APPENDICES TO CHAPTER 3

(eq q1) 316.9 193.1 213.6 231.2 \$27.2 158.5 91.8 350.3 350.3 270.3 226.2 264.2 758.5 164.7 Total 90.6 173.8 98.6 36.4 125.9 47.2 115.2 112.2 95.3 150.6 9.667 452.9 Others Agricultural Belt 150.0 6.0 Religious Institution Utility Facility 242.5 295.0 45.0 3. v. s. Covernment 66.2 270.0 37.5 77.5 19.0 67.5 24.0 Industrial 25.0 12.5 0.5 45.2 0.07 Commercial Area 12.5 30.0 2.5 31.3 112.5 37.5 30.0 122.5 Residential 22.4 5.0 122.5 537.5 15.8 50.0 25.0 Residential Arca 17.6 20.0 68.7 49.2 37.5 55.0 High Density Zone No. ន្ទដ

LAND USE AREAS BY ZONE, 1980

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. (7)	١

Total		7.707	1,666.2	570.7	1,806,8	3,290.8	5,978,9	7,661.3	3,047.6	3,244.3	5,308	1.682.2	1.979	787.8	833.2	5.099	1.953.9	4,592.3		
Others		.224.1	820.7	258.0	998.2	23.7%	7.7.6	1,635.5	784-6	338.6	8,075	285.2	1,031.8	228.8	128.1	\$ 9g	811.4	3,000.0		
Agricultural Belt			386.0	0.76	0.472		0.00.	¢,156.0	1,550.0	390.0	3,300.0	1,250.0	500.0				725.0	725.0		
Religious			0	3 (3)				9.57	6 2		8.8			8.8		7-9	0.57	501		
Covernment Institution Utility Facility					0 44	0 & X77	704		3.01	o .	0.57	& • • • • • • • • • • • • • • • • • • •	29.0	0 71	0,01	28.1	7.7	127.5		
Industrial Area		00			0.51	40.0			7	0	64.0	7.7	28-3	78:0	0.51	21.7 2.1.7 2.1.7 2.1.7 3.1.7 3.1.7 3.1.7 3.1.7 4.1.7 5.1.7 5.1.7 5.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.1.7 7.7 7	7.	0.542		
Commercial Area	12,5			0.01	715.0	35.0	\$1.8	,		7 • 68	42.5		55.0	75.0	72.5	6.58 5.88	W. 6	30.00		
Residential Area	\$ 28	347.5	130.0	5.19.6	1,950.0	1.027.5	1,002.5	6.059		7	0,010,1	0.041		317	7.00	0, 10, 10, 10, 10, 10, 10, 10, 10, 10, 1				
High. Density Resi Residential Area		22.5)) (7			→ 100 mm m		
%c-	20.	7	22.		77	25.	26	27.	28	8			00	- 20 - 7c	***	37	38			

Zone No.	High Density Residential	Residential Area	Commercial	Industrial Area	Covernment Institution Utility	Religious	Agricultural Belt	Others	Toron.
38	The second secon	. 250-0	OSE		5 6				
.07		218.4		7	75		2.450.0	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
		1,215.2	\$	42,5	9.4		16,242.0	7	17,433.2
.27		396.0		7.07	9-77	7.5	11,828.0	1.79	12,385.9
		277.7		7.9	8.5	2.6	23,333.0	971	23,626.1
7	10.9	9-97/		9	28.0	26.8	222.0	167.9	1.278.5
**	70.7	303.1	7.27		100.6	17	212.0	296.3	1.051.5
.97	362.5	112.5	61.2	15.0	e e e	3.7		2.8	618,0
.72	73.8		30.0	2.5		7.7		72.1	7,707
87	262.5		37.8	8	V	10.7		1.99	7.007
-67	85.0	***************************************	0.71		6	18.0			147.6
9	0.5%	\$	25.0	7.9	77	17.0		163.7	334.6
51.	241.2	71.0	73.7	8.8	22.4	2.6		14.5	380.4
52.		776.2	7.3	126.6	0.59	6.0	3.537.0	7.05	4,287.4
53.	57.5	440.5	56.0	8	123.3	19.5	14.564.0	2,767.0	18,115.6
**		966.2	48.2	70.7	9.886	9.51	8,757.0	A STATE OF THE STA	10,223.0
		39.3		7.		6.1	7,921.0		7,969.8
BKK	1.608.1	18,590.9	2,578,3	1,316.6	6.659.7	7.727	106,797.0	20,665.3	156,841.8
		and street Austra, who was pitting a	ration Special Advances for a given some one	The state of the s	Telephone and the control of the con				
							The second secon		

Total	0.380.4	10,090,0	2,472.0	18,092,0	25,118.0	8,336.0	22,900.0	91.094.0	1.379.0	7.669.0	3.850.0	8,239.0	4,504.0	42,820.0	65,461_0	313,396.8	
Others	7.926	16.2	1,071.1	3,617.3	993.5	240.1	527.1	7,442.0	74.6	28.0	93.0	73.8	24.5		293.9	28,401.2	
Agricultural Selt	2,505.0	9,318.0		12,053.0	24,044.0	8,046.0	22,083.0	78,624.0	1,114.0	4,641.0	2,427.0	0.666,7	3,836.0	42,513.0	62,520.0	247,941.0	
Religious Area	35.8	15.5	20.3	7.51	1.2		20.8	168.7	0.01		30.0	\$ 17	12.5	7	7.59	658.8	
Government Institucion Utility Facility	0.98	330.3	2 0 0 0	227.8	0.0		35.00	2.999	0		115.0	277	171.0	8.6	8.5	9.179.5	
Industrial Area	136.5	160.0	6.107	780.5	7.5		23.8	1,209:6	70		50.0	\$	35.0	2.8	95.7	2.621.9	
Commercial	26.5	20.0	20.5	C 08	20.0		22:5	189.8	2.5		32.5		25.0	5.5	\$-\$9	2,833.6	
Residential	369.5	227.5	355.0	1,445.5	8.67	6-67	187.0	2,678.2	172.5		1,112,5	\$ 25.	0-007	287.5	2,105.0	23,374.1	
High. Density Residential		2.		112.5				115.0				5:0			\$ 0	1.924.6	
Zone No.	ý	57.	88	.65	.09	61.	62.	Samut		.79	٠. د		67.		Non	CBAC	Company of the second control of the second

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(fr bk)	164-7	193.1	213.6	2,701	731.2	\$27.2	1,155.5	8716	239.2	350.3	920.2	270.3	218.1	348.5	264.2	289.4	758.5	
Satellite														The state of the s			-	<u></u>
Rural													······································					
Agricul- tural Belt																		
Park Open Space	112.4	8.07	54.1	0.99	238.9	287.5	0.007	0.03	25.0	127.7	260.0	107.5	62.5	75.0	83.9		93.2	
Religious	52.5	\$	2.0	7.17		10.0	20.0				10.0		7.5		2.5		0.04 0.0	
Government Institution Religious Utility Area: Racility	127.0	2.71	37.9		192.3	229.7	.55.0		1.80.5	118.4	190.0	30.0	100.0	80.0		5.0		
															0.3		and the second	-
Commercial	25.0	135.5	116.6					51.8	33.7	104.2		132.8	7.87	193.5	172.8	284.4		
2 4							0.004							The Angles of the Control of the Con				
BY ZONE, Medium Density, Residen-							280.5										280.0	•
USE AKEAS PESh Decetive Recidential											7.097						345.3	:
2008 No.08	7	Ŕ	. 7	i,	•	7.	တံ	٥,	.01		12	23	3	15.	16.	17.		- 0

Total	,,,,,,	1.404.1	7-000	1.806.8	3,290.8	5.978.9	7,661.3	3.047.6	3.244.3	5,308,1	1,682.2	6,779	787 8)	833.2	561.5	1,953.9	4,592.3		
Satellite Town																				
Rural																				
Agricul- tural Belt						495.0	3,625.4			1,485.0	1,157.5	382.5						563.9		
Park Open Space		650.0	400.0	700.0	744.5	1.691.5	2.378.5	1,420.8	782.8	1,934.0	524.7	702.5	250.0	9.000		000		1,705.0	TORK COUNTY BUT WAS A TO CONTY OF THE	
Religious Area							35.0	8	7:1	1.79					0				On the first and incompany person personal restricted parties and the second se	
Government Ialinstitution Religious Utility Area Facility	0.06		25.0	70.0	525.0	1,076.0	0-967	10.7				44.1	125.0	12.5	13.8				and the second of the second o	
Industrial Area															A la serve de manimente prime de la constante				A the state of the	
Commercial Industr Area		160.0	37.5	42.5	0.099			130.5	338.5			62.5	200.0	75.0	157.2				The state of the second st	A Control of the same reposed for
Low Density Residen- tiel						2,716.4	1,126.4	1,339.9	1,714.3	1,825.0		315.0				703.9	2.136.4		and the state of t	
medium Density Residen- tial		367.8	107.9	6.689	1,361.3			137.5	0.704			139.5		265.0	347.1		187.0		Kirker Physics with grant and administration of	
Densiry Residen- rial	314-1	7-887		304.4									212.8	251.9	all and the second seco				- Distance of the state of the	A Section of the sect
Zone No.	02	21.	22.	23.	24.	25.	26.	27.	28.	.62	30.	31.	3233.	3535	36-				Section of the sectio	and the second second

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7.20	() () () () () () () () () ()	2.784.8	17,433.2	12,385.9	23,626.1	1,278.8	1,051.5	618.0	204.4	400-7	147.6	334.6	380.4	4,287.4	18,115.6	10.223.0	7,969.8	156,841.8		3-2-3
Satellite			820.8	673.7	574.2											1,583.6		3,652.3 15		
Rural				5,531.5	22,801.9								1					28,333.4		
Agricul- tural Belt	0 >6	1,875.0	14,952.8	4,203.8		168.3	243.2							2,605.4	16,125.9	7,169.6	7,160.3			
Park Open Space	1,275.0	525.0	5 353 3	1,052.5	250.0	281.5	331.5	141.0	109.9	121.2	68.1	6.96	93.1	230.0	902.2	824.9	509.5	25,958.2		
Religious Area			15.7	7.18		75.2	25.0	10.0	5.0		10.0	0 0 1	31.4					582.5		
Government Institution Religious Utility Area Facility			65.5	20.0			97.6		5,0				27.2		30.0			4,140.9		
Industrie] Area			226.9	843.0										452.0				1,526.9		
Commercial Industrial Area						0.071					69.5	6*68	61.2					3,522.7		
Low Density Residen- tial	675.3	8.78°				7.187	160.2	190.0				63.0		1,000.0	1.057.5	6.779	300.0	17,501.7	The second secon	
Medium Density Residen-												2.4.8	167.5					5,544.9		
High Density Residen- tial						132.1	0-761	277.0	80.0	279.5								3,339.7		
Zone No.	8	07	4 1.	7.7	43.	1	45.	.97	.7.7	φ •		လ (၃	51.	52.	53.	4	بر د	EKK		

foral	0 700 7	0.000.00	2 623 6	18,092.0	25,118.0	8,336.0	22,900.0	0.260,16		O-X/5.1	0-699.7	3,850.0	8,239.0	4,504.0	0.028.27	65,461.0	13,396.8	A STATE OF THE STA	
Satellite					1,563.6			1,563.6						عبند		197.5	5,413.4 313,396.8	The second second second	
Rural					7,851.0	1.797.0	19,663.0	29,311.0							0-0-0-0-0	0.470.27	79,659,4		
Agricul- cural Belc	2,611.9	8,514,0	620.0	10,849.5	14,177.4	2,567.5	936.0	40,276.3	\		0.950.4	7.100 	0.001.0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4	7	133_189.2		
Park Open Space	1,248.9	1,138.5	1,112.0	2.957.4	1,526.0	212.5	1,446.0	9,641.2	7. O. 7		C.770	h - 1 h h	1 205.5	707	0 344 O)	44,375.4 133,189.2	A CONTRACT SALES AND A	
Religious Area	33.8		22.5	132.5				188	25.0	, r	^ V	7 6) C		, v))	861.8	The state of the s	
CommercialIndustrialInstitution Religious Area Utility Area		275.0		လ ဇ.		3,759.0		4,119.0	33.0		0 641		217	Ç	4.027		9,689,8	And the second s	
Industrial	191.5		562.5	50.0				804.0									2,330.9		
Commercial Area				294.1				294.1			125.0		68.0	100.0	293.0		4,109.8		
Low Density Residen-		162.5.	137.5	2,340.0			855.0	3,495.0			2,134.5	743.0	290.5	317.0	3,485.0		7.781.7		The first of the second of the
Medium Density Residen-			5.7	1,383.5				1,401.0							With Lord spinores temperapoles		6.576.9		And the State of Stat
High Density Residen- tial															Angel Company of the		3,339,7		Ell ebentenmen . mel den . mmanmater bet ellereteren
%one	\$	57.	လ	.65	3 4		- - (o prakan	63.	.79	65.	.99	67.		Nomeha	Part	- A88		tion of the Medition and the contract of

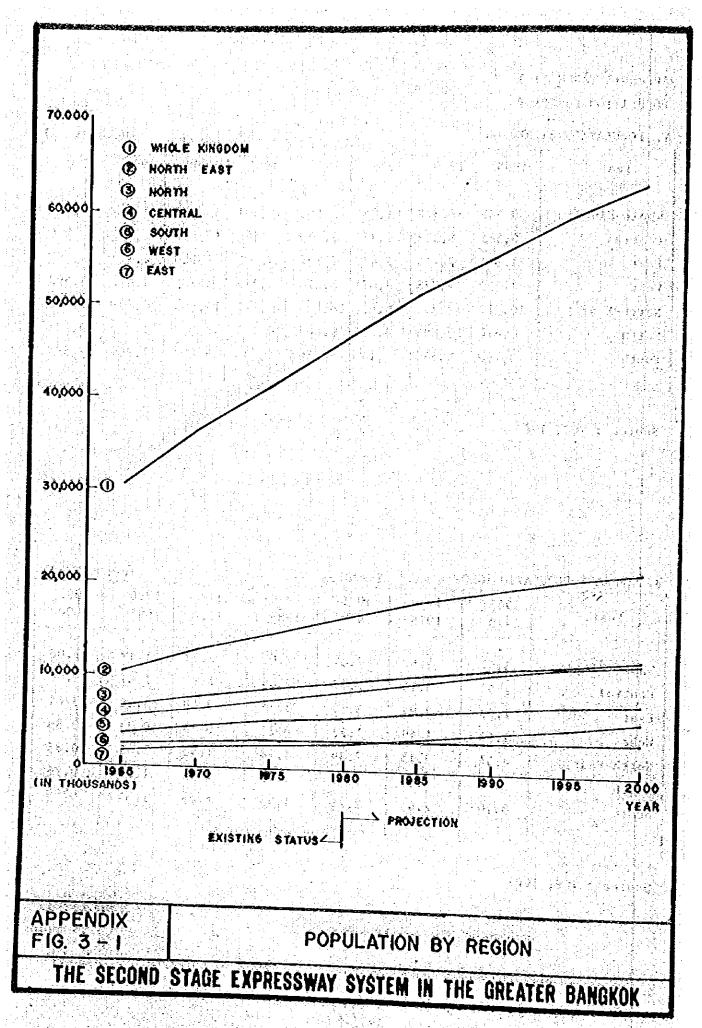
APPENDIX TABLE 3-3 POPULATION PORECAST

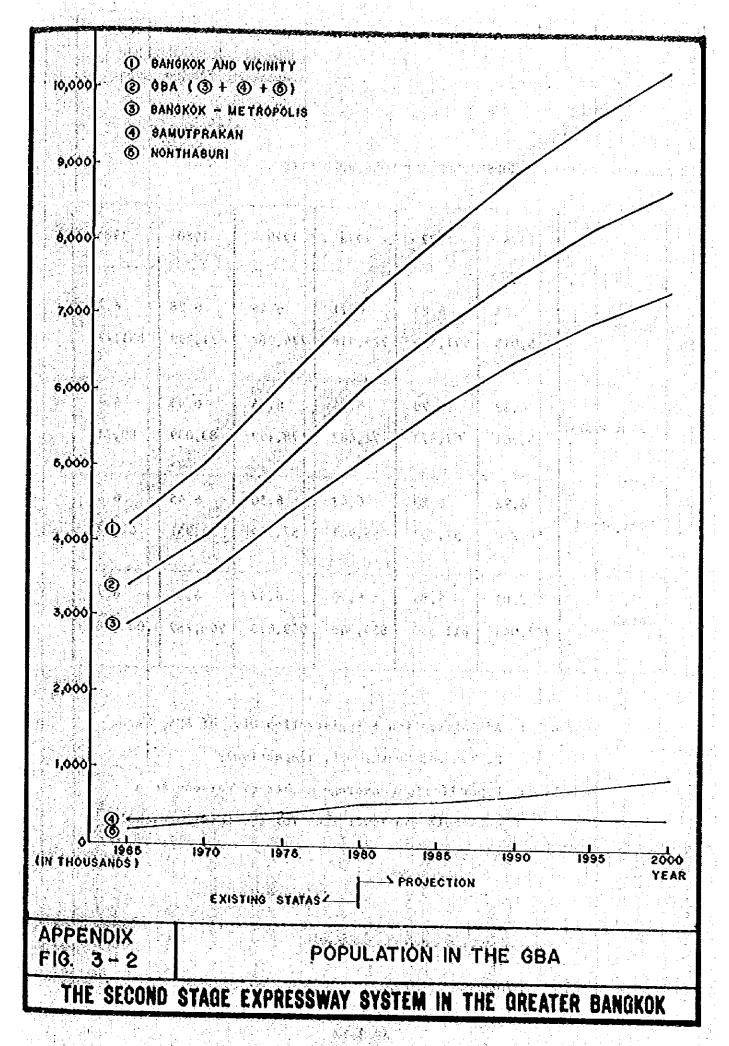
A. POPULATION BY REGION

Year	1965	1970	1975	1980	1985	1990	1995	2000
Whole-Kingdom	30,568	36,370	41,388	46,455	51,301	55,345	59,580	62,868
Central	5,565			8,500	Action of the contract of	10,547		i de la companya de
East	1,841	2,114	2,447	2,891	3,477	1 2 1 1 2 1 2 1	4,849	
Kest	2,569	2,778	3,021	3,210	3,329	3,385	3,441	3,592
North-East	10,217	12,755	14,606	16,433	18,122	19,453	20,801	21,700
North	6,616	7,894	8,795	9,667	10,449	11,048	11,650	12,222
South	3,760	4,510	5,140	5,754	6,336	6,802	7,269	7,598
	l.							

B. AVERAGE POPULATION GROWTH RATE BY REGION

		DI VEGION	<u> 1991 - I ger</u>	<u> </u>	(in t	housand)
1965- 1970	1970- 1975	1975- 1980	1980- 1985	1985- 1990	1990- 1995	1995- 2000
3,54	2.62	2,34	2.00	1.53	1.49	1.08
2.57	3.15	2.87	2.44	1.92	1.87	0.68
2.80	2.97	3.39	3.76	3.40	3.36	3.61
1.58	1.69	1.22	0.73	0.33	0.33	0.86
4.54	2.75	2.39	1.98	1.43	1.35	0.85
3.60	2,19	1.91	1.57	1.12	1.07	0.96
3.70	2.65	2.28	1.95	1.43	1.34	0.89
	1965- 1970 3,54 2,57 2,80 1,58 4,54 3,60	1965- 1970- 1970 1975 3,54 2.62 2,57 3,15 2,80 2.97 1,58 1,69 4,54 2,75 3,60 2,19	1965- 1970- 1975- 1970 1975 1980 3,54 2.62 2.34 2,57 3.15 2.87 2,80 2.97 3.39 1,58 1,69 1,22 4,54 2.75 2.39 3,60 2,19 1,91	1965- 1970- 1975- 1980- 1970 1975 1980 1985 3.54 2.62 2.34 2.00 2.57 3.15 2.87 2.44 2.80 2.97 3.39 3.76 1.58 1.69 1.22 0.73 4.54 2.75 2.39 1.98 3.60 2.19 1.91 1.57	1965- 1970- 1975- 1980- 1985- 1970 1975 1980 1985 1990 3,54 2.62 2,34 2,00 1.53 2,57 3,15 2,87 2,44 1.92 2,80 2,97 3,39 3,76 3,40 1,58 1,69 1,22 0,73 0,33 4,54 2,75 2,39 1,98 1,43 3,60 2,19 1,91 1,57 1,12	1965- 1970 1976- 1975 1980- 1980 1985- 1990 1995- 1995 3.54 2.62 2.34 2.00 1.53 1.49 2.57 3.15 2.87 2.44 1.92 1.87 2.80 2.97 3.39 3.76 3.40 3.36 1.58 1.69 1.22 0.73 0.33 0.33 4.54 2.75 2.39 1.98 1.43 1.35 3.60 2.19 1.91 1.57 1.12 1.07





APPENDIX TABLE 3-4 HOUSEHOLDS AND HOUSEHOLD SIZE

	1976	1977	1978	1979	1980	1981
Bangkok	7,04 646,013	6.87 691,550	6,71 725,918	6.46 774,082	6.28	6,26 851,290
Samut Prakan	6.82	6,90 67,473	6.74	6,54 78,199	6.45 83,039	6.25 89,214
Nonthabur1	6.92 50,270	6.80 52,307	6.47 55,941	6.50	6.45 59,951	62,783
Total	7.01 762,044	6.86 811,330	6.70 854,348	6.47 909,670	6.30 964,289	6,29 1,003,287

: Administration & Registration Div. of BNA, Samut Source Prakan and Nonthaburi, respectively.

Remarks : Upper line is for average number of persons in a household and lower line for the total household, number,

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CONTRACTOR OF CALCULATION OF THE COLUMN	小家子等四百五五八五四人人 古事者由日
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TODGET TO OMOCNO TOTACH	
LEDGALL TO CALOCKE I GELOCITE	

	9261		2261		1978		1979	•	1980	
1. Aggiculture, Fishing and Forestry Bunting		\$,773.6 (60.0)	0.701.5	(57.6)	6,291.9	(36.6)	6,301.0	(27.75)	8; 9,333:8	(522.8)
2 Mining and Quarrying	26_1 26_1 (0.3)		(7:3) 1 47		17.0		38.0		32.6 (0.3)	
3. Manufactucing	(10.6)	(13-3)	1.128_6 (10.6)	(1.41)	1,270.3	(14.3)	1,514.2 (0.51)	(16.7)	1,585.4 (13.12)	(16.9)
4. Construction, Repair and Demolfition	(7:Z) (7:Z)		3277.4		307.9		398.3		427.0 (3.6)	
5. Electricity, Gas, Water and Sanitary Services	(\$ 0) 9 77		(5.5)		58.2 (0.5)		\$2.50 (C-0)		6.68 (6.0)	
6. Commerce	942-6		7:07:10		1.164.1		1.247.8		1,375.2	医硫基甲基甲基二
7. Transport, Storage and Communication	318.3	(26.7)	367.6	(28.4)	375.6 (3.4)	(29.2)	(3.6)	? 8	(3.7)	6. 8. 8.
8. Services	1,269.8 (13.2)		1,443.0		1,655.7		1,668.1 (14.3)		(9.71)	
9. Activities not adequately described			(0.0)						\$.0 (0.0)	
10. Total 1)	9,630.3 (1100.0)	(0.001)	10,631.3	(100.0)	11,140.7 (0.00.0)	(0.00)	11,635.7	(100.0)	11,986.3 (000:0)	(100-0)
11. Total including unpaid family workers	18,410.9	(9:27)	20,308.1	(.6.5.3)	21,738.1	(1:87)	21,229.5	(76.0)	22,523.9	(48.0)
12. Population 13. Employment Rate (10/12)	43,213.7	(100.0)	44,272.7	(100.0)	45.221.6	(100.0)	46,113.8	(100.0)	2.196.97	(100.0)
To A the District of the Control of	2		1 6 6 4 4 5	A001 200			*			

Source: NSQ. Reports of the Labour Force Survey Round 2,1976-1980, respectively.

EMPLOYED PERSONS BY INDUSTRY IN BANGKOK

	1976	And the second s	1977		1978	60	1979		1580	
1. Agriculture, Fishing and Forestry Hunting		69.0 (5.5)	78.2	(4.9)	106.0	(6.5)	7 88	(4.7)		(3.8)
2. Manufacturing 3. Manufacturing 4. Conscruction, Repair and Demolitrion	0.0) 337.65 (0.0) (0.92	0.6 (0.0) 337.6 (31.8) (27.0) 59.0 (4.7)	(0.1) (0.1) (23.0 (28.3) 80.4 (5.4)	(31:6)	1.1. (0.1) 558.7 (30.9) 85.4 (4.7)	(35.7)	1.2 (0.1) 554.5 (29.6) 163.8 (5.5)	(35.23)	(0.0) (0.0) 593.4 (29.8) 108.8 (5.5)	(35.2)
5. Electricity, Gas, Water and Sanitary Services 6. Commerce 7. Transport, Storage and Communication 8. Services 9. Activities not adequately described	22.1 (1.6) 313.8 (25.1) (25.1) (7.0) (28.9) (0.0)	22.1 (1.6) 13.8 25.1) 25.1) (7.0) (7.0) (7.0) (7.0)	21.4 (1.4) (27.1) (27.1) (7.5) (7.5) (31.7) (31.7)	(\$ ° £9)	20.9 (1.2) (24.4) (24.4) (6.4) (6.4) (6.4) (26.4) (26.4)	(5.88)	25.7 (1.45.5 (24.3) (24.3) (6.8) (5.8) (27.5) (0.0)	((09)	25.1 (1.3) (25.0) (25.0) (6.3) 566.3 (28.4) (0.0)	(61.0)
100 TOCAL TOCAL STATE OF THE ST	1,251.0 (100.0)	(100.0)	1,595.8 (100.0)	(100.0)	1,808.0 (100.0)	(100.0)	1,872.2 (100.0)	(0.001)	1,994.1	(0.001) 1.266,
<pre>11. Total including unpaid family workers 12. Population 13. Employment Rate (10/12)</pre>	1,449.3 (31.9), 4,545.6 (000.0)	(31.9) (200.00) (27.5)	1,934,4 (40.6) 4,742.8 (100.0) (33.6)	(40.6) (100.0) (33.6)	2,138.9 (43.9) 4,870.5 (100.0)	(43.9)	2,194.7	(43.5) (100.0) (37.4)	2,330.6	(45.2) (100.0) (38.7)

Source: NSO, Report of the Labour Force Survey Round 2, 1976-1980, respectively Note: 1) Excluding unpaid family worker.

APPENDIX TABLE 3-8 EMPLOYED PERSONS IN THE GBA, 1982

	Employed Pe Residential		Employed Po Places	ersóns at Work
Bangkok Metropolis	2,128.6 (39.02) B	2.052.9	2,148.4 ((100.9%))	A 75.7 (3.52) B 2,072.7 (96.52)
Nonthäburi	101,5 (25,02)	44.3 (43.62)	96.3 ((94.92))	Á 44.3 (46.02)
	B	57.2 (56.4%) 55.8		B 52.0 (54.0%)
Samut Prakan	170,4 (30,02) B	(32, 72) 114.6 (67, 32)	[66,3 ((97.62))	(33.6%) B 110.5 (66.4%)
Total=Area	2,400,5 (37,32)	175.8 (7.3%)	2,411,0 ((100, hz))	A 175,8 (7.32)
	B	2,224.7 (92.72)		B 2,235.2 (92.72)

Source: ! Estimated by the Team

Remarks: () percent in the population (()) a ratio of those at work places/residential places 1) A is agriculture and others in the primary sector. The persons in 1982 were assumed to be equal to those in 1980. Those in 2000 were estimated by the average area per employed person of the sector in 1980 and the agricultural area approximated by studying the new Structural Plan 2000.

2) B is other sectors excluding A above. The ratio of employed persons at work places over those at residential places in 2000 was assumed to be equal to that in 1980 (excluding agriculture and others in the

o in the company of t

primary sector)

APPENDIX TABLE 3-9 EMPLOYED PERSONS IN THE GBA, 2000

	:				In thousand)
		Employed P Residentia	ersons at 1 Places	Employed Pe Places	rsons at Work
Bangkok Metropolis	and the statement of th	3,034,4 (41,2%)	A 64.6 (2.1%) B 2,969.8 (97.9%)	3,063.6 ((100.92))	A 64.6 (2.12) B 2,998.4 (97.92)
Nonthaburi	And the second of the second o	112.9 (26.5%)	A 37.0 (32.82) B 75.9 (67.22)	106.0 ((93.92))	A 37.0 (34.9%) B 69.0 (65.1%)
Samut Prakai		317.0 (33.92)	A 49.4 (15.6%) 8 267.6 (84.4%)	307.4 ((97.02))	A 49.4 (16.12) B 258.0 (83.92)
Total Area		3,464.3 (39.72)	A 151.0 (4.42) B 3,313.3 (95.62)	3,476.4 ((100.3Z))	A 151.0 (4.3%) B 3,325.4 (95.7%)

Source and Notes : See Appendix Table 3-8

				1982			1000	
Zone No.	Zone Name	Area (ha)	Residen- tial Popula- tion	Population Density a (persons/ Ha)	Persons	Residen- tial Popula- tion	Population Density (Persons/	Pere at k
1,		165	9,260	56	30,730	12,850	78	
2.		317	89,250		154,580	123,820	391	154
3.		193	188,500		175,370	235,760	1,222	175
4.		214	98,780		158,190	131,870	616	158
5.		107	140,280	1,311	6,710	140,280	1,311	6
6.		431	102,490	238	14,260	174,240	404	14
7. 6		527	123,070	234	23,910	200,660	381	23
8.		1,156	167,490	145	31,340	347,490	301	31
9.		92	42,540	462	16,860	64,200	698	31
10.		239	247,370	1,035	36,430	247,370	1,035	36
11.		351	49,400	141	53,230	74,560	212	62
12.		920	186,210	202	56,890	281,070	306	61
13.		270	90,750	336	55,260	111,950	415	80
4.		218	129,130	592	28,360	159,270	731	30
15.		349	16,630	48	68,620	20,510	59	115
6.		264	60,500	229	91,170	74,260	281	103,
7.		289	80,766	279	162,360	99,120	343	170.
8.		759	169,270	223	46,180	169,270	223	62,
9.		862	98,260	114	14,690	98,260	114	47,
0.		404	40,100	99	15,530	63,460	157	40,
1.		1,666	82,480	50	44,560	155,620	93	109,
2.		570	25,140	44	49,890	36,750	64	49,
3.		1,807	190,940	106		266,250	147	99,
4		3,291	169,330	31		246,730	75	186,
5,		5,979	116,490	19	William and the first	190,180	32	54,
5.		7,661	147,210	19	(d. A. Salabata, 🌬	178,370	23	22,
		3,048	66,590	22	್ಕ⊁್ ಕಿಕ್ಕಿ ಕಿಕ್ಕಿಗೆ ∤್ನ	113,810	37	
		3,244	120,240	37	しゃりおくとはしい	179,480		50,4
		5,308	58,830	11	NA Production	122,580	23	104,8
		1,682	15,180	9	1,740	15,180	9	31,1
		1,646	32,020	19	25,400	47,090		1,7
		413	50,080	121	34,650	50,080	29	25,4
		375	48,120	128	47,850		121	4,6
		627	74,870	119	20,280	48,120	128	47,8
			AD	3-18		96,130	153	38,2

			liji dan bil Ni dabaka	1982			2000	
e	Zone Name	Area (ha)	Residen- tial Popula- tion	Population Density (persons/ Ha)	Employed Persons at Work Places	Residen- tial Popula- tion	Population Density (Persons/ Ha)	Persons at Work
		203	22,370	110	11,910	28,710	141	22,48
		662	81,380	123	31,730	81,380		46,09
		1,954	67,390	34	4,350	67,400		11,92
Ý)	數學的數學的數學 實際的一個人的實際	4,592	151,090	33	55,800	205,350	1	55,80
		2,742	29,660	11	7,070	86,600	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16,27
		2,785	37,910	14	2,750	45,420	16	7,81
 		17,433	60,560	3	16,170	88,230	5	33,45
4		12,386	45,960	4	18,380	60,980	5 1 5 1	54,67
		23,625	53,210	2	18,300	66,800	3	24,18
		1,279	142,580	111	33,340	189,090	148	75,53
		1,052	252,630	240	17,870	288,910	275	30,88
1		618	104,720	169	20,980	134,710	218	39,47
		204	65,770	322	20,060	65,770	322	20,06
		401	72,690	181	16,640	125,060	312	36,60
		148	53,330	360	10,210	61,930	418	25,03
		335	107,150	320	22,110	144,030	430	38,92
		380	112,730	297	17,080	170,180	448	34,20
		4,287	125,410	29	57,240	190,530	44	57,24
		18,116	222,630	12	54,010	281,350	16	54,01
		10,223	247,520	24	73,010	309,330	30	73,01
		7,970	73,720	ġ	8,220	96,630	12	10,55
	Bangkok	156,842	5,457,970	35	2,148,400	7,365,030	47	3,063,00
		4,086	91,740	. 22	14,370	190,150	47	14,37
		10,090	53,050	5	23,880	78,280	8	23,88
		2,472	57,110	23	19,070	145,600	59	29,63
		18,092	215,210	12	61,900	430,350	24	165, 29
		25,118	68,160	3	18,720	58,080	2	36,36
		8,336	16,320	2	6,920	12,640	2	12,26
		22,900	66,440	3	21,440	20,390	1	25,56
	Samut Prakar	91,094	568,030	6	166,300	935,490	10	307,35
		1,379	28,510	21	4,380	13,320	10	4,38
i				AP 3-19		1		3-10-

A Comment of the control of the comment of the control of the control of the comment of the control of the cont

				1982			2000	
Zone No.	Zone Name		Residen- tial Populá- tion	Population Density (persons/ Ha)	Employed Persons at Work Places	Residen tial Popula- tion	Population Density (Persons/ Ha)	Employ Person at Wor Places
64.		4,669	26,980	6	3,800	26,980	6	
65.		3,850	138,880	36	27,970	 ■ 4.6 (2.7) (2.7) (3.7) (3.7) 	50	32,
66.		8,239	57,060	3	8,790	I portugalo balanga	11	, , ,
67.		4,504	50,010	11	15,060	1. 9.80,花式写: 前径1.美丽。		15,
68.		42,820	104,410	2	36,300			41,
	Nonthaburi	65,461	405,850	6.	96,300	425,540		
on al	The GBA					X 1. (5) . (5)		106,
		313,397	6,431,850	21	2,411,000	8,726,060	28	3,476,
			** *					
						년원인 등 도함(31분)		
						H 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		

APPENDIX 3.1 POPULATION AND EMPLOYMENT IN THE GBA AND

3.1.1 Population

TCP provided Tambon-wise population forecast for 1986, which was used for the 5th 5-Year Plan. Using the data together with the population in 1980, the annual average growth rate from 1980 to 1986 in each Tambon is calculated. It is used to determine the population in 1982 which in turn is reclassified into the population of traffic zones. The zonal population in 1982 is shown in Appendix Table 3-10.

The population forecast by Amphoe in 2000 was provided by TCP likewise. The zones designated as the core district were assumed not to change its percent share to the population of the total zones. The percent shares of these zones in 1982 were used to estimate those in 2000.

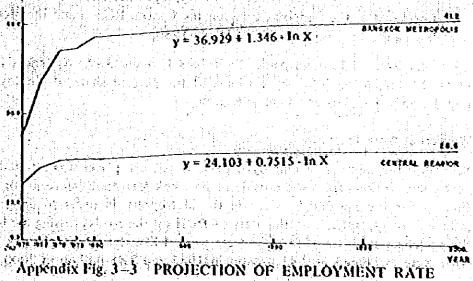
In the zones outside the core area, different population density was assumed for each unit area of classified land uses. They were determined by studying the available data. The assumed densities are shown in Appendix Table 3–11. These densities, classified areas (Appendix Table 3–2) and Amphoe-wise population in 2000 were used to determine the zonal population in 2000. The resultant population figures are shown in Appendix Table 3–10. Figs. 3–4 and 3–5 of the main report indicate the population density by zone in 1982 and 2000, respectively.

3.1.2 Employed Persons

(1) Workers at Residential Places

In order to distribute the employment figures among the zones in 2000, for following forecasts were undertaken: firstly, those in residential places were determined for Bangkok, Nonthaburi and Samut Prakan by using the forecasted trends in Bangkok and Central Region.

Bangkok; A regression analysis and its extrapolation were applied as in Appendix
 Fig. 3-3. The parameters were estimated as follows:



APPENDIX TABLE 3-11 POPULATION DENSITY BY LAND UTILIZATION, 2000

(Persons/ha)

	Inner Urban District	Suburban District	Rutal District
Residential High Density	800	240	
Residentiat Medium	400	120	6月80岁明显别《鲜嫩多》 于台户建设资料《新香》(
Residential Low	200	60	40
Commercial	400	120	80
Industrial	200	60	40
Government Institutes Utilities	50	10	1. 14 4 5 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Religions	50	10	
Park & Open	50	10	· 斯林斯 排入的新的
Agricultural Belt & Rural	10	.	
Satellite Town	gen na Grade en 19 Na kolage e	120	80

Central Region

Y = 24.103 + 0.7515 InX ; (r = 0.949)

Bangkok

Y = 36.929 + 1.346 lnX ; (f = 0.879)

Employed persons living

X

Relative coefficient

Nonthaburi; The percent share of employed persons to the population of the Central Region was considered applicable to the Nonthaburi case by reviewing the data in the period of 1976-1980.

- Samut Prakan; The percent share of employed persons to the population in 2000 was assumed at the midpoint between the Central Region and the Metropolis after reviewing the data in the period of 1976-1980.

These results are shown in Appendix Tables 3-8 and 3-9. Appendix Fig. 3-3 presents the forecasted long range trends of the percent share of employment to the population of Bangkok and Central Region.

(2) Workers at Work Places

Secondly, the number of employed persons at work places was estimated by adding net inflow workers from the outside of Bangkok Metropolis since major work opportunities for them would be given in the Metropolis. In order to determine the net inflow workers, traffic counting data of DOII on the roads crossing the boundary and the passenger statistics of railways were studied likewise. Those at work places in the GBA were estimated at 2.41 million in 1982 and 3.48 million in 2000, as shown in

Appendix Tables 3-8 and 3-9. These overall employment opportunities were divided into major categories of industries. In the agriculture sector, employed persons were determined by the unit figure of 1.41 ha per worker (0.71 persons per ha), which was taken from the classified land area of Bangkok in 1980 (Table 3-1) and from the labour statistics of 1980.

By deducting the workers in agriculture from the total workers in each province, those in the secondary and tertiary workers could be estimated. They are shown in Appendix Table 3-12.

(3) Zonal Employment at Work Place in 1982

Zonal distribution of workers at work place in 1982 was estimated by the classified areas in ha (Appendix Table 3-1) and the Tambon-wise result of labour survey in 1978 1)

The surveys indicated that a half of government officers were within the Pranakorn District in 1978. The same percentage was used for 1982. The remaining half was assumed to be distributed among the zones in proportion to that of population in 1982.

The workers except the government officers were assumed to be located among the zones at the same percentage with that of 1978. The workers in agriculture was estimated by using 1.41 ha per person.

(4) Zonal Employment at Work Place in 2000

The classified areas in ha (Appendix Table 3-2) and unit figures in the following statement were used to estimate the workers at work places by zone in 2000.

- Agriculture; Area in ha and 0.71 persons per ha were applied. (same as in 1982)
- Manufacturing; Employees in the manufacturing industry were determined at 200 m³ per worker for 2000 by feviewing the plans of three industrial estates (Bang Chan, Lat Krabang and Bang Poo). The figure was assumed to cover those in the secondary and service sectors on the classified land use.
- Service Sectors: Employed persons in commercial areas for 2000 were determined by applying the figures in Appendix Table 3-13 to the area classified. They were assumed emplrically and by field observation.

APPENDIX TABLE 3-12 EMPLOYMENT AT WORK PLACES IN MAJOR INDUSTRIES: 2000

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		on ola		but	•			Č			7.0							69 325	19.				6.0			
•	7		بينت	alice d	2 (1) 20 - 3	·			-		ر ۾ راني		315					253	.4			3,47	6.4		-	

¹⁾ Tech. Planning Div. Labor Dept., Industrial Labor Survey 1978.

APPENDIX TABLE 3-13 EMPLOYED PERSONS ON COMMERCIAL AREAS

Item	Net Com & Buss, area	coverage Building	No. of floors	Com & Bus floor %	Building Noor per person m ²	Employed persons per ha
Inner core	60	80	: 4	80	15	1,024
Core area	60	80	2	70	15	672
Inner urban	60	70	2	70	15	392
Suburban	60	60	and grade	70	15	168
Rural	60	50	1	70	15	140

- Residential Areas; Employed persons in residential areas were distributed among the zones by the area in ha of residential uses. In the high density residential area 8 persons per ha were assumed, while 4 persons in the medium density area and 1 person in the low density and in satellite town areas.
- Government Officers; They were assumed to increase at the same rate with the population (a ratio of 1.357 from 1982 to 2000) and distributed among the zones in accordance with the growth of population.
- Don Muang Airport; Total employment opportunities are said at 10,000 persons currently. This figure was applied also to the year 2000 and to the new international airport in 2000 either in the process of construction or completion.
- Other Specific Locations; Ports, industrial zones, transport terminals, etc. were assumed to be included in the estimate of workers in the respective zones.