Population, Area and Population

Density of Jabotabek Area by Kecamatan

ANNEX 3-1 Population, Area and Population Density of Jabotabek by Kecamatan (1/3) Wilayah/ Population Kecamatan Агеа Population Density Kotamadya/ Kabupaten (1986)(km²) (per km²) DKI Jakarta 1. Selatan 300,696 32.78 Kebayoran Lama 9,173 128,095 18.35 (South) Cilandak 6,981 Pasar Minggu 256,299 46.90 5,465 Mampang Prapatan 229,122 15.96 14,356 Kebayoran Baru 199,175 12.61 15,795 Setia Budi 221,694 8.85 25,050 264,652 Tebet. 9.53 27,770 Sub-total 1,599,733 144.98 11,034 2. Timur Pasar Rebo 231,064 56.25 4,108 Kramat Jati 277,700 (East) 34.98 7,939 458,750 Jatinegara 33.77 13,585 4.85 Matraman 176,205 36,331 Pulo Gadung 229,115 13.62 16,822 119,112 1,491,946 Cakung 42.43 2,807 Sub-total 185.90 8,026 229,896 3. Pusat Tanah Abang 9.31 24,693 (Central) Mentenz 116,581 6.53 17,853 134,547 4.22 Senen 31,883 197,250 7.07 Cempaka Putih 27,900 28,547 Kemayoran 206,107 7.22 Sawah Besar 152,040 6.22 24,444 129,493 7.60 Gambir 17,039 1,165,914 Sub-total 48.17 24,204 5,303 225,442 42.51 4. Barat Kebon Jeruk (West) Cengkareng 225,015 55.32 4,068 410,406 18.49 Grogol Petamburan 22,196 243,248 150,534 5.48 44,388 Tambora Taman Sari 4.36 34,526 Sub-total 1,254,645 126.16 9,945 45.40 249,354 5,492 Penjaringan 5. Utara 250,024 25.22 9,914 (North) Tanjung Priok 285,413 27.50 10,379 Koja 161,879 3,739 Cilincing 43.29 13,584 960,254 Kepulauan Seribu 12.80 1,061 Sub-total 154.21 6,227 6,472,492 659.42 TOTAL 59,436 48,338 15,345 1. Bogor Selatan 3.150 Kodya.Bogor 52,996 4.566 2. Bogor Timur 11,607 11,219 34,778 3.100 Bogor Tengah 4. Bogor Barat 38,769 3.135 12,367 Bogor Utara 68,974 8.283 8,327 243,855 22.234 58,865 TOTAL

ANNEX 3-1 Population, Area and Population Density of Jabotabek

Alter o 1	by Kecamatan (2/3	>		
	Kecamatan	Population	Area	Population Density
		(1986)	(km²)	(per km²)
Kab. Bogor	1. Bojong Gede	105,478	68.4	1,542
	2. Caringin	59,992	68.2	879
**	3. Cariu	65,472	243.7	268
**	4. Ciampea	100,843	72.6	1,389
1.	5. Ciavi	90,373	73.9	1,223
	6. Cibinong	80,046	67.2	1,191
** *** *** *** *** *** *** *** *** ***	7. Cibung Bulang	153,283	155.8	983
	8. Cigudeg	88,186	299.5	294
2 to	9. Cijeruk	108,042	101.0	1,070
	10. Cileungsi	105,506	163.5	645
	11. Cimanggis	113,629	53.4	2,127
	12. Ciomas	237,817	97.8	
	13. Cisarua	105,431	145.1	726
	14. Citeureup	119,965	161.5	742
to a	15. Gunung Putri	65,343	63.5	
	16. Gunung Sindur	42,517	48.0	885
	17. Jasinga	69,465	214.5	324
	18. Jonggol	115,890	324.3	357
	19. Kedung Halang		66.i	2,248
4 1	20. Leuwiliang	103,089	112.3	918
	21. Nanggung	46,273	278.2	166
	22. Parung	99,772	80.6	1,237
	23. Parung Panjang		143.7	527
	24. Rumpin	60,273	131.8	457
	25. Sawangan	103,147	69.1	1,492
•	26. Semplak	134,526	73.6	
	(Kotip. Depok)	250,420	63.3	3,957
	27. Beji	n.a.	n.a.	n.a.
	28. Pancoran Mas	n.a.	n.a.	n.a.
	29. Sukma Jaya	n.a.	n.a.	n.a.
	200 Daniia Jaja			
TOTAL		2,849,160	3440.6	<u>829</u>
Kab. Tangera	ng 1. Tangerang	139,148	32.52	4,279
 ,	2. Batu Ceper	99,178	34.90	2,842
	3. Teluk Naga	113,597	70.32	1,615
	4. Serpong	101,096	79.73	1,268
45.3	5. Ciputat	168,542	63.31	2,662
•	6. Ciledug	98,868	25.49	3,879
	7. Curug	53,722	45.75	1,174
	8. Legok	83,724	93.39	896
	9. Cikupa	84,407	79.98	1,055
	10. Balaraja	79,592	64.73	1,230
	11. Tigaraksa	62,543	77.91	803
	12. Kresek	62,319	58.55	1,064
	13. Kronjo	56,459	67.19	840
	14. Mauk	101,999	136.00	750
	15. Sepatan	132,159	142.34	928
	16. Rajeg	53,669	56.45	951
	17. Pasar Kemis	60,902	91.41	666
	18. Pondok Aren	60,268	29.36	2,053
	19. Cipondoh	90,778	39.70	2,287
	20. Jati Uwung	84,211	35.66	2,361
	21. Cisoka	73,514	72.26	1,017
TOTAL		1,860,695	1,396.95	1,332
IVING	•	1,000,000	1,000.00	1,004

Population, Area and Population Density of Jabotabek ANNEX 3-1

	by Kecamatan (3/3)				
Kecamatan		Population	Area	Population Density	
		(1986)	(k m²)	(per km²)	
Kab. Bekasi	1. Setu	53,352	67.09	795	
	2. Cibarusah	50,425	85.02	593	
	3. Lemah Abang	106,092	111.42	952	
	4. Cibitung	94,309	90.24	1,045	
	5. Tambun	109,723	66.96	1,639	
	6. Pondok Gede	144,292	72.99	1,977	
	7. Taruma Jaya	31,462	50.69	621	
•	8. Balelan	56,186	52.53	1,070	
	9. Sukatani	69,511	77.89	892	
	10. Cikarang	119,250	83.70	1,425	
	11. Pebayuran	61,507	83.91	733	
	12. Cabang Bungin	35,566	60.58	587	
	13. Serang	56,373	87.14	647	
	14. Bekasi Barat	85,329	21.84	3,907	
•	15. Bekasi Utara	43,019	15.94	2,699	
	16. Bekasi Timur	106,084	27.95	3,795	
1	17. Bekasi Selatan	104,481	25.34	4,123	
	18. Tambelan	48,156	89.27	539	
÷	19. Muara Gembong	17,426	104.01	168	
	20. Bantar Gebang	43,854	53.30	823	
TOTAL _		1,436,397	1,327.81	1,082	

Source:

- (1) Jakarta Dalam Angka 1987 (Jakarta in Figures 1987)
 (2) Biro Pusat Statistik
 (3) Data Pokok Untuk Pembangunan, Bappeda Bogor
 (4) Statistical office of Kabupaten Tangerang
 (5) Statistical office of Kabupaten Bekasi

Number of Closed Markets, Groups of Shops,
Banks and Factories in Jabotabek Area by Kecamatan

ANNEX 3-2 Number of Closed Markets, Groups of Shops, Banks

		botabek by Kecar		
Kecamatan Ne	o. of Glosed Markets	No. of Groups of Shops	No. of Banks	No. of Factories
DKI Jakarta	Harness	01 511048	Danno	140 001 163
Kebayoran Lama	2	42	0	59
Pasar Minggu	3	20	ŏ	29
Mampan Prapatan	ĭ	25	ŏ	16
Kebayoran Baru	7	16	ĭ	1
Setia Budi	? ?	23	Ô	65
Tebet	3	2	. 0	10
Cilandak	3	$2\overset{2}{3}$	0	14
	(26)			
(Selatan)	(20)	(151)	(1)	(194)
Pasar Rebo	3 4	12	0	72
Kramat Jati		25	o .	26
Jatinegara	12	. 29	. 1	177
Matraman	1	1	0	22
Pulo Gadung	12	19	0	14
Cakung	4	8	0	77
(Timur)	(36)	(94)	(1)	(388)
Tanah Abang	6	7	1	12
Menteng	4	, 9	2	. 8
Seneng	5	4	0	4
Cempaka Putih	3	4	. 0	33
Kemayoran	5 5	16	0	22
Sawah Besar	5	16	1	32
Gambir	3	. 18	1	3
(Pusat)	(31)	(74)	(5)	(114)
Kebon Jeruk	4	iÂ	ŏ	51
Cengkareng	5	20	Ŏ	139
Grogol Petamburan	5	12	ŏ	27
	8	25	4	67
Tambora	9		2	
Taman Sari		32		(200
(Barat)	(31)	(103)	(6)	(286)
Penjaringan	4	10	0	97
Tanjung Priok	4	9	0	42
Koja	10	10	0	37
Keplauan Seribu	0	0	0	0
Cilingcing	. 3	3	0	23
(Utara)	(21)	(32)	(0)	(199)
Cub-total	145_	454	13	1181
Sub-total_	140	707		
Kab. Bogor	; •	9	0	66
Jasinga	1	2		
Cigudeg	1	8	0	5
Leuwiliang	1	2	0	29
Cibung Bulang	0	15	0	122
Ciampea	1	3	0	40
Semplak	2 2	1	. 0	17
Ciomas		0	0	39
Cijeruk 🛴	. 2	. 0	0	127
Kedung Halang	. 1	3	0	192
Ciavi	1	1	0	28
Cisarua	1	2	0	3
Cariu	$\tilde{3}$.	$\overline{0}$	0	101
Jonggol	ĺ	ĭ	ő	7
Cileungsi	1	0	ő	66
Citeureup	3	4	ŏ	123
Gunung Putri	ĭ	0	ŏ	74

ANNEX 3-2 Number of Closed Markets, Groups of Shops, Banks

and	Factories in Ja	botabek by Keca	matan (2/3)	
	No. of Closed	No. of Groups	No. of	No. of
Kecamatan	Markets	of Shops	Banks	<u>Factories</u>
Cibinong	1	5	0	67
Cimanggis	2 2 2	8	0	61
Sawangan	. 2	(0	7
Parung	0	4	0	15
Gunung Sindur	2	2	0	6
Rumpin Parung Panjang	1	0	ŏ	49
Nanggung	1	$\overset{\mathtt{o}}{2}$	ŏ	1
Bojong Gede	4	Õ	ŏ	8
Caringin	2	10	ŏ	29
Pancoran Mas	$\ddot{\tilde{2}}$	3	Ŏ	11
Beji	ō	7	Ŏ	9
Sukma jaya	ľ	2		22
Da Amerika a		:		the state of the s
Sub-total	42_	93	0_	1,331
	f	April 1		
Kodya. Bogor				
Bogor Selatan	- 0	2	0	27
Bogor Timur	2	3	0	11
Bogor Tengah	3 2	14	. 0	7
Bogor Barat		3	0	5
Bogor Utara	3	2	0	32
				200
Sub-total	10	24	0	82
•			*	and the second
Kab. Tangerang			• •	
Tigataksa	0	0	0	6
Cikupa	2	2	0	117
Curug	1	2	0	46
Legok	0	0	0	· 9
Serpong	4	3	0	41
Ciputat	7	. 19	0	36
Pasar Kemis	$_{ m a}$ \sim 1 $_{ m c}$	2	0	29
Balaraja	4	4	0	139
Kresek	4	4	0	58
Kronjo	1	Ţ	0	17
Mauk	4	4	0	93
Rajeg	1	0	0	45
Sepatan	5 2	2	0	90
Teluk Naga		7	0	50 6
Pondok Aren	0	0	0	43
Cisoka	1 3	2 5	0	15
Ciledug	3 4	12	0	110
Tangerang	3	6	0	98
Batu Ceper Cipondoh	0	1	0	22
Jati Uwung	1	9	0	162
Sub-total	48	88	0	1,232
			:	

ANNEX 3-2 Number of Closed Markets, Groups of Shops, Banks and Factories in Jabotabek by Kecamatan (3/3)

and ractories in Japotabek by Recamatan (3/3)					
	No. of Clo		Groups	No. of	No. of
Kecamatan	Market	s of S	hops	Banks	<u>Factories</u>
Kab. Bekasi					
Setu	2		2	0	0
Cibarusah	1		0.	0	. 5
Lemah Abang	4		0	0	155
Cibitung	2		6	0	25
Tambun	1	4 - 4	3	0	112
Pondok Gede	4	+	13	0	3
Taruma Jaya	0		0	. 0	0
Babelan	2		2	0	1
Sukatani	1		0	0	97
Cikarang	3		2	0	90
Pebayuran	0		0	0	97
Cabang Bungin	.1		0	0	7
Bantar Gebang	. 1		5	0	27
Serang	0		0	0	10
Tambelang	1		5	0	5
Muara Gembong	. 0		0	0	0
Bekasi Timur	2		3	0	31
Bekasi Selatan	2	•	7	0	20
Bekasi Barat	0		12	0	33
Bekasi Utara	1		1	Ō	27
			-		
Sub-total	28	-	<u>61</u>	0	745_
Jabotabek Total	273	<u> 7</u>	20_	13	4,571

Source: "Sensus Ekonomi 1986, Potensi Desa", Cipta Karya

Number and Area of Housing and Industrial

Projects in Botabek Area by Kecamatan

Kabupaten/ Kotamadya	Kecamatan	Hou	sing	Industri	al
		Number	Area (ha)	Number	Area (ha)
Kab. Bogor	Cileungsi	7	401	7	25.8
	Ciomas	9	52	· · · · · · · · · · · · · · · · · · ·	•,
	Sukma Jaya	9	78	1	1,2
	Beji	8	55	2	5.0
	Pancoran Mas	7	68	~	-
	Kedung Halang	19	614	2	11.
	Gunung Putri	7	189	17	31.
	Savangan	9	239		. •
	Citeureup	1	4	4	8.
1 1	Cimanggis	26	385	4	4.
	Ciawi	2	3	• • ·	-
	Semplak	4	16	-	•
	Bojong Gede	3	151	e e e e e e e e e e e e e e e e e e e	
	Cibinong	3	80	1	0.
	Cijeruk	3	121	1	4.
	Parung	1	_2	1	18.
	Cisarua	2 2	56	-	-
1.5	Gunung Sindur	2	36		· · · · •
The state of the s	Cigudeg	. 1	70	1	15.
	Leuwillang	· . -	-	1	1.1
	Parung Panjang	. •	-	1	2.
	Cilanghap	. · · -	•	1	3.
* * * * * * * * * * * * * * * * * * * *	Rumpin			1	24.
	Sub-total	<u>123 </u>	2,620	45_	156.
Kodya, Bogor	and the second s	5	25	·	
Kab. Tangerang	Cipondoh	33	5,109	1	2.
	Ciputat	19	679	~	-
	Cileduk	11	233	-	· -
	Serpong	14	2,947	1	100.
	Cikupa	\mathbf{i}	42	32	114.
	Curug	. 8	1,560	9	13.
	Legok	11	10,000	2	35.
• * ·	Jati Uwung	9	435	78	86.
	Pondok Aren	6	971	-	-
	Tangerang	9	262	15	10.
12 miles	Pasar Kemis	6	175	13	88.
	Batu Ceper	2	80 .	21	28.
	Teluk Naga	1	40	2	0.
	Balaraja	-	•	1	0.
	Others (2	4	1,225	-	_
	Sub-total	134	23,758	175	480.

Kabupaten/	Kecamatan	Hous	sing	Industri	al
Kotamadya		Number	Area (ha)	Number	Area (ha)
Kab. Bekasi	Bekasi Selatan Bekasi Timur	22 8	686 200	11	31.1 1.0
1	Bekasi Utara Bekasi Barat	6 12	107 427	10	2.5 40.8
	Pondok Gede Babelan	37 3	542 33	2 6	30.0 24.0
	Tambun Cibitung	8	73 73	4	$\frac{4.3}{22.7}$
	Bantar Gebang Lemah Abang		20 50	6	9.3 4.0
	Cikarang Sub-total	1 106	5 2,216	46	169.7
Jabotabek	- · ·	368_	28,619	_266_	807.1

Note (1: Number and area of housing and industrial projects to which permissions were given by West Jawa government between 1983 and 1987

(2: Names of Kecamatan were not given

Source: Inventarisasi Pembangunan,

Perumahan dan Industri di Wilayah Botabek

Oktober 1987

Direktorat Tata Kota dan Tata Daerah

Direktorat Jenderal Cipta Karya

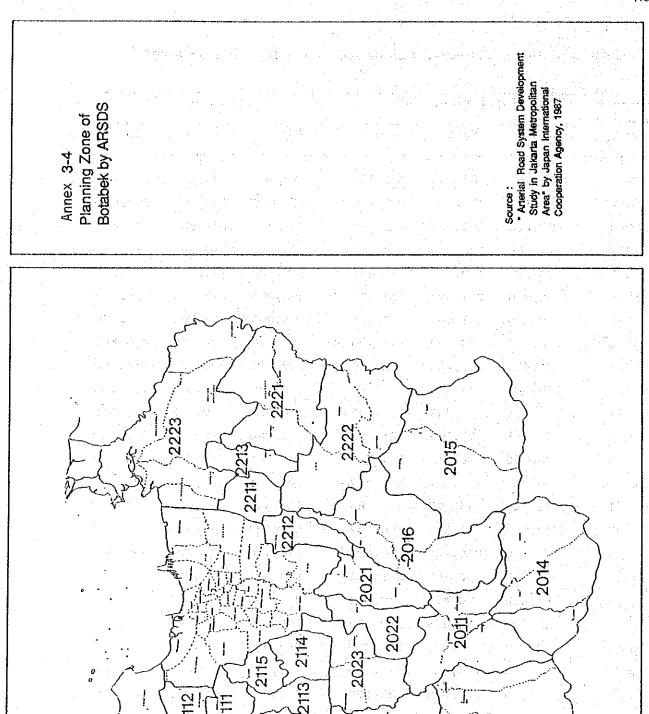
Departemen Pekerjaan Umum

Urban and Rural Population of Botabek Area by ARSDS

ANNEX 3-4 Urban and Rural Population of Botabek Area by ARSDS 1/

Number of Planning	Por	oulation,	1985	Popt	lation, 2	005
Zone	Urban	Rural	Total	Urban	Rural	Total
2011	695,701	87 , 805	783,506	1,115,000	96,800	1,211,800
2012	14,731	293,499	308,230	200,000	199,500	399,500
2013	107,217	303,906	411,123	220,000	337,400	557,400
2014	271,508	108,182	379,690	150,000	348,000	498,000
2015	18,002	170,470	188,472	110,000	130,200	240,200
2016	90,840	207,083	297,923	300,000	219,400	519,400
2021	239,340	103,685	343,025	375,000	199,000	574,000
2022	150,412	83,378	233,790	225,000	190,600	415,600
2023	21,402	240,408	261,810	210,000	244,100	454,100
2111	210,506	17,059	227,565	578,000	33,100	611,100
2112	92,778	13,557	106,335	198,900	19,700	218,600
2113	17,741	73,922	91,663	135,000	84,700	219,700
2114	88,766	68,588	157,354	200,100	110,700	310,800
2115	30,965	131,412	162,377	200,000	114,100	314,10
2121	38,777	474,907	513,684	136,400	545,700	682,100
2122	10,029	349,863	359,892	502,500	372,800	875,30
2123	0	210,420	210,420	274,100	224,200	498,30
2211	255,539	36,361	291,900	500,000	75,900	575,900
2212	41,510	99,473	140,983	250,000	105,600	355,60
2213	42,506	67,646	110,152	200,000	122,500	322,500
2221	50,877	285,523	336,400	597,000	260,800	857,800
2222	0	190,900	190,900	127,800	217,500	345,30
2223	0	322,080	322,080	115,200	327,700	442,90

 $[\]underline{1}/:$ Arterial Road System Development Study



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Telephone Demand by PMC Option Services

ANNEX 4-1 Telephone Demand by PMC Option Services

	٠.,		_				·	· -	4							٠.,	_	,		
	Remarks	0.1 Out of objective area		Included in KT2								-			Included in KLI					
/Macro)	2007	0-1	-8.7		-14.3	1.9-	p.4-	-11.6	-14.9	-10.6	-12.6	-13.0	-11.8	-4.2		-1.6	0.0	4.1	-11.5	
% Deviation (Micro/Macro	2002	1:7	1:9		9.6	2.3	0.4.0	-8.7	8.9-	-13.1	-10.7	-5.6	8.1-	-1.2		-2.3	2.1	4.5	-8.2	
viation	1997	-4.9	10.1		-8.4	†: [5.5	-2.3	2.2	-12.7	7.9-	-11:3	-7.3	2.3		7.7	3.6	9.5	-2.4	
» Se	1992	5.6	13.0		9.9-	5.7	1.4	2.4	7.5	-8.1	-4.3	-5.5	-7.0	5.2		-3.5	0.7	15.0	3.1	
2	2007	24,241	126,719	71	48,307	12,774	108,419	70,367	68,955	66,976	65,516	52,791	56,929	189,681		19,123	83,066	35,752	64,330	
pic Dema	2002	21,140 24,24	112,870		45,475	62,003	86,358	56,163	55,787	55,086	54,522	39,290	45,849	66,976		17,807	64,760	25, 233	47,912	saai
Microscopic Demand	1997	17,548	97,959		39,650	42,887	67,456	42,603	42,976	42,491	45,384	21,928	33,531	46,314		15,999	48,050	17,479	34,791	ion Serv
	1992	14,317	79,244		31,810	30,995	37,674	28,433	30,348	29,307	36,304	11,614	22,987	29,286		8,390	32,860	11,488	24,039	rts by PMC Option Services
emand	2007	24,226	135,776		56,339	778,577		79,557	80,989	74,932	~	60,687	64,559	93,617		19,441	83,145	34,343	72,711	ports by
scopic D	2002	21,513	88,913 110,812 13		50,329	29,310 42,313 58,686 7	89,913 11	61,525	28,226 42,035 59,869	63,414	61,070	41,608	49,723	67,756 93,		18,218	63,425	15,957 24,135	52,206	Basic Design Repo
ge Macro	1997	18,446	88,913		43,304	42,313	$37,137 \mid 62,530$		42,035	31,883 48,699	L	24,722	36,157	27,837 45,275		14,892 18,218	46,367	15,957	35,653 52,206	Basic D
Exchange Macroscopic Demand	1992	15,172	70,021		34,047	29,310	37,137	27,745 43,601	28,226	31,883	37,919 48,661	12,285	24,727	27,837		8,695	32,619	9,992	23,326	Source:
<u>.</u> ک	Area	KTI	KT2	X 33	٦ ٢	SLP	SM2	FL	СРР	RMC	8 X	K88	3 3	KL1	KL2	CNE	=	3	<u></u>	

Data for Justification of Exchange-Based Macroscopic Demand

ANNEX 4-2 Data for Justification of Exchange-Based Macroscopic Demand

Renarks		#Justified by PMC-0	+ tuotified by DMC-0	+		Governmental office area	-	Н	# Justified by PMC-0		* netitied	#Justified by FMC-U						# 1104 f pd	3				#Justified	- 1	젉	#Justified by PMC-0						*Justified by	*Justified by PMC-0			11 Snr+			
Rate D/C	1.8	2.3	6		4.8	6.	2.1		3.4	7.7	5.3	ů.	×	8.	7		2 6	0	2 8	8.3	3.3	3.4	2.3	8.4	3.4	4. 8.		9 9	2		: :	3.1	4.5	7.5			7.6		
e Demand D(2004)	22,000	120,000	52 000	19.000	38,000	73.000	105,000	10 mm	65,000	29,000	98,000	000,89	37,000	24,000	4,000		000 33	87 000	17.000	50,000	50,000	24,000	65,000	42,000	54,000	76,000	000	20,000	2000			69,000	27,000	38,000	83,000	20,000	22,000	1,616,000	
Referenc C(1987)	12,000	52,000	22 000	5,000	8,000	38.000	49,000		19,000	13,000	18,000	15,000	12,000	2,000	1,000		10 000	17,000	6.000	8,000	15,000	7,000	28,000	5,000	16,000	16,000	000	, 000	2000			22,000	6,000	000 6	23,000	000,61	2,000	494,000	ial deman
ate 1) 8+R)/R	**	**		1.5	1.3	2.8	2.2		*	1.9	**	*	χ. -	-	0		,	+	-	8	1.7	1.4	*	*	*	**	ŀ	- - -	-			*	**	٠,	5.1	*	1.4		sident
Res. DemandRate 1) (2004) (8+R)/R	4,500	40,900	19 200	12.500	29,500	20.000	40,900		52,300	15,000	19,300	48,900	31,800	21,600	3,900		200	42,300	15,700	28,000	29.500	17,300	57,300	39,300	52,300		000	28,400	0,400			52,300	30,900	29,500	63,600	32,300	15,900	974,200	telephone demand to residential demand
Potential (1987)	1,400	18,000	7 500	3.400	6,400	7.700	15,200		22,700	6,800	5,700	14,100	6,400	4,500	006		000	006 61	5 500	4.300	9,100	5,000	18,200	6,800	13,200		000	2,800	4,500			18,600	10,000	6,600	17,500	10,200	3,400	298,500	elephone de
Middle) (2004)	20,000	180,000	000 08	74.000	130,000	88 000	180,000		230,000	66,000	85,000	215,000	140,000	95,000	17,000		000 000	215 000	89 000	123,000	130,000	76,000	252,000	173,000	230,000	260,000		125,000	20,000			230,000	136,000	130,000	280,000	230,000	70,000		total
Pop. (High&Upper (1987)	6,000	80,000	33 000	15.000	28,000	34.000	67,000		100,000	30,000	25,000	62,000	78,000	20,000	4,000		000	0000	20 000	19,000	40.000	22.000	80,000	30,000	58,000	60,000		30,000	10,000			82,000	44,000	29,000	77,000	90,000	12,000	:	of the number of
Rate B/A	1.8	2.3	6	1	6.9	- 2	3.5		3.4	6.9	5.3	4.5	8.	-10			í	000	200	13.7	3.9	12.5	2.3	8.4	3.4	4.8		200	3			3.1	4.5	œ.	3	3	0.9	•	rate
Demand 8(2004)	22,000	120,000	52 000	55.000	55,000	88,000	80,000		65,000	64,000	96,000	68,000	39,000	28,000	10,000		000 00	000,000	2000	41.000	39.000	25,000	65,000	42,000	54,000	76,000		26,000	3,000			69,000	27,000	35,000	52,000	28,000	18,000	1,650,000	1) Rate (8+R)/R means the
PHC-0 (A(1987)	12,000	25,000	000 66	13.000	8,000	29.000	23,000		19,000	13,000	18,000	15,000	5,000	2,000	3,000			12,000	200	3,000	10,000	2,000	28,000	5,000	16,000	16,000		6,000	1,000			22,000	6,000	4.000	000'9	15,000	3,000	H51,000 1	(B+R)/R
Demand (1987)	13,500	44,500			7,500		21,500		15,500	7,500	13,500	18,000	N.A.	N.A.	N.A.		30.	36,000	7	2	10.000	N.A.	31,500	N.A.	15,500	14,000	5,500	6,500	One			18,000	6,500	2,500	X. X.	13,000	2,500	398,000	
Ex. Area	KT1	KT2	× 0	CKG	ANC	GRI	CB2		SLP	SM1	SM2	E.	KEÐ	MER	TGA	JIA	44	2 C	2 6	200	TPR		8×	KBB	3 CPE	KLI	CPA	PSM	3	7 Y		JT	ر	PSR	ХLО	18	GAN	(Total)	NOTE:

Number of Pulses per Subscriber per Month

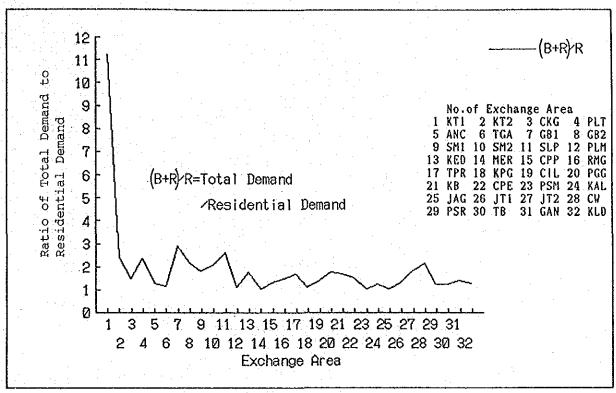
ANNEX 4-3 Number of Pulses per Subscriber per Month

Ex. U.	1982	1983	1984	1985	1986	Resid	lential	Area	Ratio
				1000			H.Mid.		
KT1A	1,389	1,500	1,453	1,376	1,360			1	0
KT2A	896	992	861	906	810				0
KT2B	802	848	812	761	736				0
KT2C	387	513	698	702	645				-0
KT2D	813	800	807	685	577				0
PLTA	836	877	852	843	772		0		
CKGA	542	635	651	604	636		0		
ANC	616	586	510	533	555		0		
GB1A	1,581	1,602	1,688	1,368	1,334				0
GB1B	1,473	1,469	1,479	1,262	1,223				0
GB1C	1,869	1,596	1,402	1,593	1,656				0
GB1D	2,009	2,023	1,866	1,732	1,638		- y - 7		0
GB1E	-	1		260	474				
GB2A	1,783	1,889	1,555	1,411	1,411			0	
GB2B	1,258	1,529	1,306	1,362	1,399			0	
GB2C	-	<u> </u>		_	259			0	
SLPA	875	824	900	862	881		0	ļ	
SLPB	-	<u> </u>			357				
SM1A	1,431	1,426	1,400	1,204	1,135				0
SM2A	1,135	1,292	1,317	1,397	1,292		<u> </u>		0
PLMA	904	910	953	943	834		0		
JIAC					710				
CPPA	1,016	1,072	1,018	857	852		10		
RMGA	840	889	910	879	738	0			
TPRA	1,027	1,008	1,056	957,957	928	0	1		<u> </u>
									<u> </u>
KB1A	1,051	924	982	760	821		Q	<u> </u>	<u> </u>
KB1B	1,364	1,335	916	912	883		Q		\
KB2A	395	779	979	1,051	994	<u> </u>	0		<u> </u>
CPEA	456	519	551	582	606		0		<u> </u>
KL1A]	952	959	841	822	865	<u> </u>	0	<u> </u>]
CPAA	321	351	386	362	401	0			
PSMA	701	754	801	653	681	0			<u> </u>
					11.			<u> </u>	
JT1A	1,017	873	825	781	709		0		
JT2A	621	620	652	643	603		0		
CW	1,239	1,112	1,074	864	781	0		<u> </u>	
PSR	771	642	930	803	562	0]
TB A	881	802	805	795	728		0		
GANA	1,141	1,128	1,234	1,146	1,130	0			

Source: ÉVALUASI DAN PEMAKATAN PULSA TELÉPON LOKAL DAN SLJJ (1982 - 1986)

Ratio of Total Demand to Residential Demand

ANNEX 4-4 Ratio of Total Demand to Residential Demand



Note:

- (1) Ratios above were derived from the regression model
- obtained based on the data below.

 (2) Ratios ((B+R)/R) above could be obtained from 1 plus B/R given below.

Ex Area	Donand,	Building	Population	Dummy	8/R
KTI	7200	2893	41854	8	10.248713
KT2	28000	3496	518249	8	1.4392397
CKG	- 1188	219	89048	. 8	9,5166112
PLT	4488	528	78899	8	1.4984194
ANC	3100	207	138994	0	8.312837B
TGA	880	46	59337	6	0.1919616
GB 1	20100	1738	192420	1	1.8979324
GB2	29800	1997	341334	- t	1.2289731
SM1	4488	497	121224	. 8	0.8612151
sn2	3698	761	140892	0.	1.1419776
SLP	6999	1951	249330	0	1.6437153
PLH	2690	129	171151	8	0.1583266
KED	1986	127	33849	₿	0.7983466
MER	688	13	44886	. 0	0.8619421
CPP	7300	874	414835	ē	8.3412937
RNG	4699	471	198947	0	0.4995701
TPR	6499	1019	303042	0	8.7863423
KPG	1200	. 36	61396	ß	0.1231703
CIL	800	1 4 8	73913	8	9.4206158
PGG	1200	298	79077	8	8.7916976
KB	12000	978	294278	. 8	0.6981307
CPE	2408	259	188135	0	0.5433225
PSM	799	26	80220	· B	9,9688823
KAL	2600	224	187746	в	0.2586231
JĠA	608	8	46768	8	8.0359784
Jii	2599	284	179104	. 0	0.3330864
JT2	6908	. 897	226471	9	0.8326907
CW.	2688	1013	178478	. 6	1.1922535
PSR	808	99	79828	. 0	8.2605096
18	3700	422	348731	. 6	9.2601624
GAN	700	112		Ð	8.4181715
KLD	900	97	72818	0	8.2829585
Carrier San	the state of the state of				
Y Consta	nt value		-482.8975		
Y Standard deviation		n '	1761.8318		
R-squared			0.9368882		
Number of sample			32		•
Degree of freedom			. 28		
1000					

Standard Deviations 8.5689297 8.8835881 1485.5275

ANNEX 4-5

Zonal Population in Botabek Area

(Bogor)	Remarks	Kotamadya Bogor										*** Urban pop. decreasing ***					Vata Admin 5 + 120+12 + 1 + 1 1 1 1 1 1 1 1 1 1 1	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		in near future)	Kota Administratif Cibinons	_	Kota Administratit Depok	(Votorial of otrotificial property	CAO 54 AGRISTIS LI A LI CI DI HONS	And the second of the second o	(Nota Augillatiations)	
	P/S Center (by BKSP)	P 1,000,000		\$ 75,000		S 75,000		S 150,000	666							S 75,000	599	•	S 200,000		200,000		400,000			S 100,000		
1/3)	1(x1,000) 2005	97		200			┪	337	<u></u>			348			Ť	130	6016	: 617		199 3			5		4	244		-
Zonal Population in Botabek Area (1/3)	ARSDS Rura 1985	88	<u> </u>	293	,	••••		304				108				170	200	207		104			77 XX			241		
n Botabe	an(x1,000) 2005	1,115		200				220				150				110	000	2000		375			225			210		
ation i	ARSDS Urban 1985	969		15				107				272				<u>~</u>	-	5		239			120	:		21		
al Popul	ota (x1,000) 2005	1,212		400				557				498				240				574			416			454		
ις	ARS0S 1	784		308				411				380				188		202		343	. · · · · · · · · · · · · · · · · · · ·		234			262		
ANNEX 4	Pop. 1985 (Statistics	244,721	131,523	67.411	86,362	68,703	61,086	92,866	143,785	101,304	44,976	99,053	89,202	104,334	58,631	109,591	20.10	110,204	99,824	111,837	80,184	122,700	40,661	80,812	87,515	99,546	39,371	101100
	Kecamatan	l Kodya, Bogor Semolak	Kedung Halang	Z Jasinga	Cigudes	Parung Panjang	Kumpin		Cibung Bulang	Сіапреа			Ciavi	Cisarua		Jonggol	- I		Cileungsi		Cibinong	2		Pancoran Mas	Bojong Gede		Cunung Sindur	Sawangan
	Code Code	70 20		2012	—			2013				2014				2015	Š	0		202			2022			2023		

(Tangerang)	Remarks			Kotamadya Tangerang		Kota Administratif Serpong		Kotamadya Tangerang									(Kota Administratif Serpong)			Kotamadya Tangerang		IKK (in near future)	
	Center	y BKSP)	850,000	. :		800,000	250,000		150,000							100,000		100,000	60,000		100,000		
	P/S	9	ے	-		_	S	1000	S							S		S	S		S		
2/3)	al(x1,000)	2005	33		20	85	111	114		546				-		372					224	'	
Area (ARSOS Rural(x1,000) P/S Center	1985	1.1		13	74	89	131		475		•				350					210		
3otabek	tn(x1,000)	2005	278	•	199	135	200	200		136						503					274		
Zonal Population in Botabek Area (2/3)	ARSDS Urban(x1,000)	1985	211		83	18	88	31		39						10					o		
Populat	0	2005	611		219	220	311	314		682	-					875	•				498	,	
	ARSDS Tota	1985	228		106	92	157	162		514						360	2	_			210		-
ANNEX 4-5	Pop. 1985	(Statistics)	135,156	73,350	96,934	83,482	154,074	95,276	56,059	97,752	56,294	55,084	91,711	114,229	51,521	44,960	75,502	75,560	57,038	82,422	67,023	27,061	67,427
	Kecamatan		Tangerang	Cipondoh	Batu Ceper	113 Serpons	114 Ciputat	Ciledug	Pondok Aren	Teluknaga	Kresek	Kronjo	Mauk	Sepatan	Rajeg	2122 Curus	Legok	Cikupa	Pasar Kemis	Jati Uwung	2123 Balaraja	Tigaraksa	Cisoka
	Zone	Code	2		2112	2113	2114	2115		2121					ا 	2122					2123		

		ANNEX 4-5		Zonal Population in Botabek Area (3/3)	tion in	Botabek	Area (3/3)		(Bekasi)
Sone	Kecamatan	Pop. 1985 (Statistics)	ARSDS Total(x1,000 1985 2005	_	ARS0S Urbs 1985	ARSDS Urban(x1,000) ARSDS Rural(x1,000) 1985 2005 1985 2005	ARSDS Rura 1985	1(x1,000) 2005	P/S Center (by BKSP)	Regarks
2211	B. Barat	69,370	292	576	258	200	36	92		
	B. Utara	31.165							P 500 000) Kotamadya Bekasi
-	B. Timur	75,465								
	B. Selatan	93,731					V			
2212	Pondok Gede lati Asih	128,888	141	356	42	250	66	106	S 150,000 S 150,000	
213	Tamb	96,917		323	43	200	29	123	s 100.000	
2221	1	97,397	336	858	51	597	285	261	666	
	_	92,917		•						
	Cikarang	111,175			:				P 500,000	1 KK (in near future)
	Kedung Waringin	700								
222	2222 Setu	48,738	191	345	0	128	191	217		
	Cibarusa	47,549		1.	-					
_	Serang	52,598								
	Santar Gebang	40,372							S 100,000	3.1
2223	Tarumajaya	29,055	322	443	0	115	322	328		
	Babelan	49,466			•		•			
	Sukatani	65,683	.:	:	,					
	Pebayuran	54,182								
	Cabangbungin	33,661				_				
_	Tambelan	47,761				_		-		
	Muara Gembong	16,396								

ANNEX 4-6

Exchange Area Features (1993 - 2005)

ANNEX 4-6 Exchange Area Features (1993-2005)

a) Exchange Area Features

Exchange area features are examined, based on two kinds of information; one is referred to JTP '79 Report (for 1993 data) and the other, land use maps prepared by the municipality (for 2005 data). In this examination, each exchange area is divided into following four categories. The obtained percent distributions of each category are summarized in the attached figures.

- office/commercial areas (abbreviated as "O/C")

- industrial area (abbreviated as "I")

- residential area (abbreviated as "R")

- non-demand area (abbreviated as "N")

b) Traffic Trend Curve

From the viewpoint of telephone traffic, an increase of office/commercial and industrial areas could raise traffic intensity, whereas that of residential area, decline it. The Study therefore calculates the relative percent distribution of office/commercial areas plus industrial area to the whole area excluding non-demand area, taking into account the following weights:

	1993	2005
- office/commercial areas:		3
- industrial area :	2	. 2
- residential area :	1	2

The above weight-values are estimated, referring to the following originating traffic intensities from each telephone subscriber category. On the other hand, residential area in 2005 is double-weighted to that in 1993 as the household affordability is to be nearly doubled, from 1993 to 2005.

- office/commercial use: 0.06 E (from JTP 179 Report)

- industrial use : 0.04 E (estimated)

- residential use : 0.02 E (from JTP '79 Report)

The relative percent distributions thus obtained are estimated to change according to the trend curves illustrated in the attached figures.

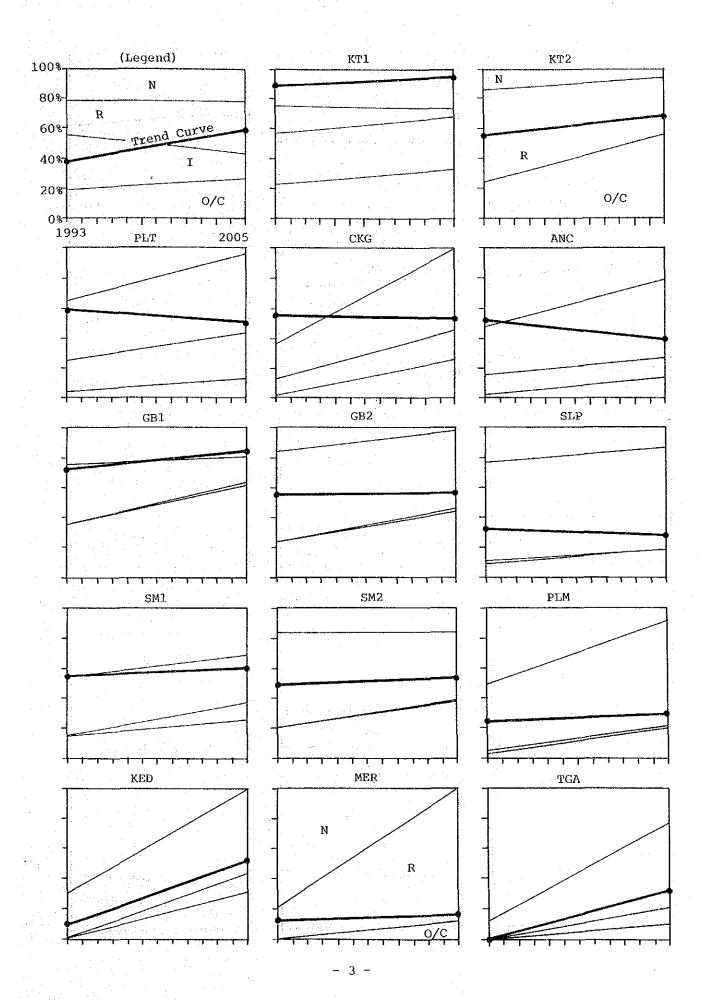
It is considered that the trend curves are to give general guidelines for increasing or decreasing trend of telephone traffic intensity in each relevant exchange area. The Study therefore intends to refer to the trend curves for estimating future trends of local traffic intensities.

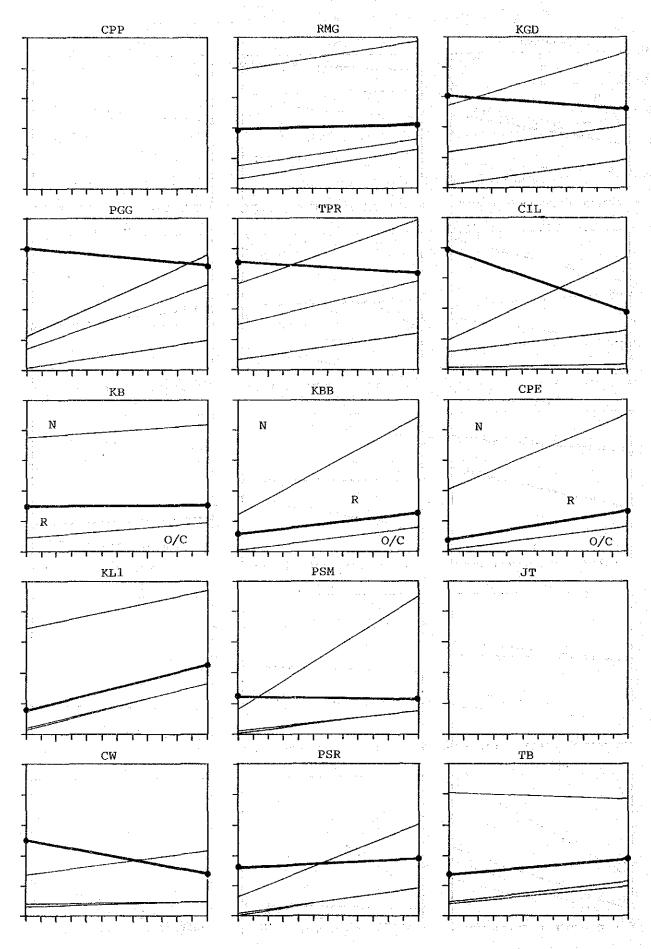
c) Application Method for Traffic Forecasting

Table 4.8 presents reference rate of the 2005 relative percentage to the 1993 relative percentage obtained above, for each exchange area.

According to these reference rates, following increment/decrement of local traffic intensity is taken into account in the Study:

Reference Rate	1999	2005
over 1.5	+0.0050	+0.0100
1.5 to 1.1	+0.0025	+0.0050
1.1 to -1.1	<u>+</u> 0	<u>+</u> 0
-1.1 to -1.5	-0.0025	-0.0050
below -1.5	-0.0050	-0.0100





ANNEX 4-7

Present Distribution of Local Traffic (Measured/Calculated)

ANNEX 4-7 Present Distribution of Local Traffic (Measured/Calculated)

	17.00		(P	A 20 00 00	CLB	- 1	(00	1 2 2 2	1/10	1 400	12	
	KT	Area		Area	SLP	Area				<u>Area</u>	JT	Area
	Act.	Cal.	Act.				Act.	Cal.			Act.	Cal.
KT1	33	32	27	29	14	15	12	11	8	7	6	7
KT2	53	51	22	21	9	9	8	9	5	5	3	5
PLT	57	57	22	23	5	4	7	7	5	4	4	5
CKG	46	45	25	25	11	10	8	7	6	6	5	6
ANC	43	40	27	28	6	· 5	13	14	7	7	5	6
GB1	23	23	29	28	18	18	11	11	12	12	8	8
GB2	15	15	31	33	19	19	10	10	15	14	10	10
SLP	29	30	26	28	14	11	10	10	12	13	8	9
SM1	10	11	31	32	18	19	9	8	21	18	11	11
SM2	12	13	27	29	24	21	9	9	19	18	- 8	10
PLM	18	20	27	24	21	20	8	8	19	20	7	8
JIA				8.5		1						
CPP	19	21	32	30	10	11	17	16	11	11	11	11
RMG	20	21	28	28	11	13	12	10	13	13	15	15
KGD	1 1	101,47	. 555, 57	1.0.10	1.44			1.00				
TPR	27	28	27	26	10	12	21	18	9	8	6	8
KB	11	12	28	27	19	18	9	11	25	25	8	7
CPE	9	10	20	22	17	18	9	8	34	30	10	11
KL1	8	9	26	25	16	15	8	6	28	30	14	15
CPA	10	9	24	23	15	16	5	6	34	34	11	13
PSM	13	14	17	15	16	14	12	12	27	29	15	16
JAG				7.3								
jT	14	15	26	26	9	9	16	17	15	15	21	19
CW	10	9	22	22	13	14	12	13	15	15	28	28
PSR												
KLD		1										
TB	10	10	29	28	13	15	11	10	22	22	14	15