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
35	0.043783	0.0060237	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
40	0.024922	0.002993	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
45	0.018272	0.002658	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
50	0.015991	0.001362	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
55	0.013289	0.001693	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
60	0.015671	0.001567	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
65	0.013022	0.001093	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
70	0.0119204	0.001581	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
75	0.007531	0.000452	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
GROSS	3.985667	0.618405	0.242252	0.0000915	0.453083	0.079539	0.142895	0.044784	0.127357	1.984305	0.123154
CRUDE	0.059821	0.009681	0.003706	0.000017	0.006809	0.001181	0.0002106	0.000670	0.001697	0.001863	0.001767
H, AGE	25.8368	24.9413	24.5341	25.0403	25.8958	27.5216	26.9413	24.0164	24.3940	26.3529	25.2964

AGE	MIGRATION FROM VAASAN TO TURUN AVHANAN		MIGRATION FROM VAASAN TO HAMEEN		POH.KAR KUOPION KESK.SU VAASAN		OULUN LAPIN				
	TOTAL	UIDENMAA	HAMEEN	KYHEN	MIKKELI	POH.KAR	KUOPION	KESK.SU	VAASAN	OULUN	LAPIN
0	0.006085	0.006542	0.0000100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
5	0.036551	0.003481	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
10	0.018113	0.001764	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
15	0.055989	0.001302	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
20	0.148267	0.021005	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
25	0.124085	0.014322	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
30	0.056757	0.006167	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
35	0.030846	0.001619	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
40	0.118721	0.001662	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
45	0.011355	0.001035	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
50	0.019538	0.001138	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
55	0.008822	0.000582	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
60	0.010176	0.0007991	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
65	0.008719	0.000713	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
70	0.006913	0.000676	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
75	0.005901	0.000632	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
GROSS	3.129441	0.369096	0.290362	0.019031	0.230857	0.034039	0.031049	0.015742	0.013261	0.090147	1.838205
CRUDE	0.046787	0.005678	0.004427	0.000303	0.003420	0.000496	0.000444	0.000225	0.000225	0.002733	0.000589
H, AGE	25.0790	25.3175	23.2666	24.2672	26.2812	26.1212	23.8267	27.4171	25.1214	26.7961	23.3247

AGE	TOTAL UDENMA	MIGRATION FROM POM.KAR TO AHVENAN	HAMEEN	KYHEN	MIKKELI	POM.KAR	KUOPION	KESK.SU	VAA SAN	QULUN	LAPIN
0	0.0A9513	0.0011955	0.003344	0.0006317	0.006901	0.007095	0.002473	0.001555	0.001596	0.001458	
5	0.046410	0.006015	0.005119	0.000342	0.003342	0.002973	0.002254	0.000520	0.000297	0.001337	0.000743
10	0.022489	0.003055	0.001523	0.000000	0.001698	0.001523	0.001171	0.0011654	0.000586	0.000117	0.000293
15	0.084957	0.030443	0.004266	0.000000	0.007585	0.00424	0.002476	0.0030496	0.000948	0.000474	0.001053
20	0.175340	0.033604	0.006658	0.000003	0.0015467	0.009143	0.0007422	0.005699	0.006826	0.002881	0.001002
25	0.123532	0.025573	0.004850	0.000073	0.006953	0.007422	0.0006540	0.0050485	0.0008671	0.002131	0.001543
30	0.069971	0.011851	0.002782	0.000000	0.0094637	0.003813	0.0003053	0.0005049	0.0002164	0.001340	0.0002370
35	0.041650	0.006529	0.002869	0.000000	0.002968	0.002572	0.0002473	0.0018698	0.000495	0.000396	0.001583
40	0.026764	0.004286	0.001048	0.000000	0.000952	0.001429	0.0001333	0.0015244	0.000286	0.000095	0.000571
45	0.018624	0.002483	0.000789	0.000000	0.001662	0.001774	0.0000849	0.0010110	0.0006621	0.000266	0.000355
50	0.017583	0.001954	0.000977	0.000000	0.001758	0.000684	0.000977	0.0009671	0.000781	0.000000	0.000391
55	0.017583	0.002543	0.000663	0.000000	0.001438	0.000553	0.000663	0.0009842	0.000774	0.000221	0.000111
60	0.019425	0.002181	0.000519	0.000000	0.000935	0.001350	0.000415	0.012049	0.001246	0.000208	0.000415
65	0.016387	0.001161	0.000645	0.000000	0.000645	0.000645	0.000129	0.001161	0.000129	0.000000	0.000258
70	0.013709	0.001142	0.000762	0.000000	0.000571	0.000190	0.000190	0.0008949	0.001714	0.000000	0.000190
75	0.012048	0.0032008	0.000000	0.000000	0.000602	0.000201	0.000104	0.0006827	0.000402	0.000000	0.000000
GROSS	3.979917	0.835924	0.175376	0.000000	0.3011661	0.229824	0.168669	1.796465	0.217926	0.060605	0.336193
CRUDE	0.058470	0.013426	0.002586	0.000011	0.0004593	0.003390	0.002417	0.025468	0.002991	0.000500	0.001552
H. AGE	27.2894	25.0764	26.0987	25.1996	25.8825	24.7786	26.4147	29.1867	27.7514	25.8144	26.9959
										26.8818	23.9531

AGE	TOTAL UDENMA	MIGRATION FROM KUOPION TO TURUN AHVENAN	HAMEEN	KYHEN	MIKKELI	POM.KAR	KUOPION	KESK.SU	VAA SAN	QULUN	LAPIN
0	0.002351	0.011265	0.003237	0.000000	0.006863	0.002784	0.006021	0.004597	0.0033536	0.004143	0.001619
5	0.040172	0.005978	0.001824	0.000000	0.003698	0.001418	0.003293	0.002026	0.0016819	0.001824	0.000405
10.	0.021143	0.002692	0.000564	0.000000	0.001693	0.001433	0.001433	0.001216	0.0008943	0.000738	0.001563
15	0.078708	0.020465	0.003929	0.000000	0.005566	0.001637	0.003766	0.001760	0.0035936	0.002169	0.000497
20	0.150244	0.038910	0.006763	0.000007	0.009445	0.003917	0.000923	0.005832	0.0061325	0.006048	0.001741
25	0.117653	0.025090	0.004648	0.000050	0.006497	0.004298	0.0007647	0.006447	0.0042733	0.006048	0.002199
30	0.066491	0.010517	0.003349	0.000000	0.003944	0.002698	0.005120	0.003183	0.0263361	0.004290	0.001176
35	0.034939	0.004182	0.001619	0.000000	0.002900	0.001282	0.002631	0.0016053	0.001079	0.002607	0.001686
40	0.020221	0.002511	0.000925	0.000000	0.001368	0.000727	0.001388	0.001256	0.0009648	0.000595	0.000132
45	0.018104	0.003089	0.000371	0.000000	0.000989	0.000680	0.002163	0.000680	0.0008465	0.000741	0.002185
50	0.016557	0.002504	0.000974	0.000000	0.000904	0.000626	0.000904	0.000626	0.0008070	0.000765	0.000209
55	0.014577	0.001638	0.000409	0.000000	0.000819	0.000655	0.000655	0.000655	0.0009254	0.000573	0.000328
60	0.014652	0.001267	0.000554	0.000000	0.000238	0.001426	0.000871	0.007841	0.000475	0.000158	0.000236
65	0.013162	0.001222	0.000752	0.000000	0.001034	0.000564	0.001034	0.000470	0.007239	0.000188	0.000376
70	0.012547	0.001619	0.000405	0.000000	0.000675	0.000675	0.000540	0.0007265	0.000270	0.000135	0.000405
75	0.010793	0.001022	0.000128	0.000000	0.000767	0.000128	0.000767	0.0005749	0.0001128	0.000256	0.000256
GROSS	3.558071	0.669857	0.152163	0.0000685	0.249467	0.117448	0.244218	0.161380	1.526289	0.160514	0.053895
CRUDE	0.052809	0.010572	0.002280	0.000012	0.063708	0.001711	0.003557	0.002340	0.022298	0.002268	0.000728
H. AGE	26.9230	25.1267	26.3985	24.3237	25.4491	26.9116	27.3575	26.3682	25.84503	25.8818	24.7793

AGE	MIGRATION FROM TURKU AHVENANMAA			TURKU AHVENANMAA			HAMLEN			KYMEN LAHTI			MIKKELI POH. KARHUNEN			KUOPIO VAASTOMAA			KESK. SUOMALAISUUS			VAASAN LAHTI			OULUN LAHTI			LAPIN LAHTI			
	TOTAL	YOUNG MALE	YOUNG FEMALE	ADULT MALE	ADULT FEMALE	ADULT M	ADULT F	ADULT M	ADULT F	ADULT M	ADULT F	ADULT M	ADULT F	ADULT M	ADULT F	ADULT M	ADULT F	ADULT M	ADULT F	ADULT M	ADULT F	ADULT M	ADULT F	ADULT M	ADULT F	ADULT M	ADULT F	ADULT M	ADULT F		
0-5	994261	0.008046	0.005341	0.000103	0.000109	0.0001780	0.0001541	0.0001404	0.0002294	0.0002260	0.0003972	0.0057694	0.0005718	0.0005718	0.0005718	0.0005718	0.0005718	0.0005718	0.0005718	0.0005718	0.0005718	0.0005718	0.0005718	0.0005718	0.0005718	0.0005718	0.0005718	0.0005718	0.0005718		
6-10	643241	0.003359	0.002334	0.000008	0.000008	0.0002420	0.0002420	0.0001712	0.0001736	0.0001338	0.0001050	0.0025421	0.0002420	0.0002420	0.0002420	0.0002420	0.0002420	0.0002420	0.0002420	0.0002420	0.0002420	0.0002420	0.0002420	0.0002420	0.0002420	0.0002420	0.0002420	0.0002420	0.0002420		
11-15	822132	0.002361	0.001721	0.000007	0.000007	0.0001475	0.0001475	0.0001032	0.0001032	0.0000566	0.0000566	0.0006664	0.0012689	0.001057	0.001057	0.001057	0.001057	0.001057	0.001057	0.001057	0.001057	0.001057	0.001057	0.001057	0.001057	0.001057	0.001057	0.001057	0.001057	0.001057	
16-20	1169282	0.0013591	0.00106227	0.000024	0.000024	0.0005872	0.0005872	0.00010758	0.00010758	0.0000568	0.0000568	0.0009233	0.002865	0.002226	0.002226	0.002226	0.002226	0.002226	0.002226	0.002226	0.002226	0.002226	0.002226	0.002226	0.002226	0.002226	0.002226	0.002226	0.002226	0.002226	
21-25	154557	0.0025201	0.00116422	0.000184	0.000184	0.00011183	0.00011183	0.0001313	0.0001313	0.0001575	0.0001575	0.0003229	0.0006090	0.0006353	0.0006353	0.0006353	0.0006353	0.0006353	0.0006353	0.0006353	0.0006353	0.0006353	0.0006353	0.0006353	0.0006353	0.0006353	0.0006353	0.0006353	0.0006353		
26-30	126325	0.0017168	0.0007812	0.000261	0.000261	0.0006389	0.0006389	0.0002392	0.0002392	0.0001299	0.0001299	0.000331	0.0005087	0.0006037	0.0008145	0.0008145	0.0008145	0.0008145	0.0008145	0.0008145	0.0008145	0.0008145	0.0008145	0.0008145	0.0008145	0.0008145	0.0008145	0.0008145	0.0008145	0.0008145	
31-35	696422	0.0006895	0.0003652	0.0001411	0.0001411	0.0001369	0.0001369	0.0001203	0.0001203	0.0000752	0.0000752	0.0001371	0.0001371	0.000212	0.000212	0.0002048	0.0002048	0.0002048	0.0002048	0.0002048	0.0002048	0.0002048	0.0002048	0.0002048	0.0002048	0.0002048	0.0002048	0.0002048	0.0002048	0.0002048	0.0002048
36-40	377785	0.0004472	0.0002090	0.000000	0.000000	0.0002382	0.0002382	0.0001129	0.0001129	0.0000711	0.0000711	0.0001045	0.0001045	0.0001045	0.0001045	0.0001045	0.0001045	0.0001045	0.0001045	0.0001045	0.0001045	0.0001045	0.0001045	0.0001045	0.0001045	0.0001045	0.0001045	0.0001045			
41-45	0.021922	0.0012649	0.0001667	0.000000	0.000000	0.0000897	0.0000897	0.0000427	0.0000427	0.0000299	0.0000299	0.0000427	0.0000427	0.0001068	0.0001068	0.0001068	0.0001068	0.0001068	0.0001068	0.0001068	0.0001068	0.0001068	0.0001068	0.0001068	0.0001068	0.0001068	0.0001068	0.0001068	0.0001068		
46-50	0.019446	0.0012310	0.0001344	0.000000	0.000000	0.0000924	0.0000924	0.0000336	0.0000336	0.0000252	0.0000252	0.0000504	0.0000504	0.0000714	0.0000714	0.0000714	0.0000714	0.0000714	0.0000714	0.0000714	0.0000714	0.0000714	0.0000714	0.0000714	0.0000714	0.0000714	0.0000714	0.0000714			
51-55	0.016671	0.0011710	0.0001000	0.000000	0.000000	0.0001187	0.0001187	0.0000617	0.0000617	0.0000192	0.0000192	0.0000955	0.0000955	0.0000332	0.0000332	0.0000285	0.0000285	0.0000285	0.0000285	0.0000285	0.0000285	0.0000285	0.0000285	0.0000285	0.0000285	0.0000285	0.0000285	0.0000285	0.0000285	0.0000285	
56-60	0.015862	0.0010271	0.0000577	0.000000	0.000000	0.0000692	0.0000692	0.0000461	0.0000461	0.0000288	0.0000288	0.0000692	0.0000692	0.0000750	0.0000750	0.0000519	0.0000519	0.0000519	0.0000519	0.0000519	0.0000519	0.0000519	0.0000519	0.0000519	0.0000519	0.0000519	0.0000519	0.0000519	0.0000519	0.0000519	
61-65	0.015988	0.00101453	0.0000523	0.000000	0.000000	0.0001395	0.0001395	0.0000607	0.0000607	0.0000349	0.0000349	0.0000523	0.0000523	0.0000349	0.0000349	0.0000239	0.0000239	0.0000639	0.0000639	0.0000639	0.0000639	0.0000639	0.0000639	0.0000639	0.0000639	0.0000639	0.0000639	0.0000639	0.0000639	0.0000639	0.0000639
66-70	0.013128	0.00101293	0.0000607	0.000000	0.000000	0.0000607	0.0000607	0.0000112	0.0000112	0.0000449	0.0000449	0.0000562	0.0000562	0.0000225	0.0000225	0.0000562	0.0000562	0.0000112	0.0000112	0.0000417	0.0000417	0.0000209	0.0000209	0.00005736	0.00005736	0.0000522	0.0000522	0.0000522			

AGE	MIGRATION FROM LAPIN TO			LUDENMA			TURUN AHVENAN			HAMEEN			KYMEN			MIKKELI			POH., KAR.			KUOPION			KESK. SU			VAASAN			OULUN			LAPIN		
	TOTAL	LAPIN	TO	LUDENMA	TURUN	AHVENAN	HAMEEN	KYMEN	MIKKELI	POH., KAR.	KUOPION	KESK. SU	VAASAN	OULUN	LAPIN																					
0	0.93041	0.	0.07416	0.	0.07042	0.	0.06900	0.	0.074495	0.	0.001648	0.	0.001124	0.	0.001573	0.	0.001274	0.	0.002247	0.	0.013934	0.	0.051539	0.	0.013934	0.	0.051539	0.	0.013934	0.	0.051539					
5	0.42386	0.	0.073418	0.	0.072621	0.	0.072003	0.	0.072108	0.	0.000912	0.	0.000919	0.	0.000912	0.	0.000966	0.	0.000912	0.	0.005754	0.	0.024041	0.	0.005754	0.	0.024041	0.	0.005754	0.	0.024041					
10	0.025199	0.	0.011992	0.	0.02314	0.	0.020009	0.	0.01436	0.	0.000634	0.	0.000185	0.	0.000556	0.	0.000185	0.	0.000649	0.	0.004030	0.	0.012924	0.	0.004030	0.	0.012924	0.	0.004030	0.	0.012924					
15	0.0165406	0.	0.016711	0.	0.01711	0.	0.016711	0.	0.016711	0.	0.000487	0.	0.000458	0.	0.000458	0.	0.000458	0.	0.001694	0.	0.005218	0.	0.032268	0.	0.005218	0.	0.032268	0.	0.005218	0.	0.032268					
20	0.156591	0.	0.025774	0.	0.014361	0.	0.000600	0.	0.011740	0.	0.002130	0.	0.001147	0.	0.000491	0.	0.002293	0.	0.00239	0.	0.002949	0.	0.020641	0.	0.072735	0.	0.020641	0.	0.072735	0.	0.020641					
25	0.025024	0.	0.016539	0.	0.017975	0.	0.017322	0.	0.01242	0.	0.002876	0.	0.001242	0.	0.002223	0.	0.002392	0.	0.002876	0.	0.018043	0.	0.057593	0.	0.018043	0.	0.057593	0.	0.018043	0.	0.057593					
30	0.066346	0.	0.006703	0.	0.004039	0.	0.003000	0.	0.003000	0.	0.000945	0.	0.000688	0.	0.001119	0.	0.001375	0.	0.002234	0.	0.012227	0.	0.034462	0.	0.012227	0.	0.034462	0.	0.012227	0.	0.034462					
35	0.043381	0.	0.003448	0.	0.002967	0.	0.002000	0.	0.002364	0.	0.000472	0.	0.000401	0.	0.000882	0.	0.000481	0.	0.002641	0.	0.005934	0.	0.024537	0.	0.005934	0.	0.024537	0.	0.005934	0.	0.024537					
40	0.028092	0.	0.003187	0.	0.001929	0.	0.001929	0.	0.001929	0.	0.000922	0.	0.000452	0.	0.000168	0.	0.000168	0.	0.00252	0.	0.001252	0.	0.003690	0.	0.014675	0.	0.003690	0.	0.014675	0.	0.003690					
45	0.022742	0.	0.002301	0.	0.001923	0.	0.001923	0.	0.001923	0.	0.000290	0.	0.000167	0.	0.000502	0.	0.000084	0.	0.000669	0.	0.002341	0.	0.010786	0.	0.002341	0.	0.010786	0.	0.002341							
50	0.017855	0.	0.001659	0.	0.001756	0.	0.001756	0.	0.001756	0.	0.000585	0.	0.000195	0.	0.000585	0.	0.000195	0.	0.000585	0.	0.001854	0.	0.009659	0.	0.001854	0.	0.009659	0.	0.001854	0.	0.009659					
55	0.015818	0.	0.001993	0.	0.000996	0.	0.000996	0.	0.001619	0.	0.000623	0.	0.000125	0.	0.000125	0.	0.000125	0.	0.000249	0.	0.002865	0.	0.007099	0.	0.002865	0.	0.007099	0.	0.002865	0.	0.007099					
60	0.019382	0.	0.001833	0.	0.001048	0.	0.000948	0.	0.001702	0.	0.000917	0.	0.000131	0.	0.000393	0.	0.000262	0.	0.000393	0.	0.002226	0.	0.008922	0.	0.002226	0.	0.008922	0.	0.002226	0.	0.008922					
65	0.012529	0.	0.001336	0.	0.000668	0.	0.000668	0.	0.000501	0.	0.000000	0.	0.000000	0.	0.000000	0.	0.000000	0.	0.000167	0.	0.000167	0.	0.002172	0.	0.006181	0.	0.002172	0.	0.006181	0.	0.002172	0.	0.006181			
70	0.010145	0.	0.000966	0.	0.000483	0.	0.000483	0.	0.000483	0.	0.000242	0.	0.000000	0.	0.000000	0.	0.000000	0.	0.000000	0.	0.001208	0.	0.005314	0.	0.001208	0.	0.005314	0.	0.001208	0.	0.005314					
75	0.011524	0.	0.000766	0.	0.000000	0.	0.000000	0.	0.000766	0.	0.000000	0.	0.000000	0.	0.000000	0.	0.000000	0.	0.000000	0.	0.001646	0.	0.007996	0.	0.001646	0.	0.007996	0.	0.001646	0.	0.007996					

APPENDIX B

Age-Specific Mortality, Fertility
and Migration Rates

***** OBSERVED POPULATION CHARACTERISTICS *****

-82-

REGION	UUDENMAA		DEATHS		MIGRATION FROM UUDENMAA TO UUDENMAA TURUN AHVENAN HAMEEN		KYMEN MIKKELI POH. KAR KUOPION KESK. SU		VAASAN		OULUN		LAPIN		
	AGE POPULATION	BIRTHS													
0	70913.	9.	187.	5991.	454.	11.	753.	313.	176.	211.	192.	325.	87.		
5	60222.	0.	26.	3921.	306.	11.	451.	207.	90.	102.	131.	152.	42.		
10	76355.	2.	19.	2165.	161.	2.	240.	97.	66.	44.	60.	65.	71.	23.	
15	77792.	1019.	67.	3695.	216.	19.	400.	155.	141.	181.	145.	104.	269.	87.	
20	96895.	4792.	95.	11333.	722.	46.	1118.	472.	353.	441.	459.	326.	279.	227.	
25	123312.	6409.	135.	12343.	879.	27.	1438.	663.	347.	359.	420.	398.	370.	196.	
30	85652.	2413.	114.	5760.	429.	8.	620.	285.	139.	124.	195.	177.	156.	229.	
35	71762.	637.	125.	3012.	241.	5.	321.	131.	72.	53.	94.	90.	108.	37.	
40	64661.	121.	253.	1794.	106.	6.	181.	62.	52.	41.	33.	35.	42.	18.	
45	61825.	8.	354.	1315.	96.	2.	136.	64.	32.	21.	35.	23.	20.	49.	
50	56110.	0.	427.	1015.	56.	5.	135.	30.	24.	25.	30.	46.	33.	18.	
55	48954.	0.	628.	749.	54.	5.	100.	51.	25.	19.	19.	13.	17.	6.	
60	51021.	0.	982.	686.	72.	1.	131.	31.	38.	15.	14.	17.	19.	3.	
65	43391.	0.	1275.	479.	52.	4.	95.	32.	22.	12.	26.	11.	15.	4.	
70	30166.	0.	1343.	213.	23.	8.	47.	13.	10.	10.	12.	8.	5.	2.	
75	32514.	0.	3386.	159.	16.	1.	38.	16.	6.	4.	5.	3.	4.	3.	
TOTAL	1073485.	15401.	9414.	54630.	3883.	153.	6204.	2622.	1593.	1625.	1893.	1562.	1566.	2414.	815.
REGION	TURUN TO		DEATHS		MIGRATION FROM UUDENMAA TURUN AHVENAN HAMEEN		KYMEN MIKKELI POH. KAR KUOPION KESK. SU		VAASAN		OULUN		LAPIN		
AGE POPULATION	TURUN TO		BIRTHS												
0	43095.	0.	111.	388.	2920.	8.	385.	73.	41.	29.	63.	74.	154.	129.	
5	51061.	0.	23.	260.	1819.	9.	258.	34.	21.	26.	40.	53.	62.	69.	
10	52685.	1.	18.	136.	1051.	5.	133.	20.	13.	13.	15.	24.	39.	10.	
15	55214.	795.	52.	304.	2332.	16.	348.	27.	32.	30.	41.	63.	101.	136.	
20	62505.	66.	1041.	6045.	37.	946.	87.	81.	57.	131.	161.	181.	277.	142.	
25	64002.	3187.	65.	1030.	4691.	29.	716.	121.	90.	112.	113.	125.	238.	112.	
30	43431.	1051.	53.	348.	1962.	7.	342.	60.	27.	47.	59.	110.	89.	37.	
35	41856.	401.	94.	176.	1178.	2.	144.	38.	16.	19.	22.	37.	41.	49.	
40	41282.	93.	112.	107.	711.	0.	95.	10.	9.	7.	16.	19.	22.	24.	
45	43470.	16.	193.	79.	627.	2.	89.	16.	5.	6.	16.	16.	14.	5.	
50	40390.	0.	324.	58.	454.	2.	41.	8.	1.	2.	2.	2.	1.	2.	
55	34855.	0.	374.	44.	313.	2.	55.	6.	2.	1.	4.	7.	3.	6.	
60	37081.	0.	639.	42.	342.	0.	59.	5.	1.	5.	3.	9.	12.	4.	
65	32624.	0.	920.	19.	259.	0.	39.	6.	4.	2.	4.	5.	4.	1.	
70	23537.	0.	1048.	23.	157.	0.	38.	5.	1.	1.	3.	0.	2.	1.	
75	24794.	0.	2718.	36.	124.	2.	17.	2.	0.	0.	3.	4.	3.	2.	
TOTAL	691672.	8779.	6801.	4091.	24985.	119.	3705.	516.	353.	282.	508.	722.	1129.	1095.	

REGION	AHVENAN		DEATHS		MIGRATION FROM AHVENAN TO UUDENMAA		UUDENMAA TURUN AHVENAN		KYHEN MIKKELI POH.KAR KUOPION KESK.SU		VAASSAN		OULUN		LAPPIN		
	AGE POPULATION	BIRTHS															
0	1511.	0.	3.	0.	9.	109.	5.	1.	0.	0.	1.	1.	1.	0.	0.	0.	
5	1708.	0.	0.	0.	7.	50.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
10	1530.	0.	0.	0.	0.	25.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	
15	1526.	22.	1.	5.	6.	85.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	
20	1611.	100.	0.	27.	20.	182.	4.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
25	2067.	111.	2.	22.	16.	131.	3.	1.	0.	0.	0.	0.	0.	0.	0.	0.	
30	1472.	32.	4.	13.	9.	61.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
35	1213.	14.	2.	4.	2.	43.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
40	1148.	4.	6.	4.	1.	19.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
45	1230.	0.	8.	0.	0.	15.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
50	1281.	0.	6.	1.	0.	15.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
55	1269.	0.	20.	1.	0.	22.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
60	1308.	0.	21.	0.	0.	16.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
65	1035.	0.	30.	2.	1.	7.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
70	801.	0.	36.	0.	0.	5.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
75	1106.	0.	116.	0.	1.	5.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
TOTAL	22009.	283.	255.	100.	75.	790.	16.	4.	1.	0.	0.	12.	52.	9.	0.	0.	
REGION		HAMEEN		DEATHS		MIGRATION FROM HAMEEN TO UUDENMAA		UUDENMAA TURUN HAMEEN		KYHEN MIKKELI POH.KAR KUOPION KESK.SU		VAASSAN		OULUN		LAPPIN	
AGE POPULATION	BIRTHS																
0	41448.	0.	117.	598.	429.	0.	2062.	105.	126.	74.	89.	150.	136.	126.	33.	33.	33.
5	48765.	0.	16.	399.	282.	3.	1291.	86.	65.	33.	43.	102.	61.	75.	27.	27.	27.
10	50527.	0.	15.	231.	130.	2.	770.	46.	23.	25.	17.	42.	24.	51.	14.	51.	14.
15	53797.	750.	44.	552.	330.	2.	1653.	79.	79.	70.	58.	106.	83.	129.	27.	27.	27.
20	61539.	3140.	49.	1844.	984.	4.	4277.	201.	190.	127.	181.	311.	219.	257.	135.	135.	135.
25	63183.	3051.	74.	16370.	798.	5.	3390.	251.	183.	130.	145.	263.	229.	245.	93.	93.	93.
30	43028.	1045.	58.	537.	307.	1.	1397.	104.	100.	54.	56.	115.	81.	81.	30.	30.	30.
35	40186.	426.	73.	249.	184.	0.	914.	55.	48.	27.	30.	69.	33.	44.	15.	15.	15.
40	39007.	69.	145.	184.	104.	0.	610.	23.	26.	17.	13.	30.	24.	23.	9.	9.	9.
45	40413.	6.	230.	113.	85.	0.	504.	13.	19.	15.	19.	15.	10.	16.	17.	17.	17.
50	37444.	20.	290.	114.	60.	0.	361.	18.	10.	7.	4.	16.	15.	16.	3.	3.	3.
55	32489.	0.	362.	74.	53.	0.	342.	16.	15.	3.	4.	12.	11.	11.	2.	2.	2.
60	34271.	0.	636.	82.	53.	0.	290.	17.	15.	6.	10.	10.	6.	6.	7.	7.	7.
65	29467.	0.	855.	49.	28.	0.	210.	13.	12.	6.	6.	13.	7.	7.	6.	6.	6.
70	20704.	0.	948.	30.	23.	0.	127.	5.	4.	5.	3.	6.	1.	1.	3.	3.	3.
75	20790.	0.	2296.	34.	11.	0.	86.	11.	6.	2.	3.	6.	6.	6.	2.	2.	2.
TOTAL	657049.	8507.	6208.	6720.	3861.	17.	18484.	1045.	921.	671.	1278.	956.	1100.	414.	414.	414.	

REGION KYMEN		AGE POPULATION		BIRTHS		DEATHS		MIGRATION FROM KYMEN TO UUDENMAA		TURUN AHVENAN HAMEEN		KYmen MIKKELI	Pohj.kar Kuopion Kesk.su	Vaasan	Oulun	Lapin
		0	5	10	15	20	25	30	35	40	45	50	55	60	65	70
0	20644.	67.	316.	63.	1.	142.	1028.	93.	51.	40.	35.	36.	30.	11.	11.	16.
5	25847.	11.	10.	200.	46.	1.	85.	697.	65.	22.	27.	26.	30.	15.	15.	18.
10	28059.	7.	9.	117.	29.	2.	55.	416.	58.	13.	13.	13.	15.	10.	10.	4.
15	29496.	375.	36.	302.	44.	0.	151.	907.	79.	20.	20.	13.	15.	10.	10.	7.
20	30686.	1478.	35.	1018.	123.	1.	302.	2246.	171.	67.	70.	60.	37.	64.	64.	29.
25	30402.	1509.	45.	790.	140.	3.	260.	1655.	166.	63.	77.	92.	43.	75.	75.	21.
30	21826.	533.	42.	291.	70.	0.	118.	742.	64.	42.	39.	31.	19.	38.	38.	11.
35	21118.	180.	49.	127.	35.	0.	63.	472.	44.	184.	21.	14.	13.	15.	15.	14.
40	21302.	46.	74.	88.	18.	0.	41.	283.	30.	9.	6.	8.	2.	5.	5.	1.
45	22133.	3.	150.	78.	15.	1.	47.	227.	23.	7.	7.	3.	1.	3.	3.	8.
50	19882.	0.	165.	55.	12.	1.	24.	193.	14.	6.	7.	1.	2.	5.	5.	2.
55	17563.	0.	229.	24.	9.	0.	20.	135.	17.	3.	2.	1.	4.	2.	2.	0.
60	18629.	0.	376.	41.	5.	0.	12.	149.	14.	7.	7.	2.	2.	1.	1.	1.
65	16085.	0.	530.	18.	4.	0.	10.	91.	9.	1.	1.	1.	1.	2.	2.	0.
70	14004.	0.	564.	18.	3.	0.	4.	49.	5.	1.	3.	0.	0.	1.	1.	0.
75	10909.	0.	1322.	17.	4.	0.	6.	52.	4.	0.	3.	2.	1.	1.	1.	0.
TOTAL	345985.	4124.	3705.	3498.	620.	10.	1340.	9342.	856.	401.	341.	319.	189.	368.	368.	116.
REGION MIKKELI		AGE POPULATION		BIRTHS		DEATHS		MIGRATION FROM MIKKELI TO UUDENMAA		TURUN AHVENAN HAMEEN		KYmen MIKKELI	Pohj.kar Kuopion Kesk.su	Vaasan	Oulun	Lapin
		0	5	10	15	20	25	30	35	40	45	50	55	60	65	70
0	12099.	0.	39.	153.	42.	0.	125.	105.	426.	58.	79.	58.	17.	23.	23.	9.
5	16031.	0.	5.	92.	25.	0.	79.	69.	337.	39.	67.	31.	6.	26.	26.	5.
10	18905.	0.	7.	66.	28.	0.	59.	47.	223.	22.	56.	17.	5.	4.	4.	6.
15	20199.	202.	22.	432.	48.	0.	201.	122.	640.	35.	135.	45.	10.	17.	17.	4.
20	18295.	813.	21.	816.	92.	0.	337.	255.	1092.	85.	251.	153.	19.	69.	69.	21.
25	16177.	866.	17.	483.	72.	1.	223.	184.	731.	81.	158.	107.	23.	60.	60.	23.
30	12048.	330.	20.	124.	39.	0.	87.	73.	336.	47.	70.	47.	5.	24.	24.	5.
35	12656.	134.	28.	72.	21.	0.	61.	54.	226.	60.	17.	4.	11.	6.	6.	6.
40	13023.	55.	45.	47.	11.	0.	46.	29.	156.	10.	39.	9.	5.	3.	3.	1.
45	13565.	2.	46.	49.	4.	0.	19.	31.	124.	14.	35.	10.	11.	6.	6.	6.
50	12524.	0.	129.	27.	7.	0.	16.	14.	111.	8.	22.	9.	1.	3.	3.	0.
55	10780.	0.	151.	28.	2.	0.	14.	18.	95.	7.	16.	14.	0.	2.	2.	0.
60	11417.	0.	234.	21.	5.	0.	14.	10.	107.	10.	15.	5.	8.	3.	3.	3.
65	9963.	0.	334.	15.	4.	0.	11.	9.	80.	5.	15.	6.	2.	1.	1.	1.
70	7151.	0.	401.	6.	2.	0.	13.	5.	35.	1.	8.	5.	0.	1.	1.	0.
75	7367.	0.	952.	6.	2.	0.	13.	4.	36.	2.	7.	3.	1.	2.	2.	0.
TOTAL	212200.	2402.	2439.	404.	1.	1.	1311.	1029.	4757.	444.	1031.	5336.	1011.	255.	69.	69.

REGION	POH.-KAR		DEATHS		MIGRATION FROM UUDENMAA		POH.-KAR AHVENAN HAMEEN		KYMEN MIKKELI		POH.-KAR KUOPION KESK.SU		VAASAN		OULUN		LAPIN	
	AGE POPULATION	BIRTHS																
0	10289.	0.	36.	123.	34.	0.	65.	71.	39.	437.	73.	16.	11.	37.	15.	18.	15.	
5	13467.	0.	8.	81.	42.	0.	45.	45.	40.	297.	36.	7.	4.	18.	4.	6.	5.	
10	17275.	1.	14.	59.	26.	0.	29.	26.	20.	199.	10.	2.	2.	2.	2.	2.	2.	
15	18986.	233.	11.	578.	81.	0.	144.	84.	47.	579.	47.	16.	9.	20.	9.	20.	6.	
20	15969.	708.	17.	856.	106.	1.	247.	146.	91.	1098.	109.	46.	16.	16.	16.	62.	22.	
25	13608.	684.	27.	348.	66.	1.	130.	101.	101.	687.	118.	29.	21.	21.	21.	64.	27.	
30	9704.	322.	17.	115.	27.	0.	45.	37.	37.	296.	49.	21.	13.	13.	13.	23.	16.	
35	10108.	134.	22.	66.	29.	0.	59.	26.	25.	109.	22.	5.	4.	4.	4.	16.	9.	
40	10499.	38.	41.	45.	11.	0.	10.	15.	14.	160.	14.	3.	1.	6.	1.	2.	2.	
45	11276.	2.	64.	28.	6.	0.	21.	20.	1.	114.	7.	3.	3.	4.	4.	4.	1.	
50	10237.	0.	106.	20.	10.	0.	18.	17.	10.	99.	6.	0.	0.	0.	0.	0.	3.	
55	9043.	0.	133.	23.	6.	0.	13.	5.	6.	89.	7.	2.	1.	1.	1.	6.	1.	
60	9627.	0.	201.	21.	5.	0.	9.	13.	4.	116.	12.	2.	1.	1.	1.	4.	0.	
65	7750.	0.	269.	9.	5.	0.	5.	5.	1.	69.	9.	1.	0.	0.	0.	2.	0.	
70	5252.	0.	267.	6.	4.	0.	3.	1.	1.	47.	9.	0.	0.	0.	0.	0.	0.	
75	4980.	0.	612.	10.	6.	0.	3.	1.	5.	34.	2.	1.	0.	0.	0.	4.	0.	
TOTAL	177870.	2122.	1845.	2388.	460.	2.	817.	603.	430.	4530.	532.	156.	89.	276.	117.			
REGION	KUOPION		DEATHS		MIGRATION FROM UUDENMAA		KUOPION TO AHVENAN HAMEEN		KYMEN MIKKELI		POH.-KAR KUOPION KESK.SU		VAASAN		OULUN		LAPIN	
AGE POPULATION	BIRTHS																	
0	15446.	0.	44.	174.	50.	0.	106.	43.	93.	71.	518.	64.	25.	97.	31.			
5	19740.	0.	9.	118.	36.	0.	73.	28.	65.	332.	36.	8.	8.	44.	13.			
10	23734.	0.	6.	62.	13.	0.	39.	33.	33.	206.	17.	11.	11.	36.	9.			
15	24432.	264.	23.	500.	96.	0.	136.	40.	92.	43.	678.	53.	14.	14.	61.	10.		
20	22976.	1078.	29.	894.	154.	2.	217.	98.	228.	134.	1409.	138.	48.	48.	125.	21.		
25	20706.	1045.	31.	502.	93.	1.	170.	86.	153.	129.	855.	121.	44.	44.	142.	56.		
30	14453.	422.	25.	152.	49.	0.	57.	39.	74.	46.	381.	62.	17.	17.	62.	22.		
35	14826.	177.	49.	62.	24.	0.	43.	19.	39.	33.	238.	16.	9.	9.	25.	10.		
40	15133.	39.	58.	38.	14.	0.	21.	11.	21.	19.	146.	9.	2.	2.	19.	6.		
45	16144.	3.	96.	50.	6.	0.	16.	11.	35.	11.	137.	12.	3.	3.	3.	3.		
50	14375.	0.	143.	36.	14.	0.	13.	9.	13.	9.	116.	11.	3.	3.	14.	8.		
55	12211.	0.	159.	20.	5.	0.	10.	8.	8.	2.	113.	7.	1.	1.	4.	0.		
60	12626.	0.	287.	16.	7.	0.	9.	3.	8.	11.	99.	6.	2.	2.	11.	3.		
65	10637.	0.	311.	13.	6.	0.	11.	6.	5.	5.	77.	2.	2.	2.	4.	1.		
70	7412.	0.	390.	12.	3.	0.	5.	5.	5.	4.	54.	2.	1.	1.	3.	1.		
75	7827.	0.	923.	6.	1.	0.	6.	6.	6.	45.	45.	4.	1.	1.	2.	2.		
TOTAL	251320.	3028.	2583.	2657.	573.	3.	932.	430.	894.	5604.	5604.	560.	102.	656.	198.			

REGION	KESK. SU		DEATHS		MIGRATION FROM UUDENMAA		MIGRATION FROM TURUN AHVENAN HAMEEN		KYMEN MIKKELI POH. KAR KUOPION KESK. SU		VAASAN		OULUN		LAPIN		
	AGE POPULATION	BIRTHS															
9	14843.	9.	42.	181.	94.	0.	167.	23.	64.	21.	39.	884.	47.	52.	18.		
5	18419.	0.	11.	116.	49.	0.	115.	17.	22.	16.	34.	520.	26.	31.	18.		
10	21230.	0.	8.	74.	32.	0.	67.	10.	24.	3.	15.	273.	16.	15.	13.		
15	22209.	257.	19.	328.	110.	2.	193.	20.	45.	9.	29.	72.	45.	34.	6.		
20	21505.	1048.	22.	745.	262.	2.	441.	68.	117.	28.	106.	169.	118.	61.	34.		
25	20609.	1099.	15.	463.	152.	0.	278.	66.	123.	49.	101.	1289.	93.	107.	48.		
30	14631.	437.	25.	152.	76.	0.	113.	29.	31.	19.	52.	525.	44.	44.	19.		
35	14412.	183.	33.	87.	33.	0.	84.	16.	26.	3.	24.	310.	19.	19.	10.		
40	14366.	44.	40.	43.	29.	0.	38.	13.	10.	2.	7.	190.	9.	12.	5.		
45	15050.	5.	41.	40.	17.	0.	27.	6.	5.	5.	10.	150.	7.	6.	2.		
50	13945.	0.	118.	19.	9.	0.	28.	5.	5.	2.	4.	136.	7.	7.	5.		
55	11814.	0.	163.	20.	6.	0.	19.	5.	10.	0.	2.	88.	1.	5.	1.		
60	12124.	0.	258.	19.	5.	0.	29.	2.	7.	6.	10.	70.	7.	3.	1.		
65	10060.	367.	11.	6.	0.	0.	14.	2.	6.	1.	2.	79.	4.	5.	1.		
70	6958.	0.	373.	11.	1.	0.	18.	0.	4.	1.	2.	40.	1.	1.	0.		
75	6639.	0.	807.	3.	2.	0.	3.	2.	4.	0.	0.	33.	1.	2.	0.		
TOTAL	238814.	3073.	2322.	2312.	885.	4.	1626.	282.	503.	160.	453.	7015.	445.	422.	179.		
REGION	VAASAN		DEATHS		MIGRATION FROM UUDENMAA		MIGRATION FROM TURUN AHVENAN HAMEEN		KYMEN MIKKELI POH. KAR KUOPION KESK. SU		VAASAN		OULUN		LAPIN		
REGION	VAASAN	AGE POPULATION	BIRTHS														
0	28890.	9.	90.	189.	234.	9.	166.	28.	30.	10.	27.	71.	1570.	124.	29.		
5	33898.	0.	11.	116.	142.	2.	67.	11.	19.	10.	15.	36.	736.	67.	16.		
10	35720.	1.	63.	69.	5.	54.	6.	6.	1.	1.	10.	12.	379.	27.	11.		
15	37525.	548.	32.	274.	216.	24.	185.	11.	11.	7.	9.	36.	1252.	50.	26.		
20	37210.	2021.	30.	856.	512.	44.	384.	44.	23.	15.	50.	144.	3158.	239.	46.		
25	34563.	2072.	31.	495.	384.	27.	262.	54.	43.	25.	49.	145.	2132.	200.	56.		
30	24649.	775.	40.	152.	108.	5.	113.	22.	29.	16.	25.	36.	794.	76.	23.		
35	24314.	357.	47.	88.	69.	2.	59.	9.	13.	2.	6.	22.	425.	40.	13.		
40	24198.	99.	68.	45.	57.	3.	41.	6.	5.	2.	1.	11.	258.	16.	8.		
45	26794.	11.	139.	27.	21.	2.	22.	6.	2.	2.	1.	3.	188.	6.	7.		
50	25662.	0.	174.	29.	21.	3.	27.	2.	3.	0.	0.	3.	15.	163.	7.	2.	
55	22330.	0.	252.	13.	6.	1.	17.	4.	0.	0.	1.	0.	140.	5.	6.		
60	22210.	0.	375.	22.	10.	1.	21.	2.	1.	3.	3.	6.	147.	6.	2.		
65	18237.	0.	516.	13.	10.	0.	17.	3.	0.	5.	10.	98.	2.	1.			
70	13308.	0.	623.	9.	4.	0.	5.	1.	0.	0.	4.	64.	2.	3.			
75	14235.	0.	1645.	9.	2.	0.	7.	0.	0.	2.	0.	56.	2.	2.			
TOTAL	423043.	5884.	4082.	2402.	1873.	126.	1447.	210.	106.	95.	207.	561.	11362.	871.	249.		

