

ESTIMATES OF NET INTERNAL MIGRATION FOR KOREA 1970-75

Tai Hwan Kwon

This is to present the estimates of net migration in Korea during the five-year intercensal period 1970-75. In estimating the volumes and rates of net migration, we have adopted the forward census survival ratio method for all, urban and rural areas of each province and each administratively defined city, by five-year age group and sex. Procedures and major assumptions involved in the calculation are described below. Similar estimates for the quinquennial periods during 1955-70 were published in *Bulletin of the Population and Development Studies Center*, Vol. IV (Kwon, 1975). The set of estimates presenting here is a 1970-75 counterpart of the previous set of estimates for 1955-70. Since the two sets of estimates are based on almost identical procedures and assumptions, hence present discussions are limited to those particularly relevant to the current estimates.

ARRANGEMENT OF DATA

In order to obtain comparability in the population figures between the censuses of 1970 and 1975, adjustment for the changes in boundary and status of the unit areas is required. During the intercensal period 1970-75, the number of cities increased from 32 to 35, and 14 out of 32 cities at the 1970 census were experienced boundary adjustment. The extensiveness of boundary and status changes during the period in all, urban and rural areas of each province, is shown in the following table.

**Percentage Gain or Loss Resulting from Boundary and Status Changes During 1970-75
by Province and by Urban and Rural Areas, 1970**

	Seoul	Busan	Gyeong- gi	Gang- won	Chung- bug	Chung- nam	Jeon- bug	Jeon- nam	Gyeong- bug	Gyeong- nam	Jeju	Total
All	0.24	—	-0.40	—	—	—	—	—	—	—	—	—
Urban	0.24	—	20.40	2.90	—	—	5.91	0.39	0.24	10.23	—	2.42
Rural	—	—	-8.12	-0.75	—	—	-2.81	-0.13	-0.11	-2.82	—	-1.69

*Calculated as $\left(\frac{1970 \text{ population within the 1975 census boundary}}{1970 \text{ population within the 1970 census boundary}} - 1 \right) \times 100$

In the estimation, the 1970 census data in the areas subject to boundary and status change were brought to the 1975 census boundary or status. Information on age-sex structure by quinquennial age group is available from the 1970 census report up to *Myun* level, the smallest official administrative unit. Accordingly, the estimates of population structures as well as population totals in both 1970 and 1975 were necessary for those areas which had constituted part of a *Myun* and later transferred to a newly adjusted city area. For this, it was assumed that the population of the *Myun* at the 1970 census was evenly distributed and that its age-sex structure was identical between the remaining areas in the *Myun* and the areas transferred to the city.

METHOD OF ESTIMATION

The volumes and rates of net migration were calculated by adopting the forward census survival ratio method developed by Everett Lee, except for the age group 0-4 (Lee, 1960). The net numbers of migrants in this childhood ages were obtained using the male and female child-women ratios weighted for the entire nation in consideration of the fertility patterns by age for the same intercensal period 1970-75. Since the proportion of births borne to women at ages 15-19 and above 45 was negligible, the women at these ages were excluded in calculating the child-women ratios. The following weights were assigned to each five-year age group of women between ages 20 and 44.¹

age group	weight
20-24	2
25-29	6
30-34	3
35-39	2
40-44	1

QUALITY OF THE ESTIMATES

Among various sources of errors in the estimates of net migration during 1970-75, the most important are regarded to be the assumption of closed population and the assumption of equal mortality among the units of observation.²

Previously during 1955-70, movement of Koreans beyond the national territory was very limited, and the nation can be reasonably assumed to have been closed against international migration. However, the volume of international migration of Koreans has increased significantly since 1970. During the intercensal years 1970-75, about 0.5 per cent of the total population was reported to have moved to elsewhere out of Korea. This suggest [that [inter-national migration would be a factor to be considered in estimating internal migration figures based on census survival ratio method. Here, if we can assume there have been no differential rates of international migration among the units of observation by age and sex, the estimates would not be affected by international migration at all. No direct information on the pattern of international migration is available. However, it is certain that the emigrants were heavily originated from urban areas, particularly from large metropolitan centers, and this should have affected the estimates. The maximum error in this regard is expected to be less than one per cent point of the rate of net migration calculated here. However, it may exceed one per cent in a particular age-sex group.

Research findings persistently suggest an inverse relationship between [the degree of urbanity and the level of mortality throughout the 1960s in Korea. Accordingly, we expect some errors in the current estimates due to the assumption of equal mortality among the observation units. Concerning the extensiveness of errors, we may have a clear insight from the comparison of two sets of migration estimates between urban and rural areas for 1965-70. The two used the same data, census populations, but they differ in the method and assumptions of estimation. One was based on the almost identical assumptions and methods with those adopted for the current estimates (Kwon, 1975). The other employed the life table survival ratio method and differing mortality rates (survival ratios) for urban and

1. For the concept and the method of calculation, see Kwon, 1975, p.57.

2. For the major assumptions involved, see Zachariah, 1962, and for the discussions concerning the validity of the assumptions for Korea, see Kwon, 1975.

rural areas respectively (Park, 1978). The difference between the two sets of the estimated net migration rates is mostly in a range of 0.5 per cent point and does not exceed 0.7 per cent point. If we divide the area of observation into a smaller unit, for example cities, the difference will certainly increase. However, it appears to be very unlikely to exceed one per cent point for any age-sex group in any observation unit adopted for the current estimates. We also have good grounds to believe that the situation has little changed between the periods 1965-70 and 1970-75.

From the above discussions, it is clear that the current estimates are subject to two major sources of errors; that is differential international migration rates and differential mortality among unit areas. Logically, however, these two sources can be combined into one forming a new category called 'differential rates of exit'. If we adopt this new concept, the assumptions of closed population and equal mortality, inherent in the census survival ratio method, can be transformed into a new assumption of equal rates of exit (by age group and sex for all units of observation). So it seems more useful to evaluate a set of the estimates for a particular area in terms of the rate of total exit (excluding those caused by internal migration) in the area rather than by examining the two components of the exit separately.

As mentioned above, the rate of net emigration has been much higher in urban areas than in rural areas and closely associated with the degree of urbanity of an area since 1970. On the other hand, the level of mortality is known to have been lower in urban areas than in rural areas and inversely related to the level of urbanity of an area during the period of estimation 1970-75. It appears almost certain that the two components caused biases in the rate of exit in the reverse direction in most unit areas, and the absolute degree of bias would be fairly similar between the two components in each unit area. As a result, the combined errors in the current estimates are expected to be much smaller than those from either of the major sources. We can also conclude from the above observation that though the assumption of closed population and that of equal mortality are both unrealistic, the assumption of equal rates of exit among unit areas still holds for the intercensal period 1970-75, and thus that the adoption of the census survival ratio method can be fairly justified.

References

- (1) Kwon, Tai Hwan, "Estimates of Net Internal Migration for Korea 1955-70", *Bulletin of the Population and Development Studies Center*, Vol. IV, 1975, pp. 54-59.
- (2) Lee, E.S. and A.S. Lee, "Internal Migration Statistics for the United States", *Journal of the American Statistical Association*, Vol. 55, 1960.
- (3) Park, Sang Tae, *Urbanization and Fertility in Korea*, Population and Development Studies Center, Seoul National University, Seoul, 1978, pp. 53-61 & 212-213.
- (4) Zachariah, K.C., "A Note on the Census Survival Ratio Method of Estimating Net Migration", *Journal of the American Statistical Association*, Vol. 57, 1962.

Table I. Estimates of Net Internal Migration for Each Province, by Age Group and Sex, 1970-75

WHOLE AREA	NUMBERS											
	SEOUL	BUSAN	GYEONG GI	GANG WON	CHUNG BUG	CHUNG NAM	JEON BUG	JEON NAM	GYEONG BUG	GYEONG NAM	JEJU	WHOLE COUNTRY
MALE												
0-4	12009	12219	15027	-4872	-940	-4544	-6837	-13902	-5576	-2928	344	0
5-9	27439	15485	15999	-14532	-5556	-6842	-11661	-11739	-4340	-3861	-314	0
10-14	15233	19589	7410	-16329	-738	-9914	-13147	-19404	-3755	-10094	687	0
15-19	13331	4386	2332	-18774	-16285	-30356	-31204	-58778	-16292	-28394	-255	0
20-24	17535	9148	21938	-10362	406	-1706	-9624	-20868	-8045	-2435	-860	0
25-29	3578	2619	26010	-2211	-5668	-14452	-14602	-30837	-11599	-8510	-50	0
30-34	7181	19694	19694	-2319	-5868	-5815	-5929	-14139	-2931	-2682	-85	0
35-39	2173	5717	11214	-6587	-519	-1982	-2613	-7547	513	-372	57	0
40-44	5712	4324	4457	-2632	-301	-1199	-1974	-4427	608	-962	85	0
45-49	4206	2054	3790	-3936	-79	-552	-1506	-3548	253	-779	86	0
50-54	2847	916	5105	-2879	-100	-596	-1653	-3064	53	-506	-33	0
55-59	1428	11	4478	-1490	267	-440	-1361	-2275	444	-1074	112	0
60-64	512	69	2933	-1366	-244	-506	-1111	-1044	294	-889	114	0
TOTAL	308472	153492	164888	-96115	-38834	-79587	-104987	-194716	-51154	-61536	194	0
FEMALE												
0-4	11178	11374	13687	-4534	-875	-4230	-6364	-12940	-5190	-2725	320	0
5-9	21506	13553	15938	-13261	-4304	-6154	-10039	-11178	-3278	-2490	-295	0
10-14	15731	19084	10190	-1654	-794	-10806	-12980	-21446	-3801	-9208	489	0
15-19	4673	5388	3034	-2621	-2066	-39630	-38243	-73024	-19208	-23019	-1533	0
20-24	11728	2803	3372	-895	-3818	-12971	-17901	-40490	-14187	-9496	-682	0
25-29	1857	1857	1768	-1768	-298	-6206	-11038	-19106	-11249	-4866	848	0
30-34	2375	6700	9724	-6523	-591	-2417	-2483	-7138	-969	565	257	0
35-39	10660	6033	4742	-7464	-1161	-1946	-2658	-6222	-105	-2198	329	0
40-44	9735	4697	4626	-5696	-1360	-2127	-2797	-4631	-1081	-1668	303	0
45-49	8191	3408	5755	-3366	-627	-1447	-3245	-5452	-1364	-1851	-8	0
50-54	6693	2999	5214	-2931	-1008	-2188	-2885	-4328	-1047	-1505	116	0
55-59	6390	2374	4614	-188	-913	-1811	-2103	-4143	-967	-1791	231	0
60-64	6470	234	2538	-144	-1031	-1754	-2073	-2800	-1549	-1409	309	0
TOTAL	364132	177151	170414	-102950	-45654	-95531	-118181	-218546	-66393	-65665	1227	0
BOTH SEXES												
0-4	23187	23593	29015	-9406	-1816	-8774	-13201	-26842	-10765	-5653	664	0
5-9	48945	28960	31938	-2779	-9860	-12996	-21700	-22917	-7618	-6352	-609	0
10-14	105304	38674	17600	-32877	-15323	-20721	-26126	-40849	-7555	-19303	-1176	0
15-19	29045	9774	5366	-4458	-3694	-69986	-69447	-131802	-35501	-51413	-1788	0
20-24	64277	21187	55660	-19316	-3411	-14677	-7525	-61358	-22232	-7060	-1542	0
25-29	47456	44765	49392	-3980	-5966	-20658	-25640	-49942	-22848	-13376	798	0
30-34	10056	19594	2941	-12391	-2910	-8232	-8412	-21277	-3900	-2117	172	0
35-39	12783	11739	15955	-14051	-1681	-3928	-5271	-13769	408	-2570	386	0
40-44	15447	9021	9082	-12019	-1661	-3326	-4771	-9059	-473	-2631	387	0
45-49	12397	5472	9545	-7296	-706	-1999	-4751	-8999	-1110	-2630	78	0
50-54	10499	3825	10319	-5810	-1108	-2784	-4537	-7392	-1084	-2011	83	0
55-59	7718	2384	9093	-3371	-646	-2251	-3464	-6419	-523	-2866	343	0
60-64	8222	2412	5870	-2811	-1275	-2260	-3184	-3845	-1255	-2298	423	0
TOTAL	672604	330643	335302	-199065	-84488	-175118	-223168	-413263	-117547	-127201	1310	0

- indicates net loss.

Table I (Continued)

WHOLE AREA											PER CENT RATES	
	SEOUL	BUSAN	GYEONG GI	GANG WON	CHUNG BUG	CHUNG NAM	JEON BUG	JEON NAM	GYEONG BUG	GYEONG NAM	JEJU	WHOLE COUNTRY
MALE												
0-4	2.8	7.6	5.9	-3.9	-1.0	-2.5	-4.2	-5.4	-1.9	-1.4	1.1	0.0
5-9	7.0	10.4	6.4	-10.6	-5.2	-3.4	-6.5	-3.8	-1.3	-1.7	-1.0	0.0
10-14	14.2	14.2	22.9	-12.4	-6.3	-4.4	-7.1	-6.3	-1.1	-4.4	-2.4	0.0
15-19	20.5	27.4	9.4	-16.8	-17.3	-16.9	-22.0	-26.0	-5.4	-15.0	-1.2	0.0
20-24	5.0	7.4	12.1	-13.4	0.6	-1.3	-9.2	-9.2	-12.5	-3.5	-5.6	0.0
25-29	11.2	23.6	17.1	-4.0	-13.3	-15.4	-18.4	-24.8	-6.9	-7.5	-0.4	0.0
30-34	3.5	13.0	13.8	-9.6	-5.6	-7.3	-9.4	-13.2	-2.1	-2.8	-0.6	0.0
35-39	0.8	6.6	8.2	-10.2	-1.1	-2.3	-3.9	-6.5	0.3	-0.4	0.5	0.0
40-44	3.2	6.9	4.2	-13.3	-0.8	-1.5	-3.3	-4.4	0.5	-1.2	0.9	0.0
45-49	3.4	4.7	5.3	-11.8	-0.3	-0.9	-3.1	-4.5	0.3	-1.2	1.5	0.0
50-54	3.9	2.6	7.5	-8.9	-0.4	-1.1	-3.8	-4.4	-0.0	-0.9	0.7	0.0
55-59	3.9	0.0	7.9	-5.4	1.1	-1.0	-3.8	-4.4	0.6	-2.4	3.1	0.0
60-64	3.9	0.5	6.8	-6.6	-1.2	-1.5	-4.3	-2.7	0.5	-2.5	0.8	0.0
65+	10.6	6.8	6.7	-2.1	-0.4	-1.4	-4.6	-4.8	-0.9	-5.5	0.0	0.0
TOTAL	9.0	12.6	8.1	-10.1	-5.0	-5.3	-8.5	-9.6	-2.1	-3.7	0.0	0.0
FEMALE												
0-4	2.9	7.6	5.9	-3.9	-1.0	-2.5	-4.1	-5.3	-1.9	-1.4	1.1	0.0
5-9	9.9	9.9	6.8	-10.3	-4.3	-3.2	-5.9	-3.9	-1.1	-1.2	-1.0	0.0
10-14	14.8	14.8	4.1	-17.5	-7.5	-5.3	-7.6	-7.6	-6.9	-4.3	-7.8	0.0
15-19	33.2	22.5	12.2	-27.5	-25.5	-25.2	-30.0	-37.6	-6.9	-12.3	-1.1	0.0
20-24	11.7	20.0	18.2	-13.3	-7.0	-12.4	-21.3	-32.0	-6.9	-7.2	-4.9	0.0
25-29	5.5	16.1	15.3	-3.3	-0.8	-7.4	-15.5	-16.8	-7.1	-4.7	6.4	0.0
30-34	1.1	7.4	7.1	-11.2	-1.4	-3.0	-3.9	-6.7	-0.7	0.6	2.1	0.0
35-39	4.6	7.7	3.7	-12.7	-2.5	-2.2	-3.8	-5.3	0.1	-2.3	0.6	0.0
40-44	5.6	7.6	4.5	-12.2	-3.3	-2.6	-4.2	-4.3	-0.8	-1.9	0.7	0.0
45-49	6.3	7.0	6.9	-8.5	-1.8	-1.8	-5.7	-6.0	-0.8	-2.4	0.1	0.0
50-54	7.6	7.8	7.3	-8.8	-3.3	-3.8	-6.1	-5.7	-1.1	-2.3	1.5	0.0
55-59	8.4	9.8	8.0	-6.8	-3.6	-3.8	-5.2	-7.1	-1.3	-3.7	3.8	0.0
60-64	10.5	11.8	6.3	-6.6	-4.9	-4.8	-6.7	-5.7	-2.4	-3.3	3.1	0.0
65+	11.1	12.7	6.6	-6.8	-2.8	-2.5	-5.2	-5.1	-2.1	-4.7	3.5	0.0
TOTAL	10.5	14.4	8.5	-11.4	-6.1	-6.6	-9.7	-11.1	-2.8	-4.0	0.6	0.0
BOTH SEXES												
0-4	2.8	7.6	5.9	-3.9	-1.0	-2.5	-4.2	-5.3	-1.9	-1.4	1.1	0.0
5-9	6.5	10.4	6.6	-10.5	-4.8	-3.3	-6.2	-3.9	-1.2	-1.5	-1.0	0.0
10-14	14.2	14.5	3.5	-12.4	-6.9	-4.4	-7.3	-6.9	-1.1	-4.4	-2.4	0.0
15-19	31.4	30.0	10.9	-21.1	-21.1	-20.8	-25.8	-31.3	-6.1	-13.5	-1.2	0.0
20-24	8.6	14.1	14.1	-13.4	-2.7	-6.1	-14.6	-11.1	-5.1	-2.8	-4.3	0.0
25-29	7.3	10.8	16.2	-3.6	-7.4	-11.1	-17.1	-21.0	-7.0	-6.2	-0.7	0.0
30-34	1.8	10.4	10.5	-10.4	-3.5	-5.2	-6.6	-6.9	-1.4	-1.1	0.9	0.0
35-39	2.7	7.1	6.0	-11.4	-1.8	-2.2	-3.8	-5.9	0.1	-1.1	1.5	0.0
40-44	4.4	7.3	4.4	-12.8	-2.1	-2.1	-3.8	-4.4	-0.2	-1.3	0.0	0.0
45-49	4.9	7.4	6.1	-10.0	-1.1	-1.5	-4.5	-5.3	0.6	-1.1	0.5	0.0
50-54	5.2	5.3	7.4	-8.9	-1.1	-1.9	-5.0	-5.1	-0.6	-1.1	0.7	0.0
55-59	5.3	5.1	8.0	-6.1	-1.3	-1.3	-4.6	-5.8	-0.4	-1.1	0.6	0.0
60-64	7.7	10.0	6.5	-6.6	-3.1	-3.1	-5.6	-4.4	-1.1	-1.1	0.6	0.0
65+	10.9	10.8	6.7	-4.7	-1.8	-1.8	-5.0	-5.0	-1.1	-1.1	0.6	0.0
TOTAL	9.8	13.5	8.3	-10.7	-5.6	-5.9	-9.1	-10.4	-2.4	-3.9	0.3	0.0

"-" INDICATES NET LOSS.

Table I (Continued)

URBAN AREA

	SEOUL	BUSAN	GYEONG GI	GANG WON	CHUNG BUG	CHUNG NAM	JEON BUG	JEON NAM	GYEONG BUG	GYEONG NAM	JEJU	NUMBERS WHOLE COUNTRY
MALE												
0- 4	12009	12219	14698	-1074	1396	511	697	-1112	2254	6985	655	49238
5- 9	27439	15405	21841	-730	2484	3641	2990	7266	7306	8794	769	97205
10-14	52339	19589	21169	1148	4143	6001	5717	11188	17736	8665	1077	148771
15-19	133147	43863	37718	1313	5668	11374	8316	21101	38512	16649	1809	319470
20-24	17539	9148	15654	-4568	-1564	-7091	-7091	-19386	-10781	3307	-882	-1232
25-29	35728	26191	24419	-926	1308	341	436	-3961	8806	16014	780	109136
30-34	7181	12894	17038	-901	1662	602	1680	920	4352	8174	485	54086
35-39	2123	5717	11143	-756	1342	599	1087	355	2811	4122	336	28878
40-44	2712	7038	7038	-698	861	458	641	264	2291	1609	155	22656
45-49	4206	2064	4336	-314	308	158	118	-489	879	926	124	12116
50-54	2847	916	4435	-293	209	-65	-157	-898	423	490	55	7961
55-59	1328	11	3243	11	132	-6	-157	-422	145	211	34	4530
60-64	753	69	2227	-9	152	-25	-113	-191	20	174	54	4112
65+	5122	1082	2678	-221	420	358	183	189	824	-100	160	11437
TOTAL	308472	153492	187937	-7777	18522	21341	14346	14821	75578	76021	5611	868364
FEMALE												
0- 4	11178	11374	13680	-1000	1299	475	649	-1035	2098	6502	610	45829
5- 9	21506	13555	20319	-656	2243	3023	2443	6097	6552	8088	497	83668
10-14	52965	19085	20715	689	3097	4901	4627	9438	14130	7848	880	138376
15-19	157311	53884	51208	691	6071	13665	6940	13436	33337	27035	1311	364887
20-24	46738	28039	29414	-3852	1555	548	-1690	-9448	4342	14143	483	110271
25-29	11728	18573	19538	-1021	1980	450	1258	-1254	1663	11456	1125	65496
30-34	2875	6700	11658	-807	1208	284	900	32	1633	4506	563	29912
35-39	10660	4697	9308	-330	1246	1098	1108	1138	3980	2251	394	36677
40-44	9735	4697	6501	-214	796	838	771	670	2506	1622	293	28614
45-49	8151	3408	6014	-148	405	325	95	-399	1432	1188	153	20864
50-54	7653	2909	5252	-24	229	271	124	-238	1110	967	152	18428
55-59	6290	2374	4344	-23	321	473	218	-2	1164	809	138	15905
60-64	8470	2342	3609	103	321	473	235	603	1011	739	98	16004
65+	10732	4188	1106	-365	1132	1154	921	1521	2429	1239	413	30201
TOTAL	364132	177151	208066	-6426	21868	27934	18600	20919	77386	88394	7108	1005132
BOTH SEXES												
0- 4	23187	23593	28378	-2073	2695	986	1345	-2148	4351	13487	1265	95067
5- 9	48945	28960	42161	-1386	4727	3864	5434	13363	13858	16882	1265	180873
10-14	105304	38674	41884	1837	7302	6664	10344	20626	31866	16514	1957	287147
15-19	290458	97747	88926	2004	11740	10902	15256	34537	71849	43684	3120	684358
20-24	64277	37187	45068	-420	-9	25039	15256	-28834	-6439	17449	-399	109040
25-29	47456	44765	43956	-1947	3288	791	-8781	-28834	10469	27471	1905	174632
30-34	10056	19594	28696	-1709	2870	886	1693	-5215	5984	12680	1048	83998
35-39	12783	11739	20452	-1286	2589	1312	2580	1312	5984	6374	730	65555
40-44	15447	9021	13939	-912	1696	1296	2195	1493	6791	6374	448	51270
45-49	12397	5472	10351	-665	1412	461	412	-334	4797	3231	277	32980
50-54	10499	3825	9687	-317	712	683	213	-888	2312	2114	207	26389
55-59	7718	2384	7586	-112	461	206	-33	-1136	1533	1457	172	20435
60-64	8222	2412	5837	94	473	222	123	-424	1309	1020	152	20116
65+	15854	5271	9083	586	1551	1513	1104	1710	1031	913	573	41637
TOTAL	672604	330643	396003	-14204	40390	49275	32947	35740	152964	164415	12719	1873493

"-" INDICATES NET LOSS.

Table I (Continued)

URBAN AREA	SECUL	USAN	GYEONG GI	GANG WCK	CHUNG BUG	CHUNG NAM	JEON BUG	JEON NAM	GYEONG BUG	GYEONG NAM	JEJU	WHOLE COUNTRY
MALE												
TOTAL	1,019,000	1,206,000	1,330,000	1,347,000	1,294,000	1,711,000	1,459,000	1,208,000	1,088,000	1,151,000	1,184,000	1,044,000
+	1,019,000	1,206,000	1,330,000	1,347,000	1,294,000	1,711,000	1,459,000	1,208,000	1,088,000	1,151,000	1,184,000	1,044,000
-												
FEMALE												
TOTAL	1,100,000	1,440,000	1,550,000	1,300,000	1,660,000	1,200,000	1,040,000	1,080,000	1,100,000	1,140,000	1,100,000	1,200,000
+	1,100,000	1,440,000	1,550,000	1,300,000	1,660,000	1,200,000	1,040,000	1,080,000	1,100,000	1,140,000	1,100,000	1,200,000
-												
BOTH SEX												
TOTAL	2,119,000	2,646,000	2,880,000	2,647,000	2,954,000	2,911,000	2,499,000	2,288,000	2,188,000	2,291,000	2,284,000	2,244,000
+	2,119,000	2,646,000	2,880,000	2,647,000	2,954,000	2,911,000	2,499,000	2,288,000	2,188,000	2,291,000	2,284,000	2,244,000
-												

"-" INDICATES NET LOSS.

Table I (Continued)

RURAL AREA	RURAL AREA											NUMBERS WHOLE COUNTRY
	SEQU	BUSAN	GYEONG GI	GANG WON	CHUNG BUG	CHUNG NAM	JEON BUG	JEON NAM	GYEONG BUG	GYEONG NAM	JEJU	
	MALE											
0- 4	0	0	330	-3758	-2336	-5055	-7534	-12790	-7829	-9913	-311	-49238
5- 9	0	0	-5842	-13800	-8039	-10483	-14651	-19004	-11646	-12656	-1083	-97205
10-14	0	0	-13759	-17477	-11525	-15915	-18863	-30591	-21490	-18760	-391	-148771
15-19	0	0	-14390	-20087	-21954	-41730	-39519	-79879	-54804	-45074	-2064	-319470
20-24	0	0	6283	-5794	1971	900	-2532	-1481	2786	-872	22	1232
25-29	0	0	1591	-1285	-6977	-14793	-15037	-26875	-20404	-24525	-820	-109136
30-34	0	0	2656	-4967	-3980	-6417	-7609	-15059	-72883	-10856	-570	-54086
35-39	0	0	70	-5831	-1862	-2581	-3700	-7903	-44994	-44994	-279	-28878
40-44	0	0	-2582	-5624	-1162	-1657	-2615	-4691	-22298	-2577	-71	-22656
45-49	0	0	-547	-3422	-386	-710	-1623	-3059	-1684	-1705	-38	-12116
50-54	0	0	670	-2587	-309	-531	-1496	-2166	-4626	-905	-88	-7961
55-59	0	0	1236	-1501	134	-433	-1204	-1853	-260	-128	78	-4530
60-64	0	0	706	-1360	-396	-481	-998	-833	278	-106	60	-4112
65+	0	0	528	-806	-533	-1040	-1950	-3334	-1516	-282	35	-11437
TOTAL	0	0	-23049	-88338	-57356	-100928	-119333	-209538	-126732	-137557	-5528	-868364
	FEMALE											
0- 4	0	0	307	-3535	-2174	-4705	-7013	-11904	-7287	-9227	-290	-45829
5- 9	0	0	-4381	-12605	-6548	-9177	-12482	-17276	-9829	-10579	-791	-83668
10-14	0	0	-10525	-17237	-11037	-15708	-17607	-30884	-17931	-17057	-391	-138376
15-19	0	0	-20868	-26906	-26733	-53295	-45183	-86460	-52545	-50054	-2844	-364887
20-24	0	0	4308	-5102	-5373	-13519	-16211	-31043	-18529	-23638	-1165	-110271
25-29	0	0	3845	-747	-2277	-6656	-12296	-17822	-12912	-23322	-277	-65496
30-34	0	0	-1934	-5716	-1799	-2701	-3383	-7530	-2601	-3941	-305	-29912
35-39	0	0	-4567	-6933	-2407	-3043	-3766	-7360	-4095	-4444	-60	-36614
40-44	0	0	-2275	-5482	-2155	-2965	-3568	-5301	-3586	-3390	10	-28614
45-49	0	0	-259	-3212	-1032	-1971	-3341	-5052	-2796	-3039	-161	-20864
50-54	0	0	-38	-2907	-1260	-2459	-3009	-4089	-2217	-2472	-36	-18428
55-59	0	0	271	-1858	-1178	-2040	-2321	-4142	-2131	-2601	99	-15905
60-64	0	0	672	-1545	-1351	-2227	-2309	-3403	-2560	-2248	210	-16004
65+	0	0	864	-2739	-2197	-3000	-4294	-7169	-4828	-5241	131	-30201
TOTAL	0	0	-37652	-96524	-67522	-123465	-136781	-239465	-143779	-154058	-5881	-1005132
	BOTH SEXES											
0- 4	0	0	637	-7333	-4510	-9760	-14547	-24694	-15116	-19141	-601	-95067
5- 9	0	0	-10223	-26405	-14587	-19660	-27133	-46290	-21476	-23234	-1874	-180873
10-14	0	0	-24284	-34714	-22562	-31623	-36470	-61475	-39421	-35816	-781	-287147
15-19	0	0	-35257	-46992	-48687	-95025	-84703	-166339	-107349	-95097	-4908	-343358
20-24	0	0	10592	-10896	-3402	-12619	-18743	-32524	-15793	-24510	-1143	-109040
25-29	0	0	5436	-2032	-9254	-21449	-27333	-44757	-33317	-40847	-1106	-146632
30-34	0	0	722	-10683	-5779	-9118	-10992	-22589	-9884	-14797	-875	-83998
35-39	0	0	-4497	-12764	-4269	-5524	-7467	-15262	-6383	-8943	-344	-55555
40-44	0	0	-4857	-11106	-3318	-4622	-6183	-9992	-5270	-5861	-201	-51270
45-49	0	0	-806	-6633	-1418	-2682	-4964	-8111	-3422	-4744	-60	-32980
50-54	0	0	632	-5494	-1569	-2990	-4505	-6255	-2617	-3468	-124	-32389
55-59	0	0	1507	-3359	-1043	-2473	-3525	-5995	-1833	-3888	172	-26485
60-64	0	0	34	-2905	-1748	-2708	-3307	-4256	-2286	-3211	270	-20116
65+	0	0	336	-3545	-2730	-4040	-6244	-10502	-6343	-8051	165	-16379
TOTAL	0	0	-60701	-184861	-124878	-224392	-256114	-449003	-270511	-291616	-11409	-1873493

"-" INDICATES NET LOSS.

Table I (Continued)

RURAL AREA											PER CENT RATES	
SEQU	BUSAN	GYEONG GI	GANG WON	CHUNG BUG	CHUNG NAM	JEON BUG	JEON NAM	GYEONG BUG	GYEONG NAM	JEJU	WHOLE CCUNTRY	
MALE												
0-4	0.0	0.0	0.2	3.8	3.2	3.5	6.1	6.8	4.2	7.5	6.6	
5-9	0.0	0.0	3.8	2.3	2.2	4.5	6.8	5.4	5.5	8.5	5.0	
10-14	0.0	0.0	3.8	2.3	2.2	4.5	6.8	5.4	5.5	8.5	5.0	
15-19	0.0	0.0	3.8	2.3	2.2	4.5	6.8	5.4	5.5	8.5	5.0	
20-24	0.0	0.0	3.8	2.3	2.2	4.5	6.8	5.4	5.5	8.5	5.0	
25-29	0.0	0.0	3.8	2.3	2.2	4.5	6.8	5.4	5.5	8.5	5.0	
30-34	0.0	0.0	3.8	2.3	2.2	4.5	6.8	5.4	5.5	8.5	5.0	
35-39	0.0	0.0	3.8	2.3	2.2	4.5	6.8	5.4	5.5	8.5	5.0	
40-44	0.0	0.0	3.8	2.3	2.2	4.5	6.8	5.4	5.5	8.5	5.0	
45-49	0.0	0.0	3.8	2.3	2.2	4.5	6.8	5.4	5.5	8.5	5.0	
50-54	0.0	0.0	3.8	2.3	2.2	4.5	6.8	5.4	5.5	8.5	5.0	
55-59	0.0	0.0	3.8	2.3	2.2	4.5	6.8	5.4	5.5	8.5	5.0	
60-64	0.0	0.0	3.8	2.3	2.2	4.5	6.8	5.4	5.5	8.5	5.0	
TOTAL	0.0	0.0	1.9	11.8	9.1	8.4	12.6	14.1	8.0	12.1	4.2	
FEMALE												
0-4	0.0	0.0	0.2	3.7	3.2	3.5	6.0	6.7	4.3	5.5	5.5	
5-9	0.0	0.0	3.7	2.2	2.2	4.4	6.7	5.4	5.5	9.9	6.8	
10-14	0.0	0.0	3.7	2.2	2.2	4.4	6.7	5.4	5.5	9.9	6.8	
15-19	0.0	0.0	3.7	2.2	2.2	4.4	6.7	5.4	5.5	9.9	6.8	
20-24	0.0	0.0	3.7	2.2	2.2	4.4	6.7	5.4	5.5	9.9	6.8	
25-29	0.0	0.0	3.7	2.2	2.2	4.4	6.7	5.4	5.5	9.9	6.8	
30-34	0.0	0.0	3.7	2.2	2.2	4.4	6.7	5.4	5.5	9.9	6.8	
35-39	0.0	0.0	3.7	2.2	2.2	4.4	6.7	5.4	5.5	9.9	6.8	
40-44	0.0	0.0	3.7	2.2	2.2	4.4	6.7	5.4	5.5	9.9	6.8	
45-49	0.0	0.0	3.7	2.2	2.2	4.4	6.7	5.4	5.5	9.9	6.8	
50-54	0.0	0.0	3.7	2.2	2.2	4.4	6.7	5.4	5.5	9.9	6.8	
55-59	0.0	0.0	3.7	2.2	2.2	4.4	6.7	5.4	5.5	9.9	6.8	
60-64	0.0	0.0	3.7	2.2	2.2	4.4	6.7	5.4	5.5	9.9	6.8	
TOTAL	0.0	0.0	3.2	13.8	11.3	10.8	14.7	16.5	9.2	13.6	4.1	
BOTH SEXES												
0-4	0.0	0.0	0.4	3.8	3.2	3.5	6.0	6.7	4.3	6.6	6.6	
5-9	0.0	0.0	3.8	2.3	2.2	4.5	6.7	5.4	5.5	9.9	6.8	
10-14	0.0	0.0	3.8	2.3	2.2	4.5	6.7	5.4	5.5	9.9	6.8	
15-19	0.0	0.0	3.8	2.3	2.2	4.5	6.7	5.4	5.5	9.9	6.8	
20-24	0.0	0.0	3.8	2.3	2.2	4.5	6.7	5.4	5.5	9.9	6.8	
25-29	0.0	0.0	3.8	2.3	2.2	4.5	6.7	5.4	5.5	9.9	6.8	
30-34	0.0	0.0	3.8	2.3	2.2	4.5	6.7	5.4	5.5	9.9	6.8	
35-39	0.0	0.0	3.8	2.3	2.2	4.5	6.7	5.4	5.5	9.9	6.8	
40-44	0.0	0.0	3.8	2.3	2.2	4.5	6.7	5.4	5.5	9.9	6.8	
45-49	0.0	0.0	3.8	2.3	2.2	4.5	6.7	5.4	5.5	9.9	6.8	
50-54	0.0	0.0	3.8	2.3	2.2	4.5	6.7	5.4	5.5	9.9	6.8	
55-59	0.0	0.0	3.8	2.3	2.2	4.5	6.7	5.4	5.5	9.9	6.8	
60-64	0.0	0.0	3.8	2.3	2.2	4.5	6.7	5.4	5.5	9.9	6.8	
TOTAL	0.0	0.0	3.5	12.8	10.2	9.6	13.7	15.2	8.6	14.1	4.5	

"-" INDICATES NET LOSS.

Table II. Net Internal Migration for Each City by Age Group and Sex, 1970-75

CITIES	NUMBERS										
	IN C-HEON	SU WEON	SEONG NAM	EUI JEONGBU	AN YANG	BU CHEON	CHUN CHEON	WEON JU	GANG REUNG	SOG CHO	CHEONG JU
	MALE										
0-4	2248	920	9116	-55	768	1700	-515	-306	36	-288	1022
5-9	2616	1803	14999	-509	803	2129	62	-676	457	-573	1924
10-14	4318	1732	12076	-306	1170	2180	1239	-363	838	-565	3095
15-19	12812	3595	13342	909	2856	4205	2084	-760	766	-777	5063
20-24	1239	1267	5828	178	1306	1836	-1267	-1726	-902	-674	-1119
25-29	5779	2238	10547	614	2866	2375	-245	-145	-327	-210	596
30-34	2159	1224	10238	235	1319	1824	-419	-291	-55	-136	1348
35-39	-132	763	9034	-239	440	1278	-246	-220	153	-443	1032
40-44	321	454	5348	-168	287	797	-91	-517	165	-256	601
45-49	103	206	3388	-161	249	553	-143	-277	126	-220	289
50-54	461	173	2970	54	265	512	3	-177	87	-207	200
55-59	260	39	2349	14	192	388	26	10	77	-101	117
60-64	165	109	1481	5	151	286	96	-35	24	-94	100
65+	502	264	1605	125	143	339	162	32	27	0	259
TOTAL	32921	14786	106320	695	12815	20400	745	-5451	1470	-4542	14525
	FEMALE										
0-4	2093	857	8485	-51	714	1582	-480	-284	33	-269	951
5-9	2107	1473	14245	-302	884	1913	-20	-617	486	-505	1764
10-14	3924	1746	11575	-95	1417	2148	1000	-294	712	-729	2422
15-19	17248	6186	13963	2329	6290	5192	2313	-752	210	-1081	5635
20-24	7719	2217	12211	1303	2378	3586	-892	-1522	-766	-671	1282
25-29	3532	1176	11631	-39	966	2270	-981	-43	144	-140	1318
30-34	393	655	9303	-351	350	1308	-338	-195	68	-342	927
35-39	593	594	7166	-479	443	992	-61	-358	255	-365	979
40-44	864	304	4730	-181	424	819	106	-241	215	-294	667
45-49	797	353	3760	33	417	654	63	-115	105	-201	398
50-54	789	309	3114	90	406	544	110	-65	60	-129	167
55-59	660	255	2534	46	394	454	94	-59	52	-109	227
60-64	737	366	1912	62	174	359	65	-32	81	-12	277
65+	1724	552	2761	140	312	617	311	-58	113	-1	821
TOTAL	43120	17044	107389	2505	15570	22438	1290	-4636	1768	-4848	17834
	BOTH SEXES										
0-4	4341	1777	17601	-105	1482	3282	-995	-590	69	-557	1972
5-9	4723	3276	29244	-811	1686	4042	42	-1293	943	-1078	3687
10-14	8241	3478	23651	-401	2587	4328	2238	-657	1550	-1294	5516
15-19	30060	9781	27305	3238	9146	9397	4397	-1511	976	-1858	10699
20-24	8958	3484	22039	1481	3684	5422	-2159	-3248	-1668	-1345	163
25-29	9310	3414	22178	575	3833	4645	-1226	-188	-183	-349	1913
30-34	2592	1879	19541	-116	1668	3132	-757	-486	13	-479	2276
35-39	461	1357	16200	-719	883	2270	-307	-578	407	-808	2011
40-44	1126	758	10078	-349	711	1615	16	-758	379	-550	1268
45-49	901	558	7148	-129	665	1207	-80	-392	231	-422	687
50-54	1250	482	6084	144	672	1056	113	-242	147	-335	367
55-59	920	295	4883	61	586	842	119	-49	129	-211	344
60-64	632	476	3392	66	325	645	161	-67	105	-105	377
65+	2226	816	4366	265	455	956	473	-26	140	-1	1080
TOTAL	76040	31831	213709	3200	28385	42838	2035	-10086	3238	-9391	32359

"-" INDICATES NET LOSS.

Table II (Continued)

CITIES	PER CENT RATES										
	IN CHEON	SU WEON	SEONG NAM	EUI JEONGBU	AN YANG	BU CHEON	CHUN CHEON	WEON JU	GANG REUNG	SOG CHC	CHEONG JU
MALE											
0- 4	4.4	6.3	43.3	-0.8	8.2	22.7	-6.7	-4.3	0.7	-6.8	8.8
5- 9	5.7	13.3	84.0	-7.8	10.5	34.8	0.7	-8.6	8.7	-11.1	17.1
10-14	9.1	13.3	80.6	-4.5	16.3	39.1	12.3	-4.1	15.0	-11.0	23.6
15-19	23.8	25.7	84.4	13.0	36.1	56.2	-18.7	-9.2	12.9	-17.8	31.9
20-24	3.3	12.0	84.2	4.1	22.4	34.8	-20.5	-34.0	-23.2	-23.3	-12.3
25-29	16.5	22.9	89.8	17.0	43.2	60.0	-6.2	-4.3	-10.2	-10.2	9.0
30-34	7.0	13.7	88.2	6.3	22.5	39.3	-9.6	-7.7	-2.0	-5.9	21.1
35-39	-0.5	9.5	86.2	-6.3	9.2	33.6	-5.3	-5.4	5.2	-18.6	16.7
40-44	1.6	8.0	82.4	-4.4	8.9	33.5	-2.5	-15.1	8.1	-14.0	13.0
45-49	0.7	5.5	80.7	-7.7	11.9	33.8	-5.5	-11.7	8.1	-14.8	8.9
50-54	3.6	5.5	80.7	3.0	16.2	34.7	0.1	-8.9	6.0	-12.4	7.6
55-59	2.9	1.7	80.6	1.2	16.2	34.8	1.5	0.7	6.2	-7.9	6.0
60-64	3.1	6.3	75.1	0.6	17.8	34.1	8.0	-3.1	2.7	-12.2	6.9
65+	7.8	12.2	72.1	1.1	15.2	34.7	11.4	-2.4	2.2	-2.2	13.2
TOTAL	8.3	13.4	77.8	1.3	19.7	37.7	1.1	-9.1	3.4	-12.5	15.1
FEMALE											
0- 4	4.4	6.3	43.6	-0.8	8.0	22.4	-6.6	-4.3	0.7	-6.7	8.7
5- 9	4.8	12.2	84.9	-4.5	12.4	34.2	-0.3	-8.5	9.9	-10.5	17.3
10-14	8.9	14.4	81.4	-1.5	20.8	40.4	11.0	-3.6	13.6	-15.5	21.0
15-19	30.4	37.6	85.5	2.8	56.2	61.6	-21.1	-9.9	4.1	-27.1	36.7
20-24	18.0	17.9	89.1	2.8	27.5	54.9	-13.5	-30.3	-22.1	-26.4	21.8
25-29	10.1	11.7	90.7	-6.5	14.5	33.6	-22.0	-1.1	5.0	-6.2	19.5
30-34	1.4	7.9	87.0	-8.4	7.0	33.3	-7.2	-4.7	2.6	-14.4	15.7
35-39	2.3	8.4	85.0	-1.0	11.0	33.4	-1.3	-8.2	9.8	-14.8	16.6
40-44	4.0	6.0	81.1	-6.0	14.1	33.4	2.7	-7.0	9.7	-14.4	13.5
45-49	5.1	8.4	80.7	-6.6	19.4	33.3	2.0	-4.4	5.4	-11.0	10.3
50-54	6.4	9.2	81.4	-5.9	22.6	33.2	4.7	-3.3	3.7	-9.4	5.6
55-59	7.2	9.5	82.4	4.3	26.7	33.0	5.1	-3.7	3.5	-12.1	9.7
60-64	10.1	16.2	79.9	6.8	16.0	34.4	4.5	-2.4	7.1	-1.7	14.1
65+	14.7	17.6	76.9	9.9	17.6	34.8	12.9	-2.9	5.4	-0.1	22.1
TOTAL	10.8	15.0	79.1	4.5	22.4	40.8	1.8	-7.7	4.2	-13.9	18.5
BOTH SEXES											
0- 4	4.4	6.3	43.5	-0.8	8.1	22.5	-6.6	-4.3	0.7	-6.7	8.8
5- 9	5.3	13.0	84.4	-6.3	11.4	34.5	0.3	-8.5	9.3	-10.8	17.2
10-14	9.0	13.9	81.5	-3.0	18.5	39.7	11.7	-3.9	14.0	-13.1	22.4
15-19	27.8	32.1	85.0	2.1	47.9	59.1	-19.9	-9.5	8.5	-22.3	34.3
20-24	11.3	15.2	87.1	1.4	25.5	35.9	-16.9	-32.2	-24.7	-24.7	0.0
25-29	13.3	17.2	90.0	7.1	28.8	45.3	-14.6	-2.6	-3.3	-2.6	14.3
30-34	4.3	10.9	87.6	-1.5	15.3	33.6	-8.4	-6.1	0.2	-10.2	18.5
35-39	0.9	9.0	85.7	-3.3	10.0	33.0	-3.3	-6.8	7.4	-16.7	16.6
40-44	2.8	7.1	81.8	-5.7	11.4	33.3	0.2	-11.0	6.0	-14.3	13.3
45-49	3.0	7.2	80.8	-3.7	15.7	33.9	-1.4	-7.8	6.6	-12.7	9.9
50-54	5.0	7.4	80.8	4.3	19.6	33.9	2.4	-6.1	4.8	-11.0	6.6
55-59	5.0	5.9	81.5	2.7	22.0	33.9	3.3	-1.6	4.8	-9.6	8.0
60-64	7.0	11.9	77.7	3.9	16.8	33.5	6.0	-2.7	5.2	-7.2	11.0
65+	12.2	13.8	75.1	1.0	16.8	33.7	12.4	-0.8	4.2	-0.1	19.0
TOTAL	9.5	14.2	78.4	3.0	21.1	39.3	1.4	-8.4	3.8	-13.2	16.8

"-" INDICATES NET LOSS.

Table II (Continued)

CITIES	NUMBERS										
	CHUNG JU	DAE JECN	CHEON AN	JEON JU	GUN SAN	IRI	GWANG JU	MOG PO	YEO SU	SUN CHEON	DAE GU
	MALE										
0-4	374	86	424	175	441	81	-846	-370	170	-67	-423
5-9	560	316	471	169	848	448	6146	96	204	820	3306
10-14	1048	531	670	375	1158	804	8822	761	192	1412	13925
15-19	605	105	864	470	1742	1870	17315	1248	7	2531	32727
20-24	-445	-235	-233	-469	-128	-265	-12512	-5008	-969	-898	-9268
25-29	713	59	288	68	1035	332	-2847	-1065	239	-289	3712
30-34	314	16	58	65	654	375	374	-174	595	125	170
35-39	310	28	31	66	232	194	252	-162	365	19	365
40-44	260	25	48	37	220	44	450	-272	31	54	1207
45-49	18	11	17	17	69	32	-178	-228	-72	-11	332
50-54	10	-7	12	-10	28	-82	-258	-393	-121	-127	3
55-59	15	-2	17	-11	16	-59	-158	-200	-86	21	-17
60-64	150	-1	10	-10	-20	-74	-10	-179	-32	30	-133
65-69	160	11	41	108	72	3	232	-61	-33	52	565
TOTAL	3956	1766	3672	6941	6366	1039	16783	-6007	373	3673	46471
	FEMALE										
0-4	348	80	395	162	410	76	-787	-344	159	-62	-393
5-9	480	248	533	336	645	429	5136	-180	324	818	2823
10-14	678	430	783	436	1115	679	7348	648	1215	11310	
15-19	436	113	300	330	2457	1180	12140	155	-144	1285	30472
20-24	272	-9	643	-173	716	-673	-5843	-2560	-339	-706	2292
25-29	660	-181	661	222	839	196	-1665	15	516	-120	-3071
30-34	280	-47	311	204	204	182	450	-269	96	115	-695
35-39	267	78	144	75	130	227	1016	-64	80	106	2552
40-44	128	74	57	50	147	66	889	-212	-22	15	1927
45-49	85	44	88	114	35	-18	64	-327	-62	-75	1026
50-54	38	22	55	14	53	-42	131	-287	-70	-11	804
55-59	41	20	69	97	136	-15	189	-154	-63	26	852
60-64	311	43	195	195	69	-29	646	-108	15	49	603
65-69	311	56	194	182	182	105	1251	-43	150	162	1911
TOTAL	4034	2171	6221	9048	7188	2364	20964	-3730	869	2815	52411
	BOTH SEXES										
0-4	722	167	819	337	851	157	-1633	-714	329	-129	-816
5-9	1040	565	1006	306	1493	877	11282	-85	528	1637	6128
10-14	1720	963	1266	658	2274	1484	16170	1405	420	2627	25235
15-19	1044	218	800	419	3166	3050	29455	-1403	-136	3816	63199
20-24	-177	-244	-643	-173	587	-2937	-18355	-7568	-1308	-1604	-6976
25-29	375	122	390	91	1875	-135	-4512	-1049	755	-409	641
30-34	564	-21	91	116	858	557	823	-443	691	240	-525
35-39	578	10	62	141	362	421	1268	-227	326	125	2917
40-44	380	99	301	88	417	110	1339	-485	10	69	3134
45-49	28	5	1	95	104	-14	-114	-555	-133	-86	1358
50-54	65	14	1	80	80	-125	-127	-680	-191	-138	806
55-59	64	18	1	152	49	-74	31	-353	-149	47	835
60-64	96	21	17	176	254	-103	636	-287	-17	79	470
65-69	472	127	2	742	254	109	1483	-104	117	213	2476
TOTAL	8031	3938	9892	15989	13554	3404	37747	-9737	1242	6488	98882

"-" INDICATES NET LOSS.

Table II (Continued)

CITIES	PER CENT RATES										
	CHUNG JU	DAE JEON	CHEON AN	JEON JU	GUN SAN	IRI	GWANG JU	MOG PO	YEO SU	SUN CHEON	DAE GU
MALE											
TOTAL	1775	2210	770	1117	1574	1823	1156	1277	2222	1133	1744
TOTAL	1775	2210	770	1117	1574	1823	1156	1277	2222	1133	1744
FEMALE											
TOTAL	1775	2210	770	1117	1574	1823	1156	1277	2222	1133	1744
TOTAL	1775	2210	770	1117	1574	1823	1156	1277	2222	1133	1744
BOTH SEXES											
TOTAL	1775	2210	770	1117	1574	1823	1156	1277	2222	1133	1744

"-" INDICATES NET LOSS.

ble II (Continued)

CITIES	PO HANG	GYEONG JU	GIM CHEON	AN DONG	MA SAN	JIN JU	CHUNG MU	JIN HAE	SANG CHEONPO	UL SAN	JEJU	NUMBERS	5
MALE													
0-4	2105	351	-11	228	2956	344	183	-288	-39	3829	655		
1-14	2117	371	50	939	2936	1641	362	-152	228	3122	769		
15-19	2117	371	50	939	2936	1641	362	-152	228	3122	769		
20-24	2117	371	50	939	2936	1641	362	-152	228	3122	769		
25-29	2117	371	50	939	2936	1641	362	-152	228	3122	769		
30-34	2117	371	50	939	2936	1641	362	-152	228	3122	769		
35-39	2117	371	50	939	2936	1641	362	-152	228	3122	769		
40-44	2117	371	50	939	2936	1641	362	-152	228	3122	769		
45-49	2117	371	50	939	2936	1641	362	-152	228	3122	769		
50-54	2117	371	50	939	2936	1641	362	-152	228	3122	769		
55-59	2117	371	50	939	2936	1641	362	-152	228	3122	769		
60-64	2117	371	50	939	2936	1641	362	-152	228	3122	769		
65+	2117	371	50	939	2936	1641	362	-152	228	3122	769		
TOTAL	2082	3702	-851	5395	39525	7145	1392	-4960	-1128	34047	5611		
FEMALE													
0-4	1923	327	-10	212	2752	320	171	-268	-36	3564	610		
1-14	1915	327	20	600	2752	1486	354	-130	228	3284	497		
15-19	1915	327	20	600	2752	1486	354	-130	228	3284	497		
20-24	1915	327	20	600	2752	1486	354	-130	228	3284	497		
25-29	1915	327	20	600	2752	1486	354	-130	228	3284	497		
30-34	1915	327	20	600	2752	1486	354	-130	228	3284	497		
35-39	1915	327	20	600	2752	1486	354	-130	228	3284	497		
40-44	1915	327	20	600	2752	1486	354	-130	228	3284	497		
45-49	1915	327	20	600	2752	1486	354	-130	228	3284	497		
50-54	1915	327	20	600	2752	1486	354	-130	228	3284	497		
55-59	1915	327	20	600	2752	1486	354	-130	228	3284	497		
60-64	1915	327	20	600	2752	1486	354	-130	228	3284	497		
65+	1915	327	20	600	2752	1486	354	-130	228	3284	497		
TOTAL	1703	3744	-331	4525	55494	7662	1622	-4571	-738	28924	7108		
BOTH SEXES													
0-4	4072	677	-22	439	5708	664	354	-556	-76	7393	1265		
1-14	4422	748	10	1540	5708	3127	716	-282	272	6466	1265		
15-19	4422	748	10	1540	5708	3127	716	-282	272	6466	1265		
20-24	4422	748	10	1540	5708	3127	716	-282	272	6466	1265		
25-29	4422	748	10	1540	5708	3127	716	-282	272	6466	1265		
30-34	4422	748	10	1540	5708	3127	716	-282	272	6466	1265		
35-39	4422	748	10	1540	5708	3127	716	-282	272	6466	1265		
40-44	4422	748	10	1540	5708	3127	716	-282	272	6466	1265		
45-49	4422	748	10	1540	5708	3127	716	-282	272	6466	1265		
50-54	4422	748	10	1540	5708	3127	716	-282	272	6466	1265		
55-59	4422	748	10	1540	5708	3127	716	-282	272	6466	1265		
60-64	4422	748	10	1540	5708	3127	716	-282	272	6466	1265		
65+	4422	748	10	1540	5708	3127	716	-282	272	6466	1265		
TOTAL	37899	7446	-1182	9920	95019	14807	3014	-9531	-1866	62971	12719		

"-" INDICATES NET LOSS.

Table II (Continued)

CITIES	PER CENT RATES										
	PO HANG	GYEONG JU	GIM CHEON	AN DONG	MA SAN	JIN JU	CHUNG MU	JIN HAE	SAM CHEONPO	UL SAN	JEJU
MALE											
0-4	20.2	5.3	-0.3	3.7	12.4	3.5	3.8	-3.9	-0.9	18.1	6.3
5-9	26.6	12.6	1.2	15.2	23.9	16.7	8.0	-23.8	3.7	20.0	7.7
10-14	17.4	9.8	6.4	23.4	27.2	19.3	6.8	-15.7	-2.3	14.1	12.3
15-19	34.5	6.0	5.1	27.5	36.4	30.9	4.6	-11.7	-14.0	32.9	21.9
20-24	26.1	-10.4	-46.9	-36.7	14.4	-31.5	-16.5	-8.3	-6.2	32.0	-16.9
25-29	57.1	-3.3	-0.8	9.9	32.4	4.1	12.1	-26.9	-14.2	55.7	15.4
30-34	50.8	11.9	4.9	13.3	25.2	12.1	18.6	-13.8	-3.3	33.2	10.0
35-39	31.4	13.8	2.9	12.6	20.9	10.4	7.7	-13.7	-1.4	20.2	7.7
40-44	18.2	11.7	-4.9	11.3	17.3	4.8	4.3	-23.7	0.2	9.9	4.9
45-49	14.8	9.4	-2.2	3.9	13.9	-0.6	0.2	-12.4	-2.5	10.1	6.9
50-54	9.8	10.5	-4.2	7.3	9.1	-1.9	0.8	-10.2	-3.0	9.9	3.9
55-59	3.2	6.9	-2.8	4.7	8.3	-2.4	-7.6	-6.3	-4.3	6.8	3.3
60-64	5.3	9.0	-7.9	7.4	5.4	-2.6	-4.9	-1.7	-3.1	9.0	6.7
65+	3.9	9.3	-7.6	13.8	0.9	-2.4	-6.2	-10.1	-7.2	5.6	11.1
TOTAL	29.8	6.8	-2.5	11.0	22.3	9.2	4.2	-9.5	-3.8	25.9	8.4
FEMALE											
0-4	20.3	5.4	-0.3	3.9	12.3	3.4	3.8	-3.8	-0.9	17.8	6.2
5-9	30.9	12.5	1.3	10.7	23.4	16.2	8.6	-20.7	2.8	19.2	5.5
10-14	18.4	5.1	5.1	15.1	27.0	17.1	5.1	-12.3	-2.7	14.1	11.0
15-19	23.0	-2.9	0.8	22.6	59.7	25.0	3.9	-7.6	-16.0	20.6	17.9
20-24	39.7	-0.1	-14.5	-7.4	35.6	-7.3	0.0	8.2	-12.7	44.6	8.8
25-29	31.2	11.4	3.6	10.9	21.8	9.1	10.6	-4.5	1.0	47.7	21.4
30-34	31.6	13.5	0.4	8.8	19.0	9.8	8.5	-21.7	-3.5	25.5	12.0
35-39	18.3	9.7	2.4	12.2	16.7	10.1	4.7	-23.4	1.1	13.0	9.6
40-44	10.8	7.8	-4.9	5.7	15.1	7.0	2.2	-17.3	-2.5	10.6	8.7
45-49	12.2	5.6	-3.3	1.5	12.0	0.7	0.5	-3.9	-2.3	12.2	6.0
50-54	9.0	7.3	-4.6	2.5	10.5	3.3	1.4	-1.3	-1.6	11.0	6.8
55-59	9.9	6.8	-4.2	9.0	15.3	-1.4	-4.1	-1.5	-6.7	14.7	8.9
60-64	14.7	8.5	-5.2	16.7	12.9	7.7	-3.2	-1.9	-0.7	13.4	6.5
65+	12.5	6.3	-5.3	12.4	9.9	7.0	-1.9	-1.2	1.3	12.2	11.3
TOTAL	26.5	6.9	-1.0	9.8	28.5	10.0	4.9	-8.9	-2.4	23.9	10.4
BOTH SEXES											
0-4	20.3	5.3	-0.3	3.8	12.4	3.4	3.8	-3.8	-0.9	18.0	6.3
5-9	28.7	12.6	1.3	13.1	23.6	16.5	8.3	-22.2	3.3	19.6	6.7
10-14	17.5	9.4	5.8	19.6	27.1	18.3	6.0	-15.5	0.1	14.1	11.7
15-19	29.3	1.9	3.1	25.4	50.5	28.3	3.3	-9.7	-14.9	27.4	20.0
20-24	33.0	-5.3	-30.0	-21.8	26.4	-19.2	-5.4	0.4	-9.2	38.5	-3.7
25-29	54.4	4.5	1.5	10.4	27.3	6.7	6.7	-11.3	-6.4	51.9	18.5
30-34	42.3	12.7	2.6	11.1	22.3	11.0	7.7	-17.6	-3.4	29.9	11.0
35-39	25.7	11.7	2.6	12.4	18.8	10.2	2.2	-12.2	-0.1	17.2	8.6
40-44	14.7	9.7	-4.9	8.5	16.2	6.0	0.0	-20.6	-1.2	10.2	6.9
45-49	13.4	7.3	-2.7	2.6	12.9	0.1	3.3	-15.8	-2.4	11.2	6.3
50-54	9.4	8.9	-4.4	4.9	9.8	-1.0	2.2	-15.5	-2.3	10.5	5.7
55-59	6.8	6.9	-3.5	6.9	12.2	-1.9	7.7	-13.3	-5.6	11.2	6.7
60-64	10.6	8.7	-6.5	12.6	9.7	3.4	4.9	-4.8	-1.8	11.6	6.6
65+	9.5	7.5	-6.1	12.9	7.0	3.9	0.7	-4.1	-1.8	9.9	11.3
TOTAL	28.2	6.9	-1.8	10.4	25.6	9.6	4.5	-9.2	-3.1	25.0	9.4

"-" INDICATES NET LOSS.

韓國의 純 國內移動 推定, 1970-75

權 泰 煥

1970-75년의 센서스 期間동안의 한국의 純國內移動의 量과 率을 推定함에 있어서 우리는 行政的인 市와 各道內의 市로 構成된 都市地域과 이를 除外한 農村地域을 單位地域으로 使用하였다. 本推定에 使用된 方法은 「前進 센서스 生殘率 方法」으로서 0-4세 移動人口 推定을 除外하고는 本「人口 및 發展問題 研究所 會報」第4輯에 실린 1955-70년 사이의 純國內移動人口 推定方法과 同一하다. 0-4세의 경우에는 1955-70년의 추정때 주어진 경우와는 다른 加重值를 使用하여 移動人口를 推定하였다.

本 推定을 위해서는 우선 준비작업으로서 1970년 센서스 資料와 1975년 센서스 資料 사이의 比較性的 確保가 필요하였다. 1970-75년 센서스기간 사이에 우리나라에는 총 32개중 14개 市의 地域이 再調整되었고, 또한 새로이 3개의 邑이 市로 昇格하였다. 이와 같은 광범한 地域再調整과 地域地位의 變動으로 인한 推定單位地域의 比較性 상실문제는 1970년 센서스의 地域을 1975년의 것에 맞추어 조정함으로서 해결하였다.

本 推定の 質은 주로 單位地域間의 死亡水準의 차이와 海外移動率의 영향을 어느 정도 받는 것으로 보인다. 그러나 다행히 이 두가지 主要 오류의 要因은, 한 單位地域을 中心으로 볼 때, 서로 反對의 方向으로 作用하고 있어, 이 두 要因을 合하여 영향을 측정하면 오류의 정도는 극히 미미할 것으로 보인다. 즉 本 推定은 상당히 높은 신뢰도를 보일 것으로 판단된다.