

ESTIMATES OF NET INTERNAL MIGRATION FOR KOREA 1970-75

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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 suggests that international 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	SEOUL	BUSAN	GYEONG GI	GANG WON	CHUNG BUG	CHUNG NAM	JEON BUG	JEON NAM	GYEONG BUG	GYEONG NAM	JEJU	NUMBERS WHOLE COUNTRY
0-4	12009	12215	15027	4872	940	MALE 544	-687	13902	-576	-298	344	0
5-9	25239	15409	15999	14330	-739	842	11739	-1739	-4340	-2861	-314	0
10-14	13147	43863	7410	18729	-529	895	19404	-19404	-3755	-10094	687	0
15-19	17525	9148	21938	18729	-16282	3036	58778	-58778	-8045	-2435	-255	0
20-24	13147	26104	26010	2211	-2408	1445	30837	-30837	-11599	-8510	-85	0
25-29	21123	12717	14214	2889	-2998	1581	14139	-14139	-2	-372	-57	0
30-34	42847	20664	3790	9823	-301	1992	7547	-7547	608	-962	86	0
35-39	28478	9119	21938	2889	-107	526	3548	-3548	253	-779	86	0
40-44	17525	119	14214	1369	-244	440	275	-275	444	-1074	114	0
45-49	15122	1082	3533	1369	-244	509	1044	-1044	294	-889	194	0
50-54	30847	15349	16488	9615	-38834	682	13145	-13145	-691	-2920	83	0
55-59												
60-64												
TOTAL												
0-4	11178	13274	12697	4524	-875	FEMALE 230	-6364	-12940	-5190	-2725	320	0
5-9	22565	13085	10190	14261	-7941	6154	10390	-11178	-3801	-2490	-489	0
10-14	15731	53899	20372	19630	-2662	10806	73024	-73024	-19208	-2019	1333	0
15-19	18373	18273	22242	19717	-3818	971	40490	-40490	-19187	4966	842	0
20-24	12373	9020	17222	17623	-2918	206	19106	-19106	-14249	866	257	0
25-29	10965	9027	9722	4524	-591	477	17138	-17138	-105	565	303	0
30-34	9125	3408	4755	7466	-1160	127	6222	-6222	-1081	-1688	8	0
35-39	9125	2909	5214	6360	-627	147	5452	-5452	-1364	1851	116	0
40-44	9125	2374	2214	3881	-1008	188	4328	-4328	-1047	-1805	131	0
45-49	9125	2374	2214	3881	-1008	188	4328	-4328	-1047	-1805	131	0
50-54	9125	2374	2214	3881	-1008	188	4328	-4328	-1047	-1805	131	0
55-59	9125	2374	2214	3881	-1008	188	4328	-4328	-1047	-1805	131	0
60-64	9125	2374	2214	3881	-1008	188	4328	-4328	-1047	-1805	131	0
TOTAL												
0-4	21845	3390	29038	806	-1816	BOTH SEXES	13201	-26842	-10765	533	664	0
5-9	28945	38747	37700	27971	-9826	296	21226	-22917	-17618	-552	-697	0
10-14	19039	37474	35559	23285	-15223	12021	28849	-24084	-7535	-19203	-1748	0
15-19	29039	37474	35559	23285	-15223	6986	13102	-13102	-5403	-1403	1	0
20-24	19039	37474	35559	23285	-15223	10538	49842	-49842	-22848	-1336	1722	0
25-29	19039	37474	35559	23285	-15223	10538	49842	-49842	-22848	-1336	1722	0
30-34	19039	37474	35559	23285	-15223	10538	49842	-49842	-22848	-1336	1722	0
35-39	19039	37474	35559	23285	-15223	10538	49842	-49842	-22848	-1336	1722	0
40-44	19039	37474	35559	23285	-15223	10538	49842	-49842	-22848	-1336	1722	0
45-49	19039	37474	35559	23285	-15223	10538	49842	-49842	-22848	-1336	1722	0
50-54	19039	37474	35559	23285	-15223	10538	49842	-49842	-22848	-1336	1722	0
55-59	19039	37474	35559	23285	-15223	10538	49842	-49842	-22848	-1336	1722	0
60-64	19039	37474	35559	23285	-15223	10538	49842	-49842	-22848	-1336	1722	0
TOTAL												

*-# INDICATES NET LOSS.

Table I (Continued)

WHOLE AREA	PER CENT RATES											
	SEOUL	BUSAN	GYEONG GI	GANG WDN	CHUNG BUG	CHUNG NAM	JEON BUG	JEON NAM	GYEONG BUG	GYEONG NAM	JEJU	WHOLE COUNTRY
0-4	8.0	7.6	9.4	9.3	0.0	5.2	2.5	4.8	9.3	4.7	1.0	0.0
5-14	13.5	14.4	12.4	12.9	1.3	3.4	4.0	3.0	1.4	4.0	1.4	0.0
15-24	13.0	14.4	11.1	13.4	1.3	3.3	1.0	2.0	4.5	0.6	2.4	0.0
25-34	12.0	13.0	10.2	12.0	1.3	3.3	2.4	1.5	3.9	0.6	3.4	0.0
35-44	12.0	13.0	10.2	12.0	1.3	3.3	2.4	1.5	3.9	0.6	3.4	0.0
45-54	12.0	13.0	10.2	12.0	1.3	3.3	2.4	1.5	3.9	0.6	3.4	0.0
55-64	12.0	13.0	10.2	12.0	1.3	3.3	2.4	1.5	3.9	0.6	3.4	0.0
TOTAL	11.9	12.2	10.8	11.4	1.2	4.3	3.5	3.8	1.1	5.7	3.0	0.0
0-4	9.9	7.9	9.8	9.3	0.3	5.2	1.9	3.9	9.2	4.2	1.0	0.0
5-14	14.3	14.5	12.5	13.0	1.4	3.2	4.7	3.6	1.4	3.5	1.1	0.0
15-24	13.1	13.0	11.7	12.7	1.2	3.2	3.5	2.7	1.4	2.7	1.1	0.0
25-34	11.4	12.4	10.3	11.2	1.0	3.4	3.0	2.4	1.1	2.4	0.9	0.0
35-44	11.4	12.4	10.3	11.2	1.0	3.4	3.0	2.4	1.1	2.4	0.9	0.0
45-54	11.4	12.4	10.3	11.2	1.0	3.4	3.0	2.4	1.1	2.4	0.9	0.0
55-64	11.4	12.4	10.3	11.2	1.0	3.4	3.0	2.4	1.1	2.4	0.9	0.0
TOTAL	11.5	11.4	10.6	11.1	1.1	3.6	2.7	3.1	1.2	3.4	1.5	0.0
0-4	8.5	6.9	8.5	8.2	0.3	5.2	1.9	3.9	9.2	4.2	1.0	0.0
5-14	14.3	14.5	12.5	13.0	1.4	3.2	4.7	3.6	1.4	3.5	1.1	0.0
15-24	13.1	13.0	11.7	12.7	1.2	3.2	3.5	2.7	1.4	2.7	1.1	0.0
25-34	11.4	12.4	10.3	11.2	1.0	3.4	3.0	2.4	1.1	2.4	0.9	0.0
35-44	11.4	12.4	10.3	11.2	1.0	3.4	3.0	2.4	1.1	2.4	0.9	0.0
45-54	11.4	12.4	10.3	11.2	1.0	3.4	3.0	2.4	1.1	2.4	0.9	0.0
55-64	11.4	12.4	10.3	11.2	1.0	3.4	3.0	2.4	1.1	2.4	0.9	0.0
TOTAL	11.5	11.4	10.6	11.1	1.1	3.6	2.7	3.1	1.2	3.4	1.5	0.0
0-4	8.5	6.9	8.5	8.2	0.3	5.2	1.9	3.9	9.2	4.2	1.0	0.0
5-14	14.3	14.5	12.5	13.0	1.4	3.2	4.7	3.6	1.4	3.5	1.1	0.0
15-24	13.1	13.0	11.7	12.7	1.2	3.2	3.5	2.7	1.4	2.7	1.1	0.0
25-34	11.4	12.4	10.3	11.2	1.0	3.4	3.0	2.4	1.1	2.4	0.9	0.0
35-44	11.4	12.4	10.3	11.2	1.0	3.4	3.0	2.4	1.1	2.4	0.9	0.0
45-54	11.4	12.4	10.3	11.2	1.0	3.4	3.0	2.4	1.1	2.4	0.9	0.0
55-64	11.4	12.4	10.3	11.2	1.0	3.4	3.0	2.4	1.1	2.4	0.9	0.0
TOTAL	11.5	11.4	10.6	11.1	1.1	3.6	2.7	3.1	1.2	3.4	1.5	0.0

#--" INDICATES NET LOSS.

Table I (Continued)

URBAN AREA	SEOUL	BUSAN	GYEONG GI	GANG WON	CHUNG BUNG	CHUNG NAM	JEON BUNG	JEON NAM	GYEONG BUNG	GYEONG NAM	JEJU	COUNTRY	NUMBERS
0-4	12009	12219	14698	-1074	1396	MALE 511	697	-1112	2254	6985	655		49238
5-14	22439	15405	21841	-1748	2483	3641	2990	-7266	17736	8794	769		97205
15-19	13863	19589	4143	1133	5618	6001	5717	11108	138512	18649	1077		148771
20-24	17539	49148	11374	-4568	-1308	-2606	-7091	-19386	-18806	13614	-1880		131947
25-29	3	22894	24419	-901	1342	602	436	13961	4352	18174	485		109136
30-34	7183	12894	17038	-976	1132	599	1687	355	2291	4122	336		54086
35-39	4206	4324	17038	-698	861	458	1087	489	2879	1926	1124		22656
40-44	4336	2064	17038	-544	309	158	1641	-898	1435	490	155		22116
45-49	2847	916	4433	-223	209	-6	157	-422	1420	211	34		17961
50-54	1328	69	4433	-11	120	-5	-157	-191	824	174	54		4530
55-59	1732	1082	2257	221	1420	-38	-113	-189	75578	100	160		4112
60-64	1512	153492	187937	-7777	18522	21341	14346	14821		76021	5611		11437
TOTAL	308472												868364
0-4	11178	11374	13680	-1000	1299	FEMALE 475	699	-1097	2098	6502	610		45829
5-14	22965	13225	20715	-686	3097	3903	2427	9438	14120	8088	497		83668
15-19	13894	19085	4901	691	6011	4901	4627	13438	33337	7838	880		136488
20-24	18093	32893	1525	-382	1525	588	690	-9448	16933	14133	1311		102771
25-29	17645	18209	19448	-1057	1208	450	-1688	1234	1980	14506	1483		629912
30-34	10790	6705	12408	-897	1248	1088	1711	1352	3980	2251	1563		266674
35-39	9121	3028	9014	-174	798	885	1715	1188	2586	1188	394		286614
40-44	6299	3999	9222	-173	402	281	1248	-238	1420	1	152		20868
45-49	6299	2374	9222	-173	272	293	1248	-238	1104	909	138		184204
50-54	6299	2374	9222	-173	272	293	1248	-238	1104	909	138		159004
55-59	6299	2374	9222	-173	272	293	1248	-238	1104	909	138		16004
60-64	6299	2374	9222	-173	272	293	1248	-238	1104	909	138		30201
TOTAL	364132	177151	208006	-6426	21868	21934	18600	20919	77386	88394	4108		1005132
0-4	2187	3893	28178	-2033	95	BOTH SEXES	1325	-2138	4388	13472	1255		95067
5-14	4053	23867	44189	-1187	2797	604	1534	-3329	13888	2702	497		187472
15-19	2927	38677	7740	-1977	7740	1697	10274	-20807	17809	16924	1257		287458
20-24	4425	37175	11740	-694	-1308	2508	19274	-29275	10499	13244	1313		90947
25-29	4455	19759	28957	-1779	3895	866	1950	-2825	10499	12774	1068		174828
30-34	4455	41954	28957	-1779	3895	866	1950	-2825	10499	12774	1068		95528
35-39	4455	19759	28957	-1779	3895	866	1950	-2825	10499	12774	1068		95528
40-44	4455	11902	20393	-1292	2895	1633	2747	-1948	9233	3214	777		95528
45-49	4455	5838	11447	-631	1447	1633	2747	-1948	9233	3214	777		22380
50-54	4455	3384	9588	-374	347	222	222	-144	1103	1103	222		20435
55-59	4455	2241	7587	-294	347	222	222	-144	1103	1103	222		20435
60-64	4455	5264	1199	-94	347	222	222	-144	1103	1103	222		41643
TOTAL	672604	330604	396003	-14204	40350	49235	32977	35740	152364	16445	12719		1873493

"-" INDICATES NET LOSS.

Table I (Continued)

URBAN AREA	SECUL	BUSAN	GYEONG GI	GANG WCK	CHUNG BUK	CHUNG NAM	JEON BUK	JEON NAM	GYEONG BUK	GYEONG NAM	PER CENT RATES	
											JEJU	WHOLE COUNTRY
05	2.0	7.6	13.4	4.7	7.6	3.7	1.0	1.6	2.1	5.8	6.3	4.6
10	1.5	14.2	22.5	2.7	13.7	2.8	1.2	10.8	16.7	14.5	7.3	5.0
15	1.1	27.4	25.0	4.3	19.6	4.0	1.5	2.8	22.5	25.8	12.9	15.0
20	2.5	23.6	22.9	2.7	13.0	3.5	1.1	4.3	12.5	15.5	14.9	14.0
25	3.0	11.6	11.8	1.8	13.8	3.2	1.1	1.1	12.0	12.6	10.0	8.3
30	3.4	6.9	11.5	4.4	16.2	5.7	1.1	2.2	3.0	3.7	4.9	5.4
35	5.0	2.7	11.8	4.4	16.2	5.7	1.1	2.2	3.0	3.7	4.9	5.4
40	5.5	2.0	12.9	2.2	14.9	4.9	1.1	2.2	3.0	3.7	4.9	5.4
45	5.9	0.5	12.4	1.0	13.4	4.9	1.1	2.2	3.0	3.7	4.9	5.4
50	6.4	0.9	12.4	1.3	13.4	4.9	1.1	2.2	3.0	3.7	4.9	5.4
55	10.0	12.6	12.4	4.3	12.4	4.9	1.1	2.2	3.0	3.7	4.9	5.4
60	19.0	12.6	12.4	4.3	12.4	4.9	1.1	2.2	3.0	3.7	4.9	5.4
TOTAL	10.0	12.6	12.4	4.3	12.4	4.9	1.1	2.2	3.0	3.7	4.9	5.4
05	2.9	7.9	13.6	4.6	7.5	3.8	1.0	1.6	2.1	5.8	6.3	4.6
10	1.9	14.8	28.0	2.5	13.8	6.0	1.2	10.8	16.7	14.5	12.9	15.0
15	1.1	26.5	28.0	2.5	13.8	6.0	1.2	10.8	16.7	14.5	12.9	15.0
20	2.2	17.7	29.5	1.6	11.9	5.9	1.1	9.7	22.7	23.8	18.4	16.7
25	3.3	7.7	29.5	8.2	11.1	5.9	1.1	9.7	22.7	23.8	18.4	16.7
30	3.4	7.7	29.5	8.2	11.1	5.9	1.1	9.7	22.7	23.8	18.4	16.7
35	4.4	7.6	29.5	8.2	11.1	5.9	1.1	9.7	22.7	23.8	18.4	16.7
40	5.5	7.9	29.5	8.2	11.1	5.9	1.1	9.7	22.7	23.8	18.4	16.7
45	5.9	8.8	29.5	8.2	11.1	5.9	1.1	9.7	22.7	23.8	18.4	16.7
50	6.4	12.4	29.5	8.2	11.1	5.9	1.1	9.7	22.7	23.8	18.4	16.7
55	8.5	14.4	29.5	8.2	11.1	5.9	1.1	9.7	22.7	23.8	18.4	16.7
60	11.0	14.4	29.5	8.2	11.1	5.9	1.1	9.7	22.7	23.8	18.4	16.7
TOTAL	11.0	14.4	29.5	8.2	11.1	5.9	1.1	9.7	22.7	23.8	18.4	16.7
05	2.8	7.2	13.2	4.4	7.3	3.5	1.0	1.5	2.0	5.7	6.2	4.4
10	1.5	10.5	22.7	2.5	12.8	6.0	1.2	10.8	16.7	14.5	12.9	15.0
15	1.1	20.5	22.7	2.5	12.8	6.0	1.2	10.8	16.7	14.5	12.9	15.0
20	2.5	16.4	22.7	2.5	12.8	6.0	1.2	10.8	16.7	14.5	12.9	15.0
25	3.0	7.7	22.7	2.5	12.8	6.0	1.2	10.8	16.7	14.5	12.9	15.0
30	3.4	7.7	22.7	2.5	12.8	6.0	1.2	10.8	16.7	14.5	12.9	15.0
35	4.4	7.6	22.7	2.5	12.8	6.0	1.2	10.8	16.7	14.5	12.9	15.0
40	5.5	7.9	22.7	2.5	12.8	6.0	1.2	10.8	16.7	14.5	12.9	15.0
45	5.9	8.8	22.7	2.5	12.8	6.0	1.2	10.8	16.7	14.5	12.9	15.0
50	6.4	12.4	22.7	2.5	12.8	6.0	1.2	10.8	16.7	14.5	12.9	15.0
55	8.5	14.4	22.7	2.5	12.8	6.0	1.2	10.8	16.7	14.5	12.9	15.0
60	11.0	14.4	22.7	2.5	12.8	6.0	1.2	10.8	16.7	14.5	12.9	15.0
TOTAL	11.0	14.4	22.7	2.5	12.8	6.0	1.2	10.8	16.7	14.5	12.9	15.0
05	2.8	7.2	13.2	4.4	7.3	3.5	1.0	1.5	2.0	5.7	6.2	4.4
10	1.5	10.5	22.7	2.5	12.8	6.0	1.2	10.8	16.7	14.5	12.9	15.0
15	1.1	20.5	22.7	2.5	12.8	6.0	1.2	10.8	16.7	14.5	12.9	15.0
20	2.5	16.4	22.7	2.5	12.8	6.0	1.2	10.8	16.7	14.5	12.9	15.0
25	3.0	7.7	22.7	2.5	12.8	6.0	1.2	10.8	16.7	14.5	12.9	15.0
30	3.4	7.7	22.7	2.5	12.8	6.0	1.2	10.8	16.7	14.5	12.9	15.0
35	4.4	7.6	22.7	2.5	12.8	6.0	1.2	10.8	16.7	14.5	12.9	15.0
40	5.5	7.9	22.7	2.5	12.8	6.0	1.2	10.8	16.7	14.5	12.9	15.0
45	5.9	8.8	22.7	2.5	12.8	6.0	1.2	10.8	16.7	14.5	12.9	15.0
50	6.4	12.4	22.7	2.5	12.8	6.0	1.2	10.8	16.7	14.5	12.9	15.0
55	8.5	14.4	22.7	2.5	12.8	6.0	1.2	10.8	16.7	14.5	12.9	15.0
60	11.0	14.4	22.7	2.5	12.8	6.0	1.2	10.8	16.7	14.5	12.9	15.0
TOTAL	11.0	14.4	22.7	2.5	12.8	6.0	1.2	10.8	16.7	14.5	12.9	15.0

"-" INDICATES NET LOSS.

Table I (Continued)

RURAL AREA	SEJUL	BUSAN	GYEONG GI	GANG HCN	CHUNG BUG	CHUNG NAM	JEON BUG	JEON NAM	GYEONG BUG	GYEONG NAM	JEJU	NUMBERS
0-4	0	0	330	8	2339	MALE 5055	7534	12790	7829	9913	311	88
5-14	0	0	829	3750	1815	1055	11904	19004	11640	1856	1083	4923
15-19	0	0	759	10477	1815	1055	10959	17904	11490	1560	1391	14877
20-24	0	0	390	14077	1954	1115	13979	30879	1740	1846	2	13947
25-29	0	0	288	17944	1900	417	14781	79479	5470	1544	2	18722
30-34	0	0	1591	12871	1977	1793	15332	26575	2036	525	830	109136
35-39	0	0	270	19831	1862	1617	17005	17005	2044	1085	219	54086
40-44	0	0	582	16222	1386	2681	16911	3059	7283	1494	171	28888
45-49	0	0	444	14222	1162	1651	14623	3059	1184	1705	38	22656
50-54	0	0	547	11622	386	710	11684	3059	460	1011	78	17961
55-59	0	0	676	15011	309	531	14233	11853	26	1845	38	4530
60-64	0	0	1706	15011	134	481	12044	1266	460	1085	60	7961
65+	0	0	706	1360	396	481	1998	1853	271	1085	35	4530
TOTAL	0	0	23049	88338	57356	100928	119333	209338	126732	137557	5628	868364
0-4	0	0	387	335	2174	FEMALE 4705	7013	11904	7287	9277	290	45829
5-14	0	0	1285	12305	6148	9177	12482	11976	9829	10519	291	83668
15-19	0	0	225	12237	1037	1707	17077	30876	17276	17007	384	138376
20-24	0	0	608	13395	2633	4583	15183	86460	17545	5004	284	164887
25-29	0	0	445	13119	5737	16111	17329	17329	18212	2368	1	110271
30-34	0	0	334	16502	2277	12916	12916	17320	12912	1632	277	164916
35-39	0	0	467	5116	199	3383	13383	7360	2601	391	305	39912
40-44	0	0	332	5332	255	366	3366	5001	4085	445	10	36674
45-49	0	0	212	5332	255	366	3366	5001	4085	445	10	36674
50-54	0	0	259	3312	1032	1971	3411	5352	3796	3200	16	28664
55-59	0	0	358	2012	1260	1459	3009	4089	2472	2671	93	189004
60-64	0	0	151	1358	1178	2040	2221	442	2431	2671	20	16004
65+	0	0	197	1351	827	209	209	403	260	218	149	16004
TOTAL	0	0	37642	13397	67322	123465	136781	239465	143779	154038	5801	1005132
0-4	0	0	633	7305	4187	BOTH SEXES	1477	2494	15116	19144	674	95047
5-14	0	0	2884	26000	1817	19460	36473	36473	32470	32287	1694	180979
15-19	0	0	1144	31623	4262	19460	17413	16147	39470	32897	1694	280150
20-24	0	0	322	10992	4887	15035	18743	32474	10739	2060	918	106943
25-29	0	0	1936	12603	3022	12603	17333	42474	20673	4060	1135	174949
30-34	0	0	1222	21499	4924	21499	17333	42474	39473	4060	1135	174949
35-39	0	0	497	9118	3797	9118	10932	13252	9845	1477	344	139950
40-44	0	0	896	14622	3118	14622	17493	19922	9845	1477	344	139950
45-49	0	0	906	11066	3188	11066	17493	19922	9845	1477	344	139950
50-54	0	0	602	11699	3188	11699	17493	19922	9845	1477	344	139950
55-59	0	0	1597	13023	1438	13023	17493	19922	9845	1477	344	139950
60-64	0	0	334	13023	1438	13023	17493	19922	9845	1477	344	139950
TOTAL	0	0	60701	224332	124818	224332	256114	449003	270511	291616	11409	1873449

"-" INDICATES NET LOSS.

Table I (Continued)

RURAL AREA	SEUL	BUSAN	GYEONG GI	GANGWON	CHUNG NAM		JEONBUG	JEONNAM	GYEONGBUG	GYEONGNAM	JEJU	PER CENT RATES
					MALE	FEMALE						
0-4	0.0	0.0	0.2	3.8	3.2	5.4	1.3	8.0	4.2	5.8	1.5	4.5
5-14	0.0	0.0	-1.0	-1.6	-1.3	-3.4	-1.3	-1.2	-7.0	-7.9	-2.0	-7.0
15-24	0.0	0.0	-1.5	-2.9	-2.0	-3.7	-4.0	-2.6	-10.9	-10.9	-2.5	-11.6
25-34	0.0	0.0	2.0	3.0	3.3	3.9	2.6	3.1	0.8	0.8	0.4	2.0
35-44	0.0	0.0	0.5	0.5	1.7	2.8	4.1	2.4	0.9	0.9	0.9	1.4
45-49	0.0	0.0	1.0	1.5	1.8	2.6	5.2	3.2	1.4	1.4	1.0	4.4
50-54	0.0	0.0	1.5	2.5	3.6	4.3	4.2	4.5	2.7	2.7	1.1	4.4
55-59	0.0	0.0	2.3	3.5	4.5	5.1	4.6	4.6	3.7	3.7	2.0	4.6
60-64	0.0	0.0	4.9	5.8	6.4	6.8	6.6	6.9	7.4	7.4	3.7	6.8
TOTAL	0.0	0.0	1.1	1.8	2.1	2.8	2.4	2.9	3.4	3.4	1.4	3.9
0-4	0.0	0.0	0.2	3.7	3.2	5.5	6.0	7.0	4.8	5.8	1.9	4.4
5-14	0.0	0.0	-3.0	-1.8	-1.7	-3.9	-1.4	-1.7	-6.6	-6.6	-3.0	-6.9
15-24	0.0	0.0	-1.6	-3.9	-2.6	-5.3	-3.1	-4.1	-9.0	-9.0	-2.8	-10.3
25-34	0.0	0.0	4.5	5.0	5.7	7.2	5.7	5.5	0.0	0.0	1.8	7.6
35-44	0.0	0.0	6.1	6.7	7.3	8.5	7.9	7.3	6.5	6.5	3.9	8.8
45-49	0.0	0.0	3.5	4.5	4.5	4.3	4.9	4.5	5.2	5.2	0.1	5.9
50-54	0.0	0.0	0.5	1.0	1.0	1.0	1.0	1.1	2.8	2.8	0.6	5.0
55-59	0.0	0.0	1.7	1.8	1.5	1.6	1.9	1.7	4.8	4.8	2.1	5.2
60-64	0.0	0.0	1.0	1.9	1.3	1.8	1.0	1.5	6.7	6.7	1.6	6.3
TOTAL	0.0	0.0	1.2	2.8	3.3	4.8	3.7	3.5	5.2	5.2	1.1	6.1
0-4	0.0	0.0	0.2	3.5	3.0	5.3	6.0	7.9	4.8	5.8	1.9	4.2
5-14	0.0	0.0	-3.5	-6.1	-4.7	-9.3	-3.0	-5.8	-7.7	-7.7	-1.4	-10.9
15-24	0.0	0.0	-9.0	-10.8	-8.3	-12.8	-13.0	-12.8	-14.9	-14.9	-2.8	-17.9
25-34	0.0	0.0	3.0	3.8	4.3	5.3	4.9	4.4	3.5	3.5	1.8	7.7
35-44	0.0	0.0	5.9	6.4	6.4	7.2	6.9	6.5	5.9	5.9	3.4	11.1
45-49	0.0	0.0	1.0	1.5	1.5	1.6	1.9	1.7	2.8	2.8	0.7	6.1
50-54	0.0	0.0	1.7	1.8	1.5	1.6	1.9	1.7	4.8	4.8	0.6	5.2
55-59	0.0	0.0	1.0	1.9	1.3	1.8	1.0	1.5	6.7	6.7	1.6	6.3
60-64	0.0	0.0	1.2	2.8	3.3	4.8	3.7	3.5	5.2	5.2	1.1	6.1
TOTAL	0.0	0.0	1.2	2.8	3.3	4.8	3.7	3.5	5.2	5.2	1.1	6.1

"-" INDICATES NET LOSS.

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

CITIES	NUMBERS											
	CHEON	IN	SU	SEONG	JEONGBU	AN	BU	CHUN	WEON	GANG	SOG	CHEONG
			WEON	NAM	JEONGBU	YANG	CHEON	CHEON	JU	REUNG	CHO	JU
0-9	224E	920	16	55	MALE	1700	-515	306	36	88	1022	
10-19	2261E	1803	91	-309	803	2129	82	-363	457	33	1254	
20-29	1481E	3295	120	909	1170	4280	1239	-363	838	33	1953	
30-39	1272E	2238	123	178	2856	2805	2084	-1729	766	74	3063	
40-49	1272E	1222	102	513	3866	1835	-245	-1267	-327	14	119	
50-59	1272E	784	90	335	1319	1874	-419	145	129	36	136	
60-69	1272E	406	33	168	440	1274	-246	-220	123	36	136	
70-79	1272E	206	23	88	287	53	-193	-217	129	36	136	
80-89	1272E	135	23	49	152	128	-193	-177	77	14	110	
90-99	1272E	109	19	11	152	339	29	-177	77	14	110	
TOTAL	32921	14786	106320	1293	12815	20400	745	-5451	1470	-452	14525	
0-9	2097	857	85	51	FE	1593	0	297	33	95	1723	
10-19	2492E	1773	142	-305	884	2148	-420	-297	492	29	602	
20-29	1757E	4189	113	303	1290	3192	1031	-297	710	101	1723	
30-39	1757E	2217	112	230	2978	2892	-987	-152	210	101	1723	
40-49	1757E	1594	93	181	3506	1308	-374	-152	148	101	1723	
50-59	1757E	504	77	80	423	816	103	-152	210	101	1723	
60-69	1757E	305	44	33	427	654	194	-152	101	101	1723	
70-79	1757E	255	30	20	406	454	194	-152	101	101	1723	
80-89	1757E	252	22	14	374	359	61	-152	101	101	1723	
90-99	1757E	252	22	14	374	359	61	-152	101	101	1723	
TOTAL	41120	17044	107389	2505	15370	24438	1290	-4638	1768	-488	17834	
0-9	4341	1777	601	101	BOTH	3204	5	593	63	57	1747	
10-19	47241	34778	192	-1482	1687	4248	-92	-1297	63	57	1747	
20-29	82658	54784	273	383	2511	4327	438	-1297	1550	101	3569	
30-39	99310	34784	220	46	3939	2525	239	-1511	1978	101	3569	
40-49	99310	34784	220	46	3939	2525	239	-1511	1978	101	3569	
50-59	1261	4179	195	169	1683	3170	-1	-488	-1	101	2018	
60-69	1261	1758	111	144	1683	2615	-83	-759	479	101	2018	
70-79	1261	5825	708	144	662	1205	119	-249	321	101	3569	
80-89	1261	4895	488	144	662	845	119	-249	321	101	3569	
90-99	1261	276	336	66	555	656	119	-249	321	101	3569	
TOTAL	76040	31831	213709	320	2885	42838	2035	-10086	3238	-939	10339	

"-" INDICATES NET LOSS.

Table II (Continued)

CITIES	IN CHEON	SU WEON	SEONG NAM	JEONGBU EUI	YANG ANG	BU CHEON	CHUN CHEON	WEON JU	GANG REUNG	PER CENT RATES	
										SDG CHC	CHEONG JU
0-4	4.7	6.8	43.3	0.8	MALE	7.2	-6.7	-4.3	0.7	8.1	8.1
5-14	5.9	13.5	84.0	-7.4	8.2	24.9	-0.3	-4.0	15.9	17.3	17.3
15-19	2.3	11.2	84.4	1.4	10.3	34.6	18.0	-9.2	15.9	23.1	23.1
20-29	3.5	12.2	89.0	1.0	16.3	44.0	-2.5	3.0	22.1	31.2	31.2
30-39	5.0	19.0	88.2	3.4	22.5	49.3	-9.5	-1.1	22.0	19.0	19.0
40-44	6.7	16.3	86.6	3.7	29.9	33.2	-5.3	7.4	15.8	21.6	21.6
45-49	10.6	8.0	82.0	-5.7	18.9	33.6	-2.5	1.7	8.0	13.9	13.9
50-54	5.7	5.5	80.7	3.0	16.2	33.8	0.1	8.0	11.0	7.6	7.6
55-59	2.2	1.6	80.5	1.0	17.8	34.4	1.8	6.6	2.2	6.9	6.9
60-64	3.1	3.2	72.7	1.1	15.2	33.7	1.1	2.3	2.3	6.2	6.2
65+ TOTAL	7.8	12.3	77.7	1.3	19.7	37.7	1.1	2.4	2.4	15.1	15.1
0-4	4.8	6.2	43.6	0.8	FEMALE	4.2	-6.0	-4.3	0.7	8.7	8.7
5-14	8.0	14.4	81.0	-4.1	8.0	24.4	-1.1	-3.5	13.6	17.0	17.0
15-19	4.0	13.7	85.0	2.2	12.8	40.6	1.5	1.4	10.7	23.6	23.6
20-29	5.9	17.9	89.0	1.5	17.5	49.6	-1.5	3.1	11.0	19.5	19.5
30-39	7.9	17.9	87.0	4.1	21.0	34.3	-2.3	9.8	9.8	15.7	15.7
40-44	13.0	8.4	85.0	-1.8	14.0	44.3	-1.7	7.4	10.8	13.0	13.0
45-49	15.4	9.2	81.0	1.9	19.9	35.2	2.0	5.3	11.5	11.0	11.0
50-54	17.5	8.0	81.0	4.6	14.6	40.0	4.5	7.5	11.4	9.7	9.7
55-59	10.4	16.2	72.9	1.6	26.7	34.6	1.5	3.7	11.4	14.2	14.2
60-64	4.4	1.6	79.9	0.9	12.4	40.8	1.2	2.4	1.2	12.8	12.8
65+ TOTAL	10.7	14.5	76.9	1.4	22.4	40.8	1.2	2.4	2.4	19.1	19.1
0-4	4.3	6.0	43.5	0.8	BOTH SEXES	5.5	-6.0	-4.3	0.7	8.2	8.2
5-14	7.1	13.0	81.0	-3.0	11.4	24.7	-1.9	-3.5	14.3	17.4	17.4
15-19	2.7	13.2	85.0	1.7	15.5	35.3	1.9	1.7	10.9	23.4	23.4
20-29	3.3	17.2	89.0	2.3	21.8	44.7	-1.1	7.1	11.7	19.3	19.3
30-39	5.0	11.0	87.0	3.8	18.0	39.0	-3.5	13.2	10.3	16.3	16.3
40-44	7.9	8.0	85.0	0.7	14.0	49.0	-2.4	9.8	11.7	13.0	13.0
45-49	10.6	9.2	81.0	4.7	19.9	40.8	4.5	7.5	11.4	11.0	11.0
50-54	5.7	17.2	72.9	1.6	14.5	45.7	1.1	2.3	11.4	14.2	14.2
55-59	2.2	1.6	80.5	0.9	12.2	45.7	1.1	2.3	11.4	14.2	14.2
60-64	3.1	3.2	72.7	1.3	15.2	45.7	1.1	2.3	11.4	14.2	14.2
65+ TOTAL	7.8	12.3	77.7	1.3	19.7	45.7	1.1	2.3	2.3	19.0	19.0

"-" INDICATES NET LOSS.

Table II (Continued)

CITIES	CHUNG JU	DAE JECN	CHEON AN	JEON JU	GUN SAN	IRI	GWANG JU	MOG PO	YEO SU	SUN CHEON	NUMBERS	
											DAE GU	GU
0-4	374	86	424	175	MALE	81	-846	-370	170	-67	423	
5-9	1568	3159	4710	16754	441	444	6146	761	194	82	3305	
10-14	605	10511	864	3754	1158	804	8822	761	194	1412	13925	
15-19	-445	-2359	-286	-4688	1742	1870	17512	-5085	-969	2589	32727	
20-24	310	16	286	6562	1035	2265	-12874	1065	239	-125	-9248	
25-29	310	284	315	3717	1654	375	2874	-174	246	19	3712	
30-34	1053	177	48	102	2320	144	250	16228	312	154	365	
35-39	1530	-23	12	114	69	32	-178	-222	-121	-17	133	
40-44	1530	-17	10	108	160	-82	-158	-200	-121	30	-13	
45-49	3956	217	-41	694	-72	-74	16783	-607	373	3673	46471	
TOTAL		17629	3672	6941	6366	1039			373			
0-4	348	80	395	169	FEMALE	76	-787	-340	159	-62	393	
5-9	480	2409	3534	1392	410	429	5136	180	327	883	2830	
10-14	243	11364	2000	3394	645	679	7348	155	227	1205	13422	
15-19	262	-	643	-1733	1157	1180	12140	-2560	-339	1206	30422	
20-24	269	181	531	509	716	196	-1665	159	5	-110	-3015	
25-29	125	741	314	718	204	187	1016	-264	96	106	2552	
30-34	83	442	43	119	130	227	84	312	80	-15	1927	
35-39	43	2207	227	147	195	-125	131	-287	-70	-16	1064	
40-44	43	430	194	135	136	-125	189	-108	-15	49	823	
45-49	403	2173	194	678	182	103	1231	-108	150	283	6041	
TOTAL		2173	6221	9048	7388	2364	20964	-370	869	283	52411	
0-4	720	159	803	37	BOY SEXES	157	-1632	-745	39	-97	6	
5-9	1071	5257	1203	3938	1071	1874	1202	1403	320	1677	8143	
10-14	1071	2187	390	800	124	1884	1202	1403	320	1677	8143	
15-19	1071	-271	390	-842	124	1884	-1935	1403	-1708	-109	-3467	
20-24	1578	237	917	455	108	3937	-1935	1403	-1708	-109	-3467	
25-29	1578	237	917	455	108	3937	-1935	1403	-1708	-109	-3467	
30-34	1578	237	917	455	108	3937	-1935	1403	-1708	-109	-3467	
35-39	1578	237	917	455	108	3937	-1935	1403	-1708	-109	-3467	
40-44	1578	237	917	455	108	3937	-1935	1403	-1708	-109	-3467	
45-49	1578	237	917	455	108	3937	-1935	1403	-1708	-109	-3467	
50-54	1578	237	917	455	108	3937	-1935	1403	-1708	-109	-3467	
55-59	1578	237	917	455	108	3937	-1935	1403	-1708	-109	-3467	
60-64	1578	237	917	455	108	3937	-1935	1403	-1708	-109	-3467	
TOTAL	8031	39382	9892	15989	13554	3404	37747	-9737	1242	6488	98882	

"-" INDICATES NET LOSS.

Table II (Continued)

CITIES	CHUNG JU	DAE JEON	CHEON AN	JEON JU	GUN SAN	IRI	GWANG JU	MOG PO	YEO SU	PER CENT RATES	
										SUN CHEON	DAE GU
0	5.9	3.7	7.9	8.3	4.7	1.2	1.9	7.7	1.8	0.5	
1	13.6	15.0	10.6	10.3	12.7	10.2	2.5	2.8	2.5	1.7	
10	-20.4	29.3	10.9	12.7	15.3	7.8	2.2	4.4	2.0	3.2	
20	9.7	0.4	18.7	2.7	14.9	10.7	2.9	4.7	1.7	0.8	
30	10.2	2.1	19.5	2.0	6.0	1.6	2.7	7.9	0.6	0.7	
40	10.2	1.1	20.8	3.6	2.9	4.5	2.0	5.9	0.8	1.0	
50	12.3	1.5	14.7	6.8	10.7	8.8	3.0	2.5	2.2	0.7	
60	12.7	2.6	11.0	8.4	5.8	8.0	4.2	1.3	1.9	1.1	
TOTAL	12.7	2.6	11.0	8.4	5.8	8.0	4.2	1.3	1.9	1.1	
0	5.9	3.0	9.6	8.3	4.7	1.0	1.4	7.4	1.8	0.5	
1	9.8	4.0	10.3	5.8	12.5	19.6	4.9	5.3	3.0	1.5	
10	15.4	0.0	12.9	11.1	23.3	14.9	7.0	5.9	1.6	3.1	
20	15.4	0.0	11.8	8.8	23.6	12.4	5.0	4.5	1.6	1.5	
30	15.4	0.0	11.0	6.2	30.3	5.9	6.0	3.0	1.3	1.4	
40	15.4	0.0	14.2	3.4	11.1	2.7	5.2	2.1	0.7	0.9	
50	15.4	0.0	13.8	6.7	6.8	2.0	6.6	0.6	0.9	0.2	
60	15.4	0.0	13.9	10.4	7.9	2.7	5.2	1.7	1.4	0.8	
TOTAL	14.7	1.8	11.2	10.4	7.9	4.4	5.9	1.3	1.5	0.8	
0	5.7	3.0	9.6	8.3	4.0	1.0	1.4	7.4	1.8	0.5	
1	9.8	4.0	10.3	5.8	12.5	19.6	4.9	5.3	3.0	1.5	
10	15.4	0.0	12.9	11.1	23.3	14.9	7.0	5.9	1.6	3.1	
20	15.4	0.0	11.8	8.8	23.6	12.4	5.0	4.5	1.6	1.5	
30	15.4	0.0	11.0	6.2	30.3	5.9	6.0	3.0	1.3	1.4	
40	15.4	0.0	14.2	3.4	11.1	2.7	5.2	2.1	0.7	0.9	
50	15.4	0.0	13.8	6.7	6.8	2.0	6.6	0.6	0.9	0.2	
60	15.4	0.0	13.9	10.4	7.9	2.7	5.2	1.7	1.4	0.8	
TOTAL	13.6	1.7	10.0	10.4	7.9	4.2	5.9	1.3	1.5	0.8	
0	5.7	3.4	7.8	8.8	4.0	1.0	1.2	7.3	1.8	0.5	
1	11.7	15.8	10.3	5.3	12.4	10.7	2.0	5.5	1.3	1.6	
10	-2.0	12.4	14.3	1.2	30.2	7.6	3.9	4.7	1.1	0.6	
20	8.8	3.4	11.6	2.7	40.7	1.3	2.6	3.6	0.3	0.6	
30	7.0	4.0	6.3	5.8	15.8	10.3	1.5	2.4	0.4	0.7	
40	0.8	2.1	5.8	10.2	16.0	3.7	0.8	2.2	0.2	0.8	
50	2.8	1.5	11.8	6.0	9.9	2.4	0.7	3.8	0.3	1.4	
60	3.5	1.5	11.5	3.3	16.8	3.2	0.7	4.3	0.2	0.6	
TOTAL	13.6	1.7	10.0	10.4	7.9	4.2	5.9	1.3	1.5	0.8	

"-" INDICATES NET LOSS.

ble II (Continued)

CITIES	PO HANG	GYEONG JU	CHEON	DONG	MA SAN	JIN JU	CHUNG MU	JIN HAE	CHEONPO	UL SAN	NUMBERS
0-4	21105	351	-1108	28	MALE	344	182	288	-39	3829	655
5-9	21170	705	-251	237	2000	448	322	1228	192	31278	1777
10-14	21187	1013	-251	163	2077	1098	488	1228	-469	12916	1807
15-19	21193	1423	-1210	277	2227	423	107	137	-132	9910	1802
20-24	21205	1739	-1209	407	2522	591	158	174	-248	2224	482
25-29	21217	2007	-935	492	2777	767	209	228	-24	2282	332
30-34	21229	2208	-850	559	3011	1040	277	277	-28	2279	1224
35-39	21241	2408	-754	626	3227	1407	355	327	-32	2229	334
40-44	21253	2598	-659	693	3477	1740	444	377	-37	2222	422
45-49	21265	2798	-564	760	3727	2078	527	427	-37	2222	524
50-54	21277	2998	-469	827	3977	2368	604	477	-37	2222	624
55-59	21289	3198	-374	894	4227	2658	682	527	-37	2222	724
60-64	21301	3398	-279	961	4477	2948	760	604	-37	2222	824
65+ TOTAL	20862	31702	-851	1395	39525	7145	1392	-960	-1128	34047	160
0-4	1982	327	-102	210	FEMALE	0	171	8	36	3567	610
5-9	19834	789	-204	894	4520	386	154	262	-107	12289	980
10-14	19845	1122	-234	1274	5299	564	218	357	-143	12289	1381
15-19	19857	1469	-322	1763	5999	759	288	427	-189	12289	1882
20-24	19869	1816	-410	2252	6699	948	377	504	-221	12289	2383
25-29	19881	2163	-508	2741	7399	1137	466	582	-309	12289	2884
30-34	19893	2509	-606	3230	8099	1326	554	669	-397	12289	3385
35-39	19905	2856	-704	3719	8799	1515	642	752	-485	12289	3886
40-44	19917	3202	-802	4208	9499	1704	730	840	-573	12289	4387
45-49	19929	3549	-900	4697	10199	1893	818	927	-661	12289	4888
50-54	19941	3896	-998	5186	10899	2082	906	1014	-749	12289	5389
55-59	19953	4243	-1096	5675	11599	2271	994	1102	-837	12289	5890
60-64	19965	4590	-1194	6164	12299	2460	1082	1190	-925	12289	6391
65+ TOTAL	17037	31744	-331	4525	55494	7662	1622	-4571	-738	28924	710
0-4	4072	677	-202	39	BOTH SEXES	664	354	56	77	7397	1255
5-9	4223	1294	-502	153	920	3155	716	282	271	12916	1977
10-14	4374	1694	-590	215	998	3555	804	357	-954	12916	2478
15-19	4525	2094	-678	277	1076	3955	442	427	-1043	12916	2979
20-24	4676	2494	-766	339	1154	4355	530	514	-1132	12916	3480
25-29	4827	2894	-854	401	1232	4755	618	602	-1220	12916	3981
30-34	4978	3294	-942	463	1310	5155	706	690	-1308	12916	4482
35-39	5129	3694	-1030	525	1388	5555	794	774	-1396	12916	4983
40-44	5280	4094	-1118	587	1466	5955	882	862	-1484	12916	5484
45-49	5431	4494	-1206	649	1544	6355	970	946	-1572	12916	5985
50-54	5582	4894	-1294	711	1622	6755	1058	1032	-1660	12916	6486
55-59	5733	5294	-1382	773	1700	7155	1146	1120	-1748	12916	6987
60-64	5884	5694	-1470	835	1778	7555	1234	1208	-1836	12916	7488
65+ TOTAL	37899	7446	-1182	9920	95019	14807	3014	-9531	-1866	62971	12719

"-" INDICATES NET LOSS.

Table II (Continued)

CITIES	PO HANG	GYEONG JU	GIM CHEON	AN DONG	MA SAN	JIN JU	CHUNG MU	JIN HAE	SAM CHEONPO	PER CENT RATES	
										UL SAN	JEJU
4	20.2	3.3	0.3	7.2	MALE	5.7	3.0	9.3	0.9	18.0	6.7
0-1	27.4	1.2	1.9	2.2	12.9	16.3	6.4	3.5	-0.3	20.4	12.3
1-14	29.5	0.4	0.9	4.4	22.5	30.0	5.1	7.7	1.3	13.2	21.9
15-24	20.1	0.9	0.4	4.4	32.5	13.0	1.8	3.0	-1.1	13.5	15.0
25-34	20.7	0.8	0.9	2.9	25.0	11.4	1.6	9.7	0.2	10.2	10.7
35-44	22.1	0.7	0.9	3.9	17.3	10.4	2.8	7.4	0.9	9.9	6.9
45-54	18.8	0.7	0.9	1.3	10.3	0.9	0.6	2.7	0.2	6.3	3.3
55-64	23.9	0.8	0.9	4.9	8.5	4.6	0.9	1.6	0.3	9.8	3.7
65+	23.0	0.8	0.9	0.3	2.0	2.9	2.2	1.5	1.2	6.0	1.4
TOTAL	20.2	3.3	0.3	7.2	12.9	5.7	3.0	9.3	0.9	18.0	6.7
4	20.5	4.5	0.3	9.7	FEMALE	4.2	3.6	8.7	0.9	17.8	6.5
0-1	23.8	1.2	0.5	1.6	12.3	16.2	5.5	3.0	-0.2	14.0	11.9
1-14	22.9	0.7	0.5	4.0	23.7	12.5	1.9	1.7	0.7	12.0	17.8
15-24	22.5	1.2	0.5	7.6	32.2	9.8	0.5	2.5	-1.1	14.4	21.0
25-34	18.5	0.7	0.5	8.0	21.1	10.7	0.7	4.0	0.5	11.0	19.6
35-44	22.2	0.7	0.5	1.0	11.0	3.3	1.4	0.3	1.5	11.0	8.0
45-54	22.5	0.7	0.5	5.3	11.0	1.7	1.2	1.5	0.7	11.0	6.9
55-64	19.9	0.7	0.5	3.9	8.5	4.7	0.9	1.6	1.2	11.0	6.5
65+	24.5	0.8	0.5	2.8	2.8	7.0	1.4	1.8	0.4	12.0	10.4
TOTAL	20.5	4.5	0.3	9.7	12.9	4.2	3.6	8.7	0.9	17.8	6.5
4	20.7	3.4	0.3	8.1	BOTH SEXES	4.5	3.3	8.2	0.9	18.5	6.3
0-1	21.2	1.5	0.3	1.6	12.3	16.3	6.0	3.5	-0.3	18.9	12.0
1-14	23.5	0.8	0.5	4.4	22.5	12.8	1.5	7.7	1.3	13.2	21.9
15-24	20.4	0.9	0.5	4.4	32.5	13.0	1.8	3.0	-1.1	13.5	15.0
25-34	20.8	0.8	0.5	2.9	25.0	11.4	1.6	9.7	0.2	10.2	10.7
35-44	18.9	0.7	0.5	3.9	17.3	10.4	2.8	7.4	0.9	9.9	6.9
45-54	23.9	0.8	0.5	4.9	8.5	4.6	0.9	1.6	0.3	9.8	3.3
55-64	23.0	0.8	0.5	0.3	2.0	2.9	2.2	1.5	1.2	6.0	1.4
TOTAL	20.7	3.4	0.3	8.1	12.9	4.5	3.3	8.2	0.9	18.5	6.3

"-" 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 사용하여 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.