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APPENDICES

Appendix 1 Source of Data on AIDS

Table 1.1 AIDS Cases According to Regions in Thailand: December 1997

Region	AIDS cases	
	Cumulative	Percent
Northern	5,038	37.63
BMA.	1,888	14.10
Central	944	7.05
Eastern	1,419	10.60
Western	1,207	9.02
North eastern	1,664	12.43
Southern	1,228	9.17
Total	133,388	100

Note: Adjusted by this study

Source: MOPH(1997), Population Projection for Thailand 1990-2020, office of the National Economic and Social Development Board, Office of the Prime minister(NESDB).

Table 1.2 AIDS Cases According to Region, and Area in Thailand:

December 1997

Region	Urban	Rural	Total
	Cumulative	Cumulative	Cumulative
BMA.	1,460	428	1,888
(%)	(10.91)	(3.19)	(14.10)
Northern	712	4,325	5,038
(%)	(5.32)	(32.31)	(37.63)
Other region	1,886	4,577	6,463
(%)	(14.09)	(34.19)	(48.27)
Total	4,058	9,329	13,388

Note : calculated by this study

Source: MOPH(1997).

Table 1.3 Number of AIDS Cases According to Occupation, Region, and Area:**December 1997**

Region	Government and Private Worker	Labour	Entertain- ment	Other Occupation	Total
BMA					
Urban	240	799	9	407	1455
Rural	62	311	3	57	433
Northern					
Urban	98	396	4	214	712
Rural	267	1,927	11	2120	4,325
Other.					
Urban	253	1,137	23	473	1,886
Rural	289	2,586	17	1,685	4,577
Total	1,209	7,156	67	4,956	13,388

Note: Adjusted by this study

Source: MOPH (1997).

Table 1.4 Number of AIDS Cases According to Age and Region Separated by Urban and Rural Areas

Age	BMA			Northern			Other			Total
	Urban	Rural	Total	Urban	Rural	Total	Urban	Rural	Total	
15	1	0	1	0	0	0	0	2	2	3
16	0	0	0	1	0	1	1	2	3	4
17	2	1	3	0	3	3	4	4	8	14
18	6	0	6	1	11	12	8	12	20	38
19	7	1	8	0	16	16	11	13	24	48
20	8	3	11	3	18	21	16	33	49	81
21	15	4	19	3	47	50	22	55	77	146
22	19	3	22	8	83	91	18	76	94	207
23	29	3	32	8	90	98	52	140	192	322
24	25	17	42	17	130	147	58	153	211	400
25	41	24	65	22	188	210	98	234	332	607
26	30	14	44	33	210	243	83	488	571	858
27	47	18	65	30	231	261	86	245	331	657
28	50	20	70	33	217	250	86	238	324	644
29	36	31	67	33	238	271	75	237	312	650
30	46	19	65	38	239	277	103	265	368	710
31	48	17	65	23	172	195	72	173	245	505
32	57	18	75	33	214	247	71	193	264	586
33	39	12	51	32	172	204	55	165	220	475
34	44	9	53	18	123	141	58	106	164	358
35	45	15	60	34	121	155	68	146	214	429
36	46	10	56	21	113	134	42	96	138	328
37	33	16	49	17	80	97	39	84	123	269
38	26	4	30	13	82	95	28	83	111	236

Table 1.4 (Continued)

Age	BMA			Northern			Other			Total
	Urban	Rural	Total	Urban	Rural	Total	Urban	Rural	Total	
39	22	6	28	7	68	75	30	76	106	209
40	22	8	30	10	83	93	45	83	128	251
41	23	12	35	16	50	66	23	53	76	177
42	25	7	32	7	43	50	25	45	70	152
43	18	4	22	12	35	47	23	38	61	130
44	16	3	19	5	19	24	14	27	41	84
45	17	5	22	4	16	20	17	51	68	110
46	7	2	9	5	16	21	7	23	30	60
47	10	3	13	6	19	25	11	26	37	75
48	11	5	16	3	19	22	10	21	31	69
49	5	0	5	1	13	14	6	26	32	51
50	11	0	11	3	12	15	8	18	26	52
51	6	0	6	2	4	6	5	4	9	21
52	6	0	6	2	8	10	8	7	15	31
53	5	1	6	3	8	11	0	12	12	29
54	4	2	6	3	8	11	6	4	10	27
55	5	1	6	3	11	14	1	3	4	24
56	8	0	8	2	5	7	1	5	6	21
57	2	0	2	0	3	3	6	2	8	13
58	6	1	7	1	4	5	3	9	12	24
59	3	0	3	0	6	6	0	1	1	10
60	3	0	3	1	5	6	2	3	5	14
Total	935	319	1,254	517	3,253	3,770	1,405	3,780	5,185	10,209

Appendix 2 Source of Data on Socio-Economic Survey,1988

Table 2.1 Number of Sampled People in 1988 SES According to Age Group and Occupation in BMA-Urban Areas

Age	Occ1	Occ2	Occ3	Occ4	Total	Age	Occ1	Occ2	Occ3	Occ4	Total
15	0	0	0	0	0	38	3	2	0	2	7
16	0	0	0	0	0	39	3	1	1	0	5
17	0	0	0	0	0	40	2	4	0	0	6
18	1	0	0	0	1	41	0	0	0	0	0
19	0	0	0	0	0	42	4	0	0	1	5
20	1	0	0	0	1	43	2	3	0	0	5
21	3	0	0	1	4	44	1	1	0	0	2
22	0	1	0	0	1	45	1	0	0	0	1
23	1	2	0	1	4	46	3	1	0	1	5
24	2	3	0	2	7	47	3	2	0	2	7
25	1	4	0	2	7	48	4	2	0	0	6
26	2	2	0	1	5	49	2	3	0	1	6
27	1	3	0	0	4	50	1	2	0	0	3
28	1	2	0	2	5	51	2	0	0	0	2
29	3	3	0	1	7	52	2	1	0	1	4
30	4	5	0	2	11	53	1	1	0	0	2
31	1	1	0	0	2	54	1	1	0	0	2
32	2	3	0	4	9	55	0	2	0	3	5
33	0	2	0	1	3	56	0	2	0	0	2
34	3	1	0	5	9	57	1	0	0	0	1
35	5	1	1	1	8	58	2	1	0	1	4
36	3	5	0	2	10	59	2	2	0	0	4
37	4	4	1	0	9	60	2	2	0	0	4
						Total	80	75	3	37	195

Note: Occ1 = Government and private worker, Occ2 = Labour, Occ3 = Entertainment, Occ4 = Other Occupation

Table 2.1 (Continued), BMA-Rural Areas in 1988

Age	Occ1	Occ2	Occ3	Occ4	Total	Age	Occ1	Occ2	Occ3	Occ4	Total
15	0	0	0	0	0	38	2	2	0	1	5
16	0	0	0	0	0	39	0	1	0	0	1
17	0	0	0	0	0	40	4	3	0	3	10
18	0	1	0	0	1	41	3	1	0	1	5
19	0	0	0	0	0	42	2	0	0	2	4
20	0	1	1	0	2	43	1	1	0	2	4
21	2	1	0	0	3	44	1	1	0	2	4
22	0	1	0	0	1	45	2	2	0	0	4
23	1	2	0	0	3	46	1	1	0	2	4
24	0	0	0	0	0	47	2	0	0	1	3
25	0	1	0	0	1	48	0	1	0	1	2
26	2	0	0	2	4	49	1	0	0	1	2
27	1	4	0	0	5	50	0	0	0	2	2
28	1	1	0	1	3	51	1	1	0	0	2
29	1	1	0	1	3	52	1	1	0	4	6
30	0	1	0	2	3	53	1	0	0	0	1
31	1	1	0	0	2	54	2	2	0	1	5
32	1	3	0	0	4	55	0	1	0	2	3
33	0	1	0	1	2	56	0	1	0	1	2
34	0	0	0	0	0	57	0	2	0	1	3
35	2	1	0	0	3	58	0	1	0	1	2
36	3	1	0	1	5	59	0	0	0	1	1
37	0	2	0	1	3	60	0	2	0	2	4
						Total	39	47	1	40	127

Table 2.2 Number of Sampled People in 1988 SES According to Age Group and Occupation in Northern Region-Urban Areas

Age	Occ1	Occ2	Occ3	Occ4	Total	Age	Occ1	Occ2	Occ3	Occ4	Total
15	0	1	0	0	1	38	11	7	1	7	26
16	0	0	0	0	0	39	17	7	0	7	31
17	1	2	0	0	3	40	10	8	1	9	28
18	0	3	0	0	3	41	5	2	0	8	15
19	0	3	0	0	3	42	11	5	1	10	27
20	0	4	0	1	5	43	11	2	0	6	19
21	4	3	1	0	8	44	5	4	0	8	17
22	1	6	3	3	13	45	7	9	0	6	22
23	9	5	0	4	18	46	8	6	0	5	19
24	3	6	3	1	13	47	7	4	0	12	23
25	8	6	0	6	20	48	13	5	1	6	25
26	7	4	1	3	15	49	5	1	0	6	12
27	7	3	2	9	21	50	8	5	0	8	21
28	11	3	0	11	25	51	10	6	1	13	30
29	7	7	1	5	20	52	5	10	1	10	26
30	12	8	1	12	33	53	8	2	0	10	20
31	14	6	0	12	32	54	7	5	1	9	22
32	12	8	2	6	28	55	10	4	0	13	27
33	10	6	0	10	26	56	2	4	0	3	9
34	10	4	0	7	21	57	4	4	0	3	11
35	21	10	3	16	50	58	5	14	0	8	27
36	17	4	2	7	30	59	5	7	0	5	17
37	16	2	1	14	33	60	3	14	0	6	23
						Total	347	239	27	305	918

Table 2.2 (Continued), Northern Region-Rural Areas in 1988

Age	Occ1	Occ2	Occ3	Occ4	Total	Age	Occ1	Occ2	Occ3	Occ4	Total	
15	0	0	0	0	0	38	6	5	0	24	35	
16	0	0	0	0	0	39	3	4	0	19	26	
17	0	1	0	0	1	40	4	2	0	17	23	
18	0	2	0	0	2	41	2	1	1	10	14	
19	0	0	0	3	3	42	0	5	0	22	27	
20	0	0	1	4	5	43	2	1	0	20	23	
21	0	3	0	4	7	44	2	2	0	18	22	
22	2	1	0	7	10	45	4	1	0	20	25	
23	1	3	0	10	14	46	3	6	0	19	28	
24	0	4	0	8	12	47	2	2	0	14	18	
25	2	3	1	7	13	48	1	5	0	19	25	
26	6	7	0	12	25	49	1	4	0	18	23	
27	2	3	0	19	24	50	4	3	0	18	25	
28	1	8	0	16	25	51	1	3	0	16	20	
29	4	5	2	27	38	52	2	5	0	21	28	
30	4	9	0	25	38	53	2	6	0	16	24	
31	7	7	0	24	38	54	4	6	0	15	25	
32	4	8	0	24	36	55	0	6	0	12	18	
33	4	3	1	17	25	56	0	3	0	25	28	
34	3	6	0	19	28	57	2	7	0	18	27	
35	4	3	0	34	41	58	2	3	1	18	24	
36	3	8	0	27	38	59	1	6	0	17	24	
37	2	5	0	23	30	60	2	8	0	20	30	
							Total	99	183	7	726	1015

Table 2.3 Number of Sampled People in 1988 SES According to Age Group and Occupation in Other Region-Urban Areas

Age	Occ1	Occ2	Occ3	Occ4	Total	Age	Occ1	Occ2	Occ3	Occ4	Total
15	4	6	5	1	16	38	66	40	3	32	141
16	2	5	0	1	8	39	57	26	3	23	109
17	7	14	1	0	22	40	78	40	6	23	147
18	6	18	2	3	29	41	41	25	4	25	95
19	8	24	3	1	36	42	69	35	2	30	136
20	19	29	7	7	62	43	31	16	2	22	71
21	12	29	6	5	52	44	46	16	2	22	86
22	20	25	5	6	56	45	83	30	3	33	149
23	22	27	5	15	69	46	37	26	2	20	85
24	31	16	5	14	66	47	37	17	5	19	78
25	48	34	3	19	104	48	55	28	0	24	107
26	49	37	8	18	112	49	33	26	1	28	88
27	39	36	4	17	96	50	44	44	2	32	122
28	61	32	3	26	122	51	31	18	0	18	67
29	65	33	5	19	122	52	44	26	1	30	101
30	82	47	7	30	166	53	33	26	0	36	95
31	71	37	3	33	144	54	39	34	0	19	92
32	63	34	2	26	125	55	34	29	0	26	89
33	51	26	0	21	98	56	28	26	0	25	79
34	60	25	0	30	115	57	20	29	1	16	66
35	67	33	4	23	127	58	29	28	2	20	79
36	70	42	10	28	150	59	23	22	0	16	61
37	62	34	0	27	123	60	38	36	0	21	95
						Total	1915	1286	127	930	4258

Table 2.3 (Continued), Other region-Rural Areas in 1988

Age	Occ1	Occ2	Occ3	Occ4	Total	Age	Occ1	Occ2	Occ3	Occ4	Total
15	0	1	0	0	1	38	12	7	0	71	90
16	0	1	0	0	1	39	12	5	1	52	70
17	0	0	0	1	1	40	8	7	0	82	97
18	2	0	0	2	4	41	8	14	1	60	83
19	3	0	0	3	6	42	6	10	1	64	81
20	0	3	0	2	5	43	4	8	0	54	66
21	2	5	0	5	12	44	5	4	0	53	62
22	3	6	1	15	25	45	11	6	1	67	85
23	1	2	0	18	21	46	7	8	0	52	67
24	7	5	0	23	35	47	5	6	0	50	61
25	7	5	0	37	49	48	4	8	0	61	73
26	6	4	0	41	51	49	4	6	1	63	74
27	7	9	1	41	58	50	8	9	2	88	107
28	10	14	1	52	77	51	8	5	0	49	62
29	6	9	1	39	55	52	7	13	0	45	65
30	16	8	2	52	78	53	5	9	0	46	60
31	17	11	1	58	87	54	7	6	0	54	67
32	18	9	0	65	92	55	4	5	0	55	64
33	12	9	0	54	75	56	5	11	0	54	70
34	8	9	1	66	84	57	6	6	0	45	57
35	7	11	0	65	83	58	5	11	0	50	66
36	12	7	0	70	89	59	2	13	0	38	53
37	9	8	0	51	68	60	3	14	1	66	84
						Total	299	327	16	2,079	2,721

Appendix 3 Data for Regression Model

Table 3.1 Data for Earning Function Model of Bangkok Metropolitan-Urban Areas

Age	Occ1	Occ2	Occ3	Occ4	Earner	HH.size	Per Capita Income
15	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-
18	1.00	0.00	0.00	0.00	1.00	1.00	2,100.00
19	-	-	-	-	-	-	-
20	1.00	0.00	0.00	0.00	2.00	2.00	3,710.00
21	0.96	0.00	0.00	0.04	1.07	1.18	1,793.70
22	0.00	1.00	0.00	0.00	2.00	2.00	2,364.00
23	0.02	0.59	0.00	0.39	0.20	2.36	1,384.73
24	0.04	0.90	0.00	0.06	2.33	3.34	2,302.44
25	0.25	0.47	0.00	0.28	1.75	2.30	1,542.46
26	0.40	0.35	0.00	0.25	1.86	2.54	1,904.22
27	0.31	0.69	0.00	0.00	1.76	2.59	2,799.14
28	0.09	0.16	0.00	0.75	1.59	3.61	1,401.16
29	0.34	0.63	0.00	0.03	1.94	3.35	3,896.94
30	0.37	0.49	0.00	0.14	1.16	2.60	1,934.16
31	0.47	0.53	0.00	0.00	2.00	3.94	1,489.12
32	0.08	0.31	0.00	0.61	2.03	3.83	1,512.41
33	0.00	0.61	0.00	0.39	1.39	2.95	1,497.26
34	0.47	0.04	0.00	0.49	1.41	4.25	1,991.79
35	0.83	0.14	0.01	0.02	1.54	3.63	1,899.04
36	0.11	0.81	0.00	0.08	1.87	3.64	3,004.20
37	0.54	0.45	0.01	0.00	1.67	3.84	1,605.54

Table 3.1 (Continued)

Age	Occ1	Occ2	Occ3	Occ4	Earner	HH.size	Per Capita Income
38	0.16	0.09	0.00	0.75	1.39	5.22	1,268.78
39	0.65	0.22	0.13	0.00	1.88	4.03	2,282.76
40	0.48	0.52	0.00	0.00	1.52	3.54	1,580.74
41	-	-	-	-	-	-	-
42	0.70	0.00	0.00	0.30	2.13	4.59	1,150.27
43	0.07	0.86	0.07	0.00	1.55	3.48	1,979.21
44	0.36	0.64	0.00	0.00	2.36	4.73	2,901.60
45	1.00	0.00	0.00	0.00	2.00	4.00	7,625.00
46	0.34	0.47	0.00	0.19	1.81	3.34	1,126.36
47	0.59	0.16	0.00	0.25	3.74	6.33	1,782.45
48	0.41	0.59	0.00	0.00	1.96	4.09	1,851.24
49	0.07	0.73	0.00	0.20	2.56	3.98	1,380.89
50	0.22	0.78	0.00	0.00	3.10	5.88	1,289.41
51	1.00	0.00	0.00	0.00	1.69	2.31	4,664.88
52	0.18	0.12	0.00	0.70	3.48	4.63	3,543.65
53	0.47	0.53	0.00	0.00	3.94	6.53	1,663.61
54	0.46	0.54	0.00	0.00	1.46	3.91	3,252.84
55	0.00	0.08	0.00	0.92	3.35	4.88	1,536.79
56	0.00	1.00	0.00	0.00	1.11	1.21	2,377.32
57	1.00	0.00	0.00	0.00	4.00	8.00	1,387.00
58	0.35	0.41	0.00	0.24	1.00	4.99	2,209.57
59	0.52	0.48	0.00	0.00	1.95	5.32	1,985.55
60	0.44	0.56	0.00	0.00	1.49	3.21	2,368.08

Table 3.2 Data for Earning Function Model of Bangkok Metropolitan-Rural Areas

Age	Occ1	Occ2	Occ3	Occ4	Earner	HH.size	Per Capita Income
15	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-
18	0.00	0.54	0.46	0.00	1.00	1.00	2,521.97
19	-	-	-	-	-	-	-
20	0.00	1.00	0.00	0.00	2.00	2.00	1,761.00
21	0.69	0.31	0.00	0.00	0.69	1.62	2,507.95
22	0.00	1.00	0.00	0.00	2.00	3.00	758.00
23	0.39	0.61	0.00	0.00	1.64	2.80	3,671.67
24	-	-	-	-	-	-	-
25	0.00	1.00	0.00	0.00	1.00	2.00	3,693.00
26	0.45	0.00	0.00	0.55	1.81	3.32	1,641.84
27	0.23	0.77	0.00	0.00	1.83	3.42	2,148.36
28	0.16	0.31	0.00	0.53	1.53	3.31	1,669.11
29	0.29	0.42	0.00	0.29	2.58	4.29	926.34
30	0.00	0.37	0.00	0.63	1.28	2.91	867.10
31	0.55	0.45	0.00	0.00	1.00	2.36	3,196.89
32	0.31	0.69	0.00	0.00	1.75	2.62	2,674.81
33	0.00	0.50	0.00	0.50	2.00	4.50	1,008.76
34	-	-	-	-	-	-	-
35	0.90	0.10	0.00	0.00	1.00	3.10	1,192.89
36	0.57	0.21	0.00	0.22	2.63	5.50	1,787.38
37	0.00	0.67	0.00	0.33	1.33	4.57	2,341.21

Table 3.2 (Continued)

Age	Occ1	Occ2	Occ3	Occ4	Earner	HH.size	Per Capita Income
38	0.20	0.42	0.17	0.21	1.80	2.98	1,296.87
39	0.00	1.00	0.00	0.00	2.00	4.00	2,697.00
40	0.33	0.40	0.00	0.27	2.41	5.58	1,074.26
41	0.71	0.10	0.00	0.09	1.51	4.00	2,518.45
42	0.37	0.00	0.00	0.63	2.23	4.47	1,487.90
43	0.25	0.25	0.00	0.50	1.75	6.19	1,961.92
44	0.25	0.19	0.00	0.56	2.64	5.12	1,588.09
45	0.52	0.48	0.00	0.00	2.75	6.32	955.32
46	0.11	0.23	0.00	0.66	4.39	5.59	1,311.57
47	0.77	0.00	0.00	0.23	2.29	4.06	2,733.67
48	0.00	0.49	0.00	0.51	3.53	6.51	634.00
49	0.48	0.00	0.00	0.52	1.48	4.97	919.09
50	0.00	0.00	0.00	1.00	2.56	4.32	2,541.92
51	0.50	0.50	0.00	0.00	2.00	4.50	1,921.00
52	0.22	0.10	0.00	0.68	3.49	5.35	1,948.27
53	0.00	1.00	0.00	0.00	5.00	6.00	2,807.00
54	0.32	0.33	0.00	0.35	2.32	3.86	1,887.46
55	0.00	0.37	0.00	0.63	1.63	2.74	1,496.36
56	0.00	0.18	0.00	0.82	2.00	5.45	682.35
57	0.00	0.66	0.00	0.34	2.99	5.67	3,547.77
58	0.00	0.50	0.00	0.50	3.49	5.49	2,521.45
59	0.00	0.00	0.00	1.00	1.00	2.00	2,506.00
60	0.00	0.44	0.00	0.56	3.53	5.31	3,005.56

Table 3.3 Data for Earning Function Model of Northern Region-Urban Areas

Age	Occ1	Occ2	Occ3	Occ4	Earnr	HH.size	Per Capita Income
15	0.00	1.00	0.00	0.00	1.00	1.00	1,863.00
16	-	-	-	-	-	-	-
17	0.18	0.82	0.00	0.00	0.63	1.00	1,550.77
18	0.00	1.00	0.00	0.00	1.38	1.76	1,188.17
19	0.00	1.00	0.00	0.00	0.13	2.21	2,321.81
20	0.00	0.67	0.00	0.33	0.80	1.80	1,147.20
21	0.53	0.39	0.09	0.00	0.83	1.92	1,415.97
22	0.10	0.47	0.20	0.23	1.16	2.25	1,690.94
23	0.49	0.24	0.00	0.27	1.37	1.95	1,678.90
24	0.24	0.52	0.18	0.06	1.03	1.66	1,747.81
25	0.44	0.21	0.00	0.35	1.42	2.37	1,775.13
26	0.49	0.23	0.04	0.24	1.88	2.70	1,415.88
27	0.27	0.18	0.08	0.47	1.62	2.45	1,398.89
28	0.39	0.11	0.00	0.50	1.51	2.73	1,432.28
29	0.25	0.43	0.04	0.28	1.70	3.34	1,853.42
30	0.30	0.21	0.02	0.47	1.59	3.15	1,239.96
31	0.39	0.24	0.00	0.37	1.72	3.50	867.07
32	0.38	0.27	0.07	0.28	1.40	3.18	1,756.48
33	0.30	0.25	0.00	0.45	1.66	3.38	1,478.07
34	0.31	0.21	0.00	0.48	1.59	3.66	2,000.47
35	0.34	0.20	0.04	0.42	1.81	3.85	1,477.78
36	0.49	0.13	0.05	0.33	1.83	3.83	1,982.59
37	0.47	0.08	0.04	0.41	1.84	3.48	1,526.87

Table 3.3 (Continued)

Age	Occ1	Occ2	Occ3	Occ4	Earners	HH.size	Per Capita Income
38	0.30	0.23	0.01	0.46	2.02	3.84	2,120.79
39	0.52	0.22	0.00	0.26	1.98	3.55	2,120.39
40	0.34	0.31	0.01	0.33	1.81	3.70	1,550.66
41	0.36	0.21	0.00	0.43	1.88	3.92	1,178.03
42	0.35	0.16	0.06	0.43	2.31	4.42	1,011.50
43	0.47	0.12	0.00	0.41	2.22	3.81	1,875.00
44	0.20	0.21	0.00	0.59	2.74	4.63	1,205.69
45	0.26	0.41	0.00	0.33	2.37	3.84	2,011.58
46	0.34	0.32	0.00	0.34	2.58	4.03	1,602.08
47	0.20	0.15	0.00	0.65	2.45	4.01	1,451.59
48	0.39	0.22	0.04	0.35	2.39	3.56	1,600.33
49	0.37	0.10	0.00	0.53	1.94	2.89	1,498.59
50	0.25	0.16	0.00	0.59	2.53	3.78	1,068.53
51	0.25	0.20	0.04	0.51	2.51	3.77	1,363.22
52	0.17	0.30	0.01	0.52	2.44	3.88	1,095.92
53	0.30	0.06	0.00	0.64	2.89	4.08	823.95
54	0.24	0.28	0.03	0.45	2.88	3.91	1,960.38
55	0.29	0.09	0.00	0.62	2.71	3.83	1,626.51
56	0.18	0.43	0.00	0.39	2.16	2.79	1,142.39
57	0.22	0.62	0.00	0.16	2.38	2.91	1,214.22
58	0.10	0.56	0.00	0.34	1.94	3.14	1,738.49
59	0.14	0.32	0.00	0.54	2.57	3.70	1,525.52
60	0.09	0.55	0.00	0.36	2.55	4.15	1,285.80

Table 3.4 Data for Earning Function Model of Northern Region-Rural Areas

Age	Occ1	Occ2	Occ3	Occ4	Earnr	HH.size	Per Capita Income
15	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-
17	0.00	1.00	0.00	0.00	0.00	1.00	1,236.00
18	0.00	1.00	0.00	0.00	0.28	1.49	1,781.95
19	0.00	0.00	0.00	1.00	1.30	1.87	1,253.32
20	0.00	0.00	0.22	0.78	1.38	1.38	1,065.63
21	0.00	0.52	0.00	0.48	1.38	2.17	1,009.41
22	0.19	0.10	0.00	0.71	1.81	2.52	1,152.96
23	0.06	0.24	0.00	0.71	1.50	3.04	661.59
24	0.00	0.37	0.00	0.63	1.25	2.83	1,269.50
25	0.23	0.22	0.17	0.38	1.97	2.31	1,351.67
26	0.20	0.27	0.00	0.53	1.63	2.66	1,287.06
27	0.13	0.14	0.00	0.73	2.04	3.45	813.47
28	0.06	0.38	0.00	0.56	2.15	3.57	606.87
29	0.13	0.14	0.05	0.68	1.98	3.54	757.00
30	0.11	0.26	0.00	0.63	1.68	3.24	720.67
31	0.17	0.19	0.00	0.64	1.97	3.73	939.70
32	0.12	0.25	0.00	0.63	1.85	3.78	696.52
33	0.16	0.14	0.04	0.66	2.01	3.97	704.96
34	0.09	0.23	0.00	0.68	1.74	3.67	1,201.43
35	0.10	0.08	0.00	0.82	2.24	4.07	681.46
36	0.09	0.21	0.00	0.70	1.93	3.81	944.78
37	0.06	0.14	0.00	0.80	2.31	4.00	795.26

Table 3.4 (Continued)

Age	Occ1	Occ2	Occ3	Occ4	Earners	HH.size	Per Capita Income
38	0.16	0.15	0.00	0.69	2.46	3.91	928.39
39	0.11	0.17	0.00	0.71	2.19	3.99	1,008.56
40	0.18	0.09	0.00	0.73	2.39	4.28	1,047.61
41	0.20	0.08	0.07	0.65	2.36	3.94	1,322.07
42	0.00	0.19	0.00	0.81	2.92	4.53	722.58
43	0.06	0.03	0.00	0.91	3.15	4.36	736.77
44	0.14	0.08	0.00	0.78	2.89	3.85	887.31
45	0.15	0.05	0.00	0.79	2.77	4.18	1,069.09
46	0.12	0.21	0.00	0.67	2.87	3.76	724.03
47	0.09	0.13	0.00	0.78	3.03	4.36	1,197.01
48	0.04	0.21	0.00	0.74	3.05	4.52	757.38
49	0.04	0.21	0.00	0.76	2.91	3.77	978.22
50	0.15	0.12	0.00	0.72	2.72	3.68	978.74
51	0.04	0.15	0.00	0.81	3.58	4.32	1,131.33
52	0.06	0.20	0.00	0.74	3.33	4.19	1,002.83
53	0.09	0.22	0.00	0.69	2.73	3.97	867.06
54	0.23	0.25	0.00	0.52	2.95	3.50	1,260.89
55	0.00	0.34	0.00	0.66	3.23	3.97	1,103.55
56	0.00	0.11	0.00	0.89	3.80	4.79	828.06
57	0.06	0.27	0.00	0.66	2.72	3.88	1,163.00
58	0.09	0.14	0.04	0.73	2.55	3.17	969.53
59	0.03	0.30	0.00	0.66	2.56	3.50	1,156.18
60	0.06	0.30	0.00	0.64	2.59	3.73	897.32

Table 3.5 Data for Earning Function Model of Other Region-Urban Areas

Age	Occ1	Occ2	Occ3	Occ4	Earnr	HH.size	Per Capita Income
15	0.37	0.37	0.25	0.01	0.94	1.00	2,045.14
16	0.08	0.78	0.00	0.14	0.84	1.00	1,522.42
17	0.20	0.74	0.06	0.00	0.56	1.60	1,637.75
18	0.25	0.49	0.17	0.09	1.05	1.30	1,530.18
19	0.28	0.58	0.11	0.03	1.43	1.67	1,702.89
20	0.35	0.50	0.04	0.11	1.00	1.52	2,298.99
21	0.20	0.68	0.09	0.03	1.27	1.79	2,084.87
22	0.36	0.50	0.08	0.06	1.08	2.61	2,023.72
23	0.26	0.49	0.09	0.15	1.28	1.86	2,599.55
24	0.57	0.23	0.07	0.18	1.22	2.12	2,193.63
25	0.47	0.39	0.01	0.13	1.29	2.47	2,346.01
26	0.40	0.43	0.05	0.11	1.48	2.49	2,157.29
27	0.30	0.45	0.01	0.14	1.32	2.81	1,954.80
28	0.43	0.38	0.04	0.17	1.47	2.75	2,319.60
29	0.47	0.35	0.04	0.14	1.54	2.92	2,432.50
30	0.47	0.34	0.03	0.16	1.61	3.13	2,441.91
31	0.49	0.34	0.01	0.13	1.59	3.21	2,282.47
32	0.54	0.25	0.00	0.20	1.76	3.49	2,115.53
33	0.49	0.31	0.00	0.19	1.73	3.60	2,563.18
34	0.61	0.17	0.02	0.22	1.82	3.76	2,555.06
35	0.49	0.28	0.10	0.20	1.75	3.32	2,364.67
36	0.51	0.28	0.00	0.12	177.00	3.78	2,650.45
37	0.47	0.36	0.03	0.17	1.88	3.96	2,233.63

Table 3.5 (Continued)

Age	Occ1	Occ2	Occ3	Occ4	Earnr	HH.size	Per Capita Income
38	0.47	0.33	0.01	0.19	1.76	4.07	2,322.45
39	0.56	0.28	0.06	0.10	1.77	4.05	2,431.97
40	0.53	0.27	0.06	0.11	1.83	3.90	2,876.85
41	0.41	0.28	0.01	0.25	1.87	4.84	1,830.38
42	0.48	0.31	0.04	0.21	1.81	4.09	2,824.35
43	0.51	0.27	0.05	0.18	2.10	3.90	3,218.94
44	0.47	0.21	0.03	0.27	1.95	4.06	2,443.44
45	0.61	0.18	0.02	0.18	2.14	4.62	2,124.60
46	0.54	0.30	0.00	0.14	2.31	4.38	2,172.16
47	0.51	0.22	0.01	0.22	2.05	4.46	1,949.70
48	0.57	0.27	0.01	0.16	2.32	4.99	2,611.61
49	0.31	0.42	0.00	0.27	2.09	4.41	2,089.67
50	0.34	0.39	0.01	0.26	2.39	4.73	2,174.95
51	0.50	0.27	0.00	0.24	2.23	4.23	1,979.26
52	0.48	0.25	0.01	0.25	2.64	4.73	2,027.87
53	0.41	0.32	0.00	0.28	2.52	4.30	2,753.02
54	0.47	0.40	0.00	0.14	2.44	4.48	2,653.97
55	0.31	0.47	0.00	0.22	2.26	3.92	2,755.18
56	0.38	0.38	0.00	0.24	2.27	4.11	2,257.36
57	0.24	0.53	0.01	0.23	2.39	4.55	2,134.35
58	0.31	0.41	0.02	0.25	2.17	3.64	2,699.01
59	0.35	0.42	0.00	0.22	2.16	3.85	2,568.19
60	0.39	0.46	0.00	0.15	2.31	4.13	2,319.76

Table 3.6 Data for Earning Function Model of Other Region-Rural Areas

Age	Occ1	Occ2	Occ3	Occ4	Earner	HH.size	Per Capita Income
15	0.00	1.00	0.00	0.00	0.00	1.00	2,045.14
16	0.00	1.00	0.00	0.00	0.00	1.00	1,522.42
17	0.00	0.00	0.00	1.00	2.00	1.60	1,637.75
18	0.52	0.18	0.00	0.48	1.18	1.30	1,530.18
19	0.45	0.31	0.00	0.55	1.97	1.67	1,702.89
20	0.00	0.78	0.00	0.22	0.57	1.52	2,298.99
21	0.17	0.17	0.00	0.31	0.94	1.79	2,084.87
22	0.10	3.00	0.03	0.62	1.68	2.01	2,023.72
23	0.09	0.09	0.00	0.85	1.80	1.86	2,599.55
24	0.19	0.19	0.00	0.65	1.69	2.12	2,193.63
25	0.13	0.05	0.00	0.76	1.68	2.47	2,346.01
26	0.12	0.07	0.00	0.82	1.80	2.49	2,157.29
27	0.11	0.06	0.01	0.71	1.75	2.81	1,954.80
28	0.14	0.02	0.01	0.65	1.67	2.75	2,319.60
29	0.10	0.04	0.01	0.71	1.79	2.92	2,432.50
30	0.25	0.06	0.02	0.67	1.78	3.13	2,441.91
31	0.20	0.10	0.01	0.66	1.76	3.21	2,282.47
32	0.17	0.09	0.00	0.75	1.89	3.49	2,115.53
33	0.12	0.05	0.00	0.74	2.02	3.60	2,563.18
34	0.07	0.02	0.01	0.80	1.90	3.76	2,555.06
35	0.04	0.03	0.00	0.84	2.11	3.32	2,364.67
36	0.10	0.08	0.00	0.82	2.22	3.78	2,650.45
37	0.13	0.09	0.00	0.78	2.28	3.96	2,233.63

Table 3.6 (Continued)

Age	Occ1	Occ2	Occ3	Occ4	Earner	HH.size	Per Capita Income
38	0.12	0.09	0.00	0.80	2.43	4.07	2,322.45
39	0.13	0.08	0.02	0.79	2.54	4.05	2,431.97
40	0.09	0.07	0.00	0.84	2.75	3.90	2,876.85
41	0.11	0.07	0.02	0.72	2.65	4.84	1,830.38
42	0.07	0.05	0.01	0.81	2.88	4.09	2,824.35
43	0.06	0.06	0.00	0.85	3.24	3.90	3,218.94
44	0.07	0.03	0.00	0.89	3.21	4.06	2,443.44
45	0.10	0.07	0.02	0.81	3.12	4.62	2,124.60
46	0.11	0.07	0.00	0.77	3.10	4.38	2,172.16
47	0.05	0.05	0.00	0.86	3.18	4.46	1,949.70
48	0.03	0.03	0.00	0.89	3.63	4.99	2,611.61
49	0.04	0.03	0.02	0.84	3.29	4.41	2,089.67
50	0.08	0.05	0.02	0.83	3.25	4.73	2,174.95
51	0.14	0.12	0.00	0.78	3.53	4.23	1,979.26
52	0.12	0.10	0.00	0.80	3.18	4.73	2,027.87
53	0.08	0.08	0.00	0.77	3.14	4.30	2,753.02
54	0.10	0.06	0.00	0.80	3.49	4.48	2,653.97
55	0.05	0.05	0.00	0.88	3.26	3.92	2,755.18
56	0.04	0.04	0.00	0.77	3.23	4.11	2,257.36
57	0.12	0.07	0.00	0.81	3.33	4.55	2,134.35
58	0.06	0.06	0.00	0.78	3.31	3.64	2,699.01
59	0.02	0.02	0.00	0.80	3.44	3.85	2,568.19
60	0.03	0.01	0.01	0.75	3.21	4.30	2,319.76

Appendix 4 Per Capita Household Expenditure in 1988

Table 4.1 Urban and Rural Household Characteristics: 1988

Characteristics	Urban Quintile				
	U ₁	U ₂	U ₃	U ₄	U ₅
Income	2750	4459	5969	7387	12141
Expenditure	2405	3797	5109	6369	11886
Per capita Expenditure					
Minimum	189	808	1288	1809	2750
Maximum	807	1287	1808	2749	42380
Number of Observations	1256	1259	1252	1254	1255
Weight					
Mean	570.04	622.81	681.74	736.41	744.52
SD.	149.85	201.84	240.63	240.15	233.95

Table 4.1 (Continued)

Characteristics	Rural Quintile				
	R ₁	R ₂	R ₃	R ₄	R ₅
Income	1732	2313	2735	3688	5557
Expenditure	1445	2123	2616	3308	6313
Per capita Expenditure					
Minimum	97	462	581	764	1174
Maximum	461	580	763	1173	52218
Number of Observations	954	955	960	947	953
Weight					
Mean	2151.8	2039.3	1944.5	1882.8	1842.7
SD.	311.59	320.98	311.06	281.40	258.17

Source: Sarntisart (1993).

Appendix 5 Per Capita Household Expenditure in 1997

Table 5.1 Urban and Rural Household Characteristics: 1997

Characteristics	Urban Quintile				
	U ₁	U ₂	U ₃	U ₄	U ₅
Income	4527.06	7340.43	9826.2	12160.5	19986
Expenditure	3959.12	6250.64	8410.46	10484.7	19566.8
Per capita Expenditure					
Minimum	311.13	1329.68	2119.67	2976.67	4526.75
Maximum	1328.68	2118.67	2975.76	4525.75	71161.52
Number of Observations	1256	1259	1252	1254	1255
Weight					
Mean	570.04	622.81	681.74	736.41	774.52
SD.	149.85	201.84	240.63	240.15	233.95

Table 5.1 (Continued)

Characteristics	Rural Quintile				
	R ₁	R ₂	R ₃	R ₄	R ₅
Income	2851.23	3807.67	4502.37	6071.21	9147.96
Expenditure	2543.39	3494.89	4306.47	5445.65	10392.5
Per capita Expenditures					
Minimum	159.682	709	955.60	1257.63	1932.44
Maximum	708	954.60	1256.63	1931.44	75646.21
Number of Observations	954	955	960	947	953
Weight					
Mean	2151.8	2039.3	1944.5	1882.8	1842.7
SD.	311.59	320.98	311.06	281.4	258.17

Note: adjusted by this study

Appendix 6 Data Used to Calculate Per Earner Household Income

Table 6.1 Household Size Based on Population Survey, 1988

Area	Mean	Standard- Deviation	Minimum	Maximum	Total
U ₁	4.9142755	1.82	1	14	1,656
U ₂	4.4173261	1.69	1	12	1,168
U ₃	4.1412439	1.70	1	13	1,040
U ₄	3.7878577	1.68	1	11	1,111
U ₅	3.191518	1.66	1	12	1,332
R ₁	5.521657	1.70	1	15	1,710
R ₂	4.8811457	1.64	1	13	599
R ₃	4.7375825	1.6	1	11	672
R ₄	4.2075032	1.54	1	11	852
R ₅	3.776814	1.60	1	10	911

Source: SES (1988).

Appendix 7 Data Used to Estimate Per Capita Household Income in 1988

Table 7.1 Average Monthly Per Capita Expenditure (P_iQ_i or E_i) by Commodity and

Household: 1988		(Unit: Baht)				
Commodity	Urban Quintile					
	U1	U2	U3	U4	U5	
Total	2405.06	3797.39	5108.52	6369.2	11885.65	
1	368.83	340.66	291.06	254.73	208.47	
2	293.93	362.3	413.38	415.6	435.92	
3	156.12	200.3	261.19	294.42	353.26	
4	392.82	774.15	1172.7	1421.8	1930.01	
5	13.21	32.76	69.06	77.59	95.83	
6	99.77	173.87	249.31	355.31	789.32	
7	600.68	967.46	1278.8	1704.9	3547	
8	96.23	227.99	393.46	636.72	2401.1	
9	258.63	477.3	656.28	805.15	1473.9	
10	124.84	240.6	323.28	402.98	656.75	

Table 7.1 (Continued)

Commodity	Rural Quintile				
	R ₁	R ₂	R ₃	R ₄	R ₅
Total	1545.29	2123.2	2616.41	3307.5	6312.75
1	405.73	439.4	433.82	401.13	377.32
2	223.89	315.63	355.04	397.41	457.84
3	115.38	153.8	180.84	199.73	248.33
4	153.52	223.12	308.62	437.9	695.06
5	1.99	5.31	10.55	20.14	39.95
6	77.91	147.97	200.5	279.89	425.6
7	326.87	450.4	565.54	729.57	1946.7
8	41.06	82.88	132.04	266.84	957.99
9	132.59	196.65	267.64	345.01	675.7
10	66.35	108.04	161.82	229.88	488.26

Note: 1. Rice and cereals. 4. Other foods 7. House and housing expenditure
 2. Meat and fish 5. Non-alcoholic beverages 8. Transport and communication
 3. Fruit and vegetables 6. Clothing and footwear 9. Medical expenses, education, and entertainment 10. Other non-foods

Source: Samtisar 1993.

Appendix 8 Data Used to Estimate Per Capita Household Income in 1997

**Table 8.1 Average Monthly Per Capita Expenditure (P_iQ_i or E_i) by Commodity
and Household: 1997 (Unit: Baht)**

Commodity	Urban Quintile				
	U1	U2	U3	U4	U5
Total	3,959.22	6,251.28	8,409.67	10,485.01	19,566.22
1	607.17	560.80	479.14	419.34	343.18
2	483.87	596.42	680.51	684.16	717.61
3	257.01	329.73	429.97	484.68	581.54
4	646.66	1,274.41	1,930.51	2,340.57	3,177.34
5	21.75	53.93	113.69	127.73	157.76
6	164.24	286.23	410.42	584.91	1,299.38
7	988.84	1,592.64	2,105.17	2,806.62	5,839.09
8	158.41	375.32	647.72	1,048.17	3,952.70
9	425.76	785.73	1,080.37	1,325.44	2,426.34
10	205.51	396.08	532.19	663.39	1,071.27

Table 8.1 (Continued)

Commodity	Rural Quintile				
	R ₁	R ₂	R ₃	R ₄	R ₅
Total	2,543.86	3,495.22	4,307.15	5,444.82	10,392.08
1	667.91	723.34	714.16	660.34	621.15
2	368.57	519.59	584.47	654.22	753.70
3	189.94	253.19	297.70	328.80	408.80
4	252.73	367.30	508.05	720.87	1,144.21
5	3.28	8.74	17.37	33.15	65.77
6	128.26	243.59	330.06	460.76	700.63
7	538.10	741.45	930.99	1,201.02	3,204.67
8	67.59	136.44	217.36	439.27	1,577.05
9	218.27	323.73	440.59	567.96	1,112.34
10	109.23	177.86	266.39	378.43	803.78

Appendix 9 Data Used to Calculate Resource Reallocation

Table 9.1 Income Elasticity of Demand for Each Consumer Goods and Services in Urban and Rural Areas

Commodities	Elasticity	Urban Quintile				
		U ₁	U ₂	U ₃	U ₄	U ₅
Rice & Cereals	ϵ_1	0.7290	0.6546	0.7289	0.7531	0.3034
Meat & Fish	ϵ_2	0.8227	0.8950	0.9616	1.1365	0.6152
Fruit & Vegetables	ϵ_3	0.8100	0.7641	0.8394	0.9443	0.4726
Other Food	ϵ_4	1.2041	1.1449	0.9656	0.7873	0.3020
Non- alcohol Beverages	ϵ_5	1.4178	1.2103	1.3867	0.8679	0.3074
Clothing & Footwear	ϵ_6	1.2865	1.0094	1.0985	1.0156	0.7536
House & Housing Expenditure	ϵ_7	0.8061	0.7788	0.8648	0.9196	1.2279
Transportation & Communication	ϵ_8	1.5082	1.3842	1.2848	1.3450	1.8349
Medical Expenses, Education	ϵ_9	1.3854	1.5046	1.3841	1.3639	0.7876
Other Non-food	ϵ_{10}	1.2833	0.8663	0.7974	0.8860	0.3962

Table 9.1 (Continued)

Commodities	Elasticity	Rural Quintile				
		R ₁	R ₂	R ₃	R ₄	R ₅
Rice & Cereals	ϵ_1	0.8916	0.9349	1.0238	0.9062	0.1269
Meat & Fish	ϵ_2	0.9629	0.9802	0.8579	0.8590	0.1357
Fruit & Vegetables	ϵ_3	0.8183	0.6544	0.6826	0.6456	0.1245
Other Food	ϵ_4	0.9615	0.8874	0.9608	0.9558	0.1738
Non- alcohol Beverages	ϵ_5	1.3838	1.3514	1.2086	1.2594	0.1471
Clothing & Footwear	ϵ_6	1.5883	1.4487	1.3276	1.3297	0.3266
House & Housing Expenditure	ϵ_7	0.7331	0.7518	0.7766	0.7415	2.1312
Transportation & Communication	ϵ_8	1.6910	1.4370	1.3074	1.4068	1.2543
Medical Expenses, Education	ϵ_9	1.3747	1.3706	1.2966	1.3140	0.5723
Other Non-food	ϵ_{10}	1.6492	1.4405	1.2972	1.2525	0.3464

Source: Samtisant (1993).

Table 9.2 Cost Shares of Domestic and Imported Inputs by Consumer Goods and Services

Consumer Goods	Intermediate	
	Domestic	Import
Rice & Cereals	0.992	0.008
Meat & Fish	0.967	0.033
Fruit & Vegetables	0.969	0.031
Other Food	0.953	0.047
Non- alcohol Beverages	0.999	0.001
Clothing & Footwear	0.978	0.022
House & Housing Expenditure	0.888	0.112
Transportation & Communication	0.886	0.114
Medical Expenses, Education, and Entertainment	0.824	0.176
Other Non-food	0.941	0.059

Source: Sarntisart (1993).



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