

1. Optimum Solution

(Case 3-2)

1) Annual Growth Rate of Output by 26 Sectors (unit: %)

Sector	0-1 (R-VI)	1-2 (R-VI)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	5.1	6.8	7.6	8.2	8.6	7.3
2 Estate crops	5.0	6.1	7.1	7.5	8.8	6.5
3 Livestock	7.3	7.8	8.0	8.2	3.6	7.0
4 Forestry	8.5	2.7	3.5	3.3	2.7	4.1
5 Fishery	14.2	11.7	12.3	13.0	13.4	12.9
6 Oil & Gas	0.9	4.5	5.5	6.7	7.7	5.0
7 Non Oil Gas	9.8	8.5	8.5	7.7	6.6	8.2
8 Food	4.8	3.2	3.5	4.0	3.8	3.8
9 Textile	4.1	-1.0	1.6	-1.0	-1.0	0.5
10 Wood	3.5	4.3	5.8	5.9	5.2	5.0
11 Paper	12.9	13.2	13.0	12.2	10.9	12.4
12 Chemical	10.7	9.4	7.8	7.0	6.6	8.3
13 Non Metallic	0.4	0.0	0.5	-1.0	-1.0	-0.2
14 Iron & steel	13.4	13.2	13.3	13.4	13.0	13.3
15 Non Ferrous metal	17.7	13.6	13.2	12.4	11.9	13.7
16 Fabricated Metal	9.7	12.2	11.9	11.4	10.2	11.1
17 Machinery	19.7	13.7	10.8	8.4	8.0	12.1
18 Transport Equip	16.7	9.5	8.9	8.5	8.5	10.3
19 Oth manufacturing	27.1	11.1	9.8	4.9	3.4	11.0
20 Elec Gas, Water	16.7	19.1	10.5	10.6	10.4	11.6
21 Construction	6.9	8.8	8.8	8.6	8.4	8.3
22 Trade	6.6	8.3	8.4	8.3	8.3	8.0
23 Restaurant, Hotel	9.6	10.1	9.9	9.8	9.7	9.8
24 Transportation	9.4	9.7	9.6	9.4	9.2	9.4
25 Finance	9.2	9.3	9.3	9.3	9.1	9.2
27 Oth. Service	5.0	5.2	7.1	7.2	7.6	6.4
Total	7.8	8.0	8.4	8.4	8.4	8.2

2) Annual Growth Rate of GDP by 26 Sectors (unit: %)

Sector	0-1 (R-VI)	1-2 (R-VI)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	3.5	4.2	5.0	5.6	6.0	4.8
2 Estate crops	3.8	4.1	5.1	5.5	4.7	4.7
3 Livestock	6.5	6.5	6.7	6.9	2.3	5.8
4 Forestry	7.2	0.8	1.6	1.3	0.8	3.3
5 Fishery	13.0	9.8	10.4	11.1	11.5	11.2
6 Oil & Gas	0.9	4.5	5.5	6.7	7.7	5.0
7 Non Oil Gas	9.8	8.5	8.5	7.7	6.6	8.2
8 Food	6.8	5.1	5.5	6.0	5.8	5.8
9 Textile	6.1	0.9	3.5	0.9	0.9	2.4
10 Wood	5.5	6.3	7.9	8.0	7.2	7.0
11 Paper	15.1	15.3	15.2	14.4	13.0	14.6
12 Chemical	12.9	11.5	9.9	9.1	8.7	10.4
13 Non Metallic	2.3	1.9	2.4	0.9	0.9	1.7
14 Iron & steel	15.6	15.4	15.5	15.5	15.2	15.4
15 Non Ferrous metal	19.9	15.8	15.3	14.6	14.1	15.9
16 Fabricated Metal	11.9	14.4	14.1	13.5	12.3	13.2
17 Machinery	22.0	15.9	13.0	10.5	10.1	14.2
18 Transport Equip	18.9	11.4	10.9	10.6	10.6	12.4
19 Oth manufacturing	29.5	13.2	12.0	7.0	5.4	13.1
20 Elec Gas, Water	16.7	10.1	10.5	10.6	10.4	11.6
21 Construction	6.9	8.8	8.8	8.6	8.4	8.3
22 Trade	6.6	8.3	8.4	8.3	8.3	8.0
23 Restaurant, Hotel	9.6	10.1	9.9	9.8	9.7	9.8
24 Transportation	9.4	9.7	9.6	9.4	9.2	9.4
25 Finance	9.2	9.3	9.3	9.3	9.1	9.2
27 Oth. Service	5.0	5.2	7.1	7.2	7.6	6.4
Total	7.7	8.2	8.6	8.7	8.7	8.4

3) Annual Growth Rate of Consumption by 26 Sectors (unit: %)

Sector	0-1 (R-VI)	1-2 (R-VI)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	10.0	10.0	10.0	10.0	10.0	10.0
2 Estate crops	10.0	10.0	10.0	10.0	8.2	9.6
3 Livestock	10.0	10.0	10.0	10.0	2.0	8.4
4 Forestry	2.0	2.0	2.0	2.0	2.0	2.0
5 Fishery	10.0	10.0	10.0	10.0	10.0	10.0
6 Oil & Gas						
7 Non Oil Gas	10.0	10.0	10.0	10.0	2.0	8.4
8 Food	3.5	2.0	2.0	2.0	2.0	2.3
9 Textile	2.0	2.0	2.0	2.0	2.0	2.0
10 Wood	2.0	2.0	2.0	2.0	2.0	2.0
11 Paper	10.0	10.0	10.0	10.0	2.0	8.4
12 Chemical	10.0	10.0	10.0	10.0	10.0	10.0
13 Non Metallic	2.0	2.0	2.0	2.0	2.0	2.0
14 Iron & steel						
15 Non Ferrous metal	8.9	2.0	2.7	1.6	2.1	3.5
16 Fabricated Metal	10.0	2.0	2.0	2.0	2.0	3.6
17 Machinery	10.0	10.0	10.0	4.8	8.0	8.5
18 Transport Equip	10.0	2.0	2.0	2.0	2.0	3.6
19 Oth manufacturing	2.0	2.0	2.0	2.0	2.0	2.0
20 Elec Gas, Water	10.0	10.0	10.0	10.0	10.0	10.0
21 Construction	2.0	2.0	2.0	2.0	2.0	2.0
22 Trade	10.0	10.0	10.0	10.0	10.0	10.0
23 Restaurant, Hotel	10.0	10.0	10.0	10.0	10.0	10.0
24 Transportation	10.0	10.0	10.0	10.0	10.0	10.0
25 Finance	10.0	10.0	10.0	10.0	10.0	10.0
27 Oth. Service	4.8	4.1	6.7	7.1	8.0	6.1
Total	7.6	7.5	8.3	8.6	8.8	8.1

4) Annual Growth Rate of Investment (unit: %)

	0-1 (R-VI)	1-2 (R-VI)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
Total	5.6	9.0	9.0	8.7	8.5	8.2

5) Annual Growth Rate of Export by 26 Sectors (unit: %)

Sector	0-1 (R-VI)	1-2 (R-VI)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	8.4	8.4	8.4	8.4	8.4	8.4
2 Estate crops	8.4	8.4	8.4	8.4	8.4	8.4
3 Livestock	8.4	8.4	8.4	8.4	8.4	8.4
4 Forestry	8.4	8.4	9.4	8.4	8.4	8.4
5 Fishery	8.4	8.4	8.4	8.4	8.4	8.4
6 Oil & Gas	8.4	8.4	8.4	8.4	8.4	8.4
7 Non Oil Gas	8.4	8.4	8.4	8.4	8.4	8.4
8 Food	1.9	1.9	1.9	1.9	-4.4	0.6
9 Textile	5.1	-1.0	3.0	-0.7	-1.1	1.0
10 Wood	-4.4	-4.4	-4.4	-4.4	-4.4	-4.4
11 Paper	11.8	11.8	11.8	11.8	11.8	11.8
12 Chemical	8.4	8.4	8.4	8.4	8.4	8.4
13 Non Metallic	11.8	2.8	11.8	10.8	11.8	9.8
14 Iron & steel	11.8	11.8	11.8	11.8	11.8	11.8
15 Non Ferrous metal	11.8	11.8	11.8	11.8	11.8	11.8
16 Fabricated Metal	11.8	11.8	11.8	11.8	5.1	10.5
17 Machinery	11.8	11.8	11.8	11.8	11.8	11.8
18 Transport Equip	11.8	11.8	11.8	11.8	11.8	11.8
19 Oth manufacturing	11.8	11.8	11.8	7.5	-4.4	6.5
20 Elec Gas, Water						
21 Construction						
22 Trade	8.4	8.4	8.4	8.4	8.4	8.4
23 Restaurant, Hotel	8.4	8.4	8.4	8.4	8.4	8.4
24 Transportation	8.4	8.4	8.4	8.4	8.4	8.4
25 Finance	8.4	8.4	8.4	8.4	8.4	8.4
27 Oth. Service	8.4	8.4	8.4	8.4	8.4	8.4
Total	6.7	6.8	7.9	8.0	8.1	7.5

6) Annual Growth Rate of Import by 26 Sectors (unit: %)

Sector	0-1 (R-VI)	1-2 (R-VI)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	0.5	2.1	2.8	3.6	3.8	2.5
2 Estate crops	-2.8	1.3	2.2	3.0	3.3	1.4
3 Livestock	-5.2	-1.7	-0.2	1.6	0.6	-1.0
4 Forestry	-1.1	-0.3	1.4	2.4	3.5	1.1
5 Fishery	-3.4	-2.6	-1.9	-0.9	-0.2	-1.8
6 Oil & Gas	10.3	9.4	7.8	7.0	6.6	9.8
7 Non Oil Gas	4.1	6.9	7.3	7.4	7.8	6.7
8 Food	1.3	2.8	4.4	7.7	6.2	4.4
9 Textile	5.0	5.0	6.5	6.3	6.9	5.9
10 Wood	6.0	7.7	8.1	8.1	7.9	7.6
11 Paper	6.5	8.8	10.3	10.6	10.0	9.2
12 Chemical	2.2	6.4	7.1	7.1	7.3	6.0
13 Non Metallic	15.7	8.1	8.4	8.3	8.2	9.7
14 Iron & steel	5.5	9.8	10.1	10.1	9.9	9.0
15 Non Ferrous metal	11.1	12.0	12.1	11.7	11.4	11.7
16 Fabricated Metal	3.5	7.9	8.4	8.5	8.3	7.3
17 Machinery	4.2	6.1	7.2	6.8	7.2	6.3
18 Transport Equip	4.1	3.9	5.6	6.6	7.4	5.5
19 Oth manufacturing	-0.7	1.4	3.5	8.1	8.1	4.0
20 Elec Gas, Water						
21 Construction						
22 Trade						
23 Restaurant, Hotel	-2.8	-1.7	-0.1	1.9	3.8	0.1
24 Transportation	0.0	2.0	4.3	6.0	7.2	3.9
25 Finance	5.1	7.1	8.0	8.4	8.6	7.4
27 Oth. Service	2.0	3.0	4.4	5.8	7.1	4.4
Total	4.1	6.1	7.2	7.5	7.8	6.5

7) Share of GDP by 26 Sectors

Sector	(unit: %)					
	0	1	2	3	4	5
		(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)
1 Farm food	10.8	8.9	7.4	6.7	5.4	4.7
2 Estate crops	2.8	2.3	1.9	1.6	1.4	1.2
3 Livestock	2.0	1.9	1.8	1.6	1.5	1.1
4 Forestry	1.5	1.5	1.0	0.7	0.5	0.4
5 Fishery	1.9	2.5	2.7	2.9	3.2	3.6
6 Oil & Gas	8.7	6.3	5.3	4.5	4.1	3.9
7 Non Oil Gas	2.3	2.5	2.6	2.5	2.4	2.2
8 Food	7.4	7.1	6.1	5.3	4.7	4.1
9 Textile	2.1	2.0	1.4	1.1	0.7	0.5
10 Wood	1.6	1.5	1.4	1.3	1.3	1.2
11 Paper	0.9	1.3	1.7	2.3	3.0	3.6
12 Chemical	5.7	7.2	8.4	8.9	9.1	9.9
13 Non Metallic	0.6	0.5	0.3	0.3	0.2	0.1
14 Iron & steel	0.5	0.8	1.0	1.4	1.9	2.6
15 Non Ferrous metal	0.7	0.4	0.6	0.7	1.0	1.2
16 Fabricated Metal	0.6	0.7	0.9	1.2	1.5	1.7
17 Machinery	1.4	2.6	3.6	4.4	4.8	5.1
18 Transport Equip	0.9	1.5	1.7	1.9	2.0	2.2
19 Oth. manufacturing	0.1	0.3	0.4	0.4	0.4	0.3
20 Elec Gas Water	0.9	1.3	1.4	1.5	1.7	1.8
21 Construction	7.1	6.8	7.1	7.1	7.1	6.9
22 Trade	13.0	12.4	12.5	12.4	12.2	11.9
23 Restaurant/Hotel	3.5	3.9	4.2	4.5	4.7	4.9
24 Transportation	8.2	8.9	9.5	9.9	10.3	10.5
25 Finance	9.3	9.9	10.5	10.8	11.1	11.3
27 Oth. Service	6.0	5.3	4.6	4.3	4.0	3.8
Total	100.0	100.0	100.0	100.0	100.0	100.0

8) Annual Growth Rate of GDP by 8 Sectors

Sector	(unit: %)					
	0-1	1-2	2-3	3-4	4-5	Average
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	
Agriculture(1-5)	5.3	5.1	5.0	6.8	6.8	6.0
Mining(6-7)	3.0	3.7	6.5	7.1	7.3	5.9
Manufacturing(8-19)	11.0	9.8	9.9	9.8	9.6	10.0
Light Industry(8-10,19)	6.8	4.8	5.9	5.7	5.6	5.8
Resource-based Industry(11-15)	12.9	12.1	11.3	10.9	10.8	11.6
Machinery(16-18)	19.2	14.3	12.6	11.0	10.6	13.5
Electricity, Gas & Water(20)	15.7	10.1	10.5	10.6	10.4	11.6
Construction(21)	6.9	8.8	8.8	8.6	8.4	8.3
Services(22-27)	7.8	8.7	8.9	8.9	8.8	8.6
Total	7.7	8.2	8.6	8.7	8.7	8.4

9) Share of GDP by 8 Sectors

Sector	(unit: %)					
	0	1	2	3	4	5
(IO Code)		(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)
Agriculture(1-5)	19.1	17.1	14.8	13.1	12.0	11.0
Mining(6-7)	10.9	8.8	7.8	7.1	6.6	6.1
Manufacturing(8-19)	22.0	25.6	27.6	29.3	30.5	31.7
Light Industry(8-10,19)	11.2	10.8	9.2	8.1	7.1	6.1
Resource-based Industry(11-15)	8.0	10.1	12.1	13.7	15.1	16.6
Machinery(16-18)	2.8	4.7	6.3	7.5	8.3	9.0
Electricity, Gas & Water(20)	0.9	1.3	1.4	1.5	1.7	1.8
Construction(21)	7.1	6.8	7.1	7.1	7.1	6.9
Services(22-27)	40.1	40.4	41.3	41.9	42.2	42.4
Total	100.0	100.0	100.0	100.0	100.0	100.0

2. Macro Indicator

1) Investment Share of GDP

Investment	(unit: %)					
	0	1	2	3	4	5
		(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)
Investment	34.0	30.9	32.1	32.7	32.7	32.3

2) Number of Skilled Labor Employment at the End of Each Period

Sector	(unit: thousand)					
	0	1	2	3	4	5
(IO Code)		(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)
Agriculture(1-5)	941	1,280	1,739	2,148	2,854	3,631
Manufacturing(8-19)	8,156	10,192	12,903	16,389	20,787	26,436
Others(6, 7, 20-27)	6,652	9,115	12,267	16,637	22,336	30,033
Total	15,749	20,586	26,909	35,174	45,978	60,099

3) Per Capita Consumption and Per Capita GDP

Per Capita Consumption	(unit: thousand Rp)					
	0	1	2	3	4	5
		(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)
Per Capita Consumption						
(thousand Rp)	995	1,329	1,773	2,469	3,519	5,103
(US\$)	471	637	849	1,183	1,685	2,445
Per Capita GDP						
(thousand Rp)	1,452	1,943	2,672	3,786	5,430	7,858
(US\$)	696	931	1,280	1,814	2,602	3,765

Note: Exchange rate (\$ Rp) of 1993 is utilized for conversion from Rupiah term to Dollar term in each period.

I. Optimum Solution

(Case 4)

1) Annual Growth Rate of Output by 26 Sectors (unit: %)

Sector	0-1	1-2	2-3	3-4	4-5	0-5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
1 Farm food	4.8	7.0	6.4	2.1	2.2	4.5
2 Estate crops	4.9	6.3	4.3	4.2	4.3	4.8
3 Livestock	7.0	7.9	5.1	4.0	3.8	5.5
4 Forestry	8.3	3.0	3.9	4.1	3.8	4.6
5 Fishery	14.1	11.8	12.3	8.5	10.0	11.3
6 Oil & Gas	-1.0	-1.0	-1.0	0.9	4.9	0.5
7 Non Oil/Gas	10.0	9.1	9.3	8.9	8.1	9.0
8 Food	4.0	3.2	3.5	3.8	3.9	3.7
9 Textile	9.6	5.1	8.1	5.8	5.3	6.8
10 Wood	3.5	4.7	6.8	2.7	7.7	6.1
11 Paper	13.3	13.8	13.5	12.4	11.4	12.9
12 Chemical	10.8	9.6	7.6	5.6	5.0	7.7
13 Non Metallic	0.9	1.3	-1.0	0.3	-1.0	0.1
14 Iron & steel	13.7	14.5	14.9	15.4	15.6	14.8
15 Non Ferrous metal	19.5	15.8	15.5	15.2	14.9	16.2
16 Fabricated Metal	10.0	13.7	13.5	13.3	13.3	12.8
17 Machinery	19.9	14.5	12.0	10.8	10.3	13.4
18 Transport Equip	16.8	12.6	11.5	10.9	10.0	12.3
19 Oth manufacturing	28.2	12.5	11.7	11.5	11.8	14.9
20 Elec Gas, Water	16.9	10.5	10.8	10.7	10.6	11.9
21 Construction	6.8	9.3	10.0	10.6	11.2	9.6
22 Trade	6.6	8.5	8.7	8.7	8.9	8.3
23 Restaurant, Hotel	9.6	10.1	9.9	9.8	9.8	9.9
24 Transportation	9.4	9.9	9.8	9.5	9.2	9.6
25 Finance	9.2	9.4	9.4	9.2	9.0	9.2
27 Oth. Service	5.7	5.8	7.4	6.0	3.5	5.7
Total	7.9	8.4	8.8	8.5	8.8	8.5

2) Annual Growth Rate of GDP by 26 Sectors (unit: %)

Sector	0-1	1-2	2-3	3-4	4-5	0-5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
1 Farm food	3.2	4.4	3.8	-0.4	-0.3	2.1
2 Estate crops	3.7	4.3	2.4	2.2	2.3	3.0
3 Livestock	6.1	6.6	3.8	2.8	2.6	4.4
4 Forestry	7.1	1.1	1.9	2.1	1.9	2.8
5 Fishery	12.9	9.9	10.4	6.6	8.2	9.6
6 Oil & Gas	-1.0	-1.0	-1.0	0.9	4.9	0.5
7 Non Oil/Gas	10.0	9.1	9.3	8.9	8.1	9.0
8 Food	6.0	5.2	5.5	5.8	5.9	5.7
9 Textile	11.7	7.1	10.2	7.8	7.3	8.8
10 Wood	5.5	6.7	8.9	9.8	9.8	8.1
11 Paper	15.5	16.0	15.7	14.6	13.6	15.1
12 Chemical	13.0	11.7	9.7	7.6	7.1	9.8
13 Non Metallic	2.8	3.2	0.9	2.2	0.9	2.0
14 Iron & steel	13.9	16.7	17.1	17.6	17.9	17.0
15 Non Ferrous metal	21.8	18.0	17.7	17.4	17.1	18.4
16 Fabricated Metal	12.1	15.8	15.7	15.7	15.5	15.0
17 Machinery	22.2	16.7	14.1	12.9	12.5	15.6
18 Transport Equip	19.0	14.7	13.7	13.1	12.1	14.5
19 Oth manufacturing	30.6	14.6	13.8	13.7	13.9	17.2
20 Elec Gas, Water	16.9	10.5	10.8	10.7	10.6	11.9
21 Construction	6.8	9.3	10.0	10.6	11.2	9.6
22 Trade	6.6	8.5	8.7	8.7	8.9	8.3
23 Restaurant, Hotel	9.6	10.1	9.9	9.8	9.8	9.9
24 Transportation	9.4	9.9	9.8	9.5	9.2	9.6
25 Finance	9.2	9.4	9.4	9.2	9.0	9.2
27 Oth. Service	5.7	5.8	7.4	6.0	3.5	5.7
Total	7.6	8.4	8.9	8.8	9.2	8.6

3) Annual Growth Rate of Consumption by 26 Sectors (unit: %)

Sector	0-1	1-2	2-3	3-4	4-5	0-5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
1 Farm food	10.0	10.0	8.5	2.0	2.0	6.4
2 Estate crops	10.0	10.0	2.2	2.0	2.0	5.2
3 Livestock	10.0	10.0	3.9	2.0	2.0	5.5
4 Forestry	2.0	2.0	2.0	2.0	2.0	2.0
5 Fishery	10.0	10.0	10.0	2.2	2.0	6.8
6 Oil & Gas						
7 Non Oil/Gas	10.0	10.0	10.0	10.0	10.0	10.0
8 Food	2.5	2.0	2.0	2.0	2.0	2.1
9 Textile	2.0	2.0	2.0	2.0	2.0	2.0
10 Wood	2.0	2.0	2.0	2.0	2.0	2.0
11 Paper	10.0	10.0	10.0	10.0	10.0	10.0
12 Chemical	10.0	10.0	10.0	10.0	10.0	10.0
13 Non Metallic	2.0	2.0	2.0	2.0	2.0	2.0
14 Iron & steel						
15 Non Ferrous metal	8.9	10.3	10.0	10.1	1.9	8.2
16 Fabricated Metal	10.0	10.0	10.0	10.0	2.8	8.4
17 Machinery	10.0	10.0	10.0	10.0	10.0	10.0
18 Transport Equip	10.0	10.0	10.0	10.0	6.7	9.3
19 Oth manufacturing	2.0	2.0	2.0	2.0	2.0	2.0
20 Elec Gas, Water	10.0	10.0	10.0	10.0	10.0	10.0
21 Construction	2.0	2.0	2.0	2.0	2.0	2.0
22 Trade	10.0	10.0	10.0	10.0	10.0	10.0
23 Restaurant, Hotel	10.0	10.0	10.0	10.0	10.0	10.0
24 Transportation	10.0	10.0	10.0	10.0	10.0	10.0
25 Finance	10.0	10.0	10.0	10.0	10.0	10.0
27 Oth. Service	5.7	4.8	7.0	5.5	2.0	5.0
Total	7.5	7.8	8.1	7.5	7.6	7.7

4) Annual Growth Rate of Investment (unit: %)

Sector	0-1	1-2	2-3	3-4	4-5	0-5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
Total	5.5	9.6	10.3	10.9	11.4	9.5

5) Annual Growth Rate of Export by 26 Sectors (unit: %)

Sector	0-1	1-2	2-3	3-4	4-5	0-5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
1 Farm food	8.4	8.4	8.4	8.4	8.4	8.4
2 Estate crops	8.4	8.4	8.4	8.4	8.4	8.4
3 Livestock	8.4	8.4	8.4	8.4	8.4	8.4
4 Forestry	8.4	8.4	-4.4	-4.4	-4.4	0.6
5 Fishery	8.4	8.4	8.4	8.4	8.4	8.4
6 Oil & Gas	1.9	1.9	1.9	1.9	1.9	1.9
7 Non Oil/Gas	8.4	8.4	8.4	8.4	8.4	8.4
8 Food	1.9	1.9	1.9	1.9	-4.4	0.6
9 Textile	13.0	7.0	10.3	7.2	6.6	8.8
10 Wood	-4.4	-4.4	-4.4	-4.4	-4.4	-4.4
11 Paper	14.9	14.9	14.9	14.9	14.9	14.9
12 Chemical	8.4	8.4	8.4	8.4	8.4	8.4
13 Non Metallic	14.9	6.2	3.6	14.9	14.9	10.8
14 Iron & steel	14.9	14.9	14.9	14.9	14.9	14.9
15 Non Ferrous metal	14.9	14.9	14.9	14.9	14.9	14.9
16 Fabricated Metal	14.9	14.9	14.9	14.9	14.9	14.9
17 Machinery	14.9	14.9	14.9	14.9	14.9	14.9
18 Transport Equip	14.9	14.9	14.9	14.9	14.9	14.9
19 Oth manufacturing	14.9	14.9	14.9	14.9	14.9	14.9
20 Elec Gas, Water						
21 Construction						
22 Trade	8.4	8.4	8.4	8.4	8.4	8.4
23 Restaurant, Hotel	8.4	8.4	8.4	8.4	8.4	8.4
24 Transportation	8.4	8.4	8.4	8.4	8.4	8.4
25 Finance	8.4	8.4	8.4	8.4	8.4	8.4
27 Oth. Service	8.4	8.4	8.4	8.4	8.4	8.4
Total	7.0	7.2	8.5	8.8	9.3	8.1

6) Annual Growth Rate of Import by 26 Sectors (unit: %)

Sector	0-1	1-2	2-3	3-4	4-5	0-5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
1 Farm food	-0.1	2.1	2.8	3.3	3.6	2.3
2 Estate crops	-3.3	1.3	2.1	2.8	3.3	1.2
3 Livestock	-5.3	-1.7	-1.3	-0.7	0.1	-1.8
4 Forestry	14.8	14.2	14.2	14.3	14.3	14.4
5 Fishery	-3.5	-3.6	-1.0	-1.1	-0.2	-1.9
6 Oil & Gas	18.4	9.6	7.6	3.6	3.0	9.1
7 Non Oil/Gas	4.3	7.4	7.3	8.1	9.1	7.3
8 Food	1.1	2.8	3.4	3.9	6.1	3.5
9 Textile	7.4	7.0	8.3	7.3	7.2	7.4
10 Wood	6.0	8.0	8.6	8.9	9.0	8.1
11 Paper	6.7	9.3	10.8	10.8	10.4	9.6
12 Chemical	2.8	7.1	7.7	7.2	7.4	6.4
13 Non Metallic	15.6	8.6	9.6	10.3	11.0	11.0
14 Iron & steel	3.6	11.1	11.7	12.2	12.3	10.6
15 Non Ferrous metal	12.4	14.0	14.4	14.5	14.4	13.9
16 Fabricated Metal	3.4	8.5	9.6	10.5	11.1	8.6
17 Machinery	4.3	6.7	8.2	8.9	9.4	7.3
18 Transport Equip	4.2	5.7	7.7	8.6	8.5	6.9
19 Oth manufacturing	-0.6	2.0	4.6	6.3	7.1	3.9
20 Elec Gas, Water						
21 Construction						
22 Trade						
23 Restaurant, Hotel	-2.8	-1.6	0.1	2.1	4.3	0.4
24 Transportation	0.0	2.1	4.4	6.2	7.4	4.0
25 Finance	5.0	7.3	8.2	8.7	9.1	7.6
27 Oth. Service	2.0	3.4	5.0	6.6	8.4	5.1
Total	4.4	6.9	8.2	8.6	9.2	7.4

7) Share of GDP by 26 Sectors

Sector	(unit: %)					
	0	1	2	3	4	5
		(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)
1 Farm food	10.8	8.8	7.3	5.7	3.7	2.4
2 Estate crops	2.8	2.3	1.9	1.4	1.0	0.7
3 Livestock	2.0	1.9	1.7	1.4	1.0	0.8
4 Forestry	1.5	1.5	1.0	0.7	0.5	0.4
5 Fishery	1.9	2.4	2.6	2.8	2.5	2.4
6 Oil & Gas	8.7	5.7	3.6	2.2	1.5	1.3
7 Non Oil Gas	7.3	2.5	2.6	2.7	2.7	2.5
8 Food	7.4	6.8	5.9	5.0	4.4	3.7
9 Textile	2.1	2.5	2.4	2.5	2.4	2.2
10 Wood	1.6	1.5	1.4	1.4	1.4	1.5
11 Paper	0.9	1.3	1.8	2.5	3.2	3.9
12 Chemical	5.7	7.3	8.4	8.8	8.3	7.5
13 Non Metallic	0.6	0.5	0.4	0.3	0.2	0.1
14 Iron & steel	0.5	0.8	1.1	1.6	2.4	3.5
15 Non Ferrous metal	0.2	0.4	0.6	1.0	1.4	2.0
16 Fabricated Metal	0.6	0.7	1.0	1.3	1.8	2.4
17 Machinery	1.4	2.6	3.8	4.8	5.8	6.7
18 Transport Equip	0.9	1.5	2.0	2.4	2.9	3.3
19 Oth manufacturing	0.1	0.3	0.4	0.5	0.6	0.8
20 Elec Gas Water	0.9	1.3	1.4	1.6	1.7	1.8
21 Construction	7.1	6.8	7.1	7.5	8.2	9.0
22 Trade	13.0	12.4	12.5	12.4	12.4	12.2
23 Restaurant/Hotel	3.5	3.9	4.2	4.4	4.6	4.7
24 Transportation	8.2	8.9	9.5	9.9	10.3	10.3
25 Finance	9.3	9.9	10.4	10.7	10.9	10.8
27 Oth Service	6.0	5.5	4.9	4.6	4.0	3.1
Total	100.0	100.0	100.0	100.0	100.0	100.0

8) Annual Growth Rate of GDP by 8 Sectors

Sector (IO Code)	(unit: %)					
	0-1	1-2	2-3	3-4	4-5	0-5 Average
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	
Agriculture(1-5)	5.1	5.2	4.8	2.2	3.1	4.1
Mining(6-7)	1.7	2.5	3.8	5.5	6.9	4.1
Manufacturing(8-19)	11.4	10.8	10.9	10.6	10.9	10.9
Light Industry(8-10,19)	7.5	6.2	7.5	7.4	7.5	7.2
Resource-based Industry(11-15)	13.1	12.6	11.6	10.9	11.3	11.9
Machinery(16-18)	19.4	16.0	14.2	13.4	12.9	15.2
Electricity, Gas & Water(20)	18.9	10.5	10.8	10.7	10.6	11.9
Construction(21)	6.8	9.3	13.0	10.6	11.2	9.6
Services(22-27)	7.9	8.8	9.1	8.9	8.6	8.7
Total	7.6	8.4	8.9	8.8	9.2	8.6

9) Share of GDP by 8 Sectors

Sector (IO Code)	(unit: %)					
	0	1	2	3	4	5
		(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)
Agriculture(1-5)	19.1	18.9	14.6	12.1	8.9	6.7
Mining(6-7)	19.9	8.2	6.2	4.9	4.2	3.8
Manufacturing(8-19)	22.0	26.1	29.1	32.0	34.8	37.6
Light Industry(8-10,19)	11.2	11.1	10.0	9.4	8.9	8.2
Resource-based Industry(11-15)	8.0	10.2	12.4	14.0	15.4	17.0
Machinery(16-18)	2.8	4.8	6.7	8.5	10.5	12.4
Electricity, Gas & Water(20)	0.9	1.3	1.4	1.6	1.7	1.8
Construction(21)	7.1	6.8	7.1	7.5	8.2	9.0
Services(22-27)	40.1	40.7	41.5	42.0	42.2	41.1
Total	100.0	100.0	100.0	100.0	100.0	100.0

2. Macro Indicator
1) Investment Share of GDP

Investment	(unit: %)					
	0	1	2	3	4	5
		(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)
Investment	34.0	30.7	32.5	34.6	38.1	42.2

2) Number of Skilled Labor Employment at the End of Each Period

Sector (IO Code)	(unit: thousand)					
	0	1	2	3	4	5
		(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)
Agriculture(1-5)	941	1,262	1,755	2,071	2,541	3,047
Manufacturing(8-19)	8,156	10,609	13,778	17,935	23,283	30,282
Others(6, 7, 20-27)	6,652	8,715	11,374	15,167	20,154	26,770
Total	15,749	20,586	26,909	35,174	45,978	60,099

3) Per Capita Consumption and Per Capita GDP

Per Capita Consumption (thousand Rp) (US\$)	(unit: thousand)					
	0	1	2	3	4	5
		(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)
Per Capita Consumption (thousand Rp)	995	1,322	1,788	2,472	3,350	4,611
Per Capita Consumption (US\$)	477	633	857	1,185	1,605	2,209
Per Capita GDP (thousand Rp)	1,452	1,949	2,695	3,858	5,542	8,193
Per Capita GDP (US\$)	696	930	1,291	1,843	2,655	3,925

Note: Exchange rate (Rp) of 1993 is utilized for conversion from Rupiah term to Dollar term in each period.

1. Optimum Solution

(Case 4-1)

1) Annual Growth Rate of Output by 26 Sectors (unit: %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	5.7	7.0	6.5	7.3	7.3	4.7
2 Estate crops	5.6	5.7	4.4	4.2	1.6	4.3
3 Livestock	7.9	8.1	6.4	4.5	3.9	6.1
4 Forestry	10.1	2.0	3.5	3.4	2.7	4.3
5 Fishery	14.5	11.8	11.9	9.2	10.2	11.5
6 Oil & Gas	-1.0	-1.0	-1.0	0.4	3.6	0.2
7 Non Oil/Gas	10.0	8.9	9.3	8.6	7.4	8.8
8 Food	6.4	4.1	4.8	4.8	5.2	5.0
9 Textile	5.6	7.6	8.0	7.2	5.6	6.8
10 Wood	6.3	3.7	6.1	6.8	6.3	5.8
11 Paper	13.2	13.5	12.9	11.9	11.7	12.6
12 Chemical	10.8	9.6	7.7	5.6	4.9	7.7
13 Non Metallic	0.9	-1.0	0.0	0.0	-1.0	-0.2
14 Iron & steel	13.7	14.3	14.9	14.9	14.6	14.5
15 Non Ferrous metal	20.0	15.9	15.5	14.9	14.4	16.1
16 Fabricated Metal	10.1	13.4	13.6	13.1	12.6	12.5
17 Machinery	19.8	14.2	17.0	10.5	9.6	13.2
18 Transport Equip	16.5	12.3	11.4	10.7	10.4	12.2
19 Oth manufacturing	34.0	14.6	12.7	11.9	11.6	16.7
20 Elec Gas/Water	16.8	10.4	10.7	10.7	10.5	11.8
21 Construction	6.8	9.1	10.1	10.1	9.9	9.2
22 Trade	6.6	8.5	8.7	8.6	8.6	8.2
23 Restaurant/Hotel	9.7	10.1	9.9	9.8	9.7	9.8
24 Transportation	9.5	9.8	9.8	9.4	9.1	9.5
25 Finance	9.3	9.4	9.4	9.1	8.9	9.2
27 Oth Service	2.9	3.9	4.3	3.9	3.9	3.8
Total	8.1	8.4	8.7	8.4	8.5	8.4

2) Annual Growth Rate of GDP by 26 Sectors (unit: %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	4.1	4.4	3.9	-0.2	-0.2	2.4
2 Estate crops	4.4	3.7	2.5	2.2	-0.3	2.5
3 Livestock	7.2	6.8	5.1	3.3	2.7	5.0
4 Forestry	8.9	0.1	1.6	1.5	0.8	2.5
5 Fishery	13.3	9.9	10.0	7.3	8.3	9.8
6 Oil & Gas	-1.0	-1.0	-1.0	0.4	3.6	0.2
7 Non Oil/Gas	10.0	8.9	9.3	8.6	7.4	8.8
8 Food	8.4	6.1	6.8	6.8	7.3	7.1
9 Textile	7.6	9.7	10.1	9.2	7.7	8.9
10 Wood	6.3	5.7	8.1	8.8	8.4	7.9
11 Paper	15.4	15.7	15.1	14.1	13.8	14.8
12 Chemical	13.0	11.8	9.8	7.7	7.0	9.8
13 Non Metallic	2.8	0.9	1.9	1.9	0.9	1.7
14 Iron & steel	15.9	16.3	17.1	17.2	16.8	16.7
15 Non Ferrous metal	22.3	18.2	17.7	17.1	16.6	18.4
16 Fabricated Metal	12.2	15.6	15.7	15.2	14.8	14.7
17 Machinery	22.1	16.4	14.1	12.6	11.7	15.3
18 Transport Equip	18.8	14.4	13.5	12.8	12.5	14.4
19 Oth manufacturing	36.6	16.8	14.9	14.0	13.8	18.9
20 Elec Gas/Water	16.8	10.4	10.7	10.7	10.5	11.8
21 Construction	6.8	9.1	10.1	10.1	9.9	9.2
22 Trade	6.6	8.5	8.7	8.6	8.6	8.2
23 Restaurant/Hotel	9.7	10.1	9.9	9.8	9.7	9.8
24 Transportation	9.5	9.8	9.8	9.4	9.1	9.5
25 Finance	9.3	9.4	9.4	9.1	8.9	9.2
27 Oth Service	2.9	3.9	4.3	3.9	3.9	3.8
Total	7.8	8.3	8.8	8.6	8.9	8.5

3) Annual Growth Rate of Consumption by 26 Sectors (unit: %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	10.0	10.0	8.3	2.0	2.0	6.4
2 Estate crops	10.0	8.0	2.0	2.0	2.0	4.7
3 Livestock	10.0	10.0	6.1	2.8	2.0	6.1
4 Forestry	2.0	2.0	2.0	2.0	2.0	2.0
5 Fishery	10.0	10.0	9.2	3.2	2.0	6.8
6 Oil & Gas						
7 Non Oil/Gas	10.0	10.0	10.0	10.0	10.0	10.0
8 Food	5.5	3.3	4.1	4.0	4.8	4.3
9 Textile	2.0	2.0	2.0	10.0	10.0	5.1
10 Wood	2.0	2.0	2.0	2.0	2.0	2.0
11 Paper	10.0	10.0	10.0	10.0	10.0	10.0
12 Chemical	10.0	10.0	10.0	10.0	10.0	10.0
13 Non Metallic	2.0	2.0	10.0	10.0	10.0	6.7
14 Iron & steel						
15 Non Ferrous metal	8.9	10.3	10.0	10.1	9.9	9.9
16 Fabricated Metal	10.0	10.0	10.0	10.0	10.0	10.0
17 Machinery	10.0	10.0	10.0	10.0	10.0	10.0
18 Transport Equip	10.0	10.0	10.0	10.0	10.0	10.0
19 Oth manufacturing	10.0	10.0	10.0	10.0	10.0	10.0
20 Elec Gas/Water	10.0	10.0	10.0	10.0	10.0	10.0
21 Construction	2.0	2.0	2.0	2.0	2.0	2.0
22 Trade	10.0	10.0	10.0	10.0	10.0	10.0
23 Restaurant/Hotel	10.0	10.0	10.0	10.0	10.0	10.0
24 Transportation	10.0	10.0	10.0	10.0	10.0	10.0
25 Finance	10.0	10.0	10.0	10.0	10.0	10.0
27 Oth Service	2.0	2.0	2.0	2.0	2.0	2.0
Total	7.8	7.7	8.0	7.6	8.2	7.9

4) Annual Growth Rate of Investment (unit: %)

Total	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
Total	5.5	9.3	10.4	10.3	10.1	9.1

5) Annual Growth Rate of Export by 26 Sectors (unit: %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	8.4	8.4	8.4	8.4	8.4	8.4
2 Estate crops	8.4	8.4	8.4	8.4	-1.4	5.8
3 Livestock	8.4	8.4	8.4	8.4	8.4	8.4
4 Forestry	8.4	-4.4	-4.4	-4.4	-4.4	-1.9
5 Fishery	8.4	8.4	8.4	8.4	8.4	8.4
6 Oil & Gas	1.9	1.9	1.9	1.9	1.9	1.9
7 Non Oil/Gas	8.4	8.4	8.4	8.4	8.4	8.4
8 Food	1.9	1.9	1.9	1.9	-1.4	0.6
9 Textile	7.3	10.7	10.3	7.1	5.1	8.1
10 Wood	0.7	-4.4	-4.4	-4.4	-4.4	-3.4
11 Paper	14.9	14.9	14.9	14.9	14.9	14.9
12 Chemical	8.4	8.4	8.4	8.4	8.4	8.4
13 Non Metallic	14.9	-3.5	4.7	14.9	14.9	8.9
14 Iron & steel	14.9	14.9	14.9	14.9	14.9	14.9
15 Non Ferrous metal	14.9	14.9	14.9	14.9	14.9	14.9
16 Fabricated Metal	14.9	14.9	14.9	14.9	14.9	14.9
17 Machinery	14.9	14.9	14.9	14.9	14.9	14.9
18 Transport Equip	14.9	14.9	14.9	14.9	14.9	14.9
19 Oth manufacturing	14.9	14.9	14.9	14.9	14.9	14.9
20 Elec Gas/Water						
21 Construction						
22 Trade	8.4	8.4	8.4	8.4	8.4	8.4
23 Restaurant/Hotel	8.4	8.4	8.4	8.4	8.4	8.4
24 Transportation	8.4	8.4	8.4	8.4	8.4	8.4
25 Finance	8.4	8.4	8.4	8.4	8.4	8.4
27 Oth Service	8.4	8.4	8.4	-4.4	-4.4	3.1
Total	6.7	7.4	8.4	8.6	8.9	8.0

6) Annual Growth Rate of Import by 26 Sectors (unit: %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	1.7	2.9	3.9	4.2	4.9	3.5
2 Estate crops	-1.8	2.1	3.3	6.5	7.6	3.5
3 Livestock	-5.1	-1.6	-0.7	-0.2	0.5	-1.5
4 Forestry	14.9	14.1	14.2	14.3	14.5	14.4
5 Fishery	-3.1	-2.2	-1.2	-0.2	1.1	-1.1
6 Oil & Gas	18.5	9.6	7.7	5.6	4.9	9.2
7 Non Oil/Gas	4.5	7.0	7.8	7.9	8.4	7.1
8 Food	1.9	3.1	4.2	4.4	6.3	4.0
9 Textile	5.8	8.3	8.3	7.9	7.3	7.5
10 Wood	6.7	7.7	8.5	8.6	8.5	8.0
11 Paper	6.7	9.0	10.3	10.3	10.6	9.4
12 Chemical	2.5	2.4	7.7	7.2	7.3	6.4
13 Non Metallic	15.7	8.4	9.7	9.8	9.8	10.6
14 Iron & steel	3.5	10.9	11.7	11.8	11.7	10.3
15 Non Ferrous metal	12.7	14.0	14.4	14.2	13.9	13.9
16 Fabricated Metal	3.4	8.3	9.7	9.9	9.9	8.2
17 Machinery	4.2	6.5	8.1	8.6	8.7	7.2
18 Transport Equip	3.8	5.3	7.3	8.3	9.0	6.7
19 Oth manufacturing	-0.8	1.8	4.1	5.9	7.3	3.6
20 Elec Gas/Water						
21 Construction						
22 Trade						
23 Restaurant/Hotel	-2.7	-1.6	0.1	2.0	4.0	0.3
24 Transportation	0.1	2.1	4.4	6.1	7.2	3.9
25 Finance	5.0	7.1	8.2	8.6	8.8	7.5
27 Oth Service	1.9	3.2	4.7	6.3	8.1	4.8
Total	4.3	6.9	8.1	8.4	8.8	7.3

7) Share of GDP by 26 Sectors

Sector	(unit: %)					
	0	1	2	3	4	5
		(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)
1 Farm food	10.8	9.1	7.6	6.0	3.9	2.5
2 Estate crops	2.8	2.4	1.9	1.4	1.0	0.7
3 Livestock	7.0	1.9	1.8	1.5	1.2	0.9
4 Forestry	1.5	1.6	1.1	0.8	0.5	0.4
5 Fishery	1.9	2.5	2.7	2.8	2.6	2.6
6 Oil & Gas	8.7	5.6	3.6	2.2	1.5	1.2
7 Non Oil Gas	2.3	2.5	2.6	2.6	2.6	2.5
8 Food	7.4	7.6	6.8	6.2	5.7	5.3
9 Textile	2.1	2.1	2.2	2.4	2.4	2.3
10 Wood	1.6	1.7	1.5	1.4	1.4	1.4
11 Paper	0.9	1.3	1.8	2.3	3.0	3.7
12 Chemical	5.7	7.2	8.4	8.8	8.4	7.7
13 Non Metals	0.6	0.5	0.3	0.2	0.2	0.1
14 Iron & steel	0.5	0.8	1.1	1.6	2.3	3.3
15 Non Ferrous metal	0.2	0.4	0.7	1.0	1.4	2.0
16 Fabricated Metal	0.6	0.7	1.0	1.3	1.8	2.3
17 Machinery	1.4	2.6	3.7	4.7	5.6	6.4
18 Transport Equip	0.9	1.4	1.9	2.3	2.8	3.3
19 Oth manufacturing	0.1	0.4	0.5	0.7	0.9	1.1
20 Elec Gas Water	0.9	1.3	1.4	1.5	1.7	1.8
21 Construction	7.1	6.8	7.0	7.4	8.0	8.3
22 Trade	13.0	12.3	12.4	12.4	12.4	12.7
23 Restaurant/Hotel	3.5	3.8	4.2	4.4	4.6	4.8
24 Transportation	8.2	8.9	9.5	9.9	10.3	10.4
25 Finance	9.3	9.9	10.4	10.7	10.9	10.9
27 Oth Service	6.0	4.8	3.9	3.1	2.5	2.0
Total	100.0	100.0	100.0	100.0	100.0	100.0

8) Annual Growth Rate of GDP by 8 Sectors

Sector (IO Code)	(unit: %)					
	0	1	2	3	4	5
		(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)
Agriculture(1-5)	6.0	5.1	4.9	2.4	2.9	4.2
Mining(6-7)	1.7	2.5	3.8	5.1	6.1	3.8
Manufacturing(8-19)	11.9	10.9	11.0	10.5	10.6	11.0
Light Industry(8-10,19)	8.7	7.1	8.1	8.1	8.1	8.0
Resource-based Industry(11-15)	13.2	12.5	11.6	10.7	11.0	11.8
Machinery(16-18)	19.3	15.7	14.2	13.1	12.5	14.9
Electricity Gas & Water(20)	16.8	10.4	10.7	10.7	10.5	11.8
Construction(21)	6.8	9.1	10.1	10.1	9.9	9.2
Services(22-27)	7.6	8.7	8.9	8.7	8.7	8.5
Total	7.8	8.3	8.8	8.6	8.9	8.5

9) Share of GDP by 8 Sectors

Sector (IO Code)	(unit: %)					
	0	1	2	3	4	5
		(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)
Agriculture(1-5)	19.1	17.5	15.0	12.5	9.4	7.0
Mining(6-7)	10.9	8.2	6.2	4.9	4.2	3.6
Manufacturing(8-19)	22.0	26.5	29.9	33.1	36.1	38.9
Light Industry(8-10,19)	11.2	11.7	11.1	10.7	10.5	10.1
Resource-based Industry(11-15)	8.0	10.1	12.3	14.0	15.3	16.8
Machinery(16-18)	2.8	4.7	6.6	8.4	10.2	12.0
Electricity Gas & Water(20)	0.9	1.3	1.4	1.5	1.7	1.8
Construction(21)	7.1	6.8	7.0	7.4	8.0	8.3
Services(22-27)	40.1	39.8	40.4	40.5	40.8	40.3
Total	100.0	100.0	100.0	100.0	100.0	100.0

2. Macro Indicator
1) Investment Share of GDP

Investment	(unit: %)					
	0	1	2	3	4	5
		(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)
Investment	34.0	30.5	32.0	34.3	37.1	39.0

2) Number of Skilled Labor Employment at the End of Each Period

Sector (IO Code)	(unit: thousand)					
	0	1	2	3	4	5
		(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)
Agriculture(1-5)	941	1,412	1,734	2,156	2,501	2,843
Manufacturing(8-19)	8,156	10,970	14,542	19,293	25,554	33,903
Others(6, 7, 20-27)	6,652	8,204	10,632	13,725	17,923	23,352
Total	15,749	20,586	26,909	35,174	45,978	60,099

3) Per Capita Consumption and Per Capita GDP

Per Capita Consumption (thousand Rp) (US\$)						
	0	1	2	3	4	5
		(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)
Per Capita Consumption	995	1,339	1,807	2,486	3,393	4,789
Per Capita GDP	477	642	866	1,191	1,626	2,295
(thousand Rp) (US\$)	1,452	1,956	2,707	3,866	5,518	8,062
	696	937	1,297	1,852	2,644	3,863

Note: Exchange rate (\$ Rp) of 1993 is utilized for conversion from Rupiah term to Dollar term in each period.

1. Optimum Solution

(Case 4-2)

1) Annual Growth Rate of Output by 26 Sectors (unit: %)

Sector	0-1	1-2	2-3	3-4	4-5	0-5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
1 Farm food	4.6	7.0	5.1	2.7	2.3	4.3
2 Estate crops	4.8	6.3	4.1	5.1	4.1	4.9
3 Livestock	6.9	8.0	4.2	4.2	3.9	5.4
4 Forestry	8.4	2.4	4.2	4.1	3.8	4.5
5 Fishery	14.0	11.8	10.4	10.3	10.1	11.3
6 Oil & Gas	-1.0	-1.0	-1.0	0.0	3.6	0.1
7 Non Oil/Gas	10.0	8.5	9.2	8.6	7.6	8.8
8 Food	3.6	3.3	3.5	3.8	3.9	3.6
9 Textile	8.3	3.7	6.1	2.7	0.3	4.2
10 Wood	3.5	4.1	6.5	7.0	6.7	5.6
11 Paper	13.5	14.5	14.3	13.6	12.8	13.8
12 Chemical	10.8	9.5	7.3	5.6	4.9	7.6
13 Non Metallic	0.9	-0.3	-1.0	-0.4	-1.0	-0.4
14 Iron & steel	13.3	13.6	14.7	14.9	14.8	14.3
15 Non Ferrous metal	19.5	15.4	15.4	15.0	14.3	16.0
16 Fabricated Metal	9.5	12.6	13.3	13.0	12.8	12.2
17 Machinery	20.0	12.6	11.3	9.9	9.4	12.6
18 Transport Equip	13.9	10.7	10.8	10.2	10.2	11.7
19 Oth manufacturing	28.3	12.3	11.7	11.4	11.5	14.9
20 Elec Gas/Water	16.9	10.5	10.8	10.8	10.6	11.9
21 Construction	6.9	8.4	9.9	9.9	10.1	9.0
22 Trade	6.6	8.3	8.6	8.6	8.6	8.2
23 Restaurant/Hotel	9.6	10.1	9.9	9.8	9.7	9.8
24 Transportation	9.4	9.8	9.7	9.5	9.2	9.5
25 Finance	9.2	9.4	9.3	9.2	9.0	9.2
27 Oth. Service	7.4	9.7	9.7	9.5	9.4	9.1
Total	7.9	8.3	8.6	8.5	8.7	8.4

2) Annual Growth Rate of GDP by 26 Sectors (unit: %)

Sector	0-1	1-2	2-3	3-4	4-5	0-5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
1 Farm food	3.1	4.4	2.5	0.2	-0.3	2.0
2 Estate crops	3.6	4.3	2.2	3.1	2.1	3.1
3 Livestock	6.1	6.7	2.9	2.9	2.7	4.2
4 Forestry	7.1	0.5	2.2	2.2	1.8	2.8
5 Fishery	12.9	9.9	8.5	8.5	8.2	9.6
6 Oil & Gas	-1.0	-1.0	-1.0	0.0	3.6	0.1
7 Non Oil/Gas	10.0	8.5	9.2	8.6	7.6	8.8
8 Food	3.6	3.3	3.5	3.8	3.9	3.6
9 Textile	10.4	5.7	8.1	4.7	2.2	6.2
10 Wood	3.5	4.1	6.5	7.0	6.7	5.6
11 Paper	15.7	16.7	16.5	15.8	15.0	15.9
12 Chemical	13.0	11.6	9.3	7.7	7.0	9.7
13 Non Metallic	2.9	1.6	0.9	1.5	0.9	1.6
14 Iron & steel	15.5	15.7	17.0	17.1	17.0	16.3
15 Non Ferrous metal	21.8	17.2	17.6	17.2	16.7	18.2
16 Fabricated Metal	11.6	14.8	15.5	15.2	15.0	14.4
17 Machinery	22.3	14.7	13.5	12.1	11.5	14.7
18 Transport Equip	15.1	12.8	12.9	12.4	12.3	13.3
19 Oth manufacturing	30.8	14.5	13.9	13.6	13.7	17.1
20 Elec Gas/Water	16.9	10.5	10.8	10.8	10.6	11.9
21 Construction	6.9	8.4	9.9	9.9	10.1	9.0
22 Trade	6.6	8.3	8.6	8.6	8.6	8.2
23 Restaurant/Hotel	9.6	10.1	9.9	9.8	9.7	9.8
24 Transportation	9.4	9.8	9.7	9.5	9.2	9.5
25 Finance	9.2	9.4	9.3	9.2	9.0	9.2
27 Oth. Service	7.4	9.7	9.7	9.5	9.4	9.1
Total	7.6	8.3	8.7	8.8	9.1	8.5

3) Annual Growth Rate of Consumption by 26 Sectors (unit: %)

Sector	0-1	1-2	2-3	3-4	4-5	0-5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
1 Farm food	10.0	10.0	6.4	2.7	2.0	6.2
2 Estate crops	10.0	9.9	2.0	5.1	2.0	5.8
3 Livestock	10.0	10.0	2.0	2.0	2.0	5.1
4 Forestry	2.0	2.0	2.0	2.0	2.0	2.0
5 Fishery	10.0	10.0	6.8	5.1	2.0	6.7
6 Oil & Gas						
7 Non Oil/Gas	10.0	10.0	10.0	10.0	10.0	10.0
8 Food	2.0	2.0	2.0	2.0	2.0	2.0
9 Textile	2.0	2.0	2.0	2.0	2.0	2.0
10 Wood	2.0	2.0	2.0	2.0	2.0	2.0
11 Paper	10.0	10.0	9.1	10.0	10.0	9.8
12 Chemical	10.0	10.0	10.0	10.0	10.0	10.0
13 Non Metallic	2.0	2.0	2.0	2.0	2.0	2.0
14 Iron & steel						
15 Non Ferrous metal	0.9	2.9	1.3	2.4	2.1	1.9
16 Fabricated Metal	2.0	2.0	2.0	2.0	2.0	2.0
17 Machinery	9.8	2.0	2.0	2.0	2.0	3.5
18 Transport Equip	2.0	2.0	2.0	2.0	2.0	2.0
19 Oth manufacturing	2.0	2.0	2.0	2.0	2.0	2.0
20 Elec Gas/Water	10.0	10.0	10.0	10.0	10.0	10.0
21 Construction	2.0	2.0	2.0	10.0	10.0	5.1
22 Trade	10.0	10.0	10.0	10.0	10.0	10.0
23 Restaurant/Hotel	10.0	10.0	10.0	10.0	10.0	10.0
24 Transportation	10.0	10.0	10.0	10.0	10.0	10.0
25 Finance	10.0	10.0	10.0	10.0	10.0	10.0
27 Oth. Service	7.9	10.0	10.0	10.0	10.0	9.5
Total	7.5	8.1	7.9	8.1	8.4	8.0

4) Annual Growth Rate of Investment (unit: %)

Sector	0-1	1-2	2-3	3-4	4-5	0-5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
Total	5.6	8.5	10.1	10.1	10.2	8.9

5) Annual Growth Rate of Export by 26 Sectors (unit: %)

Sector	0-1	1-2	2-3	3-4	4-5	0-5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
1 Farm food	8.4	8.4	8.4	8.4	8.4	8.4
2 Estate crops	8.4	8.4	8.4	8.4	8.4	8.4
3 Livestock	8.4	8.4	8.4	8.4	8.4	8.4
4 Forestry	8.4	8.4	8.4	8.4	8.4	8.4
5 Fishery	8.4	8.4	8.4	8.4	8.4	8.4
6 Oil & Gas	1.9	1.9	1.9	1.9	1.9	1.9
7 Non Oil/Gas	8.4	8.4	8.4	8.4	8.4	8.4
8 Food	1.9	1.9	1.9	1.9	-4.4	0.6
9 Textile	11.1	5.1	7.9	3.5	-0.2	5.4
10 Wood	-4.4	-4.4	-4.4	-4.4	-4.4	-4.4
11 Paper	14.9	14.9	14.9	14.9	14.9	14.9
12 Chemical	8.4	8.4	8.4	8.4	8.4	8.4
13 Non Metallic	14.9	2.1	4.9	14.9	14.9	10.2
14 Iron & steel	14.9	14.9	14.9	14.9	14.9	14.9
15 Non Ferrous metal	14.9	14.9	14.9	14.9	14.9	14.9
16 Fabricated Metal	14.9	14.9	14.9	14.9	14.9	14.9
17 Machinery	14.9	14.9	14.9	14.9	14.9	14.9
18 Transport Equip	14.9	14.9	14.9	14.9	14.9	14.9
19 Oth manufacturing	14.9	14.9	14.9	14.9	14.9	14.9
20 Elec Gas/Water						
21 Construction						
22 Trade	8.4	8.4	8.4	8.4	8.4	8.4
23 Restaurant/Hotel	8.4	8.4	8.4	8.4	8.4	8.4
24 Transportation	8.4	8.4	8.4	8.4	8.4	8.4
25 Finance	8.4	8.4	8.4	8.4	8.4	8.4
27 Oth. Service	8.4	8.4	8.4	8.4	8.4	8.4
Total	6.8	6.9	8.1	8.4	8.9	7.8

6) Annual Growth Rate of Import by 26 Sectors (unit: %)

Sector	0-1	1-2	2-3	3-4	4-5	0-5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
1 Farm food	-0.3	2.2	2.8	3.4	3.9	2.3
2 Estate crops	-3.6	1.3	2.1	2.9	3.4	1.2
3 Livestock	-5.3	-1.7	-1.6	-0.7	0.1	-1.9
4 Forestry	14.8	14.1	-3.0	-2.4	-1.6	4.1
5 Fishery	-3.6	-2.6	-2.0	-1.1	-0.2	-1.9
6 Oil & Gas	18.4	9.5	7.5	5.5	4.9	9.1
7 Non Oil/Gas	4.3	6.8	7.4	7.8	8.5	7.0
8 Food	1.0	2.9	3.0	4.1	6.3	3.5
9 Textile	6.9	6.4	7.5	6.4	6.0	6.6
10 Wood	5.9	7.7	8.5	8.6	8.6	7.8
11 Paper	6.8	9.8	11.4	11.9	11.7	10.3
12 Chemical	2.7	6.9	7.4	7.1	7.2	6.3
13 Non Metallic	15.7	7.7	9.4	9.7	9.9	10.4
14 Iron & steel	5.0	9.9	11.4	11.6	11.9	9.9
15 Non Ferrous metal	12.3	13.5	14.3	14.2	14.0	13.7
16 Fabricated Metal	3.5	7.7	9.5	9.8	10.1	8.1
17 Machinery	4.4	5.6	7.6	8.1	8.5	6.8
18 Transport Equip	3.4	5.0	7.2	8.2	9.0	6.5
19 Oth manufacturing	-0.5	2.3	4.8	6.6	7.9	4.2
20 Elec Gas/Water						
21 Construction						
22 Trade						
23 Restaurant/Hotel	-2.8	-1.7	0.0	1.0	4.1	0.3
24 Transportation	0.0	2.1	4.4	6.1	7.3	3.9
25 Finance	3.0	7.0	8.1	8.6	8.8	7.5
27 Oth. Service	2.2	3.8	5.3	7.0	8.6	5.4
Total	4.3	6.4	7.8	8.2	8.7	7.1

7) Share of GDP by 26 Sectors

Sector	(unit: %)					
	0	1	2	3	4	5
		(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)
1 Farm food	16.8	8.7	7.3	5.4	3.6	2.3
2 Estate crops	2.8	2.3	1.9	1.4	1.1	0.8
3 Livestock	2.0	1.9	1.7	1.3	1.0	0.7
4 Forestry	1.5	1.5	1.0	0.7	0.5	0.4
5 Fishery	1.9	2.4	2.6	2.6	2.6	1.5
6 Oil & Gas	8.7	5.7	3.6	2.3	1.5	1.2
7 Non Oil, Gas	7.3	2.5	2.6	2.6	2.6	2.4
8 Food	7.4	6.7	5.8	5.0	4.4	3.8
9 Textile	2.1	2.4	2.1	2.1	1.7	1.2
10 Wood	1.6	1.5	1.3	1.3	1.4	1.3
11 Paper	0.9	1.3	1.9	2.7	3.7	4.8
12 Chemical	5.7	7.3	8.4	8.7	8.3	7.5
13 Non Metallic	0.6	0.5	0.3	0.2	0.2	0.1
14 Iron & steel	0.5	0.8	1.0	1.5	2.2	3.1
15 Non Ferrous metal	0.2	0.4	0.6	0.9	1.4	1.9
16 Fabricated Metal	0.6	0.7	0.9	1.2	1.7	2.2
17 Machinery	1.4	2.6	3.5	4.3	5.0	5.6
18 Transport Equip	0.9	1.3	1.6	1.9	2.3	2.6
19 Oth manufacturing	0.1	0.3	0.4	0.5	0.6	0.7
20 Elec Gas, Water	0.9	1.3	1.4	1.6	1.7	1.9
21 Construction	7.1	6.8	6.9	7.3	7.6	8.0
22 Trade	13.0	12.4	12.5	12.4	12.3	12.0
23 Restaurant, Hotel	3.5	3.9	4.2	4.4	4.7	4.8
24 Transportation	8.2	8.9	9.5	10.0	10.3	10.3
25 Finance	9.3	9.9	10.4	10.8	10.9	10.9
27 Oth. Service	6.0	6.0	6.4	6.7	6.9	7.0
Total	100.0	100.0	100.0	100.0	100.0	100.0

8) Annual Growth Rate of GDP by 8 Sectors

Sector	(unit: %)					
	0-1	1-2	2-3	3-4	4-5	0-5
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
Agriculture(1-3)	3.0	5.2	3.7	3.1	3.2	4.0
Mining(6-7)	1.7	2.3	3.7	4.9	6.2	3.8
Manufacturing(8-19)	11.0	10.2	10.5	10.3	10.5	10.3
Light Industry(8-10,19)	6.9	5.8	6.9	6.6	6.4	6.5
Resource-based Industry(11-15)	13.1	12.5	11.5	11.1	11.4	11.9
Machinery(16-18)	18.5	14.2	13.7	12.7	12.4	14.3
Electricity, Gas & Water(20)	16.9	10.5	10.8	10.8	10.6	11.9
Construction(21)	6.9	8.4	9.9	9.9	10.1	9.0
Services(22-27)	8.2	9.3	9.3	9.2	9.1	9.0
Total	7.6	8.3	8.7	8.8	9.1	8.5

9) Share of GDP by 8 Sectors

Sector	(unit: %)					
	0	1	2	3	4	5
(IO Code)		(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)
Agriculture(1-5)	19.1	16.8	14.5	11.5	8.8	6.7
Mining(6-7)	10.9	8.2	6.2	4.9	4.1	3.6
Manufacturing(8-19)	22.0	25.7	28.0	30.5	32.6	34.8
Light Industry(8-10,19)	11.2	10.9	9.6	8.9	8.0	7.1
Resource-based Industry(11-15)	8.0	10.2	12.4	14.1	15.6	17.4
Machinery(16-18)	2.8	4.6	6.0	7.5	9.0	10.4
Electricity, Gas & Water(20)	0.9	1.3	1.4	1.6	1.7	1.9
Construction(21)	7.1	6.8	6.9	7.3	7.6	8.0
Services(22-27)	43.1	41.1	43.0	44.3	45.1	45.1
Total	100.0	100.0	100.0	100.0	100.0	100.0

2. Macro Indicator

1) Investment Share of GDP

Investment	(unit: %)					
	0	1	2	3	4	5
		(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)
Investment	34.0	30.9	31.2	33.3	35.4	37.3

2) Number of Skilled Labor Employment at the End of Each Period

Sector	(unit: thousand)					
	0	1	2	3	4	5
(IO Code)		(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)
Agriculture(1-5)	941	1,262	1,706	2,027	2,543	2,999
Manufacturing(8-19)	8,156	10,197	12,932	16,408	20,793	26,389
Others(6, 7, 20-27)	6,652	9,127	12,771	16,739	22,642	30,711
Total	15,749	20,586	26,909	35,174	45,978	60,099

3) Per Capita Consumption and Per Capita GDP

Per Capita Consumption	(unit: thousand Rp)					
	0	1	2	3	4	5
		(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)
Per Capita Consumption	995	1,321	1,815	2,487	3,461	4,932
(US\$)	477	633	870	1,191	1,658	2,363
Per Capita GDP	1,452	1,941	2,690	3,816	5,491	8,078
(US\$)	696	930	1,289	1,829	2,631	3,870

Note: Exchange rate (S/Rp) of 1993 is utilized for conversion from Rupiah term to US\$ term in each period.

1. Optimum Solution

(Case 5)

1) Annual Growth Rate of Output by 26 Sectors (unit %)

Sector	0-1	1-2	2-3	3-4	4-5	0-5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
1 Farm food	5.4	6.8	7.5	8.1	2.1	6.0
2 Estate crops	5.4	6.2	7.1	5.1	3.9	5.5
3 Livestock	7.6	7.8	8.0	5.2	3.5	6.4
4 Forestry	9.9	2.7	3.1	4.2	3.6	4.7
5 Fishery	14.3	11.7	12.3	13.0	10.0	12.2
6 Oil & Gas	1.1	4.6	5.5	7.2	8.7	5.4
7 Non Oil Gas	10.3	9.2	8.6	8.8	7.7	8.9
8 Food	5.6	3.1	3.5	3.8	3.8	4.0
9 Textile	5.0	5.6	10.0	6.6	8.2	7.1
10 Wood	5.8	4.4	5.8	7.5	7.3	6.1
11 Paper	11.9	13.8	13.6	11.9	11.2	12.5
12 Chemical	10.9	9.6	7.9	6.9	4.9	8.0
13 Non Metallic	-0.2	2.3	1.1	0.4	-1.0	0.5
14 Iron & steel	14.3	14.4	13.7	15.3	15.3	14.6
15 Non Ferrous metal	18.1	14.1	13.4	13.7	13.4	14.5
16 Fabricated Metal	10.6	13.5	12.4	13.2	12.7	12.5
17 Machinery	20.9	14.3	10.9	10.5	9.8	13.2
18 Transport Equip	17.3	12.4	10.8	10.7	8.4	11.9
19 Oth manufacturing	27.6	11.5	10.1	10.0	9.9	13.6
20 Elec Gas Water	16.8	10.5	10.8	10.8	10.5	11.8
21 Construction	8.0	9.6	8.9	10.6	11.0	9.6
22 Trade	6.9	8.6	8.5	8.8	8.8	8.3
23 Restaurant/Hotel	9.7	10.1	9.9	9.9	9.7	9.9
24 Transportation	9.6	9.9	9.7	9.6	9.2	9.6
25 Finance	9.3	9.4	9.4	9.3	9.0	9.3
27 Oth Service	3.0	4.9	9.3	4.7	3.8	5.1
Total	8.2	8.5	8.8	9.0	8.5	8.6

2) Annual Growth Rate of GDP by 26 Sectors (unit %)

Sector	0-1	1-2	2-3	3-4	4-5	0-5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
1 Farm food	3.9	4.2	4.9	5.5	-0.4	3.6
2 Estate crops	4.2	4.2	5.1	3.1	1.9	3.7
3 Livestock	6.9	6.5	6.7	4.0	2.3	5.1
4 Forestry	8.7	0.8	1.2	2.2	1.7	2.9
5 Fishery	13.2	9.8	10.4	11.0	8.1	10.5
6 Oil & Gas	1.1	4.6	5.5	7.2	8.7	5.4
7 Non Oil Gas	10.3	9.2	8.6	8.8	7.7	8.9
8 Food	7.6	5.1	5.5	5.8	5.8	6.0
9 Textile	7.0	7.7	12.2	8.7	10.3	9.2
10 Wood	7.8	6.5	7.8	9.5	9.4	8.2
11 Paper	14.1	16.0	15.8	14.0	13.3	14.6
12 Chemical	13.0	11.7	10.0	9.0	7.0	10.1
13 Non Metallic	1.7	4.3	3.1	2.4	0.9	2.5
14 Iron & steel	16.5	16.6	15.9	17.5	17.5	16.8
15 Non Ferrous metal	20.3	16.3	15.6	15.9	15.6	16.7
16 Fabricated Metal	12.7	15.7	14.5	15.4	14.8	14.6
17 Machinery	23.2	16.5	13.0	12.6	11.9	15.4
18 Transport Equip	19.6	14.6	12.9	12.9	10.5	14.0
19 Oth manufacturing	30.0	13.7	12.2	12.1	12.0	15.8
20 Elec Gas Water	16.8	10.5	10.8	10.8	10.5	11.8
21 Construction	8.0	9.6	8.9	10.6	11.0	9.6
22 Trade	6.9	8.6	8.5	8.8	8.8	8.3
23 Restaurant/Hotel	9.7	10.1	9.9	9.9	9.7	9.9
24 Transportation	9.6	9.9	9.7	9.6	9.2	9.6
25 Finance	9.3	9.4	9.4	9.3	9.0	9.3
27 Oth Service	3.0	4.9	9.3	4.7	3.8	5.1
Total	8.0	8.6	9.0	9.2	8.9	8.7

3) Annual Growth Rate of Consumption by 26 Sectors (unit %)

Sector	0-1	1-2	2-3	3-4	4-5	0-5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
1 Farm food	10.0	10.0	10.0	10.0	2.0	8.4
2 Estate crops	10.0	10.0	10.0	4.1	2.0	7.2
3 Livestock	10.0	10.0	10.0	4.5	2.0	7.2
4 Forestry	2.0	2.0	2.0	2.0	2.0	2.0
5 Fishery	10.0	10.0	10.0	10.0	3.9	8.7
6 Oil & Gas						
7 Non Oil Gas	10.0	10.0	10.0	10.0	10.0	10.0
8 Food	4.5	2.0	2.0	2.0	2.0	2.5
9 Textile	2.0	2.0	2.0	2.0	2.0	2.0
10 Wood	2.0	2.0	2.0	2.0	2.0	2.0
11 Paper	10.0	10.0	10.0	10.0	10.0	10.0
12 Chemical	10.0	10.0	10.0	10.0	10.0	10.0
13 Non Metallic	2.0	2.0	2.0	2.0	10.0	3.6
14 Iron & steel						
15 Non Ferrous metal	8.9	10.3	10.0	10.1	1.9	8.2
16 Fabricated Metal	10.0	10.0	10.0	10.0	2.0	8.4
17 Machinery	10.0	10.0	10.0	10.0	10.0	10.0
18 Transport Equip	10.0	10.0	10.0	10.0	2.0	8.4
19 Oth manufacturing	2.0	2.0	2.0	2.0	2.0	2.0
20 Elec Gas Water	10.0	10.0	10.0	10.0	10.0	10.0
21 Construction	2.0	2.0	2.0	2.0	2.0	2.0
22 Trade	10.0	10.0	10.0	10.0	10.0	10.0
23 Restaurant/Hotel	10.0	10.0	10.0	10.0	10.0	10.0
24 Transportation	10.0	10.0	10.0	10.0	10.0	10.0
25 Finance	10.0	10.0	10.0	10.0	10.0	10.0
27 Oth Service	2.0	3.3	9.6	3.2	2.0	4.0
Total	7.5	7.6	8.7	8.3	7.3	7.9

4) Annual Growth Rate of Investment (unit %)

Total	0-1	1-2	2-3	3-4	4-5	0-5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
Total	6.8	9.9	9.1	10.9	11.2	9.6

5) Annual Growth Rate of Export by 26 Sectors (unit %)

Sector	0-1	1-2	2-3	3-4	4-5	0-5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
1 Farm food	8.4	8.4	8.4	8.4	8.4	8.4
2 Estate crops	8.4	8.4	8.4	8.4	8.4	8.4
3 Livestock	8.4	8.4	8.4	8.4	8.4	8.4
4 Forestry	-4.4	-4.4	-4.4	-4.4	-4.4	-4.4
5 Fishery	8.4	8.4	8.4	8.4	8.4	8.4
6 Oil & Gas	8.4	8.4	8.4	8.4	8.4	8.4
7 Non Oil Gas	8.4	8.4	8.4	8.4	8.4	8.4
8 Food	1.9	1.9	1.9	1.9	-4.4	0.6
9 Textile	6.4	8.2	11.8	8.3	10.0	8.9
10 Wood	-1.0	-4.4	-4.4	-4.4	-4.4	-3.7
11 Paper	11.8	11.8	11.8	11.8	11.8	11.8
12 Chemical	8.4	8.4	8.4	8.4	8.4	8.4
13 Non Metallic	7.7	11.8	11.8	11.8	11.8	11.0
14 Iron & steel	11.8	11.8	11.8	11.8	11.8	11.8
15 Non Ferrous metal	11.8	11.8	11.8	11.8	11.8	11.8
16 Fabricated Metal	11.8	11.8	11.8	11.8	11.8	11.8
17 Machinery	11.8	11.8	11.8	11.8	11.8	11.8
18 Transport Equip	11.8	11.8	11.8	11.8	11.8	11.8
19 Oth manufacturing	11.8	11.8	11.8	11.8	11.8	11.8
20 Elec Gas Water						
21 Construction						
22 Trade	8.4	8.4	8.4	8.4	8.4	8.4
23 Restaurant/Hotel	8.4	8.4	8.4	8.4	8.4	8.4
24 Transportation	8.4	8.4	8.4	8.4	8.4	8.4
25 Finance	8.4	8.4	8.4	8.4	8.4	8.4
27 Oth Service	8.4	8.4	8.4	8.4	8.4	8.4
Total	7.1	7.6	8.6	8.5	8.8	8.1

6) Annual Growth Rate of Import by 26 Sectors (unit %)

Sector	0-1	1-2	2-3	3-4	4-5	0-5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
1 Farm food	1.1	2.1	2.9	3.4	3.6	2.6
2 Estate crops	-2.3	1.3	2.3	2.9	3.3	1.5
3 Livestock	-5.2	-1.7	-0.2	0.2	0.5	-1.3
4 Forestry	14.5	14.1	14.2	14.4	14.4	14.4
5 Fishery	-3.2	-2.5	-1.8	-0.9	-0.1	-1.1
6 Oil & Gas	13.5	9.6	7.9	6.9	4.9	9.5
7 Non Oil Gas	6.6	6.7	6.9	8.0	8.3	7.3
8 Food	1.6	2.8	4.4	4.6	5.8	3.8
9 Textile	3.4	7.4	6.2	7.6	8.2	6.9
10 Wood	6.7	8.0	8.2	8.8	8.8	8.1
11 Paper	9.6	7.4	9.7	9.9	9.9	9.3
12 Chemical	2.4	7.2	7.9	7.7	7.4	6.5
13 Non Metallic	13.3	8.2	8.2	10.1	10.6	11.0
14 Iron & steel	6.4	11.1	10.6	12.0	11.9	10.4
15 Non Ferrous metal	11.6	12.6	12.4	13.1	12.9	12.5
16 Fabricated Metal	4.4	8.8	8.7	10.4	10.8	8.6
17 Machinery	4.7	6.7	7.5	8.6	8.9	7.3
18 Transport Equip	4.1	5.6	7.5	8.3	7.2	6.5
19 Oth manufacturing	-0.8	1.9	4.4	5.8	6.5	3.5
20 Elec Gas Water						
21 Construction						
22 Trade						
23 Restaurant/Hotel	-2.7	-1.6	0.1	1.3	4.3	0.4
24 Transportation	0.1	2.2	4.4	6.3	7.4	4.0
25 Finance	5.3	7.5	8.1	8.9	9.0	7.8
27 Oth Service	1.9	3.2	4.9	6.3	8.1	4.9
Total	4.6	6.9	7.7	8.6	8.7	7.3

7) Share of GDP by 26 Sectors

Sector	(unit: %)					
	0	1	2	3	4	5
		(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)
1 Farm food	10.8	8.9	7.3	6.0	5.0	3.2
2 Estate crops	2.8	2.3	1.9	1.6	1.2	0.9
3 Livestock	2.0	1.9	1.7	1.6	1.2	0.9
4 Forestry	1.5	1.6	1.1	0.7	0.5	0.4
5 Fishery	1.9	2.4	2.6	2.8	3.0	2.9
6 Oil & Gas	8.7	6.2	5.2	4.4	4.0	4.0
7 Non Oil, Gas	2.3	2.5	2.6	2.6	2.5	2.4
8 Food	7.4	7.2	6.2	5.2	4.5	3.9
9 Textile	2.1	2.0	1.9	2.2	2.2	2.3
10 Wood	1.6	1.6	1.5	1.4	1.4	1.4
11 Paper	0.9	1.2	1.7	2.2	2.8	3.4
12 Chemical	5.7	7.2	8.3	8.7	8.6	7.9
13 Non Metablc	0.6	0.4	0.4	0.3	0.2	0.1
14 Iron & steel	0.5	0.8	1.1	1.5	2.2	3.2
15 Non Ferrous metal	0.2	0.4	0.6	0.7	1.0	1.3
16 Fabricated Metal	0.6	0.7	1.0	1.3	1.7	2.2
17 Machinery	1.4	2.7	3.8	4.6	5.3	6.1
18 Transport Equip	0.9	1.5	1.9	2.3	2.7	2.9
19 Oil manufacturing	0.1	0.3	0.4	0.4	0.5	0.5
20 Elec Gas, Water	0.9	1.3	1.4	1.5	1.6	1.7
21 Construction	7.1	7.1	7.5	7.4	7.9	8.7
22 Trade	13.0	12.4	12.4	12.1	11.9	11.9
23 Restaurant/Hotel	3.5	3.8	4.1	4.3	4.4	4.6
24 Transportation	8.2	8.8	9.4	9.7	9.8	10.0
25 Finance	9.3	9.9	10.3	10.4	10.5	10.6
27 Oth Service	6.0	4.8	4.0	4.1	3.3	2.6
Total	100.0	100.0	100.0	100.0	100.0	100.0

8) Annual Growth Rate of GDP by 8 Sectors

Sector	(unit: %)					
	0	1	2	3	4	5
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
Agriculture(1-5)	5.7	5.0	6.0	6.2	2.8	5.1
Mining(6-7)	3.5	6.0	6.6	7.8	8.3	6.4
Manufacturing(8-19)	11.6	10.7	10.6	10.7	10.4	10.8
Light Industry(8-10,19)	7.9	6.0	7.5	7.4	8.0	7.4
Resource-based Industry(11-15)	12.9	12.6	11.5	11.2	10.6	11.8
Machinery(16-18)	20.2	15.8	13.2	13.1	12.0	14.8
Electricity, Gas & Water(20)	13.8	10.5	10.8	10.8	10.5	11.8
Construction(21)	8.0	9.6	8.9	10.6	11.0	9.8
Services(22-27)	7.7	8.8	9.2	8.9	8.7	8.7
Total	8.0	8.6	9.0	9.2	8.9	8.7

9) Share of GDP by 8 Sectors

Sector	(unit: %)					
	0	1	2	3	4	5
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	
Agriculture(1-5)	19.1	17.2	14.6	12.6	11.0	8.3
Mining(6-7)	10.9	8.8	7.8	7.0	6.5	6.4
Manufacturing(8-19)	22.0	26.0	28.6	30.8	33.0	35.3
Light Industry(8-10,19)	11.2	11.2	9.9	9.3	8.5	8.2
Resource-based Industry(11-15)	8.0	10.0	12.0	13.4	14.7	15.9
Machinery(16-18)	2.8	4.9	6.7	8.1	9.7	11.2
Electricity, Gas & Water(20)	0.9	1.3	1.4	1.5	1.6	1.7
Construction(21)	7.1	7.1	7.5	7.4	7.9	8.7
Services(22-27)	40.1	39.7	40.2	40.6	40.0	39.6
Total	100.0	100.0	100.0	100.0	100.0	100.0

2. Macro Indicator

1) Investment Share of GDP

Investment	(unit: %)					
	0	1	2	3	4	5
		(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)
Investment	34.0	32.2	34.2	34.3	37.0	41.2

2) Number of Skilled Labor Employment at the End of Each Period

Sector	(unit: thousand)					
	0	1	2	3	4	5
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	
Agriculture(1-5)	941	1,393	1,792	2,228	2,944	3,326
Manufacturing(8-19)	8,156	10,507	13,735	17,891	25,188	30,168
Others(6, 7, 20-27)	6,652	8,600	11,382	15,055	19,846	26,605
Total	15,749	20,500	26,909	35,174	48,978	60,099

3) Per Capita Consumption and Per Capita GDP

Per Capita Consumption	(unit: thousand Rp)					
	0	1	2	3	4	5
		(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)
Per Capita Consumption	995	1,324	1,777	2,519	3,548	4,803
(US\$)	477	634	851	1,207	1,700	2,301
Per Capita GDP	1,452	1,970	2,760	3,976	5,833	8,493
(US\$)	696	944	1,323	1,905	2,795	4,069

Note: Exchange rate (Rp) of 1993 is utilized for conversion from Rupiah term to Dollar term in each period.

1. Optimum Solution

(Case 5-1)

1) Annual Growth Rate of Output by 26 Sectors (unit: %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	6.0	7.1	7.4	8.1	2.1	6.1
2 Estate crops	4.0	4.1	6.3	6.7	1.6	4.5
3 Livestock	8.3	8.2	7.9	8.3	3.4	7.2
4 Forestry	8.5	2.8	4.0	3.4	2.9	4.3
5 Fishery	14.6	11.9	17.3	13.0	10.2	12.4
6 Oil & Gas	1.0	4.5	5.7	6.9	8.4	5.3
7 Non Oil Gas	9.7	8.4	8.9	8.2	7.2	8.5
8 Food	7.2	4.6	4.1	5.3	4.7	5.2
9 Textile	7.1	5.9	9.3	7.0	8.5	7.6
10 Wood	3.8	4.7	6.8	6.8	6.6	5.7
11 Paper	12.5	13.2	12.3	11.9	11.3	12.2
12 Chemical	10.9	9.6	8.0	7.0	4.9	8.0
13 Non Metallic	-1.0	0.4	0.9	-1.0	-1.0	-0.4
14 Iron & steel	13.8	13.9	14.4	14.1	14.4	14.2
15 Non Ferrous metal	18.4	14.2	13.7	13.1	12.8	14.4
16 Fabricated Metal	10.2	13.0	13.1	12.2	12.1	12.1
17 Machinery	20.2	13.8	11.5	9.7	9.2	12.8
18 Transport Equip	16.8	12.0	11.0	10.2	10.2	12.0
19 Oth manufacturing	33.4	13.8	11.9	10.7	10.4	15.7
20 Elec Gas Water	13.8	8.8	10.7	10.7	10.4	10.9
21 Construction	7.5	9.1	9.9	9.4	9.9	9.2
22 Trade	6.7	8.4	8.7	8.6	8.5	8.2
23 Restaurant/Hotel	9.7	10.1	9.9	9.8	9.7	9.9
24 Transportation	9.3	9.4	9.3	10.0	9.4	9.5
25 Finance	9.4	9.4	9.2	9.4	9.0	9.3
27 Oth. Service	2.7	3.7	4.1	4.3	4.0	3.8
Total	8.2	8.4	8.7	8.8	8.3	8.5

2) Annual Growth Rate of GDP by 26 Sectors (unit: %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	4.5	4.5	4.8	5.5	-0.4	3.8
2 Estate crops	1.8	2.1	4.3	4.7	-0.3	2.7
3 Livestock	7.3	6.9	6.6	7.0	2.2	6.0
4 Forestry	7.3	0.8	2.1	1.5	1.0	2.3
5 Fishery	13.5	10.0	10.4	11.1	8.4	10.7
6 Oil & Gas	1.0	4.5	5.7	6.9	8.4	5.3
7 Non Oil Gas	9.7	8.4	8.9	8.2	7.2	8.5
8 Food	9.3	6.6	6.1	7.3	6.8	7.2
9 Textile	9.2	7.9	11.4	9.1	10.6	9.6
10 Wood	3.8	6.7	8.8	8.8	8.6	7.7
11 Paper	14.7	15.4	14.5	14.0	13.5	14.4
12 Chemical	13.0	11.7	10.1	9.1	6.9	10.1
13 Non Metallic	0.9	2.3	2.8	0.9	0.9	1.6
14 Iron & steel	16.0	16.1	16.6	16.3	16.6	16.3
15 Non Ferrous metal	20.6	16.4	15.9	15.2	14.9	16.6
16 Fabricated Metal	12.3	15.2	15.3	14.4	14.3	14.3
17 Machinery	22.5	16.0	13.7	11.8	11.3	15.0
18 Transport Equip	19.1	14.2	13.2	12.3	12.3	14.2
19 Oth manufacturing	36.0	16.0	14.0	12.9	12.5	18.0
20 Elec Gas Water	13.8	8.8	10.7	10.7	10.4	10.9
21 Construction	7.5	9.1	9.9	9.4	9.9	9.2
22 Trade	6.7	8.4	8.7	8.6	8.5	8.2
23 Restaurant/Hotel	9.7	10.1	9.9	9.8	9.7	9.9
24 Transportation	9.3	9.4	9.3	10.0	9.4	9.5
25 Finance	9.4	9.4	9.2	9.4	9.0	9.3
27 Oth. Service	2.7	3.7	4.1	4.3	4.0	3.8
Total	8.0	8.4	8.9	9.2	8.7	8.6

3) Annual Growth Rate of Consumption by 26 Sectors (unit: %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	10.0	10.0	10.0	10.0	2.0	8.4
2 Estate crops	2.0	2.0	10.0	10.0	2.0	5.1
3 Livestock	10.0	10.0	9.5	10.0	2.0	8.3
4 Forestry	2.0	2.0	2.0	2.0	2.0	2.0
5 Fishery	10.0	10.0	10.0	10.0	4.2	8.8
6 Oil & Gas						
7 Non Oil Gas	10.0	10.0	10.0	10.0	10.0	10.0
8 Food	6.5	4.0	3.1	4.4	4.1	4.4
9 Textile	2.0	2.0	2.0	10.0	10.0	5.1
10 Wood	2.0	2.0	2.0	2.0	2.0	2.0
11 Paper	7.9	10.0	10.0	10.0	10.0	9.6
12 Chemical	10.0	10.0	10.0	10.0	10.0	10.0
13 Non Metallic	2.0	2.0	10.0	10.0	10.0	6.7
14 Iron & steel						
15 Non Ferrous metal	8.9	10.3	10.0	10.1	9.9	9.9
16 Fabricated Metal	10.0	10.0	10.0	10.0	10.0	10.0
17 Machinery	10.0	10.0	10.0	10.0	10.0	10.0
18 Transport Equip	10.0	10.0	10.0	10.0	10.0	10.0
19 Oth manufacturing	10.0	10.0	10.0	10.0	10.0	10.0
20 Elec Gas Water	2.0	4.8	10.0	10.0	10.0	7.3
21 Construction	2.0	2.0	2.0	2.0	2.0	2.0
22 Trade	10.0	10.0	10.0	10.0	10.0	10.0
23 Restaurant/Hotel	10.0	10.0	10.0	10.0	10.0	10.0
24 Transportation	10.0	10.0	10.0	10.0	10.0	10.0
25 Finance	10.0	10.0	10.0	10.0	10.0	10.0
27 Oth. Service	2.0	2.0	2.0	2.0	2.0	2.0
Total	7.8	7.7	8.1	8.8	7.8	8.1

4) Annual Growth Rate of Investment (unit: %)

Total	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
Total	6.2	9.3	10.2	9.5	10.1	9.1

5) Annual Growth Rate of Export by 26 Sectors (unit: %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	8.4	8.4	8.4	8.4	8.4	8.4
2 Estate crops	8.4	8.4	8.4	8.4	-4.4	5.8
3 Livestock	8.4	8.4	8.4	8.4	8.4	8.4
4 Forestry	-4.4	-4.4	-4.4	-4.4	-4.4	-4.4
5 Fishery	8.4	8.4	8.4	8.4	8.4	8.4
6 Oil & Gas	8.4	8.4	8.4	8.4	8.4	8.4
7 Non Oil Gas	8.4	8.4	8.4	8.4	8.4	8.4
8 Food	1.9	1.9	1.9	1.9	-4.4	0.6
9 Textile	9.5	8.2	11.8	7.0	8.8	9.1
10 Wood	-4.4	-4.4	-4.4	-4.4	-4.4	-4.4
11 Paper	11.8	11.8	11.8	11.8	11.8	11.8
12 Chemical	8.4	8.4	8.4	8.4	8.4	8.4
13 Non Metallic	-1.3	6.5	11.8	11.8	11.8	8.0
14 Iron & steel	11.8	11.8	11.8	11.8	11.8	11.8
15 Non Ferrous metal	11.8	11.8	11.8	11.8	11.8	11.8
16 Fabricated Metal	11.8	11.8	11.8	11.8	11.8	11.8
17 Machinery	11.8	11.8	11.8	11.8	11.8	11.8
18 Transport Equip	11.8	11.8	11.8	11.8	11.8	11.8
19 Oth manufacturing	11.8	11.8	11.8	11.8	11.8	11.8
20 Elec Gas Water						
21 Construction						
22 Trade	8.4	8.4	8.4	8.4	8.4	8.4
23 Restaurant/Hotel	8.4	8.4	8.4	8.4	8.4	8.4
24 Transportation	8.4	8.4	8.4	8.4	8.4	8.4
25 Finance	8.4	8.4	8.4	8.4	8.4	8.4
27 Oth. Service	-4.4	-4.4	8.4	-4.4	-4.4	-1.9
Total	7.1	7.7	8.7	8.3	8.5	8.1

6) Annual Growth Rate of Import by 26 Sectors (unit: %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	2.3	3.3	3.4	4.8	4.5	3.7
2 Estate crops	-1.3	2.5	2.8	6.9	7.2	3.6
3 Livestock	-5.1	-1.5	-0.1	1.9	0.7	-0.9
4 Forestry	14.8	14.2	14.3	14.4	14.4	14.4
5 Fishery	-2.9	-2.0	-1.3	0.1	1.0	-1.0
6 Oil & Gas	18.5	9.6	8.0	7.0	4.9	9.5
7 Non Oil Gas	6.3	9.3	10.0	5.2	6.3	7.4
8 Food	2.2	3.3	4.5	6.1	5.8	4.4
9 Textile	6.4	7.5	8.8	7.9	8.4	7.8
10 Wood	6.2	8.0	8.6	8.5	8.5	7.9
11 Paper	6.4	8.8	10.7	9.8	10.0	9.1
12 Chemical	2.6	7.1	7.8	7.7	7.3	6.5
13 Non Metallic	16.3	8.4	9.5	9.2	9.7	10.6
14 Iron & steel	5.9	10.7	11.4	11.0	11.5	10.1
15 Non Ferrous metal	11.7	12.6	12.8	12.4	12.4	12.4
16 Fabricated Metal	3.9	8.3	9.5	9.3	9.9	8.2
17 Machinery	4.3	6.2	7.8	7.9	8.2	6.9
18 Transport Equip	3.9	5.2	7.0	7.9	8.8	6.6
19 Oth manufacturing	-0.8	1.7	3.9	5.5	6.9	3.4
20 Elec Gas Water						
21 Construction						
22 Trade						
23 Restaurant/Hotel	-2.8	-1.6	0.0	2.2	4.1	0.3
24 Transportation	4.7	12.5	13.4	0.4	1.5	6.2
25 Finance	5.3	2.3	9.7	8.0	8.4	7.1
27 Oth. Service	2.0	3.1	4.4	6.0	7.7	4.6
Total	4.5	7.0	8.3	7.8	8.3	7.2

7) Share of GDP by 26 Sectors

Sector	(unit: %)					
	0	1	2	3	4	5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	
1 Farm food	10.8	9.2	7.6	6.3	5.3	3.4
2 Estate crops	2.8	2.2	1.6	1.3	1.1	0.7
3 Livestock	2.0	2.0	1.8	1.6	1.5	1.1
4 Forestry	1.5	1.5	1.0	0.7	0.5	0.4
5 Fishery	1.9	2.5	2.7	2.8	3.1	3.1
6 Oil & Gas	8.7	6.2	5.2	4.5	4.0	3.9
7 Non Oil, Gas	2.3	2.5	2.5	2.5	2.4	2.2
8 Food	7.4	7.8	7.2	6.3	5.8	5.3
9 Textile	2.1	2.2	2.2	2.4	2.4	2.6
10 Wood	1.6	1.5	1.4	1.4	1.3	1.3
11 Paper	0.9	1.2	1.7	2.1	2.7	3.3
12 Chemical	5.7	7.2	8.3	8.8	8.7	8.0
13 Non Metallic	0.6	0.4	0.3	0.2	0.2	0.1
14 Iron & steel	0.5	0.8	1.1	1.5	2.1	2.9
15 Non Ferrous metal	0.2	0.4	0.6	0.8	1.0	1.3
16 Fabricated Metal	0.6	0.7	1.0	1.3	1.6	2.0
17 Machinery	1.4	2.6	3.7	4.5	5.1	5.7
18 Transport Equip	0.9	1.4	1.9	2.3	2.6	3.1
19 Oth manufacturing	0.1	0.4	0.5	0.6	0.7	0.9
20 Elec Gas, Water	0.9	1.1	1.1	1.2	1.3	1.4
21 Construction	7.1	6.9	7.1	7.5	7.6	8.0
22 Trade	13.0	12.3	12.3	12.2	11.9	11.8
23 Restaurant/Hotel	3.5	3.8	4.1	4.3	4.5	4.7
24 Transportation	8.2	8.7	9.1	9.3	9.7	10.0
25 Finance	9.3	9.9	10.3	10.5	10.6	10.7
27 Oth. Service	6.0	4.7	3.8	3.0	2.4	1.9
Total	100.0	100.0	100.0	100.0	100.0	100.0

8) Annual Growth Rate of GDP by 8 Sectors

Sector	(unit: %)					Average
	0-1	1-2	2-3	3-4	4-5	
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	
Agriculture(1-3)	5.9	5.1	5.9	6.8	7.7	5.2
Mining(6-7)	3.1	5.7	6.8	7.4	7.9	6.2
Manufacturing(8-19)	12.1	10.8	10.1	10.5	10.2	10.9
Light Industry(8-10,19)	9.2	7.2	7.9	8.3	8.4	8.2
Resource-based Industry(11-15)	12.9	12.4	11.5	11.1	10.3	11.6
Machinery(16-19)	19.7	15.4	19.8	12.3	12.1	14.6
Electricity, Gas & Water(20)	13.8	8.8	10.7	10.7	10.4	10.9
Construction(21)	7.5	9.1	9.9	9.4	9.9	9.2
Services(22-27)	7.6	8.5	8.7	9.0	8.7	8.5
Total	8.0	8.4	8.9	9.2	8.7	8.6

9) Share of GDP by 8 Sectors

Sector	(unit: %)					
	0	1	2	3	4	5
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	
Agriculture(1-5)	19.1	17.3	14.8	12.8	11.5	8.6
Mining(6-7)	10.9	8.7	7.6	6.9	6.4	6.1
Manufacturing(8-19)	22.0	26.6	29.6	32.2	34.3	36.7
Light Industry(8-10,19)	11.2	11.9	11.2	10.7	10.3	10.1
Resource-based Industry(11-15)	8.0	10.0	11.9	13.4	14.6	15.7
Machinery(16-19)	2.8	4.8	6.5	8.1	9.3	10.9
Electricity, Gas & Water(20)	0.9	1.1	1.1	1.2	1.3	1.4
Construction(21)	7.1	6.9	7.1	7.5	7.6	8.0
Services(22-27)	40.1	39.4	39.7	39.3	39.0	39.1
Total	100.0	100.0	100.0	100.0	100.0	100.0

2. Macro Indicator

1) Investment Share of GDP

Investment	(unit: %)					
	0	1	2	3	4	5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	
Investment	34.0	31.3	32.7	34.6	35.2	37.5

2) Number of Skilled Labor Employment at the End of Each Period

Sector	(unit: thousand)					
	0	1	2	3	4	5
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	
Agriculture(1-5)	941	1,285	1,713	2,152	2,818	3,016
Manufacturing(8-19)	8,156	10,567	14,528	19,273	25,530	31,852
Others(6, 7, 20-27)	6,652	8,334	10,668	13,741	17,629	23,232
Total	15,749	20,586	26,909	35,174	45,978	60,099

3) Per Capita Consumption and Per Capita GDP

Per Capita Consumption	(unit: thousand Rp)					
	0	1	2	3	4	5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	
Per Capita Consumption						
(thousand Rp)	995	1,341	1,807	2,501	3,604	4,996
(US\$)	477	643	866	1,198	1,727	2,394
Per Capita GDP						
(thousand Rp)	1,452	1,971	2,741	3,931	5,752	8,315
(US\$)	696	944	1,313	1,883	2,756	3,984

Note: Exchange rate (\$ Rp) of 1993 is utilized for conversion from Rupiah form to Dollar form in each period

1. Optimum Solution

(Case 5-2)

1) Annual Growth Rate of Output by 26 Sectors (unit: %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	4.6	7.0	7.7	8.3	2.1	5.9
2 Estate crops	4.8	6.3	7.2	7.5	3.7	5.9
3 Livestock	6.9	8.0	7.7	4.1	3.7	6.1
4 Forestry	9.2	7.6	4.4	4.5	4.5	5.0
5 Fishery	14.0	11.8	12.4	13.0	9.9	12.2
6 Oil & Gas	1.2	4.4	5.6	6.9	8.4	5.3
7 Non Oil Gas	19.7	8.4	8.9	8.2	7.4	8.7
8 Food	3.6	3.3	3.7	3.9	3.9	3.7
9 Textile	7.2	3.2	6.7	4.5	4.1	5.1
10 Wood	4.2	4.4	6.5	6.8	6.7	5.7
11 Paper	12.9	14.1	12.8	13.5	12.1	13.1
12 Chemical	10.9	9.5	7.9	6.9	4.9	8.0
13 Non Metallic	0.7	1.4	1.2	0.3	-1.0	0.5
14 Iron & steel	14.4	13.1	14.0	14.3	14.8	14.1
15 Non Ferrous metal	18.2	13.6	13.4	13.1	13.0	14.3
16 Fabricated Metal	10.8	12.1	12.5	12.2	12.3	12.0
17 Machinery	21.4	13.3	10.3	9.0	8.8	12.5
18 Transport Equip	15.8	10.1	10.0	9.5	9.8	11.0
19 Oth manufacturing	21.9	11.2	10.3	9.7	9.6	13.5
20 Elec Gas, Water	16.9	10.5	10.8	10.8	10.6	11.9
21 Construction	8.4	8.5	9.5	9.5	10.1	9.2
22 Trade	7.0	8.4	8.6	8.5	8.6	8.2
23 Restaurant, Hotel	9.7	10.1	9.9	9.8	9.7	9.9
24 Transportation	9.5	9.8	9.8	9.5	9.1	9.5
25 Finance	9.2	9.4	9.4	9.3	9.0	9.3
27 Oth. Service	4.9	9.7	9.6	9.5	9.3	8.6
Total	8.1	8.4	8.9	8.8	8.5	8.6

2) Annual Growth Rate of GDP by 26 Sectors (unit: %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	3.1	4.4	5.1	5.6	-0.3	3.6
2 Estate crops	3.6	4.3	5.7	5.5	1.7	4.1
3 Livestock	6.1	6.7	6.5	2.9	2.4	4.9
4 Forestry	8.0	6.7	2.4	2.6	2.5	3.2
5 Fishery	12.8	9.9	10.5	11.1	8.1	10.3
6 Oil & Gas	1.1	4.4	5.6	6.9	8.4	5.3
7 Non Oil Gas	16.7	8.4	8.9	8.2	7.4	8.7
8 Food	5.6	5.3	5.7	5.9	5.9	5.7
9 Textile	9.3	5.2	8.8	6.5	6.1	7.7
10 Wood	6.2	6.4	8.5	8.9	8.8	7.2
11 Paper	15.1	16.3	15.0	15.6	14.2	15.2
12 Chemical	13.0	11.7	10.0	9.0	6.9	10.1
13 Non Metallic	2.6	3.4	3.2	2.2	0.9	2.5
14 Iron & steel	16.6	15.3	16.2	16.5	17.0	16.3
15 Non Ferrous metal	20.5	15.8	15.6	15.3	15.2	16.5
16 Fabricated Metal	12.9	14.2	14.7	14.4	14.5	14.1
17 Machinery	23.7	15.5	12.4	11.1	10.9	14.6
18 Transport Equip	18.0	12.2	12.1	11.6	11.9	13.1
19 Oth manufacturing	30.4	13.3	12.4	11.8	11.7	15.7
20 Elec Gas, Water	16.9	10.5	10.8	10.8	10.6	11.9
21 Construction	8.4	8.5	9.5	9.5	10.1	9.2
22 Trade	7.0	8.4	8.6	8.5	8.6	8.2
23 Restaurant, Hotel	9.7	10.1	9.9	9.8	9.7	9.9
24 Transportation	9.5	9.8	9.8	9.5	9.1	9.5
25 Finance	9.2	9.4	9.4	9.3	9.0	9.3
27 Oth. Service	4.9	9.7	9.6	9.5	9.3	8.6
Total	7.9	8.6	9.0	9.1	8.8	8.7

3) Annual Growth Rate of Consumption by 26 Sectors (unit: %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	10.0	10.0	10.0	10.0	2.0	8.4
2 Estate crops	10.0	10.0	10.0	10.0	2.0	8.4
3 Livestock	10.0	10.0	9.2	2.0	2.0	6.6
4 Forestry	2.0	2.0	6.1	10.0	10.0	6.0
5 Fishery	10.0	10.0	10.0	10.0	3.6	8.7
6 Oil & Gas						
7 Non Oil Gas	10.0	10.0	10.0	10.0	10.0	10.0
8 Food	2.0	2.0	2.0	2.0	2.0	2.0
9 Textile	2.0	2.0	2.0	2.0	2.0	2.0
10 Wood	2.0	2.0	2.0	2.0	2.0	2.0
11 Paper	10.0	10.0	2.0	10.0	2.0	6.7
12 Chemical	10.0	10.0	10.0	10.0	10.0	10.0
13 Non Metallic	2.0	2.0	2.0	2.0	2.0	2.0
14 Iron & steel						
15 Non Ferrous metal	0.9	2.9	1.3	2.4	2.1	1.9
16 Fabricated Metal	10.0	2.0	2.0	2.0	2.0	3.6
17 Machinery	10.0	10.0	2.0	2.0	2.0	5.1
18 Transport Equip	5.0	2.0	2.0	2.0	2.0	2.6
19 Oth manufacturing	2.0	2.0	2.0	2.0	2.0	2.0
20 Elec Gas, Water	10.0	10.0	10.0	10.0	10.0	10.0
21 Construction	2.0	2.0	10.0	10.0	10.0	6.7
22 Trade	10.0	10.0	10.0	10.0	10.0	10.0
23 Restaurant, Hotel	10.0	10.0	10.0	10.0	10.0	10.0
24 Transportation	10.0	10.0	10.0	10.0	10.0	10.0
25 Finance	10.0	10.0	10.0	10.0	10.0	10.0
27 Oth. Service	4.6	10.0	10.0	10.0	10.0	8.9
Total	7.2	8.2	8.5	8.8	8.0	8.1

4) Annual Growth Rate of Investment (unit: %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
Total	7.2	8.6	9.7	9.6	10.3	9.1

5) Annual Growth Rate of Export by 26 Sectors (unit: %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	8.4	8.4	8.4	8.4	8.4	8.4
2 Estate crops	8.4	8.4	8.4	8.4	8.4	8.4
3 Livestock	8.4	8.4	8.4	8.4	8.4	8.4
4 Forestry	8.4	8.4	8.4	8.4	8.4	8.4
5 Fishery	8.4	8.4	8.4	8.4	8.4	8.4
6 Oil & Gas	8.4	8.4	8.4	8.4	8.4	8.4
7 Non Oil Gas	8.4	8.4	8.4	8.4	8.4	8.4
8 Food	1.9	1.9	1.9	1.9	-4.4	0.6
9 Textile	9.6	4.7	8.9	5.6	4.8	6.7
10 Wood	-4.4	-4.4	-4.4	-4.4	-4.4	-4.4
11 Paper	11.8	11.8	11.8	11.8	11.8	11.8
12 Chemical	8.4	8.4	8.4	8.4	8.4	8.4
13 Non Metallic	7.7	11.8	11.8	11.8	11.8	11.0
14 Iron & steel	11.8	11.8	11.8	11.8	11.8	11.8
15 Non Ferrous metal	11.8	11.8	11.8	11.8	11.8	11.8
16 Fabricated Metal	11.8	11.8	11.8	11.8	11.8	11.8
17 Machinery	11.8	11.8	11.8	11.8	11.8	11.8
18 Transport Equip	11.8	11.8	11.8	11.8	11.8	11.8
19 Oth manufacturing	11.8	11.8	11.8	11.8	11.8	11.8
20 Elec Gas, Water						
21 Construction						
22 Trade	8.4	8.4	8.4	8.4	8.4	8.4
23 Restaurant, Hotel	8.4	8.4	8.4	8.4	8.4	8.4
24 Transportation	8.4	8.4	8.4	8.4	8.4	8.4
25 Finance	8.4	8.4	8.4	8.4	8.4	8.4
27 Oth. Service	8.4	8.4	8.4	8.4	8.4	8.4
Total	7.2	7.3	8.3	8.2	8.3	7.9

6) Annual Growth Rate of Import by 26 Sectors (unit: %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	-0.4	2.2	3.0	3.6	3.8	2.4
2 Estate crops	-3.6	1.3	2.3	3.0	3.4	1.3
3 Livestock	-5.3	-1.7	-0.4	-0.4	0.3	-1.5
4 Forestry	14.8	14.1	-2.9	-2.1	-1.3	4.2
5 Fishery	-3.6	-2.6	-1.9	-1.1	-0.2	-1.9
6 Oil & Gas	18.5	9.5	7.9	6.9	4.9	9.4
7 Non Oil Gas	4.6	7.1	7.6	7.9	8.0	7.1
8 Food	1.0	2.9	4.3	4.3	6.1	3.7
9 Textile	6.4	6.3	7.8	7.0	7.0	6.9
10 Wood	6.4	7.7	8.4	8.4	8.6	7.9
11 Paper	6.5	9.5	10.3	11.6	11.0	9.8
12 Chemical	2.7	6.9	7.6	7.6	7.1	6.4
13 Non Metallic	17.1	7.8	9.1	9.2	9.9	10.6
14 Iron & steel	6.4	9.7	10.8	11.0	11.6	9.9
15 Non Ferrous metal	11.7	12.0	12.5	12.4	12.5	12.2
16 Fabricated Metal	4.7	7.8	9.2	9.4	10.1	8.2
17 Machinery	4.9	6.3	7.0	7.4	8.0	6.7
18 Transport Equip	3.7	4.8	6.7	7.8	8.7	6.3
19 Oth manufacturing	-0.6	2.2	4.4	6.1	7.5	3.9
20 Elec Gas, Water						
21 Construction						
22 Trade	-2.7	-1.6	0.1	2.2	4.1	0.4
23 Restaurant, Hotel	0.1	2.1	4.4	6.2	7.3	4.0
24 Transportation	5.4	7.2	8.7	8.6	8.8	7.6
25 Finance	2.0	3.7	5.1	6.7	8.4	5.1
27 Oth. Service	2.0	3.7	5.1	6.7	8.4	5.1
Total	4.6	6.5	7.6	8.0	8.4	7.0

7) Share of GDP by 26 Sectors

Sector	(unit: %)					
	0	1	2	3	4	5
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	(R-XI)
1 Food	10.8	8.6	7.1	5.9	5.0	3.2
2 Fstale crops	2.8	2.3	1.9	1.6	1.3	0.9
3 Livestock	7.0	1.8	1.7	1.5	1.1	0.8
4 Forestry	1.5	1.5	1.0	0.8	0.6	0.4
5 Fishery	1.9	2.4	2.6	2.7	3.0	2.9
6 Oil & Gas	8.7	6.3	5.2	4.4	4.0	3.9
7 Non Oil, Gas	2.3	2.6	2.6	2.6	2.4	2.3
8 Food	7.4	6.6	5.7	4.9	4.2	3.7
9 Textile	2.1	2.2	1.9	1.9	1.7	1.5
10 Wood	1.6	1.5	1.4	1.3	1.3	1.3
11 Paper	0.9	1.3	1.8	2.3	3.1	3.9
12 Chemical	5.7	7.2	8.3	8.6	8.6	7.9
13 Non Metallic	0.6	0.5	0.4	0.3	0.2	0.1
14 Iron & steel	0.5	0.8	1.1	1.4	2.0	2.9
15 Non Ferrous metal	0.2	0.4	0.5	0.7	1.0	1.3
16 Fabricated Metal	0.6	0.7	0.9	1.2	1.5	2.0
17 Machinery	1.4	2.7	3.7	4.3	4.8	5.2
18 Transport Equip	0.9	1.4	1.6	1.9	2.1	2.4
19 Oth manufacturing	0.1	0.3	0.4	0.4	0.5	0.5
20 Elec, Gas, Water	0.9	1.3	1.4	1.5	1.6	1.8
21 Construction	7.1	7.3	7.2	7.4	7.5	8.0
22 Trade	13.0	12.5	12.4	12.1	11.8	11.7
23 Restaurant, Hotel	3.5	3.8	4.1	4.3	4.4	4.6
24 Transportation	8.2	8.9	9.4	9.7	9.9	10.0
25 Finance	9.3	9.9	10.3	10.5	10.6	10.6
27 Oth. Service	6.0	5.3	5.5	5.7	5.8	5.9
Total	100.0	100.0	100.0	100.0	100.0	100.0

8) Annual Growth Rate of GDP by 8 Sectors

Sector	(unit: %)					
	0-1	1-2	2-3	3-4	4-5	Average
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	(R-XI)
Agriculture(1-5)	5.0	5.2	6.1	6.4	7.9	5.1
Mining(6-7)	3.4	5.7	6.7	7.4	8.0	6.2
Manufacturing(8-19)	11.7	10.2	10.3	10.2	10.1	10.4
Light Industry(8-10,19)	6.8	5.7	7.1	6.8	6.9	6.6
Resource-based Industry(11-15)	13.1	12.4	11.4	11.4	10.6	11.8
Machinery(16-18)	20.0	14.4	12.7	11.8	11.8	14.1
Electricity, Gas & Water(20)	16.9	10.3	10.8	10.8	10.6	11.9
Construction(21)	8.4	8.5	9.5	9.5	10.1	9.2
Services(22-27)	8.0	9.3	9.3	9.2	9.0	9.0
Total	7.9	8.6	9.0	9.1	8.8	8.7

9) Share of GDP by 8 Sectors

Sector	(unit: %)					
	0	1	2	3	4	5
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	(R-XI)
Agriculture(1-5)	19.1	16.7	14.3	12.5	11.0	8.3
Mining(6-7)	10.9	8.9	7.7	7.0	6.4	6.2
Manufacturing(8-19)	27.0	25.6	27.6	29.3	30.9	32.7
Light Industry(8-10,19)	11.2	10.7	9.3	8.5	7.7	7.0
Resource-based Industry(11-15)	8.0	10.1	12.0	13.4	14.8	16.1
Machinery(16-18)	2.8	4.9	6.3	7.4	8.4	9.6
Electricity, Gas & Water(20)	0.9	1.3	1.4	1.5	1.6	1.8
Construction(21)	7.1	7.3	7.2	7.4	7.5	8.0
Services(22-27)	40.1	40.3	41.7	42.3	43.5	43.0
Total	100.0	100.0	100.0	100.0	100.0	100.0

2. Macro Indicator

1) Investment Share of GDP

Investment	(unit: %)					
	0	1	2	3	4	5
(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	(R-XI)	
Investment	33.0	32.9	33.0	33.0	34.8	37.3

2) Number of Skilled Labor Employment at the End of Each Period

Sector	(unit: thousand)					
	0	1	2	3	4	5
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	(R-XI)
Agriculture(1-5)	941	1,319	1,750	2,280	3,076	3,564
Manufacturing(8-19)	8,156	10,173	12,890	16,340	20,700	26,242
Others(6, 7, 20-27)	6,652	9,094	12,269	16,553	22,201	30,291
Total	15,749	20,586	26,909	35,174	45,978	60,097

3) Per Capita Consumption and Per Capita GDP

Per Capita Consumption	(unit: thousand Rp)					
	0	1	2	3	4	5
(US\$)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	(R-XI)
Per Capita Consumption	995	1,301	1,796	2,527	3,639	5,080
(US\$)	477	624	860	1,211	1,744	2,434
Per Capita GDP	1,452	1,962	2,748	3,964	5,790	8,403
(US\$)	696	940	1,317	1,900	2,774	4,026

Note: Exchange rate (Rp) of 1993 is utilized for conversion from Rupiah term to Dollar term in each period.

1. Optimum Solution

(Case 6)

1) Annual Growth Rate of Output by 26 Sectors (unit %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	5.4	6.8	7.5	8.2	8.6	7.3
2 Estate crops	5.4	6.2	7.1	7.6	5.4	6.3
3 Livestock	7.6	7.8	8.0	8.2	3.6	7.0
4 Forestry	9.9	2.7	3.1	4.0	3.5	4.6
5 Fishery	14.3	11.7	12.3	13.0	13.4	12.9
6 Oil & Gas	1.1	4.6	5.5	7.1	8.3	5.3
7 Non Oil Gas	10.3	9.2	8.6	8.7	7.6	8.8
8 Food	3.6	3.1	3.5	4.0	3.8	4.0
9 Textile	5.1	5.7	10.0	6.6	8.3	7.1
10 Wood	5.8	4.4	5.8	7.3	7.0	6.0
11 Paper	11.9	13.8	13.6	12.0	11.2	12.5
12 Chemical	10.9	9.6	7.9	7.0	6.5	8.4
13 Non Metallic	-0.4	2.2	0.9	0.1	-1.0	0.4
14 Iron & steel	14.3	14.4	13.7	15.0	14.9	14.5
15 Non Ferrous metal	18.1	14.1	13.4	13.6	13.2	14.4
16 Fabricated Metal	10.6	13.5	12.4	13.0	12.4	12.4
17 Machinery	20.9	14.3	10.9	10.3	9.6	13.1
18 Transport Equip	17.3	12.4	10.8	10.6	8.2	11.8
19 Oth manufacturing	27.6	11.5	10.1	9.9	9.7	13.5
20 Elec Gas,Water	16.8	10.5	10.8	10.8	10.6	11.9
21 Construction	8.0	9.6	8.9	10.4	10.6	9.5
22 Trade	6.9	8.6	8.5	8.8	8.8	8.3
23 Restaurant/Hotel	9.7	10.1	9.9	9.9	9.8	9.9
24 Transportation	9.6	9.9	9.7	9.6	9.3	9.6
25 Finance	9.3	9.4	9.4	9.3	9.2	9.3
27 Oth. Service	3.0	4.9	9.3	5.0	3.9	5.2
Total	8.2	8.5	8.8	9.0	9.0	8.7

2) Annual Growth Rate of GDP by 26 Sectors (unit %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	3.9	4.2	4.9	5.5	6.0	4.9
2 Estate crops	4.2	4.2	5.1	5.6	3.4	4.5
3 Livestock	6.9	6.5	6.7	6.9	2.4	5.9
4 Forestry	8.7	0.8	1.2	2.1	1.6	7.8
5 Fishery	13.2	9.8	10.4	11.1	11.5	11.2
6 Oil & Gas	1.1	4.6	5.5	7.1	8.3	5.3
7 Non Oil Gas	10.3	9.2	8.6	8.7	7.6	8.8
8 Food	7.7	3.1	3.5	6.0	5.8	6.0
9 Textile	7.1	7.7	12.1	8.6	10.3	9.2
10 Wood	7.9	6.4	7.8	9.3	9.0	8.1
11 Paper	14.1	16.0	15.8	14.1	13.4	14.7
12 Chemical	13.0	11.7	10.9	9.1	8.6	10.5
13 Non Metallic	1.5	4.2	2.9	2.0	0.9	2.3
14 Iron & steel	16.5	16.6	15.9	17.2	17.1	16.7
15 Non Ferrous metal	20.3	16.3	15.6	15.8	15.4	16.6
16 Fabricated Metal	12.7	15.7	14.5	15.2	14.5	14.5
17 Machinery	23.2	16.5	13.0	12.5	11.7	15.3
18 Transport Equip	19.6	14.6	12.9	12.7	10.3	14.0
19 Oth manufacturing	30.0	33.7	12.2	12.0	11.8	15.7
20 Elec Gas,Water	16.8	10.5	10.8	10.8	10.6	11.9
21 Construction	8.0	9.6	8.9	10.4	10.6	9.5
22 Trade	6.9	8.6	8.5	8.8	8.8	8.3
23 Restaurant/Hotel	9.7	10.1	9.9	9.9	9.8	9.9
24 Transportation	9.6	9.9	9.7	9.6	9.3	9.6
25 Finance	9.3	9.4	9.4	9.3	9.2	9.3
27 Oth. Service	3.0	4.9	9.3	5.0	3.9	5.2
Total	8.0	8.6	9.0	9.3	9.3	8.8

3) Annual Growth Rate of Consumption by 26 Sectors (unit %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	10.0	10.0	10.0	10.0	10.0	10.0
2 Estate crops	10.0	10.0	10.0	10.0	10.0	10.0
3 Livestock	10.0	10.0	10.0	10.0	10.0	10.0
4 Forestry	2.0	2.0	2.0	2.0	2.0	2.0
5 Fishery	10.0	10.0	10.0	10.0	10.0	10.0
6 Oil & Gas						
7 Non Oil Gas	10.0	10.0	10.0	10.0	10.0	10.0
8 Food	4.0	2.0	2.0	2.0	2.0	2.5
9 Textile	2.0	2.0	2.0	2.0	2.0	2.0
10 Wood	2.0	2.0	2.0	2.0	2.0	2.0
11 Paper	10.0	10.0	10.0	10.0	10.0	10.0
12 Chemical	10.0	10.0	10.0	10.0	10.0	10.0
13 Non Metallic	2.0	2.0	2.0	2.0	10.0	3.6
14 Iron & steel						
15 Non Ferrous metal	8.9	10.3	10.0	10.1	1.9	8.2
16 Fabricated Metal	10.0	10.0	10.0	10.0	2.0	8.4
17 Machinery	10.0	10.0	10.0	10.0	10.0	10.0
18 Transport Equip	10.0	10.0	10.0	10.0	2.0	8.4
19 Oth manufacturing	2.0	2.0	2.0	2.0	2.0	2.0
20 Elec Gas,Water	10.0	10.0	10.0	10.0	10.0	10.0
21 Construction	2.0	2.0	2.0	2.0	2.0	2.0
22 Trade	10.0	10.0	10.0	10.0	10.0	10.0
23 Restaurant/Hotel	10.0	10.0	10.0	10.0	10.0	10.0
24 Transportation	10.0	10.0	10.0	10.0	10.0	10.0
25 Finance	10.0	10.0	10.0	10.0	10.0	10.0
27 Oth. Service	2.0	3.4	9.8	3.7	2.0	4.1
Total	7.5	7.6	8.6	8.6	8.4	8.1

4) Annual Growth Rate of Investment (unit %)

	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
Total	6.8	9.9	9.1	10.6	10.8	9.4

5) Annual Growth Rate of Export by 26 Sectors (unit %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	8.4	8.4	8.4	8.4	8.4	8.4
2 Estate crops	8.4	8.4	8.4	8.4	8.4	8.4
3 Livestock	8.4	8.4	8.4	8.4	8.4	8.4
4 Forestry	-4.4	-4.4	-4.4	-4.4	-4.4	-4.4
5 Fishery	8.4	8.4	8.4	8.4	8.4	8.4
6 Oil & Gas	8.4	8.4	8.4	8.4	8.4	8.4
7 Non Oil Gas	8.4	8.4	8.4	8.4	8.4	8.4
8 Food	1.9	1.9	1.9	1.9	-4.4	0.6
9 Textile	6.5	8.2	11.8	8.2	10.0	8.9
10 Wood	-1.0	-4.4	-4.4	-4.4	-4.4	-3.7
11 Paper	11.8	11.8	11.8	11.8	11.8	11.8
12 Chemical	8.4	8.4	8.4	8.4	8.4	8.4
13 Non Metallic	6.4	11.8	11.8	11.8	11.8	10.7
14 Iron & steel	11.8	11.8	11.8	11.8	11.8	11.8
15 Non Ferrous metal	11.8	11.8	11.8	11.8	11.8	11.8
16 Fabricated Metal	11.8	11.8	11.8	11.8	11.8	11.8
17 Machinery	11.8	11.8	11.8	11.8	11.8	11.8
18 Transport Equip	11.8	11.8	11.8	11.8	11.8	11.8
19 Oth manufacturing	11.8	11.8	11.8	11.8	11.8	11.8
20 Elec Gas,Water						
21 Construction						
22 Trade	8.4	8.4	8.4	8.4	8.4	8.4
23 Restaurant/Hotel	8.4	8.4	8.4	8.4	8.4	8.4
24 Transportation	8.4	8.4	8.4	8.4	8.4	8.4
25 Finance	8.4	8.4	8.4	8.4	8.4	8.4
27 Oth. Service	8.4	8.4	8.4	8.4	8.4	8.4
Total	7.1	7.6	8.6	8.5	8.8	8.1

6) Annual Growth Rate of Import by 26 Sectors (unit %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	1.2	2.1	2.9	3.6	3.8	2.7
2 Estate crops	-2.3	1.3	2.3	3.1	3.4	1.5
3 Livestock	-3.2	-1.7	-0.1	1.7	0.7	-1.0
4 Forestry	14.9	14.1	14.2	14.4	14.5	14.4
5 Fishery	-3.2	-2.5	-1.8	-0.9	-0.1	-1.7
6 Oil & Gas	18.3	9.6	7.9	7.0	6.5	9.8
7 Non Oil Gas	6.6	6.7	6.9	8.0	8.7	7.4
8 Food	1.6	2.8	4.4	5.8	6.0	4.1
9 Textile	5.4	7.4	6.2	7.6	8.4	7.0
10 Wood	6.7	7.9	8.2	8.7	8.6	8.0
11 Paper	9.6	7.4	9.7	9.9	10.0	9.3
12 Chemical	2.4	7.2	7.9	7.8	8.0	6.6
13 Non Metallic	18.3	8.7	8.2	9.9	10.2	10.9
14 Iron & steel	6.4	11.1	10.6	11.8	11.5	10.3
15 Non Ferrous metal	11.6	12.6	12.4	13.0	12.7	12.4
16 Fabricated Metal	4.4	8.8	8.7	10.2	10.4	8.5
17 Machinery	4.7	6.7	7.5	8.5	8.6	7.2
18 Transport Equip	4.1	5.6	7.5	8.3	7.1	6.5
19 Oth manufacturing	-0.8	1.9	4.4	5.8	6.3	3.5
20 Elec Gas,Water						
21 Construction						
22 Trade						
23 Restaurant/Hotel	-2.7	-1.6	0.1	2.3	4.4	0.5
24 Transportation	0.1	2.2	4.4	6.3	7.5	4.1
25 Finance	5.3	7.5	8.1	8.8	9.0	7.8
27 Oth. Service	1.9	3.2	4.9	6.3	8.0	4.8
Total	4.6	6.9	7.7	8.5	8.8	7.3

7) Share of GDP by 26 Sectors

Sector	(unit: %)					
	0	1	2	3	4	5
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	(R-XI)
1 Farm food	10.8	8.9	7.3	6.0	5.0	4.3
2 Estate crops	2.8	2.3	1.9	1.6	1.3	1.0
3 Livestock	2.0	1.9	1.7	1.6	1.4	1.0
4 Forestry	1.5	1.6	1.1	0.7	0.5	0.4
5 Fishery	1.9	2.4	2.6	2.8	3.0	3.3
6 Oil & Gas	8.7	6.2	5.2	4.4	4.0	3.8
7 Non Oil Gas	2.3	1.5	2.6	2.6	2.5	2.1
8 Food	7.4	7.3	6.2	5.3	4.5	3.8
9 Textile	2.1	2.0	1.9	2.2	2.2	2.3
10 Wood	1.6	1.6	1.5	1.4	1.4	1.4
11 Paper	0.9	1.2	1.7	2.2	2.8	3.4
12 Chemical	5.7	7.2	8.3	8.7	8.6	8.3
13 Non Metals	0.6	0.4	0.4	0.3	0.2	0.1
14 Iron & steel	0.5	0.8	1.1	1.5	2.1	3.0
15 Non Ferrous metal	0.2	0.4	0.6	0.7	1.0	1.3
16 Fabricated Metal	0.6	0.7	1.0	1.3	1.6	2.1
17 Machinery	1.4	2.7	3.8	4.6	5.3	5.9
18 Transport Equip	0.9	1.5	1.9	2.3	2.7	2.8
19 Other manufacturing	0.1	0.3	0.4	0.4	0.5	0.5
20 Elec Gas Water	0.9	1.3	1.4	1.5	1.6	1.7
21 Construction	7.1	7.1	7.5	7.4	7.8	8.3
22 Trade	13.0	12.4	12.4	12.1	11.9	11.6
23 Restaurant, Hotel	3.5	3.8	4.1	4.3	4.4	4.5
24 Transportation	8.2	8.8	9.4	9.7	9.8	9.8
25 Finance	9.3	9.9	10.3	10.4	10.5	10.4
27 Other Service	6.0	4.8	4.0	4.1	3.3	2.6
Total	100.0	100.0	100.0	100.0	100.0	100.0

8) Annual Growth Rate of GDP by 8 Sectors

Sector	(unit: %)					
	0	1	2	3	4	5
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
Agriculture(1-5)	3.7	5.0	6.0	6.8	6.7	6.0
Mining(6-7)	3.3	6.0	6.6	7.7	8.0	6.3
Manufacturing(8-19)	11.6	10.7	10.8	10.7	10.6	10.8
Light Industry(8-10,19)	7.9	6.0	7.5	7.5	7.9	7.4
Resource-based Industry(11-15)	12.9	12.6	11.5	11.3	11.3	11.9
Machinery(16-18)	20.2	15.8	13.2	13.0	11.8	14.8
Electricity, Gas & Water(20)	16.8	10.5	10.8	10.8	10.6	11.9
Construction(21)	8.0	9.6	8.9	10.4	10.6	9.5
Services(22-27)	7.7	8.8	9.2	8.9	8.7	8.7
Total	8.0	8.6	9.0	9.3	9.3	8.8

9) Share of GDP by 8 Sectors

Sector	(unit: %)					
	0	1	2	3	4	5
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	(R-XI)
Agriculture(1-5)	19.1	17.2	14.6	12.6	11.3	10.0
Mining(6-7)	10.9	8.8	7.8	7.0	6.5	6.1
Manufacturing(8-19)	22.0	26.0	28.6	30.9	32.9	34.9
Light Industry(8-10,19)	11.2	11.2	9.9	9.3	8.6	8.0
Resource-based Industry(11-15)	8.0	10.0	12.0	13.4	14.7	16.1
Machinery(16-18)	2.8	4.9	6.7	8.1	9.6	10.8
Electricity, Gas & Water(20)	0.9	1.3	1.4	1.5	1.6	1.7
Construction(21)	7.1	7.1	7.5	7.4	7.8	8.3
Services(22-27)	40.1	39.7	40.2	40.6	39.9	38.9
Total	100.0	100.0	100.0	100.0	100.0	100.0

2. Macro Indicator
1) Investment Share of GDP

Investment	(unit: %)					
	0	1	2	3	4	5
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	(R-XI)
Investment	34.0	32.1	34.2	34.3	36.5	39.1

2) Number of Skilled Labor Employment at the End of Each Period

Sector	(unit: thousand)					
	0	1	2	3	4	5
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	(R-XI)
Agriculture(1-5)	941	1,393	1,792	2,229	3,036	3,827
Manufacturing(8-19)	8,156	10,513	13,735	17,891	23,198	30,199
Others(6, 7, 20-27)	6,652	8,600	11,382	15,034	19,743	26,073
Total	15,749	20,506	26,909	35,174	45,978	60,099

3) Per Capita Consumption and Per Capita GDP

Per Capita Consumption	(unit: thousand Rp)					
	0	1	2	3	4	5
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	(R-XI)
Per Capita Consumption	995	1,324	1,777	2,519	3,586	5,099
(US\$)	477	634	852	1,207	1,718	2,443
Per Capita GDP	1,452	1,971	2,760	3,976	5,847	8,679
(US\$)	696	944	1,323	1,905	2,801	4,158

Note: Exchange rate (Rp/\$) of 1993 is utilized for conversion from Rupiah term to Dollar term in each period.

1. Optimum Solution

(Case 6-1)

1) Annual Growth Rate of Output by 26 Sectors (unit: %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	6.0	7.1	7.4	8.2	8.4	7.4
2 Estate crops	4.5	6.0	6.8	7.2	7.7	5.3
3 Livestock	8.3	8.2	8.0	8.3	8.1	8.2
4 Forestry	8.5	2.7	4.0	3.4	2.8	4.3
5 Fishery	14.6	11.9	12.3	13.1	13.4	13.0
6 Oil & Gas	1.0	4.5	5.5	6.9	8.0	5.2
7 Non Oil Gas	9.7	8.4	8.9	8.1	7.0	8.4
8 Food	7.2	4.5	4.2	5.4	4.7	5.2
9 Textile	7.2	5.9	9.3	6.8	8.8	7.6
10 Wood	3.8	4.6	6.8	6.7	6.2	5.6
11 Paper	12.6	13.2	12.3	11.9	11.4	12.3
12 Chemical	10.9	9.6	8.0	7.1	6.5	8.4
13 Non Metallic	-1.0	0.8	-0.4	-1.0	-1.0	-0.5
14 Iron & steel	13.8	13.9	14.4	14.1	14.0	14.0
15 Non Ferrous metal	18.4	14.1	13.7	13.1	12.6	14.4
16 Fabricated Metal	10.2	13.0	13.1	12.2	11.8	12.1
17 Machinery	20.2	13.8	11.5	9.6	8.9	12.7
18 Transport Equip	16.8	12.0	11.0	19.1	10.0	12.0
19 Oth manufacturing	33.4	13.8	11.9	10.7	10.3	15.7
20 Elec Gas, Water	13.8	8.4	10.7	10.7	10.5	10.8
21 Construction	7.5	9.0	9.9	9.3	9.4	9.0
22 Trade	6.7	8.4	8.7	8.6	8.5	8.2
23 Restaurant, Hotel	9.7	10.1	9.9	9.8	9.8	9.9
24 Transportation	9.3	9.3	9.3	10.1	9.5	9.5
25 Finance	9.4	9.3	9.2	9.4	9.2	9.3
27 Oth. Service	2.7	3.7	4.1	4.3	4.2	3.8
Total	8.2	8.4	8.7	8.8	8.8	8.6

2) Annual Growth Rate of GDP by 26 Sectors (unit: %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	4.5	4.5	4.8	5.5	5.8	5.0
2 Estate crops	3.3	4.0	4.8	5.7	6.3	3.5
3 Livestock	7.5	6.9	6.7	7.0	6.8	7.0
4 Forestry	7.3	0.8	2.0	1.5	0.9	3.5
5 Fishery	13.5	10.0	10.4	11.2	11.5	11.3
6 Oil & Gas	1.0	4.5	5.5	6.9	8.0	5.2
7 Non Oil Gas	9.7	8.4	8.9	8.1	7.0	8.4
8 Food	9.2	6.5	6.2	7.4	6.7	7.2
9 Textile	9.3	8.0	11.4	8.9	10.9	9.7
10 Wood	3.8	4.6	6.8	6.8	6.3	5.7
11 Paper	14.7	15.3	14.5	14.0	13.6	14.4
12 Chemical	13.0	11.7	10.1	9.1	8.5	10.5
13 Non Metallic	0.9	2.8	1.5	0.9	0.9	1.4
14 Iron & steel	15.0	15.0	16.6	16.3	16.2	16.2
15 Non Ferrous metal	20.6	16.3	15.9	15.2	14.8	16.6
16 Fabricated Metal	12.3	15.2	15.2	14.3	14.0	14.2
17 Machinery	22.5	16.0	13.7	11.8	11.0	14.9
18 Transport Equip	19.1	14.1	13.2	12.3	12.1	14.1
19 Oth manufacturing	36.0	16.0	14.0	12.9	12.4	17.9
20 Elec Gas, Water	13.8	8.4	10.7	10.7	10.5	10.8
21 Construction	7.5	9.0	9.9	9.3	9.4	9.0
22 Trade	6.7	8.4	8.7	8.6	8.5	8.2
23 Restaurant, Hotel	9.7	10.1	9.9	9.8	9.8	9.9
24 Transportation	9.3	9.3	9.3	10.1	9.5	9.5
25 Finance	9.4	9.3	9.2	9.4	9.2	9.3
27 Oth. Service	2.7	3.7	4.1	4.3	4.2	3.8
Total	8.0	8.4	8.9	9.2	9.2	8.7

3) Annual Growth Rate of Consumption by 26 Sectors (unit: %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	10.0	10.0	10.0	10.0	10.0	10.0
2 Estate crops	4.5	10.0	10.0	10.0	2.0	7.2
3 Livestock	10.0	10.0	10.0	10.0	10.0	10.0
4 Forestry	2.0	2.0	2.0	2.0	2.0	2.0
5 Fishery	10.0	10.0	10.0	10.0	10.0	10.0
6 Oil & Gas						
7 Non Oil Gas	10.0	10.0	10.0	10.0	10.0	10.0
8 Food	6.5	3.9	3.2	4.5	3.5	4.3
9 Textile	2.0	2.0	2.0	10.0	10.0	3.1
10 Wood	2.0	2.0	2.0	2.0	2.0	2.0
11 Paper	8.0	10.0	10.0	10.0	10.0	9.6
12 Chemical	10.0	10.0	10.0	10.0	10.0	10.0
13 Non Metallic	2.0	2.0	2.0	10.0	10.0	5.1
14 Iron & steel						
15 Non Ferrous metal	8.9	10.3	10.0	10.1	9.9	9.9
16 Fabricated Metal	10.0	10.0	10.0	10.0	10.0	10.0
17 Machinery	10.0	10.0	10.0	10.0	10.0	10.0
18 Transport Equip	10.0	10.0	10.0	10.0	10.0	10.0
19 Oth manufacturing	10.0	10.0	10.0	10.0	10.0	10.0
20 Elec Gas, Water	2.0	3.0	10.0	10.0	10.0	6.9
21 Construction	2.0	2.0	2.0	2.0	2.0	2.0
22 Trade	10.0	10.0	10.0	10.0	10.0	10.0
23 Restaurant, Hotel	10.0	10.0	10.0	10.0	10.0	10.0
24 Transportation	10.0	10.0	10.0	10.0	10.0	10.0
25 Finance	10.0	10.0	10.0	10.0	10.0	10.0
27 Oth. Service	2.0	2.0	2.0	2.0	2.0	2.0
Total	7.8	7.7	8.2	8.8	8.9	8.3

4) Annual Growth Rate of Investment (unit: %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
Total	6.2	9.3	10.2	9.5	9.6	8.9

5) Annual Growth Rate of Export by 26 Sectors (unit: %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	8.4	8.4	8.4	8.4	8.4	8.4
2 Estate crops	8.4	8.4	8.4	8.4	-4.4	5.8
3 Livestock	8.4	8.4	8.4	8.4	8.4	8.4
4 Forestry	-4.4	-4.4	-4.4	-4.4	-4.4	-4.4
5 Fishery	8.4	8.4	8.4	8.4	8.4	8.4
6 Oil & Gas	8.4	8.4	8.3	8.4	8.4	8.4
7 Non Oil Gas	8.4	8.4	8.4	8.4	8.4	8.4
8 Food	1.9	1.9	1.9	1.9	-4.4	0.6
9 Textile	9.6	8.3	11.8	6.7	9.2	9.1
10 Wood	-4.4	-4.4	-4.4	-4.4	-4.4	-4.4
11 Paper	11.8	11.8	11.8	11.8	11.8	11.8
12 Chemical	8.4	8.4	8.4	8.4	8.4	8.4
13 Non Metallic	-1.2	10.0	11.8	11.8	11.8	8.7
14 Iron & steel	11.8	11.8	11.8	11.8	11.8	11.8
15 Non Ferrous metal	11.8	11.8	11.8	11.8	11.8	11.8
16 Fabricated Metal	11.8	11.8	11.8	11.8	11.8	11.8
17 Machinery	11.8	11.8	11.8	11.8	11.8	11.8
18 Transport Equip	11.8	11.8	11.8	11.8	11.8	11.8
19 Oth manufacturing	11.8	11.8	11.8	11.8	11.8	11.8
20 Elec Gas, Water						
21 Construction						
22 Trade	8.4	8.4	8.4	8.4	8.4	8.4
23 Restaurant, Hotel	8.4	8.4	8.4	8.4	8.4	8.4
24 Transportation	8.4	8.4	8.4	8.4	8.4	8.4
25 Finance	8.4	8.4	8.4	8.4	8.4	8.4
27 Oth. Service	-4.4	-4.4	8.4	-4.4	-4.4	-1.9
Total	7.1	7.7	8.7	8.2	8.6	8.1

6) Annual Growth Rate of Import by 26 Sectors (unit: %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	2.3	3.3	3.5	4.9	4.5	3.7
2 Estate crops	-1.3	2.5	2.9	7.0	7.1	3.6
3 Livestock	-5.1	-1.5	-0.1	1.9	3.6	-0.3
4 Forestry	14.8	14.2	14.3	14.4	14.5	14.4
5 Fishery	-2.9	-2.0	-1.3	0.2	0.9	-1.0
6 Oil & Gas	18.5	9.6	8.0	7.1	6.5	9.8
7 Non Oil Gas	6.3	9.4	9.8	5.2	6.7	7.5
8 Food	2.2	3.3	4.6	6.2	7.8	4.8
9 Textile	6.5	7.5	8.9	7.8	8.6	7.8
10 Wood	6.2	8.0	8.6	8.4	8.4	7.9
11 Paper	6.4	8.8	10.7	9.8	10.1	9.2
12 Chemical	2.6	7.1	7.8	7.7	8.0	6.6
13 Non Metallic	16.3	8.4	8.9	8.9	9.2	10.3
14 Iron & steel	5.9	10.6	11.3	11.0	11.1	10.0
15 Non Ferrous metal	11.7	12.5	12.8	12.4	12.1	12.3
16 Fabricated Metal	3.9	8.2	9.5	9.2	9.4	8.0
17 Machinery	4.3	6.2	7.7	7.9	8.0	6.8
18 Transport Equip	3.9	5.2	7.0	7.9	8.7	6.5
19 Oth manufacturing	-0.8	1.6	3.9	5.4	6.7	3.3
20 Elec Gas, Water						
21 Construction						
22 Trade						
23 Restaurant, Hotel	-1.8	-1.7	0.0	2.2	4.2	0.4
24 Transportation	5.3	13.2	13.5	-0.6	1.3	6.4
25 Finance	5.2	7.3	9.7	8.0	8.5	7.7
27 Oth. Service	7.0	3.1	4.4	6.0	7.6	4.6
Total	4.6	7.0	8.4	7.8	8.3	7.2

7) Share of GDP by 26 Sectors

Sector	(unit: %)					
	0	1	2	3	4	5
		(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)
1 Farm food	13.8	9.2	7.6	6.3	5.3	4.5
2 Estate crops	2.8	2.2	1.8	1.5	1.2	0.8
3 Livestock	2.0	2.0	1.8	1.7	1.5	1.3
4 Forestry	1.5	1.5	1.0	0.7	0.5	0.3
5 Fishery	1.9	2.5	2.6	2.8	3.1	3.4
6 Oil & Gas	8.7	6.2	5.2	4.4	4.0	3.8
7 Non Oil, Gas	2.3	2.5	2.5	2.4	2.3	2.1
8 Food	7.4	7.8	7.1	6.3	5.8	5.2
9 Textile	2.1	2.2	2.2	2.5	2.4	2.6
10 Wood	1.6	1.5	1.4	1.4	1.3	1.3
11 Paper	0.9	1.2	1.7	2.1	2.7	3.2
12 Chemical	5.7	7.2	8.3	8.8	8.8	8.5
13 Non Metallic	0.6	0.4	0.3	0.2	0.2	0.1
14 Iron & steel	0.5	0.8	1.1	1.5	2.1	2.8
15 Non Ferrous metal	0.2	0.4	0.6	0.8	1.0	1.3
16 Fabricated Metal	0.6	0.7	0.9	1.3	1.6	2.0
17 Machinery	1.4	2.6	3.6	4.5	5.1	5.5
18 Transport Equip	0.9	1.4	1.9	2.3	2.6	3.0
19 Other manufacturing	0.1	0.4	0.5	0.6	0.7	0.9
20 Elec. Gas, Water	0.9	1.1	1.1	1.2	1.3	1.4
21 Construction	7.1	6.9	7.1	7.5	7.5	7.6
22 Trade	13.0	12.3	12.3	12.2	11.9	11.5
23 Restaurant/Hotel	3.5	3.6	4.1	4.3	4.5	4.6
24 Transportation	8.2	8.7	9.1	9.2	9.6	9.8
25 Finance	9.3	9.9	10.3	10.5	10.6	10.6
27 Other Service	6.0	4.7	3.8	3.6	2.4	1.9
Total	100.0	100.0	100.0	100.0	100.0	100.0

8) Annual Growth Rate of GDP by 8 Sectors

Sector	(unit: %)					
	0-1	1-2	2-3	3-4	4-5	0-5
(IQ Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
Agriculture(1-5)	5.9	5.3	5.9	6.8	6.9	6.2
Mining(6-7)	3.1	5.7	6.7	7.3	7.6	6.1
Manufacturing(8-19)	12.1	10.8	10.8	10.5	10.5	10.9
Light Industry(8-10,19)	9.2	7.2	8.0	8.3	8.4	8.2
Resource-based Industry(11-15)	12.9	12.4	11.5	11.1	11.0	11.8
Machinery(16-18)	19.6	15.3	13.8	12.3	11.8	14.5
Electricity, Gas & Water(20)	13.8	8.4	10.7	10.7	10.5	10.8
Construction(21)	7.5	9.0	9.9	9.3	9.4	9.6
Services(22-27)	7.6	8.5	8.7	9.0	8.8	8.5
Total	8.0	8.4	8.9	9.2	9.2	8.7

9) Share of GDP by 8 Sectors

Sector	(unit: %)					
	0	1	2	3	4	5
(IQ Code)		(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)
Agriculture(1-5)	19.1	17.3	14.9	13.0	11.7	10.5
Mining(6-7)	10.9	8.7	7.6	6.9	6.3	5.9
Manufacturing(8-19)	22.0	26.6	29.6	32.2	34.2	36.3
Light Industry(8-10,19)	11.2	11.9	11.2	10.7	10.3	9.9
Resource-based Industry(11-15)	8.0	10.0	11.9	13.4	14.7	16.0
Machinery(16-18)	2.8	4.7	6.5	8.0	9.3	10.5
Electricity, Gas & Water(20)	0.9	1.1	1.1	1.2	1.3	1.4
Construction(21)	7.1	6.9	7.1	7.5	7.5	7.6
Services(22-27)	40.1	39.4	39.6	39.2	38.9	38.3
Total	100.0	100.0	100.0	100.0	100.0	100.0

2. Macro Indicator
1) Investment Share of GDP

Investment	(unit: %)					
	0	1	2	3	4	5
		(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)
Investment	34.0	31.3	32.5	34.5	35.0	35.6

2) Number of Skilled Labor Employment at the End of Each Period

Sector	(unit: thousand)					
	0	1	2	3	4	5
(IQ Code)		(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)
Agriculture(1-5)	941	1,292	1,749	2,203	2,900	3,506
Manufacturing(6-19)	8,156	10,967	14,530	19,278	25,538	33,888
Others(6, 7, 20-27)	6,652	8,327	10,630	13,693	17,540	22,705
Total	15,749	20,586	26,909	35,174	45,978	60,099

3) Per Capita Consumption and Per Capita GDP

Per Capita Consumption	(unit: thousand Rp)					
	0	1	2	3	4	5
		(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)
Per Capita Consumption	995	1,342	1,811	2,509	3,619	5,279
(US\$)	477	643	868	1,202	1,734	2,530
Per Capita GDP	1,452	1,971	2,742	3,932	5,755	8,505
(US\$)	696	945	1,314	1,884	2,757	4,075

Note: Exchange rate (\$/Rp) of 1993 is utilized for conversion from Rupiah term to Dollar term in each period.

I. Optimum Solution

(Case 6-2)

1) Annual Growth Rate of Output by 26 Sectors (unit: %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	4.6	7.0	7.7	8.3	8.7	7.3
2 Estate crops	4.8	6.3	7.2	7.6	7.7	6.7
3 Livestock	6.9	8.0	8.2	8.3	3.7	7.0
4 Forestry	9.2	2.6	4.6	4.6	4.3	5.0
5 Fishery	14.0	11.8	12.4	13.0	13.5	12.9
6 Oil & Gas	1.2	4.4	5.6	6.9	7.9	5.2
7 Non Oil Gas	10.7	8.4	8.8	8.1	7.0	8.6
8 Food	3.6	3.3	3.7	4.2	4.0	3.8
9 Textile	7.2	3.3	6.8	3.9	4.7	5.2
10 Wood	4.2	4.4	6.5	6.8	6.2	5.6
11 Paper	17.9	14.1	12.8	13.5	12.1	13.1
12 Chemical	10.9	9.5	7.9	6.9	6.6	8.4
13 Non Metale	0.5	1.3	1.0	-0.1	-1.0	0.3
14 Iron & steel	14.4	13.1	14.0	14.2	14.1	14.0
15 Non Ferrous metal	18.2	13.6	13.4	13.1	12.7	14.2
16 Fabricated Metal	10.8	12.1	12.5	12.2	11.8	11.9
17 Machinery	21.4	13.3	10.2	9.0	8.3	12.3
18 Transport Equip	16.0	10.0	9.9	9.5	9.3	10.9
19 Oth manufacturing	27.9	11.2	10.3	9.7	9.3	13.5
20 Elec Gas Water	16.9	10.5	10.8	10.8	10.6	11.9
21 Construction	8.4	8.5	9.5	9.4	9.4	9.0
22 Trade	7.0	8.4	8.6	8.5	8.5	8.2
23 Restaurant/Hotel	9.7	10.1	9.9	9.8	9.8	9.9
24 Transportation	9.5	9.8	9.8	9.5	9.2	9.6
25 Finance	9.2	9.4	9.4	9.3	9.2	9.3
27 Oth. Service	4.9	9.7	9.6	9.5	9.4	8.6
Total	8.1	8.4	8.8	8.9	8.9	8.6

2) Annual Growth Rate of GDP by 26 Sectors (unit: %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	3.1	4.4	5.1	5.7	6.1	4.9
2 Estate crops	3.6	4.3	5.2	5.6	5.7	4.9
3 Livestock	6.1	6.7	6.9	7.1	7.3	5.8
4 Forestry	8.0	0.7	2.7	2.7	2.4	3.2
5 Fishery	12.8	9.9	10.5	11.1	11.5	11.2
6 Oil & Gas	1.2	4.4	5.6	6.9	7.9	5.2
7 Non Oil Gas	10.7	8.4	8.8	8.1	7.0	8.6
8 Food	5.6	5.3	5.7	6.2	6.0	5.8
9 Textile	9.3	5.3	8.8	3.9	6.8	7.2
10 Wood	6.2	6.4	8.5	8.8	8.2	7.6
11 Paper	15.1	16.3	15.0	15.7	14.3	15.3
12 Chemical	13.0	11.7	10.0	9.0	8.6	10.4
13 Non Metale	2.4	3.2	2.9	1.8	0.9	2.3
14 Iron & steel	16.6	15.3	16.2	16.4	16.2	16.2
15 Non Ferrous metal	20.5	15.8	15.6	15.3	14.8	16.4
16 Fabricated Metal	13.0	14.2	14.7	14.3	13.9	14.0
17 Machinery	23.7	15.5	12.3	11.1	10.3	14.5
18 Transport Equip	18.2	12.1	12.0	11.6	11.4	13.1
19 Oth manufacturing	30.4	13.3	12.4	11.8	11.4	15.6
20 Elec Gas Water	16.9	10.5	10.8	10.8	10.6	11.9
21 Construction	8.4	8.5	9.5	9.4	9.4	9.0
22 Trade	7.0	8.4	8.6	8.5	8.5	8.2
23 Restaurant/Hotel	9.7	10.1	9.9	9.8	9.8	9.9
24 Transportation	9.5	9.8	9.8	9.5	9.2	9.6
25 Finance	9.2	9.4	9.4	9.3	9.2	9.3
27 Oth. Service	4.9	9.7	9.6	9.5	9.4	8.6
Total	7.9	8.6	9.0	9.2	9.2	8.8

3) Annual Growth Rate of Consumption by 26 Sectors (unit: %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	10.0	10.0	10.0	10.0	10.0	10.0
2 Estate crops	10.0	10.0	10.0	10.0	10.0	10.0
3 Livestock	10.0	10.0	10.0	10.0	2.0	8.4
4 Forestry	2.0	2.0	10.0	10.0	10.0	6.7
5 Fishery	10.0	10.0	10.0	10.0	10.0	10.0
6 Oil & Gas						
7 Non Oil Gas	10.0	10.0	10.0	10.0	10.0	10.0
8 Food	2.0	2.0	2.0	2.0	2.0	2.0
9 Textile	2.0	2.0	2.0	2.0	2.0	2.0
10 Wood	2.0	2.0	2.0	2.0	2.0	2.0
11 Paper	10.0	10.0	2.0	10.0	2.0	6.7
12 Chemical	10.0	10.0	10.0	10.0	10.0	10.0
13 Non Metale	2.0	2.0	2.0	2.0	2.0	2.0
14 Iron & steel						
15 Non Ferrous metal	0.9	2.9	1.3	2.4	2.1	1.9
16 Fabricated Metal	10.0	2.0	2.0	2.0	2.0	3.6
17 Machinery	10.0	10.0	2.0	2.0	2.0	5.1
18 Transport Equip	5.4	2.0	2.0	2.0	2.0	2.7
19 Oth manufacturing	7.0	2.0	2.0	2.0	2.0	2.0
20 Elec Gas Water	10.0	10.0	10.0	10.0	10.0	10.0
21 Construction	2.0	2.0	10.0	10.0	10.0	6.7
22 Trade	10.0	10.0	10.0	10.0	10.0	10.0
23 Restaurant/Hotel	10.0	10.0	10.0	10.0	10.0	10.0
24 Transportation	10.0	10.0	10.0	10.0	10.0	10.0
25 Finance	10.0	10.0	10.0	10.0	10.0	10.0
27 Oth. Service	4.6	10.0	10.0	10.0	10.0	8.9
Total	7.2	8.2	8.5	9.0	9.0	8.4

4) Annual Growth Rate of Investment (unit: %)

Total	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
Total	7.2	8.6	9.6	9.6	9.5	8.9

5) Annual Growth Rate of Export by 26 Sectors (unit: %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	8.4	8.4	8.4	8.4	8.4	8.4
2 Estate crops	8.4	8.4	8.4	8.4	8.4	8.4
3 Livestock	8.4	8.4	8.4	8.4	8.4	8.4
4 Forestry	8.4	8.4	8.4	8.4	8.4	8.4
5 Fishery	8.4	8.4	8.4	8.4	8.4	8.4
6 Oil & Gas	8.4	8.4	8.4	8.4	8.4	8.4
7 Non Oil Gas	8.4	8.4	8.4	8.4	8.4	8.4
8 Food	1.9	1.9	1.9	1.9	-4.4	0.6
9 Textile	9.6	4.7	9.0	4.9	5.5	6.7
10 Wood	-4.4	-4.4	-4.4	-4.4	-4.4	-4.4
11 Paper	11.8	11.8	11.8	11.8	11.8	11.8
12 Chemical	8.4	8.4	8.4	8.4	8.4	8.4
13 Non Metale	6.2	11.8	11.8	11.8	11.8	10.7
14 Iron & steel	11.8	11.8	11.8	11.8	11.8	11.8
15 Non Ferrous metal	11.8	11.8	11.8	11.8	11.8	11.8
16 Fabricated Metal	11.8	11.8	11.8	11.8	11.8	11.8
17 Machinery	11.8	11.8	11.8	11.8	11.8	11.8
18 Transport Equip	11.8	11.8	11.8	11.8	11.8	11.8
19 Oth manufacturing	11.8	11.8	11.8	11.8	11.8	11.8
20 Elec Gas Water						
21 Construction						
22 Trade	8.4	8.4	8.4	8.4	8.4	8.4
23 Restaurant/Hotel	8.4	8.4	8.4	8.4	8.4	8.4
24 Transportation	8.4	8.4	8.4	8.4	8.4	8.4
25 Finance	8.4	8.4	8.4	8.4	8.4	8.4
27 Oth. Service	8.4	8.4	8.4	8.4	8.4	8.4
Total	7.2	7.3	8.3	8.2	8.4	7.9

6) Annual Growth Rate of Import by 26 Sectors (unit: %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	-0.4	2.2	3.0	3.8	4.0	2.5
2 Estate crops	-3.6	1.3	2.3	3.3	3.6	1.3
3 Livestock	-3.3	-1.7	-0.2	1.7	0.7	-1.0
4 Forestry	14.8	14.1	-2.9	-2.1	-1.1	4.3
5 Fishery	-3.6	-2.6	-1.9	-0.9	-0.1	-1.8
6 Oil & Gas	18.5	9.5	7.9	6.9	6.6	9.8
7 Non Oil Gas	4.6	7.1	7.6	7.9	8.3	7.1
8 Food	1.0	1.9	4.5	6.0	6.1	4.1
9 Textile	6.4	6.3	7.8	6.8	7.3	6.9
10 Wood	6.4	7.7	8.3	8.4	8.3	7.8
11 Paper	6.5	9.5	10.3	11.6	11.1	9.8
12 Chemical	2.7	6.9	7.6	7.6	7.8	6.5
13 Non Metale	17.1	7.8	9.0	9.2	9.2	10.4
14 Iron & steel	6.4	9.7	10.8	10.9	11.0	9.7
15 Non Ferrous metal	11.7	12.0	12.4	12.4	12.2	12.1
16 Fabricated Metal	4.7	7.8	9.1	9.3	9.4	8.1
17 Machinery	4.9	6.3	7.0	7.4	7.5	6.6
18 Transport Equip	3.8	4.8	6.7	7.8	8.4	6.3
19 Oth manufacturing	-0.6	2.2	4.4	6.1	7.2	3.8
20 Elec Gas Water						
21 Construction						
22 Trade						
23 Restaurant/Hotel	-2.7	-1.6	0.1	2.2	4.2	0.4
24 Transportation	0.1	2.1	4.4	6.2	7.3	4.0
25 Finance	5.4	7.2	8.2	8.6	8.8	7.8
27 Oth. Service	2.0	3.7	5.1	6.7	8.2	5.1
Total	4.6	6.5	7.6	8.0	8.3	7.0

7) Share of GDP by 26 Sectors

Sector	(unit: %)					
	0	1	2	3	4	5
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	(R-XI)
1 Farm food	10.8	8.6	7.1	5.9	5.0	4.3
2 Estate crops	7.8	2.3	1.9	1.6	1.3	1.1
3 Livestock	2.0	1.8	1.7	1.5	1.4	1.0
4 Forestry	1.5	1.5	1.0	0.8	0.6	0.4
5 Fishery	1.9	2.4	2.6	2.7	3.0	3.3
6 Oil & Gas	8.7	6.3	5.2	4.4	4.0	3.7
7 Non Oil Gas	2.3	2.6	2.6	2.5	2.4	2.2
8 Food	7.4	6.6	5.7	4.9	4.2	3.6
9 Textile	2.1	2.2	1.9	1.9	1.6	1.5
10 Wood	1.6	1.5	1.4	1.3	1.3	1.3
11 Paper	0.9	1.3	1.8	2.3	3.1	3.9
12 Chemical	5.7	7.2	8.3	8.6	8.6	8.3
13 Non Metallic	0.6	0.5	0.4	0.3	0.2	0.1
14 Iron & steel	0.5	0.8	1.1	1.4	2.0	2.7
15 Non Ferrous metal	0.2	0.4	0.5	0.7	1.0	1.2
16 Fabricated Metal	0.6	0.7	0.9	1.2	1.5	1.9
17 Machinery	1.4	2.7	3.7	4.3	4.7	5.0
18 Transport Equip	0.9	1.4	1.6	1.9	2.1	2.3
19 Other manufacturing	0.1	0.3	0.4	0.4	0.5	0.5
20 Elec Gas Water	0.9	1.3	1.4	1.5	1.6	1.8
21 Construction	7.1	7.3	7.2	7.4	7.5	7.5
22 Trade	13.0	12.5	12.4	12.1	11.8	11.4
23 Restaurant/Hotel	3.5	3.8	4.1	4.3	4.4	4.5
24 Transportation	8.2	8.9	9.4	9.7	9.8	9.9
25 Finance	9.3	9.9	10.3	10.5	10.5	10.5
27 Other Service	6.0	5.3	5.5	5.7	5.8	5.8
Total	100.0	100.0	100.0	100.0	100.0	100.0

8) Annual Growth Rate of GDP by 8 Sectors

Sector	(unit: %)					
	0-1	1-2	2-3	3-4	4-5	0-5
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
Agriculture(1-5)	3.0	3.2	6.2	7.0	7.0	6.1
Mining(6-7)	3.4	5.7	6.7	7.4	7.6	6.1
Manufacturing(8-19)	11.2	10.2	10.3	10.2	10.3	10.5
Light Industry(8-10,19)	6.8	5.7	7.1	6.9	6.9	6.7
Resource-based Industry(11-15)	13.1	12.4	11.4	11.4	11.3	11.9
Machinery(16-18)	20.1	14.4	12.6	11.8	11.3	14.0
Electricity, Gas & Water(20)	15.9	10.5	10.8	10.8	10.6	11.9
Construction(21)	8.4	8.5	9.5	9.4	9.4	9.0
Services(22-27)	8.0	9.3	9.3	9.2	9.1	9.0
Total	7.9	8.6	9.0	9.2	9.2	8.8

9) Share of GDP by 8 Sectors

Sector	(unit: %)					
	0	1	2	3	4	5
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	(R-XI)
Agriculture(1-5)	19.1	16.7	14.3	12.5	11.3	10.2
Mining(6-7)	10.9	8.9	7.7	7.0	6.4	5.9
Manufacturing(8-19)	22.0	23.6	27.7	29.3	30.8	32.4
Light Industry(8-10,19)	11.2	10.7	9.3	8.5	7.7	6.9
Resource-based Industry(11-15)	8.0	10.1	12.0	13.4	14.8	16.3
Machinery(16-18)	2.8	4.9	6.3	7.4	8.4	9.2
Electricity, Gas & Water(20)	0.9	1.3	1.4	1.5	1.6	1.8
Construction(21)	7.1	7.3	7.2	7.4	7.5	7.5
Services(22-27)	45.1	40.3	41.7	42.3	42.4	42.2
Total	100.0	100.0	100.0	100.0	100.0	100.0

2. Macro Indicator
1) Investment Share of GDP

Investment	(unit: %)					
	0	1	2	3	4	5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	(R-XI)
Investment	34.0	32.9	33.0	33.9	34.5	35.0

2) Number of Skilled Labor Employment at the End of Each Period

Sector	(unit: thousand)					
	0	1	2	3	4	5
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	(R-XI)
Agriculture(1-5)	941	1,319	1,750	2,307	3,125	4,190
Manufacturing(8-19)	8,156	10,174	12,899	16,342	20,703	26,286
Others(6, 7, 20-27)	6,652	9,094	12,268	16,525	22,150	29,501
Total	15,749	20,586	26,909	35,174	45,978	59,976

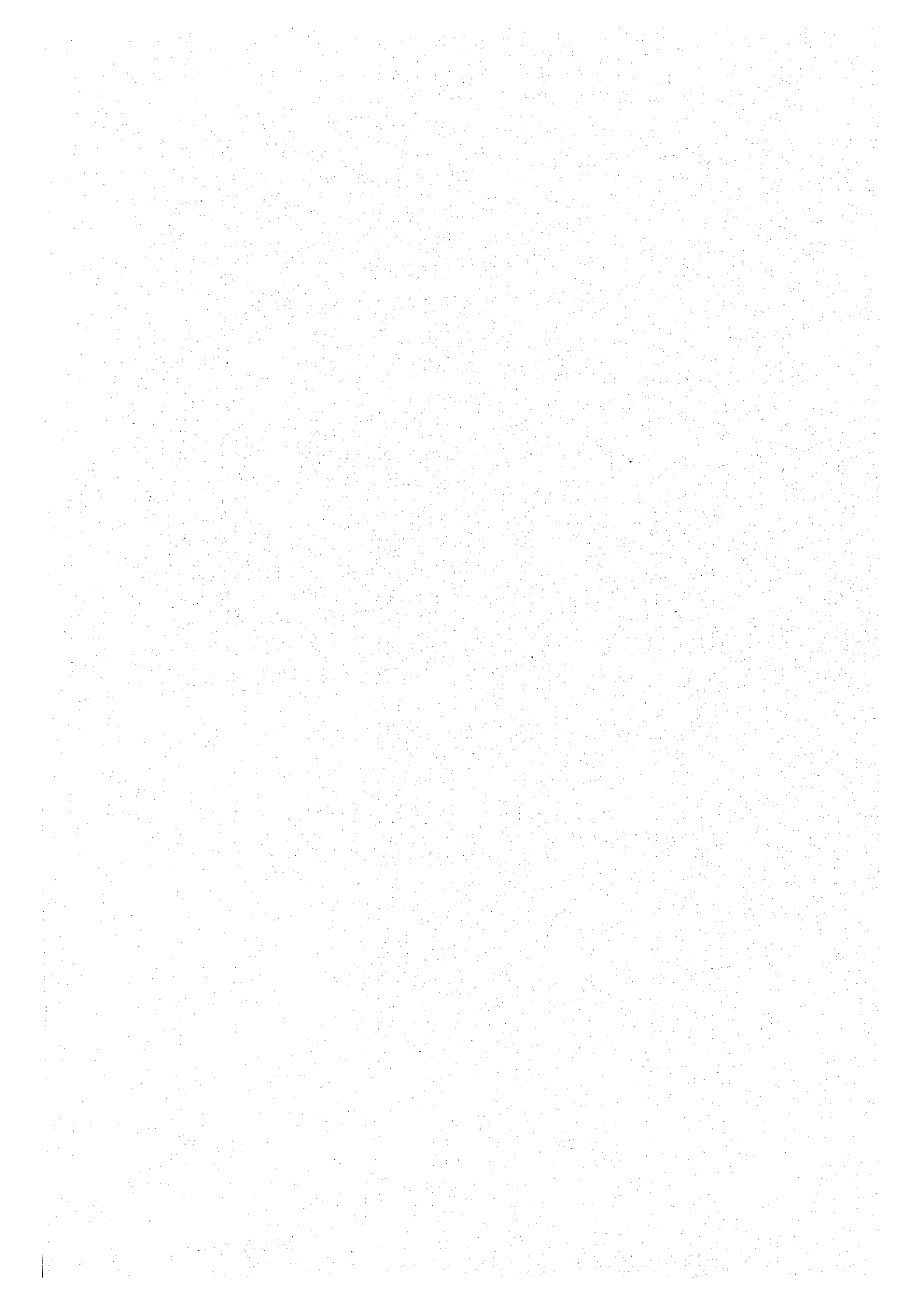
3) Per Capita Consumption and Per Capita GDP

Per Capita Consumption	(unit: thousand Rp)					
	0	1	2	3	4	5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	(R-XI)
Per Capita Consumption (thousand Rp)	995	1,302	1,796	2,530	3,669	5,387
Per Capita Consumption (US\$)	477	624	861	1,212	1,758	2,581
Per Capita GDP (thousand Rp)	1,452	1,963	2,743	3,965	5,807	8,584
Per Capita GDP (US\$)	696	940	1,317	1,900	2,782	4,113

Note: Exchange rate (Rp) of 1993 is utilized for conversion from Rupiah term to Dollar term in each period.

Appendix 10

Optimum Solutions of Two-Region IOPM



1. Optimum Solution

(Case0)

1) Annual Growth Rate of Output by 26 Sectors

1-1) Java

Sector	(unit. %)					Average
	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	
1 Farm food	7.4	8.7	6.2	1.5	1.0	4.9
2 Estate crops	3.5	3.5	0.7	-0.9	-4.5	0.4
3 Livestock	8.7	9.8	7.0	3.3	2.1	6.1
4 Forestry	5.4	3.5	5.3	1.7	-10.9	0.8
5 Fishery	11.3	11.6	10.6	6.4	7.7	9.5
6 Oil & Gas	3.0	2.2	1.9	0.4	-1.1	1.3
7 Non Oil Gas	9.8	9.1	7.9	5.9	1.0	6.7
8 Food	5.0	9.0	5.7	3.6	3.3	5.3
9 Textile	3.8	1.2	3.5	6.1	8.3	4.5
10 Wood	6.1	2.4	5.1	1.6	-20.4	-1.6
11 Paper	12.9	13.5	12.5	10.7	5.9	11.1
12 Chemical	12.7	11.7	10.4	4.2	3.9	8.5
13 Non Metallic	2.1	2.0	3.5	1.8	-1.5	1.6
14 Iron & steel	13.5	12.4	12.9	11.6	5.1	11.0
15 Non Ferrous metal	17.6	17.7	8.2	12.9	15.9	14.6
16 Fabricated Metal	11.6	10.8	9.7	7.1	-7.7	6.0
17 Machinery	19.0	13.8	12.2	10.8	5.1	12.1
18 Transport Equip	15.3	12.7	10.5	10.6	7.1	11.2
19 Oth manufacturing	15.1	13.8	1.6	3.0	-0.6	6.4
20 Elec Gas Water	10.8	10.6	10.4	9.3	7.8	9.8
21 Construction	8.8	7.0	9.7	4.0	-40.8	-4.7
22 Trade	8.2	8.0	8.4	6.9	3.3	6.9
23 Restaurant/Hotel	10.8	10.1	9.7	8.6	8.8	9.6
24 Transportation	9.4	9.3	8.1	7.2	5.4	7.9
25 Finance	9.7	9.5	9.0	7.5	4.9	8.1
27 Oth Service	4.4	4.0	4.1	3.9	3.7	4.0
Total	8.7	9.0	8.5	6.5	2.6	7.0

1-2) Outside Java

Sector	(unit. %)					Average
	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	
1 Farm food	8.3	8.6	6.6	2.5	4.7	6.1
2 Estate crops	7.1	7.6	6.1	7.3	4.8	6.6
3 Livestock	9.6	9.7	6.7	4.4	6.7	7.4
4 Forestry	3.1	4.3	4.3	5.6	8.4	5.1
5 Fishery	12.7	13.1	12.8	10.2	11.3	12.0
6 Oil & Gas	3.1	3.5	2.6	4.3	9.3	4.5
7 Non Oil Gas	11.7	12.3	11.3	12.1	12.5	12.0
8 Food	6.8	8.0	3.9	3.6	5.9	5.6
9 Textile	11.2	11.6	8.1	10.9	14.2	11.2
10 Wood	4.1	6.7	7.3	9.3	12.0	7.9
11 Paper	15.9	14.5	13.8	14.3	15.5	14.8
12 Chemical	12.8	13.3	11.3	10.6	1.9	9.9
13 Non Metallic	7.4	8.4	4.9	8.6	19.8	8.0
14 Iron & steel	19.2	17.6	13.4	18.9	25.3	18.8
15 Non Ferrous metal	20.6	18.2	14.7	16.7	17.3	17.5
16 Fabricated Metal	14.8	14.2	12.2	14.4	17.6	14.6
17 Machinery	25.1	21.3	12.5	15.6	20.1	21.1
18 Transport Equip	36.5	17.6	7.0	12.0	18.1	17.8
19 Oth manufacturing	20.6	14.5	9.3	13.9	19.4	15.5
20 Elec Gas Water	11.1	11.2	11.1	12.1	12.2	11.5
21 Construction	14.0	14.4	9.7	15.4	21.9	15.0
22 Trade	10.5	10.7	9.1	10.7	13.0	10.8
23 Restaurant/Hotel	9.8	9.9	9.7	9.7	9.6	9.7
24 Transportation	10.8	11.1	10.1	9.6	11.4	10.6
25 Finance	9.9	9.9	9.6	9.5	9.3	9.6
27 Oth Service	4.9	4.3	4.6	5.8	8.0	5.5
Total	9.9	10.9	9.1	10.5	12.2	10.5

1-3) Java + Outside Java

Sector	(unit. %)					Average
	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	
1 Farm food	7.7	8.7	6.3	1.9	2.6	5.4
2 Estate crops	5.8	6.3	4.6	5.6	3.4	5.1
3 Livestock	9.1	9.8	6.9	3.8	4.3	6.7
4 Forestry	3.5	4.2	4.5	4.9	6.2	4.7
5 Fishery	12.2	12.7	12.1	9.2	10.4	11.3
6 Oil & Gas	3.1	3.1	2.5	3.9	8.4	4.2
7 Non Oil Gas	11.4	11.8	10.8	11.4	11.6	11.4
8 Food	5.4	8.8	5.4	3.6	3.9	5.4
9 Textile	4.1	2.0	4.0	6.7	9.2	5.2
10 Wood	4.4	6.1	7.0	8.5	10.5	7.3
11 Paper	13.2	13.6	12.7	11.2	7.4	11.6
12 Chemical	12.7	12.7	11.0	8.6	2.5	9.4
13 Non Metallic	4.3	5.1	4.3	5.7	6.8	5.2
14 Iron & steel	13.8	12.7	13.0	12.3	8.1	12.0
15 Non Ferrous metal	19.7	18.1	12.9	15.9	17.2	16.7
16 Fabricated Metal	12.0	11.3	10.1	8.6	1.0	8.6
17 Machinery	22.2	15.0	12.2	11.8	9.3	14.0
18 Transport Equip	16.7	13.2	10.1	10.7	8.5	11.8
19 Oth manufacturing	16.4	14.0	3.8	7.2	10.3	10.2
20 Elec Gas Water	10.9	10.7	10.6	9.9	8.8	10.2
21 Construction	10.5	9.9	9.7	9.6	9.2	9.8
22 Trade	9.1	9.1	8.7	8.6	8.3	8.7
23 Restaurant/Hotel	10.6	10.1	9.7	8.7	8.9	9.6
24 Transportation	9.9	10.0	8.9	8.3	8.2	9.0
25 Finance	9.7	9.6	9.1	8.0	6.1	8.5
27 Oth Service	4.4	4.0	4.2	4.2	4.6	4.3
Total	9.2	9.7	8.8	8.2	7.3	8.6

2) Annual Growth Rate of GDP by 26 Sectors

2-1) Java

Sector	(unit. %)					Average
	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	
1 Farm food	5.8	6.1	3.6	-1.0	-1.4	2.6
2 Estate crops	2.3	1.6	-1.2	-2.7	-6.2	-1.3
3 Livestock	7.9	8.5	5.8	2.1	0.9	5.0
4 Forestry	4.3	1.5	3.4	-0.1	-12.6	-0.9
5 Fishery	10.1	9.8	8.8	4.7	5.9	7.8
6 Oil & Gas	3.0	2.2	1.9	0.4	-1.1	1.3
7 Non Oil Gas	9.8	9.1	7.9	5.9	1.0	6.7
8 Food	7.0	11.1	7.8	5.6	5.3	7.3
9 Textile	5.8	3.2	5.5	8.1	10.3	6.5
10 Wood	8.1	4.4	7.1	3.5	-18.9	0.3
11 Paper	15.1	15.6	14.7	12.9	7.9	13.2
12 Chemical	14.8	13.8	12.5	6.2	5.9	10.6
13 Non Metallic	4.0	4.0	5.5	3.8	0.4	3.5
14 Iron & steel	15.6	14.5	15.1	13.8	7.1	13.2
15 Non Ferrous metal	19.9	20.0	10.3	15.0	19.1	16.8
16 Fabricated Metal	13.7	12.9	11.8	9.1	-5.9	8.1
17 Machinery	21.2	15.0	14.3	12.9	7.1	14.2
18 Transport Equip	17.5	14.8	12.7	12.7	9.1	13.3
19 Oth manufacturing	17.4	14.0	3.5	5.0	1.3	8.4
20 Elec Gas Water	10.8	10.6	10.4	9.3	7.8	9.8
21 Construction	13.1	7.0	9.7	4.0	-40.8	-4.0
22 Trade	8.2	8.0	8.4	6.9	3.3	6.9
23 Restaurant/Hotel	10.8	10.1	9.7	8.6	8.8	9.6
24 Transportation	9.4	9.3	8.1	7.2	5.4	7.9
25 Finance	9.7	9.5	9.0	7.5	4.9	8.1
27 Oth Service	4.4	4.0	4.1	3.9	3.7	4.0
Total	9.2	9.2	8.8	7.1	4.0	7.6

2-2) Outside Java

Sector	(unit. %)					Average
	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	
1 Farm food	6.7	6.0	4.0	0.0	2.2	3.7
2 Estate crops	5.9	5.5	4.1	5.3	2.8	4.7
3 Livestock	8.8	8.4	5.5	3.2	5.4	6.2
4 Forestry	2.0	2.4	2.3	3.6	6.3	3.3
5 Fishery	11.6	11.2	10.9	8.3	9.4	10.3
6 Oil & Gas	3.1	3.5	2.6	4.3	9.3	4.5
7 Non Oil Gas	11.7	12.3	11.3	12.1	12.5	12.0
8 Food	6.8	8.0	3.9	3.6	5.9	5.6
9 Textile	13.3	13.7	10.2	13.0	16.4	13.3
10 Wood	6.2	8.8	9.3	11.4	14.2	9.9
11 Paper	18.2	16.7	16.0	16.5	17.7	17.0
12 Chemical	14.9	15.5	13.5	13.8	3.8	12.0
13 Non Metallic	9.5	10.5	7.0	10.7	11.9	10.1
14 Iron & steel	21.5	19.8	15.6	21.2	27.7	21.1
15 Non Ferrous metal	23.0	20.5	16.9	19.0	19.5	19.7
16 Fabricated Metal	17.0	16.4	14.3	16.6	19.8	16.8
17 Machinery	28.5	23.6	14.6	17.8	22.4	20.5
18 Transport Equip	39.1	19.9	9.1	14.1	20.4	20.1
19 Oth manufacturing	22.9	16.7	11.4	16.1	21.7	17.7
20 Elec Gas Water	11.1	11.2	11.1	12.1	12.2	11.5
21 Construction	7.4	14.4	9.7	15.4	21.9	13.6
22 Trade	10.5	10.7	9.1	10.7	13.0	10.8
23 Restaurant/Hotel	9.8	9.9	9.7	9.7	9.6	9.7
24 Transportation	10.8	11.1	10.1	9.6	11.4	10.6
25 Finance	9.9	9.9	9.6	9.5	9.3	9.6
27 Oth Service	4.9	4.3	4.6	5.8	8.0	5.5
Total	8.9	10.3	9.2	10.6	12.0	10.2

2-3) Java + Outside Java

Sector	(unit. %)					Average
	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	
1 Farm food	6.1	6.0	3.7	-0.6	0.1	3.0
2 Estate crops	4.6	4.3	2.6	3.6	1.4	3.3
3 Livestock	8.3	8.5	5.6	2.6	3.1	5.6
4 Forestry	2.4	2.2	2.5	2.9	4.0	2.8
5 Fishery	11.1	10.6	10.2	7.3	8.5	9.6
6 Oil & Gas	3.1	3.1	2.5	3.9	8.4	4.2
7 Non Oil Gas	11.4	11.9	10.9	11.5	11.7	11.5
8 Food	7.4	10.9	7.5	3.6	3.7	7.4
9 Textile	6.2	4.1	6.1	8.8	11.5	7.3
10 Wood	6.4	8.2	9.1	10.7	12.7	9.4
11 Paper	15.4	15.7	14.8	13.3	9.4	13.7
12 Chemical	14.9	14.9	13.1	10.7	4.4	11.5
13 Non Metallic	5.9	6.7	6.2	7.3	8.1	6.8
14 Iron & steel	16.0	14.9	15.1	14.4	10.0	14.1
15 Non Ferrous metal	22.3	20.4	15.6	18.4	19.5	19.2
16 Fabricated Metal	14.4	13.8	12.5	11.4	6.1	11.6
17 Machinery	24.8	17.4	14.4	14.0	11.7	16.4
18 Transport Equip	19.0	15.4	12.2	12.9	10.8	14.0
19 Oth manufacturing	18.7	16.2	3.0	9.5	12.9	12.6
20 Elec Gas Water	10.8	10.7	10.6	9.8	8.8	10.1
21 Construction	10.7	10.0	9.7	9.8	10.1	10.1
22 Trade	9.1	9.1	8.7	8.5	8.2	8.7
23 Restaurant/Hotel	10.6	10.1	9.7	8.7	8.9	9.6
24 Transportation	9.9	10.0	8.9	8.3	8.3	9.1
25 Finance	9.7	9.6	9.1	8.0	6.1	8.5
27 Oth Service	4.4	4.0	4.2	4.3	4.7	4.3
Total	9.1	9.6	9.0	8.6	8.0	8.9

(Case6)

3) Annual Growth Rate of Consumption by 26 Sectors

3-1) Java (unit: %)						
Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	100	100	82	20	20	64
2 Estate crops	88	20	20	20	20	33
3 Livestock	100	100	73	20	20	62
4 Forestry	20	20	20	20	20	20
5 Fishery	100	100	95	20	20	66
6 Oil & Gas						
7 Non Oil Gas						
8 Food	20	97	66	35	20	47
9 Textile	70	100	100	100	100	94
10 Wood	20	20	20	20	20	20
11 Paper	100	100	100	100	100	100
12 Chemical	100	100	100	100	100	100
13 Non Metallic	20	100	100	100	100	83
14 Iron & steel						
15 Non Ferrous metal						
16 Fabricated Metal	100	100	100	100	100	100
17 Machinery	100	100	100	100	100	100
18 Transport Equip	100	100	100	100	100	100
19 Oth manufacturing	100	100	100	100	100	100
20 Elec Gas Water	100	100	100	100	100	100
21 Construction	20	20	20	20	20	20
22 Trade	100	100	100	100	100	100
23 Restaurant/Hotel	100	100	100	100	100	100
24 Transportation	100	100	100	100	100	100
25 Finance	100	100	100	100	100	100
27 Oth Service	20	20	20	20	20	20
Total	7.0	9.1	8.5	7.5	7.8	8.0

3-2) Outside Java (unit: %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	100	100	90	20	20	65
2 Estate crops	100	31	20	20	20	38
3 Livestock	100	100	82	20	20	64
4 Forestry	20	20	20	20	20	20
5 Fishery	100	100	100	36	20	71
6 Oil & Gas						
7 Non Oil Gas						
8 Food	72	82	34	20	20	45
9 Textile	100	100	100	100	100	100
10 Wood	20	20	20	20	20	20
11 Paper	100	100	100	100	100	100
12 Chemical	100	100	100	100	100	100
13 Non Metallic	20	100	100	100	100	84
14 Iron & steel						
15 Non Ferrous metal						
16 Fabricated Metal	100	100	100	100	100	100
17 Machinery	100	100	100	100	100	100
18 Transport Equip	100	100	100	100	100	100
19 Oth manufacturing	100	100	100	100	100	100
20 Elec Gas Water	100	100	100	100	100	100
21 Construction	20	20	20	20	20	20
22 Trade	100	100	100	100	100	100
23 Restaurant/Hotel	100	100	100	100	100	100
24 Transportation	100	100	100	100	100	100
25 Finance	100	100	100	100	100	100
27 Oth Service	20	20	20	20	20	20
Total	8.4	8.9	7.7	6.6	7.3	7.8

3-3) Java + Outside Java (unit: %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	100	100	85	20	20	64
2 Estate crops	93	24	20	20	20	35
3 Livestock	100	100	76	20	20	63
4 Forestry	20	20	20	20	20	20
5 Fishery	100	100	98	20	20	69
6 Oil & Gas						
7 Non Oil Gas						
8 Food	41	91	53	29	20	47
9 Textile	81	100	100	100	100	96
10 Wood	20	20	20	20	20	20
11 Paper	100	100	100	100	100	100
12 Chemical	100	100	100	100	100	100
13 Non Metallic	20	100	100	100	100	84
14 Iron & steel						
15 Non Ferrous metal						
16 Fabricated Metal	100	100	100	100	100	100
17 Machinery	100	100	100	100	100	100
18 Transport Equip	100	100	100	100	100	100
19 Oth manufacturing	100	100	100	100	100	100
20 Elec Gas Water	100	100	100	100	100	100
21 Construction	20	20	20	20	20	20
22 Trade	100	100	100	100	100	100
23 Restaurant/Hotel	100	100	100	100	100	100
24 Transportation	100	100	100	100	100	100
25 Finance	100	100	100	100	100	100
27 Oth Service	20	20	20	20	20	20
Total	7.5	9.0	8.2	7.2	7.6	7.9

4) Annual Growth Rate of Investment

4) Annual Growth Rate of Investment (unit: %)						
	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
Java	72	71	99	40	-100.0	-100.0
Outside Java	128	148	98	156	222	150
Total (Java + Outside Java)	93	104	99	103	110	102

5) Annual Growth Rate of Capital stock

5) Annual Growth Rate of Capital stock (unit: %)						
	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
Java	97	87	91	73	-10	67
Outside Java	94	116	108	130	178	125
Total (Java + Outside Java)	95	99	99	100	104	100

6) Annual Growth Rate of Export by 26 Sectors

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	8.5	8.4	-4.4	-4.4	-4.4	0.6
2 Estate crops	8.5	8.4	-4.4	-4.4	-4.4	0.6
3 Livestock	8.6	8.4	8.4	-4.4	-4.4	3.2
4 Forestry	-4.5	-4.4	-4.4	-4.4	-4.4	-4.4
5 Fishery	8.5	8.4	8.4	8.4	8.4	8.4
6 Oil & Gas	1.9	1.9	1.9	1.9	-4.4	0.6
7 Non Oil/Gas	14.9	14.9	-4.4	-4.4	-4.4	2.9
8 Food	1.9	1.9	-4.4	-4.4	-4.4	-1.9
9 Textile	3.8	-4.4	-4.4	-4.4	-4.4	-2.8
10 Wood	-4.4	-4.4	-4.4	-4.4	-4.4	-4.4
11 Paper	14.9	14.9	14.9	14.9	-4.4	10.7
12 Chemical	14.9	14.9	14.9	-4.4	-4.4	6.8
13 Non Metablc	-4.4	-4.4	-4.4	-4.4	-4.4	-4.4
14 Iron & steel	14.9	14.9	14.9	14.9	14.9	14.9
15 Non Ferrous metal	14.9	14.9	-4.4	-4.4	-4.4	2.9
16 Fabricated Metal	14.9	14.9	-4.4	-4.4	-4.4	2.9
17 Machinery	14.9	14.9	14.9	14.9	-4.4	10.7
18 Transport Equip	14.9	14.9	14.9	14.9	-4.4	10.7
19 Oth manufacturing	14.9	14.9	4.4	-4.4	-4.4	2.9
20 Elec Gas/Water						
21 Construction						
22 Trade	8.4	8.4	8.4	8.4	8.4	8.4
23 Restaurant/Hotel	8.4	8.4	8.4	-4.4	-4.4	3.1
24 Transportation	8.4	8.4	-4.4	-4.4	-4.4	0.6
25 Finance	8.4	8.4	8.4	8.4	-4.4	5.8
27 Oth Service	8.5	-4.4	-4.4	-4.4	-4.4	-1.9
Total	7.9	7.5	7.5	5.6	-0.5	5.5

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	8.5	8.4	8.4	-4.4	-4.4	3.1
2 Estate crops	8.4	8.4	-4.4	-4.4	-4.4	0.6
3 Livestock	8.4	8.4	8.4	-4.4	-4.4	3.1
4 Forestry	-4.4	-4.4	-4.4	-4.4	-4.4	-4.4
5 Fishery	8.5	8.4	8.4	8.4	8.4	8.4
6 Oil & Gas	1.9	1.9	1.9	1.9	1.9	1.9
7 Non Oil/Gas	14.9	14.9	14.9	14.9	14.9	14.9
8 Food	1.9	1.9	-4.4	-4.4	-4.4	-1.9
9 Textile	14.9	14.9	-4.4	-4.4	-4.4	2.9
10 Wood	0.2	-4.4	-4.4	-4.4	-4.4	-3.5
11 Paper	14.9	14.9	14.9	14.9	14.9	14.9
12 Chemical	14.9	14.9	14.9	14.9	0.2	11.8
13 Non Metablc	-4.3	8.3	-4.4	-4.4	-4.4	-2.0
14 Iron & steel	14.9	14.9	14.9	14.9	14.9	14.9
15 Non Ferrous metal	14.9	14.9	14.9	14.9	6.3	13.1
16 Fabricated Metal	14.9	14.9	14.9	14.9	14.9	14.9
17 Machinery	14.9	14.9	14.9	14.9	14.9	14.9
18 Transport Equip	14.9	14.9	-4.4	-4.4	-4.4	2.9
19 Oth manufacturing	14.9	14.9	-4.4	-4.4	-4.4	2.9
20 Elec Gas/Water						
21 Construction						
22 Trade	8.4	8.4	8.4	8.4	8.4	8.4
23 Restaurant/Hotel	8.4	8.4	8.4	8.4	8.4	8.4
24 Transportation	8.4	8.4	8.4	-4.4	8.4	5.8
25 Finance	8.4	8.4	8.4	8.4	8.4	8.4
27 Oth Service	8.5	-4.4	-4.4	-4.4	-4.4	-1.9
Total	8.1	9.3	10.6	11.7	5.0	8.9

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	8.5	8.4	3.6	-4.4	-4.4	2.2
2 Estate crops	8.4	8.4	-4.4	-4.4	-4.4	0.6
3 Livestock	8.5	8.4	8.4	-4.4	-4.4	3.1
4 Forestry	-4.4	-4.4	-4.4	-4.4	-4.4	-4.4
5 Fishery	8.5	8.4	8.4	8.4	8.4	8.4
6 Oil & Gas	1.9	1.9	1.9	1.9	1.3	1.8
7 Non Oil/Gas	14.9	14.9	14.6	14.7	14.8	14.8
8 Food	1.9	1.9	-4.4	-4.4	-4.4	-1.9
9 Textile	4.0	-4.0	-4.4	-4.4	-4.4	-2.7
10 Wood	-0.7	-4.4	-4.4	-4.4	-4.4	-3.6
11 Paper	14.9	14.9	14.9	14.9	3.9	12.6
12 Chemical	14.9	14.9	14.9	11.4	-0.3	11.0
13 Non Metablc	-4.4	-0.5	-4.4	-4.4	-4.4	-3.6
14 Iron & steel	14.9	14.9	14.9	14.9	14.9	14.9
15 Non Ferrous metal	14.9	14.9	9.8	12.4	5.7	11.5
16 Fabricated Metal	14.9	14.9	-1.6	1.2	5.3	6.7
17 Machinery	14.9	14.9	14.9	14.9	-1.3	11.4
18 Transport Equip	14.9	14.9	11.6	13.4	-4.4	9.8
19 Oth manufacturing	14.9	14.9	-4.4	-4.4	-4.4	2.9
20 Elec Gas/Water						
21 Construction						
22 Trade	8.4	8.4	8.4	8.4	8.4	8.4
23 Restaurant/Hotel	8.4	8.4	8.4	1.2	3.2	5.9
24 Transportation	8.4	8.4	7.4	-4.4	4.3	3.7
25 Finance	8.4	8.4	8.4	8.4	1.2	7.0
27 Oth Service	8.5	-4.4	-4.4	-4.4	-4.4	-1.9
Total	8.0	8.5	9.3	9.3	3.2	7.6

7) Annual Growth Rate of Import by 26 Sectors

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	8.1	3.3	6.7	6.7	8.7	5.1
2 Estate crops	5.4	9.5	10.4	11.7	13.1	10.0
3 Livestock	3.1	6.6	8.2	7.0	7.4	6.4
4 Forestry	5.8	4.5	6.9	4.0	-2.5	3.7
5 Fishery	2.6	7.7	9.1	11.4	12.2	8.6
6 Oil & Gas	3.2	0.0	-1.8	-8.5	-11.1	-3.8
7 Non Oil/Gas	9.0	7.9	8.3	4.2	-7.3	4.2
8 Food	-1.5	8.3	7.7	7.4	7.7	5.8
9 Textile	5.1	3.8	5.4	6.6	7.5	5.7
10 Wood	10.7	8.5	9.5	3.8	-16.3	2.7
11 Paper	11.5	12.8	12.0	9.9	6.9	10.6
12 Chemical	5.1	6.7	5.6	1.6	-0.8	3.6
13 Non Metablc	3.3	1.9	3.5	0.8	-3.6	1.2
14 Iron & steel	12.7	11.3	12.6	9.6	-8.4	7.2
15 Non Ferrous metal	13.7	12.8	10.9	11.0	5.1	10.7
16 Fabricated Metal	10.5	9.4	11.6	6.6	-23.0	2.1
17 Machinery	6.0	7.2	8.0	6.5	0.6	5.6
18 Transport Equip	3.8	5.6	8.6	8.4	6.4	6.6
19 Oth manufacturing	8.7	8.4	8.1	8.1	6.8	8.0
20 Elec Gas/Water	10.8	10.8	10.6	9.0	6.9	9.6
21 Construction						
22 Trade						
23 Restaurant/Hotel	-1.2	0.7	12.3	11.7	11.7	6.9
24 Transportation	12.1	12.5	12.6	12.4	12.4	12.4
25 Finance	5.8	7.1	9.3	7.4	5.0	6.9
27 Oth Service	2.0	2.7	2.9	2.3	1.3	2.3
Total	5.8	7.3	8.4	7.0	2.5	6.2

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	1.0	2.8	0.7	4.9	8.3	3.5
2 Estate crops	8.6	10.2	9.8	10.7	8.7	9.6
3 Livestock	4.6	6.6	6.9	6.3	7.7	6.4
4 Forestry	2.5	4.9	5.0	7.6	11.2	6.2
5 Fishery	7.0	9.2	11.9	12.6	13.6	10.8
6 Oil & Gas	3.1	1.0	-0.8	-1.0	-6.9	-1.0
7 Non Oil/Gas	13.1	13.1	9.3	12.6	14.8	12.6
8 Food	-2.0	8.8	8.3	8.0	8.2	6.1
9 Textile	9.8	10.2	9.1	10.9	13.3	10.6
10 Wood	14.0	14.3	10.3	13.4	17.2	13.8
11 Paper	4.0	9.7	13.5	16.4	20.0	12.6
12 Chemical	11.0	12.1	8.4	5.7	-1.0	7.1
13 Non Metablc	9.1	8.7	5.2	8.9	10.6	8.5
14 Iron & steel	19.2	17.7	13.2	19.9	27.0	19.3
15 Non Ferrous metal	26.3	19.8	14.6	17.6	20.7	19.7
16 Fabricated Metal	13.2	15.2	11.9	17.5	23.5	16.2
17 Machinery	-0.7	2.7	5.7	10.0	12.7	6.0
18 Transport Equip	1.0	4.1	9.6	10.5	13.0	7.5
19 Oth manufacturing	0.9	10.9	11.5	13.2	16.2	10.4
20 Elec Gas/Water	11.5	12.5	12.4	14.3	14.3	13.0
21 Construction						
22 Trade						
23 Restaurant/Hotel	-2.0	0.1	2.7	7.0	9.8	3.4
24 Transportation	5.7	8.8	11.5	12.1	11.9	10.0
25 Finance	1.1	3.8	5.6	8.6	10.2	5.8
27 Oth Service	1.9	2.9	3.7	5.2	6.3	4.0
Total	5.1	8.9	8.6	11.0	14.7	9.6

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	0.3	3.3	6.0	6.6	8.7	4.9
2 Estate crops	5.9	9.7	10.3	11.5	12.3	9.9
3 Livestock	3.2	6.6	8.1	6.9	7.5	6.4
4 Forestry	3.8	4.8	5.8	6.1	6.6	5.4
5 Fishery	3.1	7.9	9.5	11.6	12.5	8.9
6 Oil & Gas	3.1	0.7	-1.1	-2.9	-7.8	-1.7
7 Non Oil/Gas	9.7	8.9	8.5	6.4	1.6	7.0
8 Food	-1.6	8.3	7.8	7.5	7.7	5.9
9 Textile	5.2	4.0	5.5	6.8	7.8	5.9
10 Wood	11.2	9.5	9.7	6.1	-1.5	6.9
11 Paper	10.9	12.6	12.1	10.3	8.0	10.8
12 Chemical	6.6	8.4	6.6	3.2	-0.9	4.7
13 Non Metablc	3.8	2.6	3.8	2.1	-0.2	2.4
14 Iron & steel	13.7	13.5	11.7	12.2	8.0	11.8
15 Non Ferrous metal	14.5	13.5	11.3	12.0	8.3	11.9
16 Fabricated Metal	11.4	11.4	11.7	11.4	9.9	11.2
17 Machinery	4.7	6.6	7.7	7.0	2.6	5.7
18 Transport Equip	3.4	5.4	8.8	8.7	7.4	6.7
19 Oth manufacturing	6.8	8.9	8.9	9.3	10.0	8.8
20 Elec Gas/Water	10.8	10.9	10.8	9.6	8.0	10.0
21 Construction						
22 Trade						
23 Restaurant/Hotel	-1.4	0.6	10.8	11.2	11.5	6.4
24 Transportation	11.0	12.0	12.5	12.3	12.3	12.0
25 Finance	4.9	6.6	8.8	7.5	5.7	6.7
27 Oth Service	2.0	2.8	3.1	2.9	2.5	2.7
Total	5.7	7.6	8.4	7.8	5.8	7.1

8) Share of GDP by 26 Sectors

8-1) Java (unit: %)

Sector	0	1	2	3	4	5
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	(R-X)
1 Farm food	11.1	9.5	8.2	6.4	4.3	3.3
2 Estate crops	1.9	1.4	0.9	0.6	0.4	0.2
3 Livestock	1.9	1.8	1.7	1.5	1.2	1.0
4 Forestry	0.6	0.5	0.3	0.3	0.2	0.1
5 Fishery	1.2	1.2	1.3	1.3	1.1	1.2
6 Oil & Gas	1.7	1.3	0.9	0.7	0.5	0.4
7 Non Oil Gas	0.7	0.7	0.7	0.7	0.6	0.5
8 Food	11.7	10.6	11.6	11.0	10.3	10.9
9 Textile	3.5	3.0	2.3	2.0	2.0	2.7
10 Wood	0.4	0.3	0.3	0.3	0.2	0.1
11 Paper	1.3	1.7	2.3	3.0	3.9	4.7
12 Chemical	3.7	4.7	5.8	6.9	6.6	7.2
13 Non Metallic	0.7	0.6	0.4	0.4	0.3	0.3
14 Iron & steel	0.9	1.2	1.5	2.0	2.7	3.2
15 Non Ferrous metal	0.1	0.1	0.2	0.2	0.3	0.6
16 Fabricated Metal	0.8	0.9	1.1	1.3	1.4	0.8
17 Machinery	2.6	4.4	5.9	7.5	9.8	11.4
18 Transport Equip	1.3	1.9	2.4	2.8	3.7	4.6
19 Other manufacturing	0.2	0.3	0.3	0.3	0.2	0.2
20 Elec Gas Water	1.5	1.6	1.7	1.8	2.0	2.4
21 Construction	6.9	8.2	7.4	7.7	6.7	0.4
22 Trade	13.4	12.8	12.2	11.9	11.8	11.4
23 Restaurant/Hotel	5.0	5.4	5.6	5.8	6.2	7.8
24 Transportation	8.0	8.1	8.2	7.9	8.0	8.5
25 Finance	11.8	12.1	12.2	12.3	12.6	13.1
27 Other Service	2.2	3.7	4.5	3.6	3.1	3.0
Total	100.0	100.0	100.0	100.0	100.0	100.0

8-2) Outside Java (unit: %)

Sector	0	1	2	3	4	5
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	(R-X)
1 Farm food	9.6	8.6	7.1	5.5	3.4	2.1
2 Estate crops	4.5	3.9	3.1	2.5	1.9	1.3
3 Livestock	2.2	2.2	2.0	1.7	1.2	0.9
4 Forestry	4.1	3.0	2.1	1.5	1.1	0.8
5 Fishery	3.5	3.9	4.1	4.4	4.0	3.5
6 Oil & Gas	16.1	12.2	8.8	6.4	4.8	4.3
7 Non Oil Gas	5.8	6.5	7.2	7.9	8.4	8.6
8 Food	3.6	3.6	3.5	3.0	2.4	2.0
9 Textile	0.3	0.4	0.4	0.4	0.5	0.6
10 Wood	3.7	3.2	3.0	3.0	3.1	3.5
11 Paper	0.2	0.3	0.4	0.5	0.7	0.8
12 Chemical	9.4	12.2	15.4	18.7	20.6	14.1
13 Non Metallic	0.5	0.5	0.5	0.5	0.5	0.5
14 Iron & steel	0.1	0.1	0.2	0.2	0.4	0.7
15 Non Ferrous metal	0.4	0.7	1.0	1.5	2.1	2.9
16 Fabricated Metal	0.3	0.4	0.5	0.7	0.9	1.2
17 Machinery	0.1	1.2	2.2	2.8	3.8	5.9
18 Transport Equip	0.1	0.3	0.5	0.5	0.6	0.9
19 Other manufacturing	0.1	0.1	0.2	0.2	0.3	0.4
20 Elec Gas Water	0.5	0.5	0.6	0.6	0.7	0.7
21 Construction	8.0	7.5	9.0	9.2	11.4	17.4
22 Trade	11.1	11.9	12.1	12.1	12.1	12.7
23 Restaurant/Hotel	1.3	1.4	1.3	1.4	1.3	1.2
24 Transportation	6.9	7.5	7.8	8.1	7.8	7.6
25 Finance	5.3	5.5	5.4	5.5	5.2	4.6
27 Other Service	2.5	2.1	1.6	1.2	1.0	0.8
Total	100.0	100.0	100.0	100.0	100.0	100.0

8-3) Java + Outside Java (unit: %)

Sector	0	1	2	3	4	5
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	(R-X)
1 Farm food	10.5	9.2	7.7	6.0	3.9	2.7
2 Estate crops	2.9	2.4	1.9	1.4	1.1	0.8
3 Livestock	2.0	2.0	1.9	1.6	1.2	0.9
4 Forestry	2.0	1.5	1.1	0.8	0.6	0.5
5 Fishery	2.1	2.3	2.4	2.6	2.4	2.5
6 Oil & Gas	7.6	5.7	4.2	3.1	2.5	2.5
7 Non Oil Gas	2.7	3.0	3.4	3.7	4.2	5.0
8 Food	8.4	7.8	8.2	7.7	6.7	6.0
9 Textile	2.2	2.0	1.5	1.3	1.3	1.6
10 Wood	1.7	1.5	1.4	1.4	1.6	1.9
11 Paper	0.9	1.1	1.5	1.9	2.4	2.6
12 Chemical	6.0	7.7	9.8	11.8	13.0	11.0
13 Non Metallic	0.6	0.6	0.5	0.4	0.4	0.4
14 Iron & steel	0.6	0.8	1.0	1.3	1.7	1.8
15 Non Ferrous metal	0.2	0.3	0.5	0.7	1.1	1.9
16 Fabricated Metal	0.6	0.7	0.9	1.0	1.1	1.1
17 Machinery	1.6	3.1	4.4	5.6	7.1	8.4
18 Transport Equip	0.8	1.2	1.6	1.9	2.3	2.6
19 Other manufacturing	0.1	0.2	0.3	0.2	0.2	0.3
20 Elec Gas Water	1.1	1.2	1.2	1.3	1.4	1.4
21 Construction	7.4	7.9	8.1	8.3	8.8	9.7
22 Trade	12.5	12.5	12.2	12.0	11.9	12.1
23 Restaurant/Hotel	3.5	3.7	3.8	4.0	4.0	4.2
24 Transportation	7.6	7.9	8.0	8.0	7.9	8.0
25 Finance	9.2	9.4	9.4	9.5	9.2	8.5
27 Other Service	5.3	4.3	3.3	2.6	2.1	1.8
Total	100.0	100.0	100.0	100.0	100.0	100.0

9) Annual Growth Rate of GDP by 8 Sectors

9-1) Java (unit: %)

Sector	0-1	1-2	2-3	3-4	4-5	0-5
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
Agriculture(1-5)	6.0	6.2	4.1	0.2	-0.2	3.2
Mining(6-7)	3.1	4.8	4.7	3.3	0.1	3.6
Manufacturing(8-19)	11.2	12.2	11.0	9.2	6.5	10.0
Light Industry(8-10,19)	6.9	9.5	7.3	6.0	5.8	7.1
Resource-based Industry(11-15)	14.1	13.8	13.1	9.3	7.0	11.4
Machinery(16-18)	19.1	15.3	13.6	12.5	6.7	13.4
Electricity Gas & Water(20)	10.8	10.6	10.4	9.3	7.8	9.8
Construction(21)	13.1	7.0	9.7	4.0	-40.8	-4.0
Services(22-27)	8.5	8.4	8.3	7.1	5.1	7.5
Total	9.2	9.2	8.8	7.1	4.0	7.6

9-2) Outside Java (unit: %)

Sector	0-1	1-2	2-3	3-4	4-5	0-5
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
Agriculture(1-5)	6.8	6.7	5.7	4.1	5.7	5.8
Mining(6-7)	5.6	6.8	6.8	8.8	11.4	7.9
Manufacturing(8-19)	13.7	14.6	12.2	13.1	10.6	12.8
Light Industry(8-10,19)	8.0	9.9	7.8	9.2	12.5	9.5
Resource-based Industry(11-15)	15.1	15.7	13.6	13.4	6.8	12.9
Machinery(16-18)	43.9	21.6	13.8	12.1	21.8	23.2
Electricity Gas & Water(20)	11.1	11.2	11.1	12.1	12.2	11.5
Construction(21)	7.4	14.4	9.7	15.4	21.9	13.6
Services(22-27)	10.0	10.2	9.2	9.9	11.5	10.2
Total	9.9	10.3	9.2	10.6	12.0	10.2

9-3) Java + Outside Java (unit: %)

Sector	0-1	1-2	2-3	3-4	4-5	0-5
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
Agriculture(1-5)	6.4	6.5	4.9	2.3	3.3	4.7
Mining(6-7)	5.5	6.5	6.6	8.3	10.5	7.5
Manufacturing(8-19)	12.0	13.1	11.4	10.7	8.3	11.1
Light Industry(8-10,19)	7.2	9.6	7.5	6.9	8.0	7.8
Resource-based Industry(11-15)	14.6	14.8	13.4	11.6	6.9	12.2
Machinery(16-18)	21.5	16.4	13.7	13.4	10.9	15.1
Electricity Gas & Water(20)	10.8	10.7	10.6	9.8	8.8	10.1
Construction(21)	10.7	10.0	9.7	9.8	10.1	10.1
Services(22-27)	9.0	9.0	8.6	8.1	7.6	8.4
Total	9.1	9.6	9.0	8.6	8.0	8.9

10) Share of GDP by 8 Sectors

10-1) Java (unit: %)

Sector	0	1	2	3	4	5
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	(R-X)
Agriculture(1-5)	16.7	14.4	12.5	10.0	7.2	5.9
Mining(6-7)	2.4	2.0	1.6	1.3	1.1	0.9
Manufacturing(8-19)	27.1	29.7	34.1	37.5	41.4	46.6
Light Industry(8-10,19)	15.8	14.2	14.4	13.5	12.8	13.9
Resource-based Industry(11-15)	6.7	8.3	10.3	12.4	13.8	15.9
Machinery(16-18)	4.6	7.1	9.4	11.6	14.9	16.9
Electricity Gas & Water(20)	1.5	1.6	1.7	1.8	2.0	2.4
Construction(21)	6.9	8.2	7.4	7.7	6.7	0.4
Services(22-27)	45.5	44.1	42.7	41.6	41.6	43.8
Total	100.0	100.0	100.0	100.0	100.0	100.0

10-2) Outside Java (unit: %)

Sector	0	1	2	3	4	5
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	(R-X)
Agriculture(1-5)	23.9	21.7	18.4	15.6	11.5	8.6
Mining(6-7)	21.9	18.8	16.0	14.3	13.2	12.9
Manufacturing(8-19)	18.6	23.1	27.9	32.0	35.8	33.6
Light Industry(8-10,19)	7.6	7.3	7.1	6.7	6.3	6.5
Resource-based Industry(11-15)	10.5	13.9	17.6	21.4	24.2	19.1
Machinery(16-18)	0.5	2.0	3.2	4.0	5.3	8.0
Electricity Gas & Water(20)	0.5	0.5	0.6	0.6	0.7	0.7
Construction(21)	8.0	7.5	9.0	9.2	11.4	17.4
Services(22-27)	27.0	28.4	28.2	28.3	27.4	26.9
Total	100.0	100.0	100.0	100.0	100.0	100.0

10-3) Java + Outside Java (unit: %)

Sector	0	1	2	3	4	5
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	(R-X)
Agriculture(1-5)	19.6	17.3	14.9	12.4	9.2	7.4
Mining(6-7)	10.3	8.7	7.5	6.7	6.6	7.5
Manufacturing(8-19)	23.7	27.1	31.5	35.2	38.8	39.5
Light Industry(8-10,19)	12.5	11.4	11.4	10.6	9.8	9.8
Resource-based Industry(11-15)	8.2	10.6	13.3	16.2	18.6	17.6
Machinery(16-18)	2.9	5.1	6.8	8.4	10.5	12.0
Electricity Gas & Water(20)	1.1	1.2	1.2	1.3	1.4	1.4
Construction(21)	7.4	7.9	8.1	8.3	8.8	9.7
Services(22-27)	38.0	37.8	36.7	36.0	35.1	34.5
Total	100.0	100.0	100.0	100.0	100.0	100.0

1. Optimum Solution

(Case 0-1)

1) Annual Growth Rate of Output by 26 Sectors

1-1) Java

Sector	(unit. %)					Average
	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	
1 Farm food	7.7	8.6	6.9	2.1	1.6	5.3
2 Estate crops	1.8	6.1	0.7	0.2	-1.5	1.5
3 Livestock	8.9	9.8	7.5	4.2	3.3	6.7
4 Forestry	6.1	5.1	6.5	5.4	4.9	5.6
5 Fishery	11.4	11.6	10.9	7.0	7.4	9.6
6 Oil & Gas	2.9	2.4	2.2	0.8	3.0	2.3
7 Non Oil Gas	9.6	19.0	9.8	8.3	7.1	9.0
8 Food	5.6	8.6	5.3	5.1	3.9	5.7
9 Textile	2.6	3.7	3.9	6.1	7.7	4.6
10 Wood	6.1	4.1	6.7	6.2	5.8	5.8
11 Paper	13.1	13.8	12.7	11.5	11.3	12.4
12 Chemical	12.6	12.0	10.6	4.6	8.3	9.6
13 Non Metallic	2.1	4.0	4.4	3.7	4.1	3.7
14 Iron & steel	13.2	13.5	14.0	13.6	13.9	13.6
15 Non Ferrous metal	17.8	15.0	7.9	10.4	11.7	12.7
16 Fabricated Metal	11.6	12.6	11.1	10.9	11.0	11.4
17 Machinery	18.5	14.3	12.8	11.4	10.9	13.5
18 Transport Equip	14.8	12.8	11.0	7.8	10.3	11.3
19 Oth manufacturing	15.1	14.5	2.4	5.1	7.6	8.8
20 Elec Gas Water	19.8	11.0	19.8	9.9	10.1	10.5
21 Construction	9.0	10.0	11.3	9.9	9.5	9.9
22 Trade	8.2	8.8	9.0	8.4	8.3	8.5
23 Restaurant/Hotel	10.8	10.2	9.7	9.3	8.7	9.7
24 Transportation	10.1	10.2	9.7	8.1	8.3	9.3
25 Finance	9.8	10.0	9.5	8.4	8.4	9.2
27 Oth. Service	4.4	4.4	4.2	4.0	4.1	4.2
Total	8.8	9.7	9.1	8.0	8.4	8.8

1-2) Outside Java

Sector	(unit. %)					Average
	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	
1 Farm food	8.8	8.0	6.5	1.7	7.0	5.4
2 Estate crops	5.9	7.3	6.4	5.6	1.6	5.4
3 Livestock	10.0	8.9	7.5	3.1	2.8	6.4
4 Forestry	2.1	3.5	4.6	4.0	3.9	3.6
5 Fishery	13.0	12.8	13.1	9.8	10.3	11.8
6 Oil & Gas	2.7	1.3	2.1	1.9	2.6	2.1
7 Non Oil Gas	11.0	11.6	11.6	11.4	11.3	11.4
8 Food	8.4	6.9	5.9	2.7	4.0	5.5
9 Textile	11.0	10.9	8.0	9.1	10.4	9.9
10 Wood	2.9	5.6	7.4	7.3	7.1	6.0
11 Paper	15.6	14.0	13.7	13.8	13.8	14.2
12 Chemical	12.4	13.0	11.5	9.0	1.8	9.5
13 Non Metallic	7.1	4.6	5.2	6.1	5.7	5.7
14 Iron & steel	16.7	13.9	13.3	14.0	14.4	14.4
15 Non Ferrous metal	19.1	16.3	14.8	14.4	14.1	15.7
16 Fabricated Metal	13.3	12.5	12.4	12.1	11.9	12.4
17 Machinery	69.6	17.9	13.8	11.6	11.2	22.9
18 Transport Equip	31.2	15.6	11.4	11.7	13.2	16.9
19 Oth manufacturing	18.6	16.6	10.8	11.1	13.0	14.0
20 Elec Gas Water	10.8	10.7	11.1	11.2	10.4	10.9
21 Construction	10.9	9.4	8.9	9.3	9.7	9.6
22 Trade	9.7	9.3	8.9	8.7	8.2	9.0
23 Restaurant/Hotel	9.8	9.9	9.7	9.6	9.5	9.7
24 Transportation	10.0	10.2	8.6	8.9	8.2	9.2
25 Finance	9.8	9.3	9.3	9.0	8.7	9.2
27 Oth. Service	3.8	4.1	4.5	4.8	4.8	4.4
Total	9.3	9.4	9.1	8.2	7.0	8.6

1-3) Java + Outside Java

Sector	(unit. %)					Average
	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	
1 Farm food	8.1	8.3	6.7	1.9	1.8	5.3
2 Estate crops	4.5	6.9	4.7	4.3	1.0	4.3
3 Livestock	9.4	9.4	7.5	3.7	3.1	6.6
4 Forestry	7.8	3.8	5.0	4.3	4.2	4.0
5 Fishery	12.5	12.4	12.5	9.0	9.6	11.2
6 Oil & Gas	2.7	1.5	2.1	1.7	2.6	2.1
7 Non Oil Gas	10.8	11.3	11.3	11.0	10.8	11.1
8 Food	6.3	8.2	5.4	4.6	3.9	5.7
9 Textile	3.0	3.3	4.3	6.5	8.1	5.0
10 Wood	3.3	5.4	7.3	7.2	6.9	6.0
11 Paper	13.3	13.8	12.8	11.7	11.6	12.6
12 Chemical	12.5	12.6	11.1	7.5	4.0	9.5
13 Non Metallic	4.1	4.3	4.8	4.8	4.9	4.6
14 Iron & steel	13.4	13.5	14.0	13.6	13.9	13.7
15 Non Ferrous metal	19.7	16.2	12.9	13.4	13.6	14.9
16 Fabricated Metal	11.8	12.6	11.3	11.1	11.1	11.6
17 Machinery	21.2	14.8	12.8	11.4	11.0	14.2
18 Transport Equip	16.1	13.0	11.0	8.3	10.7	11.8
19 Oth manufacturing	15.9	15.0	4.8	7.3	9.9	10.5
20 Elec Gas Water	10.8	10.9	10.8	10.2	10.2	10.6
21 Construction	9.6	9.8	10.5	9.7	9.6	9.9
22 Trade	8.8	9.0	9.0	8.5	8.3	8.7
23 Restaurant/Hotel	10.6	10.2	9.7	9.3	8.8	9.7
24 Transportation	10.1	10.2	9.3	8.4	8.3	9.2
25 Finance	9.8	9.8	9.5	8.5	8.5	9.2
27 Oth. Service	4.3	4.3	4.2	4.1	4.3	4.2
Total	9.0	9.6	9.1	8.1	7.9	8.7

2) Annual Growth Rate of GDP by 26 Sectors

2-1) Java

Sector	(unit. %)					Average
	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	
1 Farm food	6.1	5.9	4.3	-0.4	-0.8	3.0
2 Estate crops	0.7	4.1	-1.2	-1.6	-3.3	-0.3
3 Livestock	8.2	8.5	6.2	3.0	2.1	5.5
4 Forestry	4.9	3.1	4.5	3.4	3.0	3.8
5 Fishery	10.3	9.8	9.0	5.2	5.6	7.9
6 Oil & Gas	2.9	2.4	2.2	0.8	3.0	2.3
7 Non Oil Gas	9.6	10.0	9.8	8.3	7.1	9.0
8 Food	7.7	10.7	7.3	7.1	5.9	7.7
9 Textile	4.6	4.7	5.9	8.2	9.8	6.6
10 Wood	8.2	6.1	8.7	8.2	7.8	7.8
11 Paper	15.2	16.0	14.9	13.6	13.4	14.6
12 Chemical	14.8	14.1	12.7	6.6	10.4	11.7
13 Non Metallic	4.0	6.0	6.4	5.7	6.1	5.7
14 Iron & steel	15.4	15.7	16.2	15.8	16.0	15.8
15 Non Ferrous metal	20.1	18.2	10.0	12.5	13.9	14.9
16 Fabricated Metal	13.7	14.7	13.3	13.1	13.1	13.6
17 Machinery	20.8	16.5	14.9	13.5	13.1	15.7
18 Transport Equip	17.0	14.9	13.1	9.9	12.4	13.4
19 Oth manufacturing	17.3	16.7	4.3	7.1	9.7	10.9
20 Elec Gas Water	10.8	11.0	10.8	9.9	10.1	10.5
21 Construction	13.3	10.0	11.3	9.9	9.5	10.8
22 Trade	8.2	8.8	9.0	8.4	8.3	8.5
23 Restaurant/Hotel	10.8	10.2	9.7	9.3	8.7	9.7
24 Transportation	10.1	10.2	9.7	8.1	8.3	9.3
25 Finance	9.8	10.0	9.5	8.4	8.4	9.2
27 Oth. Service	4.4	4.4	4.2	4.0	4.1	4.2
Total	9.3	9.8	9.4	8.4	9.0	9.2

2-2) Outside Java

Sector	(unit. %)					Average
	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	
1 Farm food	7.2	5.4	3.9	-0.8	-0.5	3.0
2 Estate crops	4.7	5.3	4.4	3.6	-0.3	3.5
3 Livestock	9.2	7.6	6.3	1.9	1.5	5.3
4 Forestry	0.9	1.6	2.6	2.1	2.0	1.8
5 Fishery	11.8	10.9	11.2	8.0	8.5	10.1
6 Oil & Gas	2.7	1.3	2.1	1.9	2.6	2.1
7 Non Oil Gas	11.0	11.6	11.6	11.4	11.3	11.4
8 Food	10.4	8.9	8.0	4.7	6.0	7.6
9 Textile	13.1	13.1	10.1	11.2	12.6	12.0
10 Wood	4.8	7.6	9.5	9.4	9.1	8.1
11 Paper	17.8	16.2	15.9	16.0	16.0	16.4
12 Chemical	14.6	15.2	13.6	11.1	3.7	11.6
13 Non Metallic	9.2	6.6	7.3	8.1	7.8	7.8
14 Iron & steel	18.9	16.1	15.4	16.2	16.6	16.6
15 Non Ferrous metal	21.4	18.5	17.1	16.6	16.2	17.9
16 Fabricated Metal	15.5	14.7	14.6	14.2	14.0	14.6
17 Machinery	72.8	20.2	15.0	13.8	13.4	25.2
18 Transport Equip	36.8	17.8	13.6	13.8	15.4	19.2
19 Oth manufacturing	20.8	18.8	13.0	13.3	15.2	16.2
20 Elec Gas Water	10.8	10.7	11.1	11.2	10.4	10.9
21 Construction	4.5	9.4	8.9	9.3	9.7	8.3
22 Trade	9.7	9.3	8.9	8.7	8.2	9.0
23 Restaurant/Hotel	9.8	9.9	9.7	9.6	9.5	9.7
24 Transportation	10.0	10.2	8.6	8.9	8.2	9.2
25 Finance	9.8	9.3	9.3	9.0	8.7	9.2
27 Oth. Service	3.8	4.1	4.5	4.8	4.8	4.4
Total	8.3	9.0	9.2	8.6	7.5	8.5

2-3) Java + Outside Java

Sector	(unit. %)					Average
	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	
1 Farm food	6.5	5.7	4.1	-0.5	-0.7	3.0
2 Estate crops	3.3	4.9	2.7	2.4	-0.9	2.4
3 Livestock	8.6	8.1	6.2	2.5	1.8	5.4
4 Forestry	1.7	1.9	3.1	2.4	2.3	2.3
5 Fishery	11.3	10.6	10.6	7.2	7.8	9.5
6 Oil & Gas	2.7	1.5	2.1	1.7	2.6	2.1
7 Non Oil Gas	10.8	11.4	11.4	11.1	10.9	11.1
8 Food	8.2	10.4	7.4	6.7	5.9	7.7
9 Textile	5.1	5.4	6.4	8.6	10.2	7.1
10 Wood	5.3	7.4	9.4	9.2	9.0	8.0
11 Paper	15.5	16.0	15.0	13.8	13.7	14.8
12 Chemical	14.7	14.8	13.3	9.6	5.9	11.6
13 Non Metallic	5.8	6.3	6.8	6.7	6.8	6.5
14 Iron & steel	15.5	15.7	16.2	15.8	16.1	15.9
15 Non Ferrous metal	21.1	18.5	15.6	15.9	15.9	17.4
16 Fabricated Metal	14.1	14.7	13.6	13.3	13.4	13.8
17 Machinery	23.8	17.1	14.9	13.5	13.1	16.4
18 Transport Equip	18.4	15.2	13.2	10.4	12.9	14.0
19 Oth manufacturing	18.2	17.3	7.0	9.5	12.2	12.7
20 Elec Gas Water	10.8	10.9	10.8	10.2	10.2	10.6
21 Construction	9.8	9.8	10.5	9.7	9.6	9.9
22 Trade	8.8	9.0	9.0	8.5	8.3	8.7
23 Restaurant/Hotel	10.6	10.2	9.7	9.3	8.8	9.7
24 Transportation	10.1	10.2	9.3	8.4	8.3	9.2
25 Finance	9.8	9.8	9.5	8.5	8.5	9.2
27 Oth. Service	4.3	4.3	4.2	4.1	4.3	4.2
Total	8.9	9.5	9.3	8.5	8.4	8.9

(Case 9-1)

3) Annual Growth Rate of Consumption by 26 Sectors

3-1) Java (unit: %)						
Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	10.0	10.0	9.3	2.0	2.0	6.6
2 Estate crops	3.0	10.0	2.0	2.0	2.0	3.7
3 Livestock	10.0	10.0	8.6	2.0	2.0	6.4
4 Forestry	2.0	2.0	2.0	2.0	2.0	2.0
5 Fishery	10.0	10.0	10.0	2.0	2.0	6.7
6 Oil & Gas						
7 Non Oil Gas						
8 Food	2.0	10.0	4.7	6.2	3.3	5.2
9 Textile	10.0	10.0	10.0	10.0	10.0	10.0
10 Wood	2.0	2.0	2.0	2.0	10.0	3.6
11 Paper	10.0	10.0	10.0	10.0	10.0	10.0
12 Chemical	10.0	10.0	10.0	10.0	10.0	10.0
13 Non Metallic	2.0	10.0	10.0	10.0	10.0	8.3
14 Iron & steel						
15 Non Ferrous metal						
16 Fabricated Metal	10.0	10.0	10.0	10.0	10.0	10.0
17 Machinery	10.0	10.0	10.0	10.0	10.0	10.0
18 Transport Equip	10.0	10.0	10.0	10.0	10.0	10.0
19 Oth manufacturing	10.0	10.0	10.0	10.0	10.0	10.0
20 Elec Gas Water	10.0	10.0	10.0	10.0	10.0	10.0
21 Construction	2.0	2.0	2.0	2.0	2.0	2.0
22 Trade	10.0	10.0	10.0	10.0	10.0	10.0
23 Restaurant/Hotel	10.0	10.0	10.0	10.0	10.0	10.0
24 Transportation	10.0	10.0	10.0	10.0	10.0	10.0
25 Finance	10.0	10.0	10.0	10.0	10.0	10.0
27 Oth Service	2.0	2.0	2.0	2.0	2.0	2.0
Total	7.0	9.3	8.2	7.9	7.9	8.1

3-2) Outside Java (unit: %)						
Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	13.0	10.0	8.1	2.0	2.0	6.4
2 Estate crops	2.0	2.0	2.0	2.0	2.0	2.0
3 Livestock	10.0	10.0	8.8	2.0	2.0	6.5
4 Forestry	2.0	2.0	2.0	2.0	2.0	2.0
5 Fishery	10.0	10.0	10.0	3.5	2.0	7.0
6 Oil & Gas						
7 Non Oil Gas						
8 Food	9.8	6.7	6.0	2.0	3.4	5.5
9 Textile	10.0	10.0	10.0	10.0	10.0	10.0
10 Wood	2.0	2.0	2.0	2.0	10.0	3.5
11 Paper	10.0	10.0	10.0	10.0	10.0	10.0
12 Chemical	10.0	10.0	10.0	10.0	10.0	10.0
13 Non Metallic	10.0	10.0	10.0	10.0	10.0	10.0
14 Iron & steel						
15 Non Ferrous metal						
16 Fabricated Metal	10.0	10.0	10.0	10.0	10.0	10.0
17 Machinery	10.0	10.0	10.0	10.0	10.0	10.0
18 Transport Equip	10.0	10.0	10.0	10.0	10.0	10.0
19 Oth manufacturing	10.0	10.0	10.0	10.0	10.0	10.0
20 Elec Gas Water	10.0	10.0	10.0	10.0	10.0	10.0
21 Construction	2.0	2.0	2.0	2.0	2.0	2.0
22 Trade	10.0	10.0	10.0	10.0	10.0	10.0
23 Restaurant/Hotel	10.0	10.0	10.0	10.0	10.0	10.0
24 Transportation	10.0	10.0	10.0	10.0	10.0	10.0
25 Finance	10.0	10.0	10.0	10.0	10.0	10.0
27 Oth Service	2.0	2.0	2.0	2.0	2.0	2.0
Total	9.1	8.4	8.2	6.5	7.4	7.9

3-3) Java + Outside Java (unit: %)						
Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	10.0	10.0	8.8	2.0	2.0	6.5
2 Estate crops	2.6	7.4	2.0	2.0	2.0	3.2
3 Livestock	10.0	10.0	8.6	2.0	2.0	6.5
4 Forestry	2.0	2.0	2.0	2.0	2.0	2.0
5 Fishery	10.0	10.0	10.0	2.8	2.0	6.9
6 Oil & Gas						
7 Non Oil Gas						
8 Food	5.2	8.5	5.2	4.4	3.4	5.3
9 Textile	10.0	10.0	10.0	10.0	10.0	10.0
10 Wood	2.0	2.0	2.0	2.0	10.0	3.6
11 Paper	10.0	10.0	10.0	10.0	10.0	10.0
12 Chemical	10.0	10.0	10.0	10.0	10.0	10.0
13 Non Metallic	5.2	10.0	10.0	10.0	10.0	9.0
14 Iron & steel						
15 Non Ferrous metal						
16 Fabricated Metal	10.0	10.0	10.0	10.0	10.0	10.0
17 Machinery	10.0	10.0	10.0	10.0	10.0	10.0
18 Transport Equip	10.0	10.0	10.0	10.0	10.0	10.0
19 Oth manufacturing	10.0	10.0	10.0	10.0	10.0	10.0
20 Elec Gas Water	10.0	10.0	10.0	10.0	10.0	10.0
21 Construction	2.0	2.0	2.0	2.0	2.0	2.0
22 Trade	10.0	10.0	10.0	10.0	10.0	10.0
23 Restaurant/Hotel	10.0	10.0	10.0	10.0	10.0	10.0
24 Transportation	10.0	10.0	10.0	10.0	10.0	10.0
25 Finance	10.0	10.0	10.0	10.0	10.0	10.0
27 Oth Service	2.0	2.0	2.0	2.0	2.0	2.0
Total	7.7	8.9	8.2	7.4	7.7	8.0

4) Annual Growth Rate of Investment

4) Annual Growth Rate of Investment (unit: %)						
	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
Java	7.5	10.2	11.6	10.1	9.7	9.8
Outside Java	9.5	9.6	9.0	9.4	9.8	9.5
Total (Java + Outside Java)	8.2	10.0	10.7	9.9	9.7	9.7

5) Annual Growth Rate of Capital stock

5) Annual Growth Rate of Capital stock (unit: %)						
	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
Java	9.8	10.0	10.6	10.4	10.1	10.2
Outside Java	8.2	8.7	8.8	9.0	9.3	8.8
Total (Java + Outside Java)	9.1	9.5	10.0	9.9	9.8	9.7

6) Annual Growth Rate of Export by 26 Sectors

Sector	(unit %)					Average
	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	
1 Farm food	8.5	8.4	8.4	-4.4	-4.4	3.1
2 Estate crops	8.5	8.4	-4.4	-4.4	-4.4	0.6
3 Livestock	8.6	8.4	8.4	-4.4	-4.4	3.2
4 Forestry	8.5	-4.4	-4.4	-4.4	-4.4	-1.9
5 Fishery	8.5	8.4	8.4	8.4	-4.4	5.8
6 Oil & Gas	1.9	1.9	1.9	1.9	1.9	1.9
7 Non Oil Gas	14.9	14.9	14.9	14.9	14.9	14.9
8 Food	1.9	1.9	-4.4	-4.4	-4.4	-1.9
9 Textile	1.4	-2.6	-4.4	-4.4	-4.4	-2.9
10 Wood	-4.4	-4.4	-4.4	-4.4	-4.4	-4.4
11 Paper	14.9	14.9	14.9	14.9	14.9	14.9
12 Chemical	14.9	14.9	14.9	-4.4	14.9	10.7
13 Non Metallic	-4.4	-4.4	-4.4	-4.4	-4.4	-4.4
14 Iron & steel	14.9	14.9	14.9	14.9	14.9	14.9
15 Non Ferrous metal	14.9	14.9	-4.4	-4.4	-4.4	2.9
16 Fabricated Metal	14.9	14.9	-4.4	-4.4	-4.4	2.9
17 Machinery	14.9	14.9	14.9	14.9	14.9	14.9
18 Transport Equip	14.9	14.9	14.9	-4.4	14.9	10.7
19 Oth manufacturing	14.9	14.9	-4.4	-4.4	-4.4	2.9
20 Elec Gas Water						
21 Construction						
22 Trade	8.4	8.4	8.4	8.4	8.4	8.4
23 Restaurant/Hotel	8.4	8.4	8.4	5.9	-4.4	5.3
24 Transportation	8.4	8.4	8.4	-4.4	-4.4	3.1
25 Finance	8.4	8.4	8.4	8.4	8.4	8.4
27 Oth Service	8.5	8.4	-4.4	-4.4	-4.4	0.6
Total	7.3	8.2	8.3	4.6	10.1	7.7

6-2) Outside Java

Sector	(unit %)					Average
	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	
1 Farm food	8.5	8.4	8.4	-4.4	-4.4	3.1
2 Estate crops	8.4	8.4	-4.4	-4.4	-4.4	0.6
3 Livestock	8.4	8.4	8.4	-4.4	8.4	5.8
4 Forestry	-4.4	-4.4	-4.4	-4.4	-4.4	-4.4
5 Fishery	8.5	8.4	8.4	8.4	8.4	8.4
6 Oil & Gas	1.9	-0.8	1.9	1.9	1.9	1.4
7 Non Oil Gas	14.9	14.9	14.9	14.9	14.9	14.9
8 Food	1.9	1.9	1.9	-4.4	1.9	0.6
9 Textile	14.9	14.9	-4.4	-4.4	14.9	6.8
10 Wood	-1.1	-4.4	-4.4	-4.4	-4.4	-3.7
11 Paper	14.9	14.9	14.9	14.9	14.9	14.9
12 Chemical	14.9	14.9	14.9	12.7	1.8	11.7
13 Non Metallic	14.9	-4.4	-4.4	-4.4	-4.4	-0.8
14 Iron & steel	14.9	14.9	14.9	14.9	14.9	14.9
15 Non Ferrous metal	14.9	14.9	14.9	14.9	14.9	14.9
16 Fabricated Metal	14.9	14.9	14.9	14.9	14.9	14.9
17 Machinery	14.9	14.9	14.9	14.9	14.9	14.9
18 Transport Equip	14.9	14.9	14.9	14.9	14.9	14.9
19 Oth manufacturing	14.9	14.9	14.9	14.9	14.9	14.9
20 Elec Gas Water						
21 Construction						
22 Trade	8.4	8.4	8.4	8.4	8.4	8.4
23 Restaurant/Hotel	8.4	8.4	8.4	8.4	8.4	8.4
24 Transportation	8.4	8.4	-4.4	-4.4	-4.4	0.6
25 Finance	8.4	8.4	8.4	8.4	8.4	8.4
27 Oth Service	-4.4	-4.4	-4.4	-4.4	-4.4	-4.4
Total	7.9	9.1	10.6	10.9	6.6	9.0

6-3) Java + Outside Java

Sector	(unit %)					Average
	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	
1 Farm food	8.3	8.4	8.4	-4.4	-4.4	3.1
2 Estate crops	8.4	8.4	-4.4	-4.4	-4.4	0.6
3 Livestock	8.5	8.4	8.4	-4.4	5.0	5.1
4 Forestry	4.2	-4.4	-4.4	-4.4	-4.4	-2.7
5 Fishery	8.5	8.4	8.4	8.4	1.9	7.1
6 Oil & Gas	1.9	-0.5	1.9	1.9	1.9	1.4
7 Non Oil Gas	14.9	14.9	14.9	14.9	14.9	14.9
8 Food	1.9	1.9	-0.4	-4.4	0.1	-0.2
9 Textile	1.5	-2.2	-4.4	-4.4	-3.4	-2.6
10 Wood	-1.7	-4.4	-4.4	-4.4	-4.4	-3.8
11 Paper	14.9	14.9	14.9	14.9	14.9	14.9
12 Chemical	14.9	14.9	14.9	9.5	3.8	11.5
13 Non Metallic	2.1	-4.4	-4.4	-4.4	-4.4	-3.1
14 Iron & steel	14.9	14.9	14.9	14.9	14.9	14.9
15 Non Ferrous metal	14.9	14.9	9.8	12.4	13.8	13.1
16 Fabricated Metal	14.9	14.9	-1.6	1.2	5.3	6.7
17 Machinery	14.9	14.9	14.9	14.9	14.9	14.9
18 Transport Equip	14.9	14.9	14.9	1.4	14.9	12.0
19 Oth manufacturing	14.9	14.9	-2.7	-0.7	2.7	5.5
20 Elec Gas Water						
21 Construction						
22 Trade	8.4	8.4	8.4	8.4	8.4	8.4
23 Restaurant/Hotel	8.4	8.4	8.4	6.9	1.6	6.7
24 Transportation	8.4	8.4	3.9	-4.4	-4.4	2.1
25 Finance	8.4	8.4	8.4	8.4	8.4	8.4
27 Oth Service	4.2	5.8	-4.4	-4.4	-4.4	-0.7
Total	7.6	8.6	9.6	8.4	7.9	8.4

7) Annual Growth Rate of Import by 26 Sectors

Sector	(unit %)					Average
	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	
1 Farm food	0.5	3.2	1.3	5.0	5.5	3.1
2 Estate crops	5.6	9.5	10.2	11.9	13.0	10.0
3 Livestock	3.4	6.4	7.9	7.9	7.5	6.6
4 Forestry	5.9	6.6	7.9	7.1	7.2	6.9
5 Fishery	1.8	7.7	9.0	12.2	12.2	8.7
6 Oil & Gas	3.1	0.3	-1.7	-3.1	-10.2	-3.4
7 Non Oil Gas	9.2	9.7	9.5	7.6	6.0	8.4
8 Food	-1.4	8.2	7.7	7.7	7.7	5.9
9 Textile	4.4	4.8	5.6	6.7	7.3	5.7
10 Wood	10.9	10.9	10.9	8.3	6.8	9.6
11 Paper	11.7	13.2	12.3	10.8	10.5	11.7
12 Chemical	5.1	7.3	6.1	2.4	1.6	4.4
13 Non Metallic	3.5	2.4	4.0	2.5	2.5	3.0
14 Iron & steel	12.7	13.3	14.0	13.4	13.7	13.4
15 Non Ferrous metal	12.8	14.2	11.8	12.8	13.5	13.0
16 Fabricated Metal	10.7	12.1	13.2	11.8	11.4	11.8
17 Machinery	5.9	7.9	8.7	7.7	7.3	7.5
18 Transport Equip	3.7	5.8	9.0	7.1	8.5	6.8
19 Oth manufacturing	8.6	8.6	8.3	7.9	8.2	8.3
20 Elec Gas Water	10.8	11.3	11.0	9.9	10.2	10.6
21 Construction						
22 Trade						
23 Restaurant/Hotel	-1.2	1.0	12.5	12.0	12.6	7.2
24 Transportation	3.5	6.1	10.5	9.5	9.8	7.9
25 Finance	5.9	7.9	8.2	8.0	8.1	7.6
27 Oth Service	2.1	3.0	3.3	3.0	3.4	3.0
Total	5.5	7.8	8.7	8.0	8.5	7.7

7-2) Outside Java

Sector	(unit %)					Average
	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	
1 Farm food	1.9	2.1	7.1	6.7	9.4	5.4
2 Estate crops	8.6	9.7	10.1	9.8	8.2	9.3
3 Livestock	5.3	6.0	7.9	5.5	6.1	6.1
4 Forestry	1.2	3.6	5.1	5.7	7.1	4.5
5 Fishery	7.4	8.9	12.5	12.1	12.6	10.7
6 Oil & Gas	2.8	3.4	3.6	-2.9	-6.4	0.0
7 Non Oil Gas	11.1	9.7	9.2	8.8	7.5	9.2
8 Food	-2.0	-0.5	8.4	7.3	-1.2	7.3
9 Textile	5.5	7.6	9.3	9.8	9.0	8.2
10 Wood	11.7	10.8	10.1	9.2	8.4	10.0
11 Paper	3.6	8.7	15.0	13.6	14.9	11.1
12 Chemical	10.5	11.5	8.5	4.2	-3.1	6.2
13 Non Metallic	5.6	5.1	5.4	6.1	4.3	5.3
14 Iron & steel	16.3	13.3	12.9	14.0	14.5	14.2
15 Non Ferrous metal	7.9	17.1	14.9	14.1	13.6	16.7
16 Fabricated Metal	10.7	10.7	11.1	11.8	11.8	11.2
17 Machinery	-1.0	1.8	5.3	8.2	9.0	4.6
18 Transport Equip	0.7	3.3	9.8	9.9	6.8	6.0
19 Oth manufacturing	0.6	4.0	11.9	12.2	10.1	7.7
20 Elec Gas Water	10.8	11.5	12.3	12.7	10.9	11.6
21 Construction						
22 Trade						
23 Restaurant/Hotel	-2.1	-0.4	2.4	5.4	6.1	2.2
24 Transportation	11.8	13.1	12.9	12.9	12.5	12.9
25 Finance	0.8	11.7	12.4	12.9	12.8	10.9
27 Oth Service	1.8	2.6	3.4	4.3	4.1	3.2
Total	4.7	7.7	8.8	8.4	7.4	7.4

7-3) Java + Outside Java

Sector	(unit %)					Average
	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	
1 Farm food	0.7	3.1	2.1	5.3	6.2	3.4
2 Estate crops	6.1	9.5	10.2	11.5	12.3	9.9
3 Livestock	3.6	6.4	7.9	7.6	7.4	6.6
4 Forestry	3.1	4.9	6.5	6.4	7.2	5.6
5 Fishery	3.3	7.8	9.5	12.2	12.3	9.0
6 Oil & Gas	2.9	2.5	2.2	-4.0	-7.0	-0.8
7 Non Oil Gas	9.5	9.7	9.4	7.8	6.2	8.5
8 Food	-1.5	7.5	7.7	7.6	7.2	5.6
9 Textile	4.4	4.8	5.7	6.8	7.4	5.8
10 Wood	11.0	10.9	10.8	8.4	7.0	9.6
11 Paper	11.1	12.9	12.4	11.0	10.8	11.4
12 Chemical	6.5	8.5	6.9	3.0	-0.1	4.9
13 Non Metallic	3.7	2.7	4.1	2.9	2.8	3.2
14 Iron & steel	13.2	13.3	13.9	13.5	13.8	13.5
15 Non Ferrous metal	13.4	14.4	12.1	12.9	13.5	13.3
16 Fabricated Metal	10.7	11.7	12.6	11.8	11.5	11.6
17 Machinery	4.6	7.0	8.3	7.8	7.5	7.0
18 Transport Equip	3.3	5.5	9.1	7.5	8.2	6.7
19 Oth manufacturing	6.6	7.7	8.9	8.9	8.6	8.2
20 Elec Gas Water	10.8	11.3	11.1	10.2	10.3	10.7
21 Construction						
22 Trade						
23 Restaurant/Hotel	-1.4	0.7	11.0	11.3	12.1	6.6
24 Transportation	5.6	8.2	11.4	10.8	10.9	9.3
25 Finance	5.0	8.5	9.1	9.1	9.4	8.2
27 Oth Service	2.1	2.9	3.3	3.2	3.5	3.0
Total	5.3	7.8	8.8	8.1	8.3	7.6

8) Share of GDP by 26 Sectors

8-1) Java (unit: %)						
Sector	0	1	2	3	4	5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	
1 Farm food	11.1	9.6	8.0	6.3	4.1	2.6
2 Estate crops	1.9	1.2	1.0	0.6	0.4	0.2
3 Livestock	1.9	1.8	1.7	1.5	1.1	0.8
4 Forestry	0.6	0.5	0.4	0.3	0.2	0.2
5 Fishery	1.2	1.2	1.2	1.2	1.0	0.9
6 Oil & Gas	1.7	1.3	0.9	0.6	0.4	0.3
7 Non Oil Gas	0.7	0.7	0.7	0.7	0.7	0.6
8 Food	11.7	10.9	11.3	10.3	9.7	8.4
9 Textile	3.5	2.8	2.2	1.9	1.9	2.0
10 Wood	0.4	0.3	0.3	0.3	0.3	0.3
11 Paper	1.3	1.7	2.3	2.9	3.6	4.4
12 Chemical	3.7	4.7	5.7	6.6	6.1	6.5
13 Non Metale	0.7	0.6	0.5	0.4	0.4	0.3
14 Iron & steel	0.9	1.2	1.5	2.1	2.9	3.9
15 Non Ferrous metal	0.1	0.1	0.2	0.2	0.2	0.3
16 Fabricated Metal	0.8	0.9	1.1	1.4	1.7	2.0
17 Machinery	2.6	4.2	5.7	7.3	9.2	11.1
18 Transport Equip	1.3	1.8	2.3	2.7	2.9	3.0
19 Oth manufacturing	0.2	0.2	0.3	0.3	0.3	0.3
20 Elec Gas, Water	1.5	1.6	1.7	1.8	1.9	2.0
21 Construction	6.9	8.3	8.3	9.1	9.7	10.0
22 Trade	13.4	12.8	12.2	12.0	12.0	11.6
23 Restaurant, Hotel	5.0	5.3	5.4	5.5	5.7	5.7
24 Transportation	8.0	8.3	8.5	8.6	8.5	8.2
25 Finance	11.8	12.1	12.2	12.2	12.3	11.9
27 Oth. Service	7.2	5.7	4.4	3.5	2.8	2.2
Total	100.0	100.0	100.0	100.0	100.0	100.0

8-2) Outside Java (unit: %)						
Sector	0	1	2	3	4	5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	
1 Farm food	9.6	9.1	7.7	6.0	3.8	2.6
2 Estate crops	4.5	3.8	3.2	2.6	2.0	1.4
3 Livestock	2.2	2.3	2.2	1.9	1.4	1.0
4 Forestry	4.1	2.9	2.9	1.5	1.1	0.9
5 Fishery	3.5	4.1	4.4	4.9	4.7	5.0
6 Oil & Gas	15.1	12.4	8.6	6.1	4.5	3.5
7 Non Oil Gas	5.8	6.5	7.3	8.2	9.3	11.1
8 Food	3.6	3.9	3.9	3.7	3.1	2.9
9 Textile	0.3	0.4	0.4	0.5	0.5	0.6
10 Wood	3.7	3.1	2.9	3.0	3.1	3.3
11 Paper	0.2	0.3	0.4	0.5	0.7	1.1
12 Chemical	9.4	12.4	16.3	20.0	22.4	18.8
13 Non Metale	0.5	0.5	0.5	0.4	0.4	0.4
14 Iron & steel	0.1	0.1	0.1	0.2	0.3	0.4
15 Non Ferrous metal	0.4	0.6	1.0	1.4	2.0	2.9
16 Fabricated Metal	0.3	0.4	0.5	0.7	0.8	1.1
17 Machinery	0.1	1.4	1.8	2.3	2.9	3.7
18 Transport Equip	0.1	0.3	0.5	0.6	0.7	1.1
19 Oth manufacturing	0.1	0.1	0.2	0.2	0.3	0.4
20 Elec Gas, Water	0.5	0.6	0.6	0.7	0.7	0.8
21 Construction	8.0	6.7	6.8	6.7	7.0	7.7
22 Trade	11.1	11.8	11.9	11.8	11.9	12.3
23 Restaurant, Hotel	1.3	1.4	1.4	1.5	1.6	1.7
24 Transportation	6.9	7.5	7.9	7.7	7.8	8.1
25 Finance	5.5	5.6	5.7	5.7	5.8	6.2
27 Oth. Service	2.5	2.0	1.6	1.3	1.1	0.9
Total	100.0	100.0	100.0	100.0	100.0	100.0

8-3) Java + Outside Java (unit: %)						
Sector	0	1	2	3	4	5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	
1 Farm food	10.5	9.4	7.9	6.2	4.0	2.6
2 Estate crops	2.9	2.3	1.8	1.3	1.0	0.6
3 Livestock	2.0	2.0	1.9	1.6	1.2	0.9
4 Forestry	2.0	1.5	1.0	0.6	0.6	0.4
5 Fishery	2.1	2.4	2.5	2.6	2.5	2.4
6 Oil & Gas	7.6	5.6	3.9	2.7	2.0	1.5
7 Non Oil Gas	2.7	3.0	3.1	3.6	4.0	4.5
8 Food	8.4	8.1	8.5	7.8	7.2	6.4
9 Textile	2.2	1.9	1.5	1.4	1.4	1.5
10 Wood	1.7	1.4	1.3	1.3	1.4	1.4
11 Paper	0.9	1.2	1.5	2.0	2.5	3.2
12 Chemical	6.0	7.7	9.8	11.7	12.3	11.0
13 Non Metale	0.6	0.6	0.5	0.4	0.4	0.4
14 Iron & steel	0.6	0.8	1.0	1.4	1.9	2.6
15 Non Ferrous metal	0.2	0.3	0.5	0.6	0.9	1.2
16 Fabricated Metal	0.6	0.7	0.9	1.1	1.4	1.7
17 Machinery	1.6	3.0	4.2	5.4	6.8	8.4
18 Transport Equip	0.8	1.2	1.6	1.9	2.1	2.5
19 Oth manufacturing	0.1	0.2	0.3	0.3	0.3	0.3
20 Elec Gas, Water	1.1	1.2	1.2	1.3	1.4	1.6
21 Construction	7.4	7.7	7.8	8.2	8.7	9.1
22 Trade	12.5	12.4	12.1	11.9	12.0	11.9
23 Restaurant, Hotel	3.5	3.8	3.9	4.0	4.1	4.2
24 Transportation	7.6	8.0	8.3	8.2	8.2	8.2
25 Finance	9.2	9.5	9.7	9.8	9.8	9.8
27 Oth. Service	5.3	4.3	3.3	2.6	2.1	1.8
Total	100.0	100.0	100.0	100.0	100.0	100.0

9) Annual Growth Rate of GDP by 8 Sectors

9-1) Java (unit: %)						
Sector	0-1	1-2	2-3	3-4	4-5	0-5
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
Agriculture(1-5)	6.1	6.4	4.7	0.9	0.8	3.7
Mining(6-7)	5.0	5.3	5.7	5.0	5.6	5.3
Manufacturing(8-19)	11.2	12.6	11.2	10.0	11.0	11.2
Light Industry(8-10,19)	7.2	9.7	7.0	7.3	6.7	7.6
Resource-based Industry(11-15)	14.0	14.3	13.5	10.1	12.5	12.9
Machinery(16-18)	18.7	15.9	14.3	12.6	13.0	14.9
Electricity, Gas & Water(20)	10.8	11.0	10.8	9.9	10.1	10.5
Construction(21)	13.3	10.0	11.3	9.9	9.5	10.8
Services(22-27)	8.7	9.1	8.9	8.1	8.1	8.6
Total	9.3	9.8	9.4	8.4	9.0	9.2

9-2) Outside Java (unit: %)						
Sector	0-1	1-2	2-3	3-4	4-5	0-5
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
Agriculture(1-5)	6.7	6.2	6.0	3.2	3.5	5.1
Mining(6-7)	5.2	5.3	6.9	7.7	8.8	6.8
Manufacturing(8-19)	13.3	13.5	12.6	11.0	7.7	11.5
Light Industry(8-10,19)	8.1	8.8	8.8	7.4	8.4	8.3
Resource-based Industry(11-15)	14.7	15.1	13.7	11.6	5.6	12.1
Machinery(16-18)	40.3	18.6	14.7	13.9	13.8	19.9
Electricity, Gas & Water(20)	10.8	10.7	11.1	11.2	10.4	10.9
Construction(21)	4.5	9.4	8.9	9.3	9.7	8.3
Services(22-27)	9.3	9.2	8.7	8.7	8.2	8.8
Total	8.3	9.0	9.2	8.6	7.5	8.5

9-3) Java + Outside Java (unit: %)						
Sector	0-1	1-2	2-3	3-4	4-5	0-5
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
Agriculture(1-5)	6.4	6.3	5.3	2.1	2.3	4.5
Mining(6-7)	5.1	5.3	6.7	7.4	8.4	6.6
Manufacturing(8-19)	11.9	12.9	11.7	10.4	9.6	11.3
Light Industry(8-10,19)	7.4	9.4	7.5	7.3	7.1	7.8
Resource-based Industry(11-15)	14.4	14.7	13.6	10.9	8.9	12.5
Machinery(16-18)	20.7	15.3	14.3	12.8	13.1	15.4
Electricity, Gas & Water(20)	10.8	10.9	10.8	10.2	10.2	10.6
Construction(21)	9.8	9.8	10.5	9.7	9.6	9.9
Services(22-27)	8.9	9.1	8.9	8.3	8.2	8.7
Total	8.9	9.5	9.3	8.5	8.4	8.9

10) Share of GDP by 8 Sectors

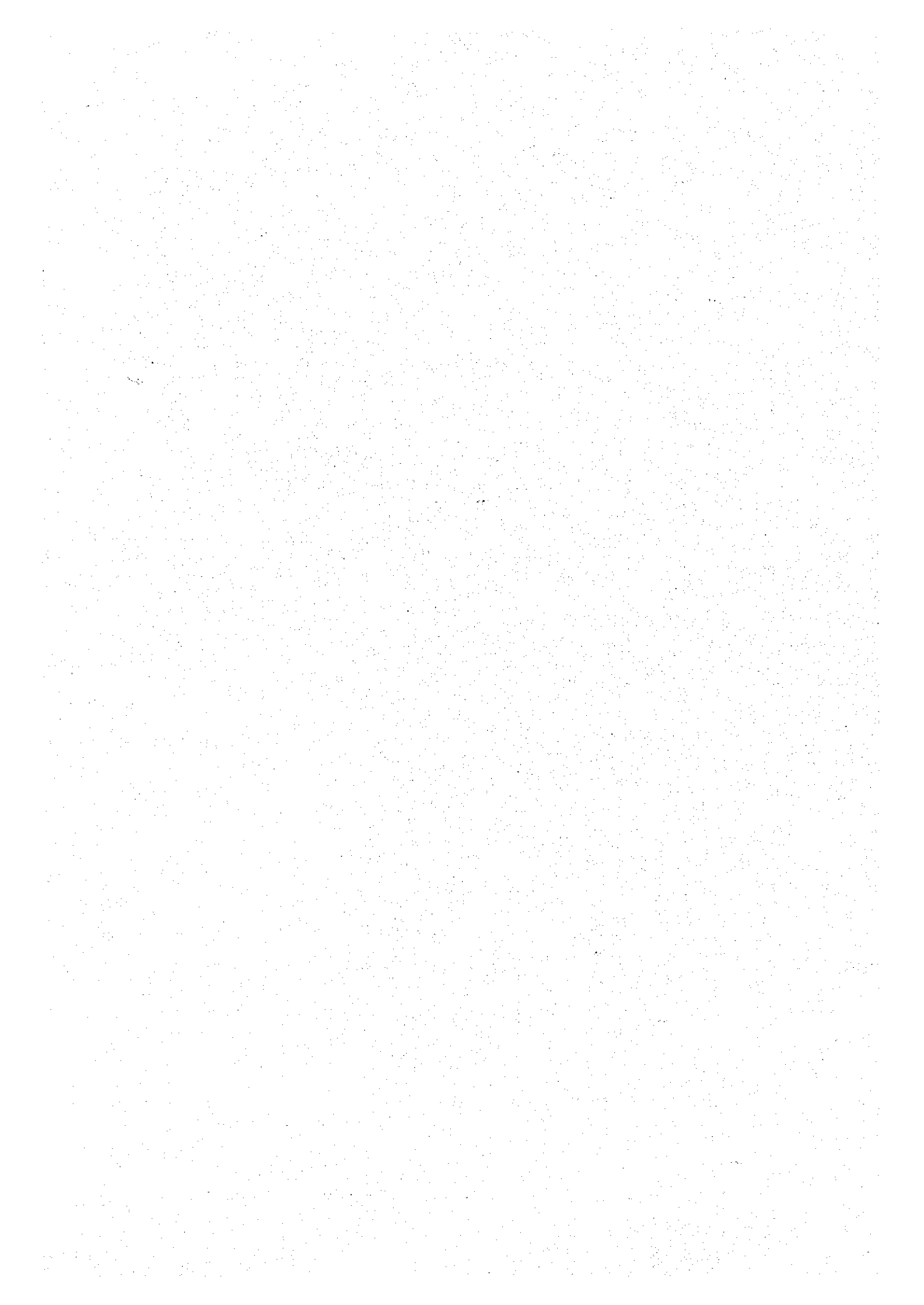
10-1) Java (unit: %)						
Sector	0	1	2	3	4	5
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	
Agriculture(1-5)	16.7	14.4	12.3	9.8	6.9	4.6
Mining(6-7)	2.4	2.0	1.6	1.3	1.1	1.0
Manufacturing(8-19)	27.1	29.6	33.5	36.2	39.1	42.8
Light Industry(8-10,19)	15.8	14.3	14.2	12.7	12.1	10.9
Resource-based Industry(11-15)	6.7	8.3	10.1	12.1	13.2	15.4
Machinery(16-18)	4.6	7.0	9.1	11.4	13.8	16.4
Electricity, Gas & Water(20)	1.5	1.6	1.7	1.8	1.9	2.0
Construction(21)	6.9	8.3	8.3	9.1	9.7	10.0
Services(22-27)	45.5	44.3	42.7	41.8	41.3	39.7
Total	100.0	100.0	100.0	100.0	100.0	100.0

10-2) Outside Java (unit: %)						
Sector	0	1	2	3	4	5
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	
Agriculture(1-5)	23.9	22.2	19.5	16.8	13.1	10.8
Mining(6-7)	21.9	18.9	15.9	14.3	13.8	14.6
Manufacturing(8-19)	18.6	23.3	23.6	33.4	37.2	36.8
Light Industry(8-10,19)	7.6	7.5	7.5	7.4	7.0	7.3
Resource-based Industry(11-15)	10.5	14.0	18.4	22.5	25.8	23.6
Machinery(16-18)	0.5	1.8	2.7	3.5	4.4	5.9
Electricity, Gas & Water(20)	0.5	0.6	0.6	0.7	0.7	0.8
Construction(21)	8.0	6.7	6.8	6.7	7.0	7.7
Services(22-27)	27.0	28.3	28.6	28.0	28.2	29.2
Total	100.0	100.0	100.0	100.0	100.0	100.0

10-3) Java + Outside Java (unit: %)						
Sector	0	1	2	3	4	5
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	
Agriculture(1-5)	19.6	17.5	15.0	12.5	9.3	6.9
Mining(6-7)	10.3	8.6	7.1	6.3	6.0	6.0
Manufacturing(8-19)	23.7	27.1	31.6	35.1	38.4	40.6
Light Industry(8-10,19)	12.5	11.6	11.6	10.7	10.1	9.5
Resource-based Industry(11-15)	8.2	10.5	13.3	16.1	18.0	18.4
Machinery(16-18)	2.9	4.9	6.7	8.4	10.2	12.6
Electricity, Gas & Water(20)	1.1	1.2	1.2	1.3	1.4	1.6
Construction(21)	7.4	7.7	7.8	8.2	8.7	9.1
Services(22-27)	38.0	38.0	37.3	36.5	36.3	35.8
Total	100.0	100.0	100.0	100.0	100.0	100.0

Appendix 11

Optimum Solutions of National IOPM under the Current Economic Crisis



1. Optimum Solution

(Case B1-17)

1) Annual Growth Rate of Output by 26 Sectors (unit %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	11	17	18	49	66	32
2 Estate crops	50	33	29	49	70	46
3 Livestock	35	38	39	67	45	45
4 Forestry	86	46	82	74	48	67
5 Fishery	95	97	80	120	133	105
6 Oil & Gas	13	-10	-10	-10	05	-03
7 Non Oil Gas	115	48	58	81	75	75
8 Food	46	26	28	48	36	37
9 Textile	39	100	-10	-07	06	25
10 Wood	57	111	146	147	127	117
11 Paper	138	110	69	99	121	107
12 Chemical	98	62	-08	-07	47	38
13 Non Metallic	21	41	-10	-10	-10	06
14 Iron & steel	117	72	96	131	154	114
15 Non Ferrous metal	136	117	41	80	94	93
16 Fabricated Metal	43	28	123	130	125	89
17 Machinery	146	35	108	101	90	95
18 Transport Equip	109	36	82	91	93	82
19 Oth manufacturing	299	73	104	112	16	117
20 Elec Gas Water	126	59	63	81	93	84
21 Construction	10	-10	115	112	106	65
22 Trade	60	64	83	86	86	76
23 Restaurant/Hotel	55	93	94	95	96	86
24 Transportation	73	51	62	68	84	68
25 Finance	70	47	52	59	82	62
27 Oth Service	35	26	32	87	90	54
Total	5.8	4.7	5.7	7.6	8.6	6.5

2) Annual Growth Rate of GDP by 26 Sectors (unit %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	-0.4	-0.8	-0.7	2.4	4.0	0.9
2 Estate crops	3.9	1.3	1.0	3.0	5.0	2.8
3 Livestock	2.7	2.6	2.7	5.5	3.3	3.4
4 Forestry	7.4	2.6	6.2	5.4	2.8	4.9
5 Fishery	8.4	7.8	6.2	10.1	11.4	8.8
6 Oil & Gas	1.3	-1.0	-1.0	-1.0	0.5	-0.3
7 Non Oil Gas	11.5	4.8	5.8	8.1	7.5	7.5
8 Food	6.6	4.6	4.8	6.8	5.6	5.7
9 Textile	5.9	12.1	0.9	1.2	2.6	4.4
10 Wood	7.7	13.2	16.8	16.9	14.8	13.8
11 Paper	16.0	13.1	8.9	12.0	14.3	12.8
12 Chemical	12.0	8.3	1.1	1.2	6.7	5.8
13 Non Metallic	4.1	6.1	0.9	0.9	0.9	2.5
14 Iron & steel	13.8	9.2	11.7	15.3	17.6	13.5
15 Non Ferrous metal	15.8	13.9	6.1	10.1	11.5	11.4
16 Fabricated Metal	6.3	4.8	14.4	15.2	14.7	11.0
17 Machinery	16.8	5.5	12.9	12.2	11.1	11.6
18 Transport Equip	13.0	5.6	10.3	11.2	11.4	10.3
19 Oth manufacturing	32.4	9.4	12.5	13.4	3.5	13.8
20 Elec Gas Water	12.6	5.9	6.3	8.1	9.3	8.4
21 Construction	1.0	-1.0	11.5	11.2	10.6	6.5
22 Trade	6.0	6.4	8.3	8.6	8.6	7.6
23 Restaurant/Hotel	5.5	9.3	9.4	9.5	9.6	8.6
24 Transportation	7.3	5.1	6.2	6.8	8.4	6.8
25 Finance	7.0	4.7	5.2	5.9	8.2	6.2
27 Oth Service	3.5	2.6	3.2	8.7	9.0	5.4
Total	5.8	4.8	5.9	7.8	9.0	6.6

3) Annual Growth Rate of Consumption by 26 Sectors (unit %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	20	20	20	67	100	45
2 Estate crops	20	20	20	55	100	43
3 Livestock	20	20	20	87	44	38
4 Forestry	20	20	20	70	47	25
5 Fishery	20	70	20	76	94	56
6 Oil & Gas						
7 Non Oil Gas	20	20	20	20	20	20
8 Food	20	20	20	42	20	24
9 Textile	20	20	20	20	20	20
10 Wood	20	20	20	20	20	20
11 Paper	20	20	20	20	20	20
12 Chemical	20	20	20	20	100	36
13 Non Metallic	20	20	20	20	20	20
14 Iron & steel						
15 Non Ferrous metal	0.9	2.9	1.3	2.4	2.1	1.9
16 Fabricated Metal	20	20	20	20	20	20
17 Machinery	20	20	20	20	20	20
18 Transport Equip	20	20	20	20	20	20
19 Oth manufacturing	20	20	20	20	20	20
20 Elec Gas Water	20	20	20	20	20	20
21 Construction	20	20	20	20	20	20
22 Trade	20	100	100	100	100	84
23 Restaurant/Hotel	20	100	100	100	100	84
24 Transportation	20	20	20	20	100	36
25 Finance	20	20	20	20	100	36
27 Oth Service	20	20	20	98	100	51
Total	2.0	3.6	4.0	6.4	8.1	4.8

4) Annual Growth Rate of Investment (unit %)

Total	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
Total	2.5	0.3	12.4	11.7	10.9	6.4

5) Annual Growth Rate of Export by 26 Sectors (unit %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	24.6	8.4	8.4	8.4	8.4	11.5
2 Estate crops	24.6	8.4	8.4	8.4	8.4	11.5
3 Livestock	24.6	8.4	8.4	8.4	8.4	11.5
4 Forestry	24.6	8.4	8.4	8.4	8.4	11.5
5 Fishery	24.6	8.4	8.4	8.4	8.4	11.5
6 Oil & Gas	10.8	1.9	1.1	-2.3	-2.2	1.8
7 Non Oil Gas	24.6	8.4	4.3	8.4	8.4	10.6
8 Food	17.1	1.9	1.9	1.9	1.9	4.8
9 Textile	1.0	14.9	-2.9	-4.4	-4.4	0.6
10 Wood	3.2	14.9	14.9	14.9	12.7	12.0
11 Paper	32.0	14.9	-4.4	-4.4	14.9	9.8
12 Chemical	12.2	8.4	-4.4	-4.4	8.4	3.8
13 Non Metallic	32.0	14.9	-0.3	2.6	5.5	10.3
14 Iron & steel	32.0	14.9	-4.4	-4.4	14.9	9.8
15 Non Ferrous metal	7.6	14.9	-4.4	-4.4	-4.4	1.6
16 Fabricated Metal	3.8	-4.4	-4.4	-4.4	-4.4	-2.8
17 Machinery	-16.7	-4.4	-4.4	-4.4	-4.4	-7.0
18 Transport Equip	11.7	12.4	-4.4	-4.4	-4.4	1.9
19 Oth manufacturing	13.6	14.9	14.9	14.9	-4.4	10.5
20 Elec Gas Water						
21 Construction						
22 Trade	24.6	8.4	8.4	8.4	8.4	11.5
23 Restaurant/Hotel	24.6	8.4	8.4	8.4	8.4	11.5
24 Transportation	24.6	8.4	8.4	8.4	8.4	11.5
25 Finance	24.6	8.4	8.4	8.4	8.4	11.5
27 Oth Service	24.6	8.4	8.4	8.4	8.4	11.5
Total	14.7	8.6	4.6	6.4	8.2	8.4

6) Annual Growth Rate of Import by 26 Sectors (unit %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	-1.7	2.1	2.5	4.5	3.7	2.2
2 Estate crops	-6.1	1.7	2.1	4.2	3.5	1.0
3 Livestock	-15.6	-1.9	-1.0	1.3	1.4	-3.4
4 Forestry	-9.9	1.2	1.1	3.9	7.3	0.5
5 Fishery	-12.6	-1.7	-1.0	0.8	1.0	-2.8
6 Oil & Gas	17.4	6.2	-0.8	-0.7	4.7	5.1
7 Non Oil Gas	2.1	4.3	2.2	4.2	7.7	4.1
8 Food	-4.4	2.3	3.2	5.7	5.3	2.3
9 Textile	-3.8	7.0	-0.4	0.7	2.1	1.1
10 Wood	-4.7	5.1	11.0	12.4	11.5	6.8
11 Paper	4.3	7.8	5.8	8.6	11.0	7.5
12 Chemical	-0.8	5.4	2.2	4.2	7.2	3.6
13 Non Metallic	9.0	-0.4	10.5	10.7	10.1	7.9
14 Iron & steel	0.2	2.0	19.4	11.5	11.9	7.1
15 Non Ferrous metal	6.2	9.3	5.1	8.6	9.7	7.8
16 Fabricated Metal	-2.6	-0.6	10.4	10.8	10.5	5.5
17 Machinery	-4.0	0.9	6.9	8.1	8.2	3.9
18 Transport Equip	-3.6	1.3	4.8	7.3	8.3	3.5
19 Oth manufacturing	-9.4	-0.3	3.2	6.4	6.9	1.2
20 Elec Gas Water						
21 Construction						
22 Trade						
23 Restaurant/Hotel	-13.2	-1.5	0.0	2.2	5.0	-1.7
24 Transportation	-7.8	1.2	3.0	4.6	6.8	1.5
25 Finance	1.5	3.7	5.8	6.8	8.3	5.2
27 Oth Service	-6.5	2.5	2.8	5.8	8.4	2.5
Total	-1.8	3.2	4.5	6.6	8.2	4.1

(Case-B1-17)

7) Share of GDP by 26 Sectors

(unit: %)

Sector	0	1	2	3	4	5
		(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)
1 Farm (soil)	10.8	8.0	6.1	4.4	3.4	2.7
2 Estate crops	2.8	2.5	2.1	1.7	1.4	1.1
3 Livestock	2.0	1.7	1.5	1.3	1.2	0.9
4 Forestry	1.5	1.6	1.5	1.5	1.3	1.0
5 Fishery	1.9	2.2	2.5	2.5	2.8	3.1
6 Oil & Gas	8.7	7.0	5.2	3.7	2.4	1.6
7 Non Oil Gas	2.3	3.0	2.9	2.9	3.0	2.8
8 Food	7.4	7.6	7.6	7.2	6.9	5.9
9 Textile	2.1	2.1	3.0	2.3	1.7	1.2
10 Wood	1.6	1.8	2.6	4.3	6.4	8.4
11 Paper	0.9	1.4	2.1	2.4	2.9	3.7
12 Chemical	5.7	7.6	8.9	7.0	5.1	4.6
13 Non Metallic	0.6	0.5	0.6	0.5	0.3	0.2
14 Iron & steel	0.5	0.8	0.9	1.2	1.7	2.5
15 Non Ferrous metal	0.2	0.4	0.5	0.5	0.6	0.7
16 Fabricated Metal	0.6	0.6	0.6	0.9	1.2	1.6
17 Machinery	1.4	2.3	2.3	3.2	3.9	4.3
18 Transport Equip	0.9	1.2	1.3	1.6	1.8	2.0
19 Other manufacturing	0.1	0.3	0.4	0.6	0.7	0.6
20 Elec Gas Water	0.9	1.2	1.2	1.3	1.3	1.3
21 Construction	7.1	5.6	4.2	5.4	6.4	6.9
22 Trade	13.0	13.1	14.1	13.8	16.4	16.1
23 Restaurant/Hotel	3.5	3.5	4.3	5.0	5.4	5.6
24 Transportation	8.2	8.8	8.9	9.0	8.6	8.4
25 Finance	9.3	9.8	9.7	9.4	8.6	8.3
27 Other Service	6.6	5.4	4.8	4.3	4.4	4.5
Total	100.0	100.0	100.0	100.0	100.0	100.0

8) Annual Growth Rate of GDP by 8 Sectors

(unit: %)

Sector	0-1	1-2	2-3	3-4	4-5	0-5
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
Agriculture(1-5)	2.3	1.6	2.1	5.1	6.2	3.4
Mining(6-7)	3.8	0.9	1.7	3.4	4.5	2.8
Manufacturing(8-19)	9.9	7.9	6.5	8.9	10.4	8.7
Light Industry(8-10,19)	7.1	7.6	7.1	9.7	9.4	8.2
Resource-based Industry(11-15)	12.2	9.1	3.6	5.9	11.0	8.3
Machinery(16-18)	13.8	5.4	12.4	12.4	11.8	11.1
Electricity, Gas & Water(20)	12.6	5.9	6.3	8.1	9.3	8.4
Construction(21)	1.0	-1.0	11.5	11.2	10.6	6.5
Services(22-27)	6.1	5.5	6.7	7.8	8.7	6.9
Total	5.8	4.8	5.9	7.8	9.0	6.6

9) Share of GDP by 8 Sectors

(unit: %)

Sector	0	1	2	3	4	5
(IO Code)		(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)
Agriculture(1-5)	19.1	16.1	13.7	11.4	10.1	8.9
Mining(6-7)	10.9	9.9	8.7	6.7	5.4	4.4
Manufacturing(8-19)	22.0	26.6	30.8	31.7	33.4	35.7
Light Industry(8-10,19)	11.2	11.9	13.6	14.4	15.7	16.0
Resource-based Industry(11-15)	8.0	10.7	13.0	11.7	10.7	11.7
Machinery(16-18)	2.8	4.1	4.2	5.6	7.0	7.9
Electricity, Gas & Water(20)	0.9	1.2	1.2	1.3	1.3	1.3
Construction(21)	7.1	5.6	4.2	5.4	6.4	6.9
Services(22-27)	40.1	40.6	41.9	43.5	43.5	42.9
Total	100.0	100.0	100.0	100.0	100.0	100.0

1. Optimum Solution

(Case B1-44)

1) Annual Growth Rate of Output by 26 Sectors (unit: %)

Sector	0-1	1-2	2-3	3-4	4-5	0-5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
1 Farm food	1.1	1.6	2.0	4.8	6.8	3.3
2 Estate crops	5.0	3.2	3.7	5.7	8.1	5.1
3 Livestock	3.5	3.7	4.1	4.4	6.5	4.4
4 Forestry	8.6	4.5	9.4	8.2	4.2	7.0
5 Fishery	9.5	7.1	8.9	13.1	14.0	10.3
6 Oil & Gas	1.3	-1.0	-1.0	-1.0	-1.0	-0.6
7 Non Oil/Gas	11.5	4.8	1.0	3.8	3.8	4.9
8 Food	4.6	2.6	3.2	3.6	4.1	3.6
9 Textile	3.9	10.0	-1.0	-1.0	-0.2	2.7
10 Wood	5.7	11.1	16.3	15.7	12.0	12.1
11 Paper	13.8	10.9	6.9	8.9	11.5	10.4
12 Chemical	9.8	6.2	-1.0	-1.0	1.3	5.0
13 Non Metallic	2.1	4.1	-1.0	-1.0	-1.0	0.6
14 Iron & steel	11.7	7.0	8.8	13.4	13.6	10.9
15 Non Ferrous metal	13.6	11.7	2.1	7.1	10.0	8.8
16 Fabricated Metal	4.3	2.7	11.8	13.2	11.7	8.7
17 Machinery	14.6	3.4	10.3	10.1	8.2	9.3
18 Transport Equip	10.9	2.5	8.6	9.2	8.9	8.0
19 Oth manufacturing	29.9	7.3	2.7	4.6	5.5	9.6
20 Elec Gas/Water	12.6	5.8	6.5	8.1	9.3	8.4
21 Construction	1.0	-1.0	11.0	11.5	9.7	6.3
22 Trade	6.0	6.3	9.1	9.5	9.4	8.0
23 Restaurant/Hotel	5.5	8.7	9.8	9.9	9.9	8.8
24 Transportation	7.4	5.1	6.9	7.7	8.6	7.1
25 Finance	7.0	4.6	5.9	5.8	8.8	6.4
27 Oth Service	3.5	2.6	3.5	4.0	8.9	4.5
Total	5.8	4.5	5.9	7.5	8.5	6.4

2) Annual Growth Rate of GDP by 26 Sectors (unit: %)

Sector	0-1	1-2	2-3	3-4	4-5	0-5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
1 Farm food	-0.4	-0.9	-0.4	2.2	4.2	0.9
2 Estate crops	3.8	1.3	1.8	3.7	6.0	3.3
3 Livestock	2.7	2.3	2.9	3.1	5.2	3.3
4 Forestry	7.4	2.6	7.4	6.2	2.3	5.1
5 Fishery	8.4	5.3	7.0	11.2	12.1	8.8
6 Oil & Gas	1.3	-1.0	-1.0	-1.0	-1.0	-0.6
7 Non Oil/Gas	11.5	4.8	1.0	3.8	3.8	4.9
8 Food	6.6	4.5	5.1	5.5	6.1	5.6
9 Textile	5.9	12.1	0.9	0.9	1.2	4.2
10 Wood	7.7	13.2	13.5	17.9	14.1	14.2
11 Paper	16.0	13.1	9.0	11.0	13.7	12.5
12 Chemical	11.9	8.2	0.9	0.9	3.2	4.9
13 Non Metallic	4.1	6.1	0.9	0.9	0.9	2.5
14 Iron & steel	13.8	9.1	10.9	15.6	15.8	13.0
15 Non Ferrous metal	15.8	13.8	4.1	9.2	12.2	10.9
16 Fabricated Metal	6.3	4.7	14.0	15.4	13.9	10.7
17 Machinery	16.8	5.4	12.6	12.2	10.2	11.4
18 Transport Equip	13.0	4.5	10.5	11.3	11.0	10.1
19 Oth manufacturing	32.4	9.3	4.7	6.7	7.5	11.7
20 Elec Gas/Water	12.6	5.8	6.5	8.1	9.3	8.4
21 Construction	1.0	-1.0	11.0	11.5	9.7	6.3
22 Trade	6.0	6.3	9.1	9.5	9.4	8.0
23 Restaurant/Hotel	5.5	8.7	9.8	9.9	9.9	8.8
24 Transportation	7.4	5.1	6.9	7.7	8.6	7.1
25 Finance	7.0	4.6	5.9	5.8	8.8	6.4
27 Oth Service	3.5	2.6	3.5	4.0	8.9	4.5
Total	5.8	4.7	6.1	7.7	8.9	6.6

3) Annual Growth Rate of Consumption by 26 Sectors (unit: %)

Sector	0-1	1-2	2-3	3-4	4-5	0-5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
1 Farm food	2.0	2.0	2.0	2.0	9.6	4.5
2 Estate crops	2.0	2.0	2.0	4.1	10.0	4.0
3 Livestock	2.0	2.0	2.0	2.1	10.0	3.6
4 Forestry	2.0	2.0	2.0	2.0	2.1	2.0
5 Fishery	2.0	2.0	2.0	10.0	10.0	5.1
6 Oil & Gas						
7 Non Oil/Gas	2.0	2.0	2.0	2.0	2.0	2.0
8 Food	2.0	2.0	2.0	2.0	2.0	2.0
9 Textile	2.0	2.0	2.0	2.0	2.0	2.0
10 Wood	2.0	2.0	2.0	2.0	2.0	2.0
11 Paper	2.0	2.0	2.0	2.0	2.0	2.0
12 Chemical	2.0	2.0	2.0	2.8	10.0	3.7
13 Non Metallic	2.0	2.0	2.0	2.0	2.0	2.0
14 Iron & steel						
15 Non Ferrous metal	0.9	2.9	1.3	2.4	2.1	1.9
16 Fabricated Metal	2.0	2.0	2.0	2.0	2.0	2.0
17 Machinery	2.0	2.0	2.0	2.0	2.0	2.0
18 Transport Equip	2.0	2.0	2.0	2.0	2.0	2.0
19 Oth manufacturing	2.0	2.0	2.0	2.0	2.0	2.0
20 Elec Gas/Water	2.0	2.0	2.0	2.0	2.0	2.0
21 Construction	2.0	2.0	2.0	2.0	2.0	2.0
22 Trade	2.0	10.0	10.0	10.0	10.0	8.4
23 Restaurant/Hotel	2.0	9.2	10.0	10.0	10.0	8.2
24 Transportation	2.0	2.0	2.0	2.0	7.9	3.2
25 Finance	2.0	2.0	2.0	2.0	10.0	3.6
27 Oth Service	2.0	2.0	2.0	2.0	10.0	3.6
Total	2.0	3.4	4.0	5.2	8.0	4.5

4) Annual Growth Rate of Investment (unit: %)

	0-1	1-2	2-3	3-4	4-5	0-5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
Total	-2.4	0.2	11.8	12.1	9.9	6.1

5) Annual Growth Rate of Export by 26 Sectors (unit: %)

Sector	0-1	1-2	2-3	3-4	4-5	0-5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
1 Farm food	24.6	8.4	10.5	10.5	10.5	12.8
2 Estate crops	24.6	8.4	10.5	10.5	10.5	12.8
3 Livestock	24.6	8.4	10.5	10.5	10.5	12.8
4 Forestry	24.6	8.4	10.5	10.5	10.5	12.8
5 Fishery	24.6	8.4	10.5	10.5	10.5	12.8
6 Oil & Gas	10.8	1.9	1.2	-2.4	-4.6	1.3
7 Non Oil/Gas	24.6	8.4	-6.4	-6.4	-6.4	2.1
8 Food	17.1	1.9	3.9	3.9	3.9	6.0
9 Textile	1.0	14.9	-2.9	-4.3	-6.4	0.2
10 Wood	3.2	14.9	17.1	15.9	11.9	12.3
11 Paper	32.0	14.9	-6.4	-6.4	-6.4	4.5
12 Chemical	12.1	8.4	-3.2	-6.4	-6.4	0.2
13 Non Metallic	32.0	14.9	-0.2	2.4	5.4	10.3
14 Iron & steel	32.0	14.9	-6.4	-6.4	-6.4	4.5
15 Non Ferrous metal	7.6	14.9	-6.4	-6.4	-6.4	0.3
16 Fabricated Metal	3.7	-4.4	-6.4	-6.4	-6.4	-4.0
17 Machinery	-15.7	-4.4	-6.4	-6.4	-6.4	-8.1
18 Transport Equip	10.7	-4.4	-6.4	-6.4	-6.4	-2.8
19 Oth manufacturing	13.5	14.9	-6.4	-6.4	-6.4	1.4
20 Elec Gas/Water						
21 Construction						
22 Trade	24.6	8.4	10.5	10.5	10.5	12.8
23 Restaurant/Hotel	24.6	8.4	10.5	10.5	10.5	12.8
24 Transportation	24.6	8.4	10.5	10.5	10.5	12.8
25 Finance	24.6	8.4	10.5	7.8	10.5	12.2
27 Oth Service	24.6	8.4	10.5	10.5	10.5	12.8
Total	14.7	8.5	5.3	7.3	8.5	8.8

6) Annual Growth Rate of Import by 26 Sectors (unit: %)

Sector	0-1	1-2	2-3	3-4	4-5	0-5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
1 Farm food	-1.7	2.0	2.7	3.4	4.1	2.1
2 Estate crops	-6.1	1.6	2.2	3.0	3.9	0.9
3 Livestock	-15.6	-1.9	-2.0	-0.5	2.4	-3.7
4 Forestry	-9.9	1.2	0.8	4.5	6.6	0.5
5 Fishery	-12.6	-1.7	-1.8	-0.4	1.1	-3.2
6 Oil & Gas	17.3	6.2	-1.0	-1.0	1.3	4.5
7 Non Oil/Gas	2.0	4.3	1.9	4.1	6.2	3.7
8 Food	-4.4	2.1	3.1	4.5	6.3	2.2
9 Textile	-3.8	6.9	-0.8	0.0	1.5	0.7
10 Wood	-4.7	5.1	11.8	13.3	11.1	7.1
11 Paper	4.3	7.8	5.9	7.8	10.5	7.2
12 Chemical	-0.8	5.3	2.0	3.9	6.2	3.3
13 Non Metallic	9.0	-0.5	9.9	10.9	9.4	7.7
14 Iron & steel	0.2	1.8	9.9	11.7	10.9	6.8
15 Non Ferrous metal	6.2	9.2	3.4	8.0	10.0	7.3
16 Fabricated Metal	-2.6	-0.6	9.9	11.0	9.6	5.3
17 Machinery	-4.0	0.8	6.4	8.0	7.5	3.6
18 Transport Equip	-3.6	0.8	4.7	6.6	8.0	3.2
19 Oth manufacturing	-3.4	-0.5	2.2	4.6	6.9	0.6
20 Elec Gas/Water						
21 Construction						
22 Trade						
23 Restaurant/Hotel	-13.2	-1.5	-0.8	2.2	5.1	-1.9
24 Transportation	-7.8	1.2	3.0	5.2	7.2	1.6
25 Finance	1.5	3.6	6.2	7.1	8.6	5.4
27 Oth Service	-6.5	2.4	1.8	4.4	7.5	1.8
Total	-1.8	3.1	4.1	6.3	7.5	3.8

(Case B1-44)

7) Share of GDP by 26 Sectors

Sector	(unit. %)					
	0	1	2	3	4	5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	
1 Farm food	10.8	8.0	6.1	4.4	3.4	2.8
2 Estate crops	2.8	2.5	2.2	1.8	1.4	1.3
3 Livestock	2.0	1.7	1.6	1.3	1.1	0.9
4 Forestry	1.5	1.6	1.5	1.6	1.4	1.1
5 Fishery	1.9	2.2	2.2	2.3	2.7	3.2
6 Oil & Gas	8.7	7.0	5.3	3.7	2.4	1.5
7 Non Oil Gas	2.3	3.0	3.0	2.3	1.9	1.5
8 Food	7.4	7.6	7.6	7.2	6.5	5.8
9 Textile	2.1	2.1	3.0	2.3	1.7	1.2
10 Wood	1.6	1.8	2.6	4.6	7.2	9.2
11 Paper	0.9	1.4	2.1	2.4	2.8	3.5
12 Chemical	5.7	7.5	8.9	6.9	5.0	3.8
13 Non Metallic	0.6	0.5	0.6	0.5	0.3	0.2
14 Iron & steel	0.5	0.8	0.9	1.2	1.7	2.3
15 Non Ferrous metal	0.2	0.4	0.5	0.5	0.5	0.6
16 Fabricated Metal	0.6	0.6	0.6	0.8	1.2	1.5
17 Machinery	1.4	2.3	2.3	3.2	3.9	4.1
18 Transport Equip	0.9	1.2	1.2	1.5	1.8	2.0
19 Oth manufacturing	0.1	0.3	0.4	0.4	0.4	0.4
20 Elec Gas Water	0.9	1.2	1.2	1.3	1.3	1.3
21 Construction	7.1	5.6	4.2	5.3	6.3	6.5
22 Trade	13.0	13.2	14.2	16.3	17.7	18.1
23 Restaurant/Hotel	3.5	3.5	4.2	5.0	5.5	5.8
24 Transportation	8.2	8.8	9.0	9.3	9.3	9.2
25 Finance	9.3	9.8	9.8	9.7	8.9	8.8
27 Oth Service	6.0	5.4	4.9	4.3	3.6	3.6
Total	100.0	100.0	100.0	100.0	100.0	100.0

8) Annual Growth Rate of GDP by 8 Sectors

Sector (IO Code)	(unit. %)					Average
	0-1	1-2	2-3	3-4	4-5	
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	
Agriculture(1-5)	2.3	1.1	2.6	5.2	6.7	3.5
Mining(6-7)	3.8	0.8	-0.3	0.9	1.2	1.3
Manufacturing(8-19)	9.9	7.8	6.5	8.7	9.8	8.5
Light Industry(8-10,19)	7.1	7.6	7.5	9.5	9.7	8.3
Resource-based Industry(11-15)	12.2	9.1	3.3	5.5	9.0	7.8
Machinery(16-18)	13.8	5.0	12.3	12.5	11.1	10.9
Electricity, Gas & Water(20)	12.6	5.8	6.5	8.1	9.3	8.4
Construction(21)	1.0	-1.0	11.0	11.5	9.7	6.3
Services(22-27)	6.1	5.4	7.4	7.9	9.1	7.2
Total	5.8	4.7	6.1	7.7	8.9	6.6

9) Share of GDP by 8 Sectors

Sector (IO Code)	(unit. %)					
	0	1	2	3	4	5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	
Agriculture(1-5)	19.1	16.1	13.5	11.4	10.1	9.1
Mining(6-7)	10.9	9.9	8.2	6.0	4.4	3.0
Manufacturing(8-19)	22.0	26.6	30.8	31.5	33.0	34.4
Light Industry(8-10,19)	11.2	11.9	13.6	14.5	15.8	16.5
Resource-based Industry(11-15)	8.0	10.6	13.1	11.4	10.3	10.4
Machinery(16-18)	2.8	4.1	4.1	5.5	6.8	7.6
Electricity, Gas & Water(20)	0.9	1.2	1.2	1.3	1.3	1.3
Construction(21)	7.1	5.6	4.2	5.3	6.3	6.5
Services(22-27)	40.1	40.6	42.0	44.6	45.0	45.6
Total	100.0	100.0	100.0	100.0	100.0	100.0

1. Optimum Solution

(Case B1-46)

1) Annual Growth Rate of Output by 26 Sectors (unit %)

Sector	0-1	1-2	2-3	3-4	4-5	0-5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
1 Farm food	1.1	1.5	2.5	5.4	7.7	3.6
2 Estate crops	5.0	3.2	5.0	7.7	10.4	6.2
3 Livestock	3.5	3.5	4.5	5.2	7.2	4.8
4 Forestry	8.6	4.5	11.8	6.5	3.6	7.0
5 Fishery	9.5	6.8	9.5	13.9	14.9	10.9
6 Oil & Gas	1.3	-1.0	-1.0	-1.0	-1.0	-0.6
7 Non Oil Gas	11.5	4.8	1.1	5.1	8.6	6.1
8 Food	4.6	2.4	3.6	4.2	4.8	3.9
9 Textile	3.9	10.0	-1.0	-1.0	-0.4	2.2
10 Wood	5.7	11.1	19.1	12.6	9.6	11.5
11 Paper	13.8	10.9	7.0	10.0	13.0	10.9
12 Chemical	9.8	6.1	-1.0	-1.0	2.0	3.1
13 Non Metallic	2.1	4.1	-1.0	-1.0	-1.0	0.6
14 Iron & steel	11.7	7.1	10.0	15.3	15.7	11.9
15 Non Ferrous metal	13.6	11.7	2.0	8.8	12.5	9.7
16 Fabricated Metal	4.3	2.8	13.6	14.8	13.6	8.7
17 Machinery	14.7	3.3	12.4	11.3	9.7	10.2
18 Transport Equip	10.9	3.3	9.5	10.3	10.5	8.9
19 Oth manufacturing	25.9	7.2	3.1	5.7	7.1	10.2
20 Elec Gas Water	12.6	5.7	7.1	9.1	10.6	9.0
21 Construction	1.0	-1.0	13.1	13.2	11.5	7.4
22 Trade	6.0	6.3	10.7	11.1	11.2	9.0
23 Restaurant/Hotel	5.5	7.7	10.5	10.6	10.8	9.0
24 Transportation	7.4	5.0	8.3	9.2	10.8	8.1
25 Finance	7.0	4.6	3.5	6.9	10.0	6.4
27 Oth Service	3.5	2.6	4.0	4.7	9.7	4.9
Total	5.8	4.5	6.7	8.4	9.7	7.0

2) Annual Growth Rate of GDP by 26 Sectors (unit %)

Sector	0-1	1-2	2-3	3-4	4-5	0-5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
1 Farm food	-0.4	-0.9	0.0	2.8	5.0	1.3
2 Estate crops	3.8	1.2	3.0	5.7	8.4	4.4
3 Livestock	2.7	2.3	3.3	4.0	5.9	3.6
4 Forestry	7.4	2.6	9.7	4.6	1.7	5.1
5 Fishery	8.4	5.0	7.6	12.0	12.9	9.1
6 Oil & Gas	1.3	-1.0	-1.0	-1.0	-1.0	-0.6
7 Non Oil Gas	11.5	4.8	1.1	5.1	8.6	6.1
8 Food	6.6	4.4	3.6	6.2	6.8	5.9
9 Textile	3.9	12.1	0.9	0.9	1.5	4.2
10 Wood	7.7	13.2	21.4	14.8	11.7	13.7
11 Paper	15.0	13.0	9.0	12.1	15.2	13.0
12 Chemical	11.9	8.2	0.9	0.9	4.0	5.1
13 Non Metallic	4.1	6.1	0.9	0.9	0.9	2.5
14 Iron & steel	13.8	9.2	12.1	17.5	18.0	14.1
15 Non Ferrous metal	15.8	13.8	4.0	10.9	14.7	11.8
16 Fabricated Metal	6.3	4.8	13.8	17.0	15.8	11.8
17 Machinery	16.9	3.3	14.5	13.5	11.8	12.3
18 Transport Equip	13.0	5.5	11.6	12.4	12.6	11.0
19 Oth manufacturing	32.4	9.3	5.0	7.7	9.1	12.3
20 Elec Gas Water	12.6	5.7	7.1	9.1	10.6	9.0
21 Construction	1.0	-1.0	13.1	13.2	11.5	7.4
22 Trade	6.0	6.3	10.7	11.1	11.2	9.0
23 Restaurant/Hotel	5.5	7.7	10.5	10.6	10.8	9.0
24 Transportation	7.4	5.0	8.3	9.2	10.8	8.1
25 Finance	7.0	4.6	3.5	6.9	10.0	6.4
27 Oth Service	3.5	2.6	4.0	4.7	9.7	4.9
Total	5.8	4.6	6.8	8.6	10.1	7.2

3) Annual Growth Rate of Consumption by 26 Sectors (unit %)

Sector	0-1	1-2	2-3	3-4	4-5	0-5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
1 Farm food	2.0	2.0	2.0	7.0	10.0	4.5
2 Estate crops	2.0	2.0	2.0	4.8	10.0	4.1
3 Livestock	2.0	2.0	2.0	3.2	10.0	3.8
4 Forestry	2.0	2.0	2.0	2.0	5.8	2.7
5 Fishery	2.0	2.0	2.0	10.0	10.0	5.1
6 Oil & Gas						
7 Non Oil Gas	2.0	2.0	2.0	2.0	2.0	2.0
8 Food	2.0	2.0	2.0	2.0	2.0	2.0
9 Textile	2.0	2.0	2.0	2.0	2.0	2.0
10 Wood	2.0	2.0	2.0	2.0	2.0	2.0
11 Paper	2.0	2.0	2.0	2.0	2.0	2.0
12 Chemical	2.0	2.0	2.0	2.4	10.0	3.6
13 Non Metallic	2.0	2.0	2.0	2.0	2.0	2.0
14 Iron & steel						
15 Non Ferrous metal	0.9	2.9	1.3	2.4	2.1	1.9
16 Fabricated Metal	2.0	2.0	2.0	2.0	2.0	2.0
17 Machinery	2.0	2.0	2.0	2.0	2.0	2.0
18 Transport Equip	2.0	2.0	2.0	2.0	2.0	2.0
19 Oth manufacturing	2.0	2.0	2.0	2.0	2.9	2.0
20 Elec Gas Water	2.0	2.0	2.0	2.0	2.0	2.0
21 Construction	2.0	2.0	2.0	2.0	2.0	2.0
22 Trade	2.0	10.0	10.0	10.0	10.0	8.4
23 Restaurant/Hotel	2.0	7.7	10.0	10.0	10.0	7.9
24 Transportation	2.0	2.0	2.0	2.0	10.0	3.6
25 Finance	2.0	2.0	2.0	2.0	10.0	3.6
27 Oth Service	2.0	2.0	2.0	2.0	10.0	3.6
Total	2.0	3.3	3.9	5.1	8.2	4.5

4) Annual Growth Rate of Investment (unit %)

	0-1	1-2	2-3	3-4	4-5	0-5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
Total	-2.3	0.1	14.1	13.7	11.7	7.2

5) Annual Growth Rate of Export by 26 Sectors (unit %)

Sector	0-1	1-2	2-3	3-4	4-5	0-5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
1 Farm food	24.6	8.4	13.4	13.4	13.4	14.5
2 Estate crops	24.6	8.4	13.4	13.4	13.4	14.5
3 Livestock	24.6	8.4	13.4	13.4	13.4	14.5
4 Forestry	24.6	8.4	13.4	13.4	13.4	14.5
5 Fishery	24.6	8.4	13.4	13.4	13.4	14.5
6 Oil & Gas	10.8	1.9	0.8	-3.4	-7.7	0.3
7 Non Oil Gas	24.6	8.4	-8.5	-8.5	13.4	5.1
8 Food	17.1	1.9	6.6	6.6	6.6	7.6
9 Textile	1.0	14.9	-3.2	-4.7	-8.5	-0.4
10 Wood	3.2	14.9	20.1	12.0	9.0	11.7
11 Paper	32.0	14.9	-8.5	-8.5	-8.5	3.0
12 Chemical	12.0	8.4	-6.3	-8.5	-8.5	-1.0
13 Non Metallic	32.0	14.9	-0.8	2.9	7.1	10.6
14 Iron & steel	32.0	14.9	-8.5	-8.5	-8.5	3.0
15 Non Ferrous metal	7.5	14.9	-8.5	-8.5	-8.5	-1.1
16 Fabricated Metal	3.6	-4.4	-8.5	-8.5	-8.5	-5.4
17 Machinery	-16.7	-4.4	-8.5	-8.5	-8.5	-9.4
18 Transport Equip	9.2	14.9	-8.5	-8.5	-8.5	-0.8
19 Oth manufacturing	13.4	14.9	-8.5	-8.5	-8.5	-0.1
20 Elec Gas Water						
21 Construction						
22 Trade	24.6	8.4	13.4	13.4	13.4	14.5
23 Restaurant/Hotel	24.6	8.4	13.4	13.4	13.4	14.5
24 Transportation	24.6	8.4	13.4	13.4	13.4	14.5
25 Finance	24.6	8.4	-2.2	11.8	13.4	10.9
27 Oth Service	24.6	8.4	13.4	13.4	13.4	14.5
Total	14.7	8.6	5.9	8.4	10.2	9.5

6) Annual Growth Rate of Import by 26 Sectors (unit %)

Sector	0-1	1-2	2-3	3-4	4-5	0-5
	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
1 Farm food	-1.7	1.9	3.0	3.9	4.9	2.4
2 Estate crops	-6.1	1.5	2.5	3.6	4.7	1.2
3 Livestock	-15.6	-2.0	-3.0	-0.4	3.2	-3.0
4 Forestry	-9.9	1.1	0.9	3.4	5.5	0.1
5 Fishery	-12.6	-1.8	-2.5	-0.3	1.9	-3.2
6 Oil & Gas	17.3	6.1	-1.0	-1.0	2.0	4.5
7 Non Oil Gas	2.0	4.3	2.4	5.2	8.0	4.4
8 Food	-4.4	1.9	3.2	5.1	7.1	2.5
9 Textile	-3.8	6.9	-0.9	0.1	1.9	0.8
10 Wood	-4.7	5.1	14.0	11.7	9.8	7.0
11 Paper	4.3	7.7	5.7	8.9	12.0	7.7
12 Chemical	-0.8	5.3	2.4	4.5	7.5	3.7
13 Non Metallic	9.0	-0.5	11.8	12.5	11.3	8.7
14 Iron & steel	0.2	2.0	11.5	13.4	12.8	7.8
15 Non Ferrous metal	6.2	9.3	3.6	9.7	12.3	8.2
16 Fabricated Metal	-2.6	-0.6	11.8	12.6	11.4	6.3
17 Machinery	-4.0	0.8	7.5	9.3	9.1	4.4
18 Transport Equip	-3.6	1.3	5.3	7.8	9.7	4.0
19 Oth manufacturing	-9.4	-0.4	2.3	5.7	8.5	1.2
20 Elec Gas Water						
21 Construction						
22 Trade						
23 Restaurant/Hotel	-13.2	-1.5	-1.5	2.6	6.6	-1.6
24 Transportation	-7.7	1.1	3.4	6.7	9.5	2.4
25 Finance	1.5	3.6	5.9	8.6	10.3	5.9
27 Oth Service	-6.3	2.4	1.4	5.2	9.4	2.2
Total	-1.8	3.1	4.8	7.5	9.2	4.5

(Case B1-45)

7) Share of GDP by 26 Sectors

(unit %)

Sector	0	1 (R-VI)	2 (R-VII)	3 (R-VIII)	4 (R-IX)	5 (R-X)
1 Farm food	10.8	8.0	6.1	4.4	3.3	2.6
2 Estate crops	2.8	2.5	2.2	1.8	1.6	1.5
3 Livestock	2.0	1.7	1.5	1.3	1.0	0.9
4 Forestry	1.5	1.6	1.5	1.7	1.4	0.9
5 Fishery	1.9	2.2	2.2	2.3	2.7	3.0
6 Oil & Gas	9.7	7.0	5.3	3.6	2.3	1.3
7 Non Oil Gas	2.3	3.0	3.0	2.3	1.9	1.8
8 Food	7.4	7.6	7.6	7.2	6.4	5.5
9 Textile	2.1	2.1	3.0	2.2	1.5	1.0
10 Wood	1.6	1.8	2.6	5.0	6.6	7.1
11 Paper	0.9	1.4	2.1	2.3	2.7	3.4
12 Chemical	5.7	7.5	8.9	6.7	4.6	3.5
13 Non Metallic	0.6	0.6	0.6	0.4	0.3	0.2
14 Iron & steel	0.5	0.8	0.9	1.2	1.8	2.5
15 Non Ferrous metal	0.2	0.4	0.5	0.5	0.5	0.6
16 Fabricated Metal	0.6	0.6	0.6	0.9	1.3	1.5
17 Machinery	1.4	2.3	2.3	3.3	4.1	4.5
18 Transport Equip	0.9	1.2	1.3	1.6	1.9	2.1
19 Oth manufacturing	0.1	0.3	0.4	0.4	0.4	0.4
20 Elec Gas Water	0.9	1.2	1.2	1.2	1.3	1.3
21 Construction	7.1	5.6	4.2	3.7	6.9	7.4
22 Trade	13.0	13.2	14.2	17.0	19.0	20.0
23 Restaurant/Hotel	3.5	3.5	4.0	4.8	5.2	5.4
24 Transportation	8.2	8.8	9.0	9.6	9.9	10.2
25 Finance	8.3	9.8	9.8	8.3	7.7	7.7
27 Oth Service	6.0	5.4	4.9	4.3	3.6	3.5
Total	100.0	100.0	100.0	100.0	100.0	100.0

8) Annual Growth Rate of GDP by 8 Sectors

(unit %)

Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
Agriculture(1-5)	2.3	1.0	3.4	5.7	7.6	4.0
Mining(6-7)	3.8	0.8	-0.2	1.5	3.8	1.9
Manufacturing(8-19)	9.9	7.8	7.4	8.9	10.3	8.9
Light Industry(8-10,19)	7.1	7.5	8.6	8.9	8.7	8.1
Resource-based Industry(11-15)	12.1	9.1	3.4	6.2	10.7	8.3
Machinery(16-18)	13.8	5.3	13.9	13.8	12.8	11.8
Electricity Gas & Water(20)	12.6	5.7	7.1	9.1	10.6	9.0
Construction(21)	1.0	-1.0	13.1	13.2	11.5	7.4
Services(22-27)	6.1	5.3	7.9	9.3	10.8	7.8
Total	5.8	4.6	6.8	8.6	10.1	7.2

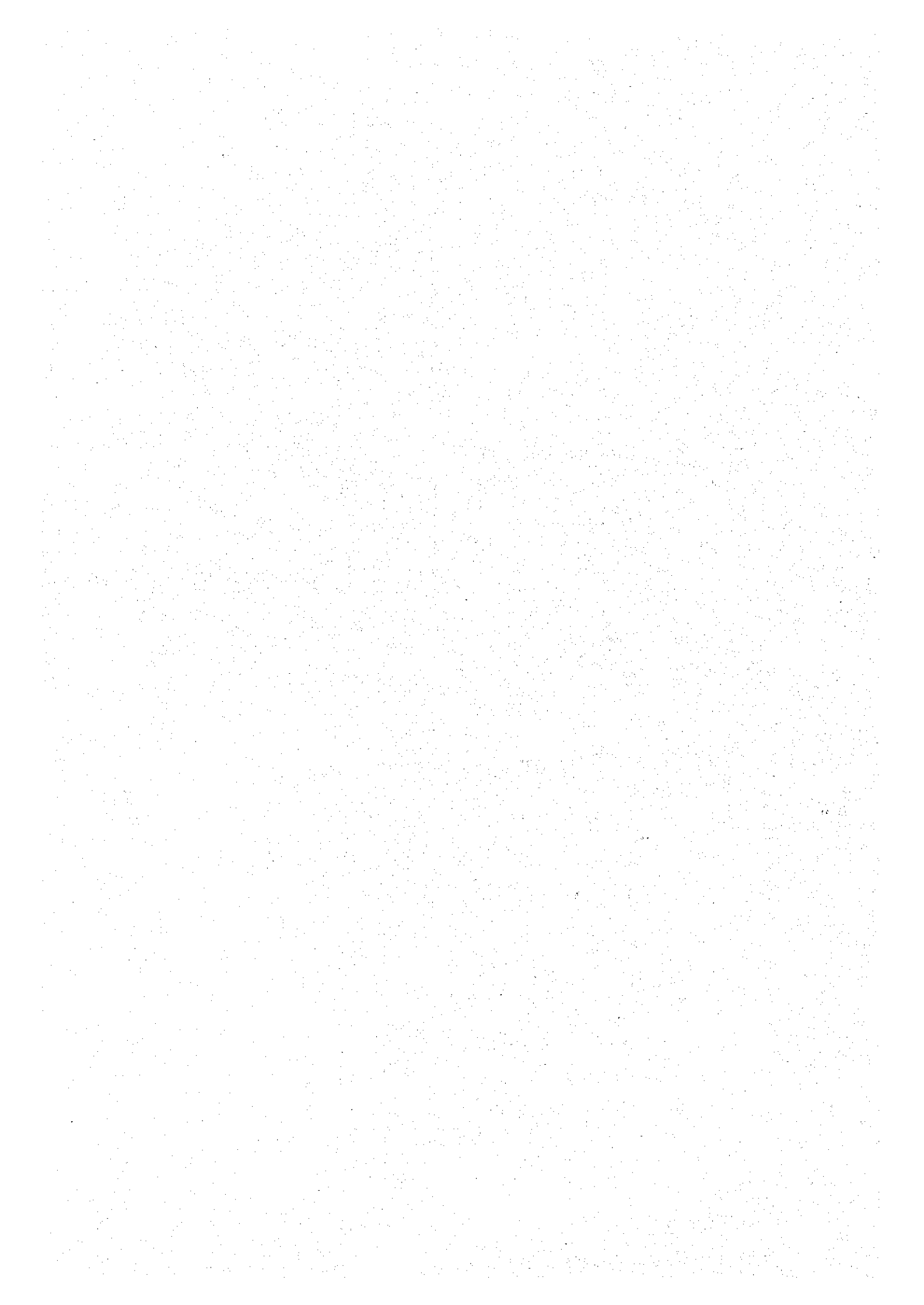
9) Share of GDP by 8 Sectors

(unit %)

Sector	0	1 (R-VI)	2 (R-VII)	3 (R-VIII)	4 (R-IX)	5 (R-X)
Agriculture(1-5)	19.1	16.1	13.5	11.5	10.0	8.9
Mining(6-7)	10.9	9.8	8.2	5.9	4.2	3.1
Manufacturing(8-19)	22.0	26.6	33.9	31.8	33.2	32.5
Light Industry(8-10,19)	11.2	11.9	13.6	14.8	14.9	14.0
Resource-based Industry(11-15)	8.0	10.6	13.1	11.1	10.0	10.3
Machinery(16-18)	2.8	4.1	4.2	5.8	7.3	8.3
Electricity Gas & Water(20)	0.9	1.2	1.2	1.2	1.3	1.3
Construction(21)	7.1	5.6	4.2	3.7	6.9	7.4
Services(22-27)	40.1	40.6	41.9	44.0	45.4	46.8
Total	100.0	100.0	100.0	100.0	100.0	100.0

Appendix 12

Optimum Solutions of Two-Region IOPM under the Current Economic Crisis



1. Optimum Solution

(Case-1)

1) Annual Growth Rate of Output by 26 Sectors

1-1) Java (unit %)						
Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	28	43	09	05	31	23
2 Estate crops	31	144	54	-24	-11	37
3 Livestock	39	69	31	12	60	42
4 Forestry	48	146	46	15	-39	44
5 Fishery	72	144	71	61	46	78
6 Oil & Gas	61	-126	-45	-15	10	-25
7 Non Oil Gas	-78	95	32	85	70	39
8 Food	39	59	24	19	72	42
9 Textile	-96	-21	32	51	67	05
10 Wood	293	135	93	-36	-33	84
11 Paper	44	87	80	78	94	77
12 Chemical	85	18	29	28	45	41
13 Non Metallic	-40	-27	-19	30	38	-04
14 Iron & steel	-102	162	57	142	129	73
15 Non Ferrous metal	64	52	90	114	125	89
16 Fabricated Metal	-145	174	31	125	103	51
17 Machinery	06	136	44	87	86	71
18 Transport Equip	20	94	46	72	79	62
19 Oth manufacturing	06	80	25	58	65	47
20 Elec Gas,Water	35	61	50	47	65	52
21 Construction	-260	279	-12	127	81	76
22 Trade	-13	15	49	73	79	40
23 Restaurant/Hotel	69	146	61	-03	38	61
24 Transportation	51	24	35	36	51	39
25 Finance	44	23	30	19	40	34
27 Oth Service	37	31	25	27	37	31
Total	0.8	6.7	3.6	4.0	6.1	4.2

1-2) Outside Java (unit %)						
Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	42	74	16	17	53	40
2 Estate crops	90	141	78	91	60	92
3 Livestock	69	118	39	46	50	64
4 Forestry	22	38	42	14	18	27
5 Fishery	94	186	113	128	139	132
6 Oil & Gas	-14	-14	04	22	34	06
7 Non Oil Gas	141	-60	41	73	81	53
8 Food	65	127	27	29	60	61
9 Textile	55	75	81	99	112	84
10 Wood	45	52	97	80	52	65
11 Paper	229	-54	120	75	144	99
12 Chemical	196	170	120	124	103	142
13 Non Metallic	37	21	51	39	108	59
14 Iron & steel	121	84	122	140	156	124
15 Non Ferrous metal	296	-48	81	99	130	106
16 Fabricated Metal	87	206	121	139	141	138
17 Machinery	732	94	88	92	109	201
18 Transport Equip	270	78	77	84	95	118
19 Oth manufacturing	224	47	80	90	124	111
20 Elec Gas,Water	65	95	93	116	136	101
21 Construction	106	55	94	98	108	92
22 Trade	62	131	87	88	89	91
23 Restaurant/Hotel	134	261	78	85	88	127
24 Transportation	102	105	83	53	90	86
25 Finance	81	180	72	77	93	100
27 Oth Service	60	117	61	66	18	64
Total	9.9	11.1	8.6	9.3	9.4	9.7

1-3) Java + Outside Java (unit %)						
Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	34	56	12	10	41	30
2 Estate crops	70	142	71	63	48	78
3 Livestock	53	93	35	31	54	53
4 Forestry	26	61	43	15	06	30
5 Fishery	87	173	102	113	124	120
6 Oil & Gas	-02	-31	-01	19	32	03
7 Non Oil Gas	115	-46	40	75	79	51
8 Food	45	77	25	22	68	47
9 Textile	-87	-11	39	60	77	14
10 Wood	94	81	96	40	52	68
11 Paper	68	65	85	77	101	79
12 Chemical	159	137	108	115	99	124
13 Non Metallic	-07	-03	21	62	87	31
14 Iron & steel	-84	152	65	142	133	78
15 Non Ferrous metal	238	-30	83	103	129	101
16 Fabricated Metal	-98	186	68	131	122	77
17 Machinery	67	125	55	88	93	85
18 Transport Equip	39	92	50	73	81	67
19 Oth manufacturing	69	67	47	72	95	70
20 Elec Gas,Water	41	70	61	69	92	66
21 Construction	-80	125	52	108	99	58
22 Trade	17	74	72	83	86	66
23 Restaurant/Hotel	80	172	66	26	58	79
24 Transportation	70	60	61	46	74	62
25 Finance	53	73	48	52	68	59
27 Oth Service	41	49	34	39	31	39
Total	4.4	8.8	6.3	7.2	8.2	7.0

2) Annual Growth Rate of GDP by 26 Sectors

2-1) Java (unit %)						
Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	13	17	-16	-19	06	00
2 Estate crops	19	122	34	-43	-30	19
3 Livestock	32	57	19	00	47	31
4 Forestry	36	125	26	-03	-48	26
5 Fishery	61	125	53	43	29	62
6 Oil & Gas	61	-126	-45	-15	10	-25
7 Non Oil Gas	-78	95	32	85	70	39
8 Food	59	79	44	38	93	63
9 Textile	-78	-02	52	72	88	24
10 Wood	317	157	114	-17	-15	104
11 Paper	64	108	101	99	113	97
12 Chemical	106	38	48	48	65	61
13 Non Metallic	-22	-08	00	50	58	15
14 Iron & steel	-85	184	77	164	151	94
15 Non Ferrous metal	85	72	111	135	146	110
16 Fabricated Metal	-129	197	51	147	125	72
17 Machinery	25	158	64	108	107	91
18 Transport Equip	40	115	67	92	99	82
19 Oth manufacturing	25	101	45	78	86	67
20 Elec Gas,Water	35	62	50	47	65	52
21 Construction	-231	279	-12	127	81	35
22 Trade	-13	15	49	73	79	40
23 Restaurant/Hotel	69	146	61	-03	38	61
24 Transportation	51	24	35	36	51	39
25 Finance	44	25	30	29	40	34
27 Oth Service	37	31	25	27	37	31
Total	2.2	6.1	3.9	4.3	6.7	4.6

2-2) Outside Java (unit %)						
Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	27	48	-08	-08	28	17
2 Estate crops	78	120	58	71	40	73
3 Livestock	62	105	27	33	38	52
4 Forestry	10	19	22	-05	-01	09
5 Fishery	83	166	94	109	120	114
6 Oil & Gas	-14	-14	04	22	34	06
7 Non Oil Gas	141	-60	41	73	81	53
8 Food	65	148	46	48	80	81
9 Textile	76	96	102	121	133	105
10 Wood	65	72	118	100	72	85
11 Paper	252	-36	141	96	166	120
12 Chemical	219	193	142	145	124	164
13 Non Metallic	57	41	71	100	129	79
14 Iron & steel	142	104	144	162	178	146
15 Non Ferrous metal	321	-29	102	120	152	128
16 Fabricated Metal	107	230	143	160	163	160
17 Machinery	765	115	109	113	131	224
18 Transport Equip	295	98	97	105	116	140
19 Oth manufacturing	247	67	101	111	145	133
20 Elec Gas,Water	65	95	93	116	136	101
21 Construction	42	55	94	98	108	79
22 Trade	62	131	87	88	89	91
23 Restaurant/Hotel	134	261	78	85	88	127
24 Transportation	102	105	83	53	90	86
25 Finance	81	180	72	77	93	100
27 Oth Service	60	117	61	66	18	64
Total	8.2	10.8	8.7	9.8	10.2	9.5

2-3) Java + Outside Java (unit %)						
Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	18	30	-13	-14	16	07
2 Estate crops	57	120	51	42	28	59
3 Livestock	45	81	23	19	42	42
4 Forestry	15	44	24	-04	-14	13
5 Fishery	76	153	84	95	105	102
6 Oil & Gas	-02	-31	-01	19	32	03
7 Non Oil Gas	118	-48	40	74	79	51
8 Food	64	94	45	41	90	66
9 Textile	-67	10	60	82	99	35
10 Wood	112	109	117	62	53	88
11 Paper	87	87	105	98	122	100
12 Chemical	182	160	129	137	121	145
13 Non Metallic	07	13	36	79	104	47
14 Iron & steel	-67	175	85	163	155	98
15 Non Ferrous metal	280	-17	103	123	151	124
16 Fabricated Metal	-58	212	100	155	149	108
17 Machinery	93	146	76	109	114	108
18 Transport Equip	60	112	71	94	102	88
19 Oth manufacturing	94	87	69	94	118	92
20 Elec Gas,Water	40	69	61	68	91	66
21 Construction	-70	121	54	107	99	60
22 Trade	16	73	72	83	85	66
23 Restaurant/Hotel	80	171	66	26	58	79
24 Transportation	71	61	61	46	75	63
25 Finance	53	75	48	53	69	60
27 Oth Service	41	51	35	40	30	40
Total	4.8	8.4	6.6	7.7	9.0	7.3

(Case1-1)

3) Annual Growth Rate of Consumption by 26 Sectors

3-1) Java (unit: %)						
Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	20	20	20	20	20	20
2 Estate crops	20	20	20	20	20	20
3 Livestock	20	20	20	20	9.5	3.5
4 Forestry	20	20	20	20	20	20
5 Fishery	20	20	20	20	8.9	3.4
6 Oil & Gas						
7 Non Oil Gas						
8 Food	20	20	20	20	100	3.6
9 Textile	20	20	20	20	20	20
10 Wood	20	20	20	20	100	3.6
11 Paper	20	20	20	20	20	20
12 Chemical	20	20	20	20	100	3.6
13 Non Metallic	20	20	20	20	20	20
14 Iron & steel						
15 Non Ferrous metal						
16 Fabricated Metal	20	20	20	20	20	20
17 Machinery	20	20	20	20	20	20
18 Transport Equip	20	20	20	20	20	20
19 Oth manufacturing	20	20	20	20	20	20
20 Elec Gas, Water	20	20	20	20	20	20
21 Construction	20	20	20	20	20	20
22 Trade	20	20	100	100	100	6.7
23 Restaurant, Hotel	20	20	20	20	100	3.6
24 Transportation	20	20	20	20	20	20
25 Finance	20	20	20	20	20	20
27 Oth. Service	20	20	20	20	20	20
Total	20	20	2.6	2.8	6.7	3.2

3-2) Outside Java (unit: %)						
Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	20	20	20	20	100	3.6
2 Estate crops	20	20	20	20	20	20
3 Livestock	20	20	3.5	100	100	5.4
4 Forestry	20	20	20	20	20	20
5 Fishery	20	20	7.9	100	100	6.3
6 Oil & Gas						
7 Non Oil Gas						
8 Food	20	20	20	20	100	3.6
9 Textile	20	20	20	20	20	20
10 Wood	20	20	20	20	100	3.6
11 Paper	20	20	20	20	100	3.6
12 Chemical	20	20	20	100	100	5.1
13 Non Metallic	20	20	20	20	20	20
14 Iron & steel						
15 Non Ferrous metal						
16 Fabricated Metal	20	20	20	100	100	5.1
17 Machinery	20	20	20	20	100	3.6
18 Transport Equip	20	20	20	20	20	20
19 Oth manufacturing	20	20	20	20	100	3.6
20 Elec Gas, Water	20	20	20	20	20	20
21 Construction	20	20	20	20	20	20
22 Trade	20	20	100	100	100	6.7
23 Restaurant, Hotel	20	20	20	100	100	5.1
24 Transportation	20	20	20	20	100	3.6
25 Finance	20	20	20	20	100	3.6
27 Oth. Service	20	20	20	20	20	20
Total	20	20	3.1	4.7	9.0	4.2

3-3) Java + Outside Java (unit: %)						
Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	20	20	20	20	5.5	2.7
2 Estate crops	20	20	20	20	20	20
3 Livestock	20	20	2.5	5.3	9.7	4.3
4 Forestry	20	20	20	20	20	20
5 Fishery	20	20	5.5	7.3	9.7	5.3
6 Oil & Gas						
7 Non Oil Gas						
8 Food	20	20	20	20	100	3.6
9 Textile	20	20	20	20	20	20
10 Wood	20	20	20	20	100	3.6
11 Paper	20	20	20	20	4.1	2.4
12 Chemical	20	20	20	4.7	10.0	4.1
13 Non Metallic	20	20	20	20	20	20
14 Iron & steel						
15 Non Ferrous metal						
16 Fabricated Metal	20	20	20	5.4	6.1	3.5
17 Machinery	20	20	20	20	4.8	2.5
18 Transport Equip	20	20	20	20	20	20
19 Oth manufacturing	20	20	20	20	4.7	2.5
20 Elec Gas, Water	20	20	20	20	20	20
21 Construction	20	20	20	20	20	20
22 Trade	20	20	100	100	100	6.7
23 Restaurant, Hotel	20	20	20	4.5	100	4.1
24 Transportation	20	20	20	20	4.4	2.5
25 Finance	20	20	20	20	4.6	2.5
27 Oth. Service	20	20	20	20	20	20
Total	20	20	2.8	3.5	7.6	3.6

4) Annual Growth Rate of Investment

4) Annual Growth Rate of Investment (unit: %)						
	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
Java	-33.3	38.0	-1.8	14.4	8.6	2.3
Outside Java	9.3	5.4	9.6	9.9	10.8	9.0
Total (Java + Outside Java)	-9.0	12.6	5.8	11.2	10.1	5.8

5) Annual Growth Rate of Capital stock

5) Annual Growth Rate of Capital stock (unit: %)						
	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
Java	0.2	4.5	3.1	5.6	6.4	3.9
Outside Java	8.1	7.2	8.0	8.7	9.5	8.3
Total (Java + Outside Java)	3.8	5.9	5.8	7.5	8.4	6.3

6) Annual Growth Rate of Export by 26 Sectors

6-1) Java (unit: %)						
Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	24.6	35.1	-4.4	-4.4	-4.4	8.0
2 Estate crops	24.6	35.1	8.4	-4.4	-4.4	10.8
3 Livestock	24.6	35.1	8.4	8.4	8.4	16.5
4 Forestry	24.6	35.1	8.4	8.4	-4.4	13.6
5 Fishery	24.6	35.1	8.4	8.4	-4.4	13.6
6 Oil & Gas	17.1	-20.4	-4.4	-4.4	-4.4	-4.0
7 Non Oil/Gas	-16.7	-20.4	-4.4	-4.4	-4.4	-10.3
8 Food	17.1	27.0	1.9	1.9	-4.4	8.1
9 Textile	-16.7	-20.4	-4.4	-4.4	-4.4	-10.3
10 Wood	32.0	13.1	9.7	-4.4	-4.4	8.4
11 Paper	-16.8	-20.4	-4.4	-4.4	-4.4	-10.3
12 Chemical	22.1	-20.4	-4.4	-4.4	-4.4	-3.2
13 Non Metallic	32.0	-20.4	-4.4	-4.4	-4.4	-1.7
14 Iron & steel	-16.7	-20.4	-4.4	-4.4	-4.4	-10.3
15 Non Ferrous metal	-16.8	-20.4	-4.4	-4.4	-4.4	-10.3
16 Fabricated Metal	-16.8	-20.4	-4.4	-4.4	-4.4	-10.3
17 Machinery	-16.7	-20.4	-4.4	-4.4	-4.4	-10.3
18 Transport Equip	-16.7	-20.4	-4.4	-4.4	-4.4	-10.3
19 Other manufacturing	-16.7	-20.4	-4.4	-4.4	-4.4	-10.3
20 Elec Gas, Water						
21 Construction						
22 Trade	11.2	-20.4	8.4	6.4	8.4	2.1
23 Restaurant/Hotel	24.6	35.1	8.4	-4.4	-4.4	10.8
24 Transportation	24.6	-20.4	-4.4	-4.4	-4.4	-2.8
25 Finance	24.6	-20.4	-4.4	-4.4	-4.4	-2.8
27 Other Service	24.6	3.2	-4.4	-4.4	-4.4	2.4
Total	10.5	5.2	5.9	-2.1	-3.4	3.1

6-2) Outside Java (unit: %)						
Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	24.6	35.1	8.4	8.4	-4.4	13.6
2 Estate crops	24.6	35.1	8.4	8.4	-4.4	13.6
3 Livestock	24.6	35.1	8.4	8.4	8.4	16.5
4 Forestry	-16.7	-20.4	-4.4	-4.4	-4.4	-10.3
5 Fishery	24.6	35.1	8.4	8.4	8.4	16.5
6 Oil & Gas	-12.1	-20.4	-4.4	-4.4	-4.4	-9.3
7 Non Oil/Gas	32.0	-20.4	-4.4	-4.4	-4.4	-1.7
8 Food	17.1	27.0	1.9	1.9	1.9	9.5
9 Textile	-16.7	-20.4	-4.4	-4.4	14.9	-7.0
10 Wood	8.8	1.2	10.0	6.6	1.7	5.6
11 Paper	32.0	-20.4	14.9	-4.4	14.9	5.8
12 Chemical	32.0	20.1	14.3	14.9	12.8	18.6
13 Non Metallic	-16.7	-20.4	-4.4	-4.4	-4.4	-10.3
14 Iron & steel	-16.8	-20.4	-4.4	-4.4	-4.4	-10.3
15 Non Ferrous metal	32.0	-20.4	-4.4	-4.4	14.9	7.0
16 Fabricated Metal	32.0	43.1	14.9	14.9	14.9	23.4
17 Machinery	-16.8	-20.4	-4.4	-4.4	-4.4	-10.3
18 Transport Equip	-16.8	-20.4	-4.4	-4.4	-4.4	-10.3
19 Other manufacturing	32.0	-20.4	14.9	14.9	14.9	9.8
20 Elec Gas, Water						
21 Construction						
22 Trade	1.5	35.1	8.4	8.4	8.4	11.8
23 Restaurant/Hotel	24.6	35.1	8.4	8.4	8.4	16.5
24 Transportation	24.6	15.1	8.4	-4.4	-3.9	7.4
25 Finance	24.6	35.1	8.4	8.4	8.4	16.5
27 Other Service	24.6	35.1	8.4	8.4	-4.4	13.6
Total	12.6	17.3	10.6	11.1	10.3	13.4

6-3) Java + Outside Java (unit: %)						
Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	24.6	35.1	3.6	5.3	-4.4	11.9
2 Estate crops	24.6	35.1	8.4	2.0	-4.4	12.2
3 Livestock	24.6	35.1	8.4	8.4	8.4	16.5
4 Forestry	14.8	33.1	8.4	8.4	-4.4	11.4
5 Fishery	24.6	35.1	8.4	8.4	1.9	15.1
6 Oil & Gas	-6.8	-20.4	-4.4	-4.4	-4.4	-8.3
7 Non Oil/Gas	31.4	-20.4	-4.4	-4.4	-4.4	-1.8
8 Food	17.1	27.0	1.9	1.9	-0.4	9.0
9 Textile	-16.7	-20.4	-4.4	-4.4	-4.1	-10.3
10 Wood	15.6	6.8	9.8	1.1	-0.7	6.4
11 Paper	10.3	-20.4	12.6	-4.4	13.9	1.5
12 Chemical	29.8	16.2	13.9	14.7	12.7	17.3
13 Non Metallic	25.2	-20.4	-4.4	-4.4	-4.4	-2.7
14 Iron & steel	-16.8	-20.4	-4.4	-4.4	-4.4	-10.3
15 Non Ferrous metal	22.8	-20.4	-4.4	-4.4	14.2	0.4
16 Fabricated Metal	-5.3	27.1	14.2	14.6	14.8	12.6
17 Machinery	-16.7	-20.4	-4.4	-4.4	-4.4	-10.3
18 Transport Equip	-16.7	-20.4	-4.4	-4.4	-4.4	-10.3
19 Other manufacturing	-9.2	-20.4	4.9	9.0	12.0	-1.6
20 Elec Gas, Water						
21 Construction						
22 Trade	7.4	11.0	8.4	8.2	8.4	8.7
23 Restaurant/Hotel	24.6	35.1	8.4	1.2	3.2	13.8
24 Transportation	24.6	2.1	6.8	-4.4	-4.0	4.5
25 Finance	24.6	13.5	7.4	7.8	8.1	12.1
27 Other Service	24.6	19.6	5.3	6.5	-4.4	9.8
Total	13.5	13.2	9.4	8.6	8.8	10.9

7) Annual Growth Rate of Import by 26 Sectors

7-1) Java (unit: %)						
Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	-4.7	0.2	-0.2	-1.3	2.9	-0.7
2 Estate crops	-5.4	-0.1	-0.2	-2.6	0.8	-1.5
3 Livestock	-1.4	5.5	3.1	0.3	4.1	2.3
4 Forestry	2.4	10.5	2.6	-4.8	-3.2	1.4
5 Fishery	-4.1	8.4	8.4	5.6	9.2	5.4
6 Oil & Gas	-1.5	-3.7	-8.3	-8.8	-9.4	-7.4
7 Non Oil/Gas	-13.6	13.2	0.6	7.9	4.8	2.2
8 Food	-10.4	-3.0	1.6	-1.6	7.2	-2.3
9 Textile	-10.5	-3.6	2.4	3.4	5.5	-0.8
10 Wood	-16.0	20.5	4.4	6.5	3.5	3.1
11 Paper	4.8	8.8	8.4	7.8	9.4	7.8
12 Chemical	-3.7	3.6	1.9	0.7	1.7	0.8
13 Non Metallic	-24.7	12.7	-4.8	2.8	1.3	-3.4
14 Iron & steel	-13.7	19.3	3.9	14.2	11.9	6.5
15 Non Ferrous metal	-6.5	12.6	6.0	12.8	12.3	7.2
16 Fabricated Metal	-18.5	22.5	1.7	13.0	9.6	4.7
17 Machinery	-8.3	4.4	2.5	5.4	5.0	1.7
18 Transport Equip	-5.7	1.4	3.5	4.5	5.3	1.7
19 Other manufacturing	-8.2	-0.2	2.4	4.0	4.6	0.4
20 Elec Gas, Water	3.7	7.5	3.7	5.3	7.2	5.9
21 Construction						
22 Trade						
23 Restaurant/Hotel	-11.8	-6.9	7.0	2.1	3.6	-2.4
24 Transportation	-5.5	2.7	3.7	2.7	4.0	1.5
25 Finance	-2.6	4.1	3.5	3.7	4.5	2.5
27 Other Service	0.6	1.0	0.8	0.6	1.2	0.6
Total	-6.7	-4.0	2.7	4.9	5.8	2.1

7-2) Outside Java (unit: %)						
Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	-3.4	6.4	0.4	0.1	2.5	1.1
2 Estate crops	7.5	12.3	8.4	10.0	8.2	9.3
3 Livestock	2.0	12.3	3.4	2.8	2.4	4.5
4 Forestry	1.1	1.1	4.5	2.7	1.8	2.2
5 Fishery	2.1	19.0	12.4	14.0	15.0	12.3
6 Oil & Gas	7.5	4.1	0.0	0.5	-0.3	2.3
7 Non Oil/Gas	12.7	3.3	8.5	9.5	19.1	8.8
8 Food	-11.2	-1.5	3.8	5.0	5.9	0.2
9 Textile	1.6	7.6	9.2	11.1	12.1	8.2
10 Wood	19.4	7.9	11.3	10.0	8.5	9.6
11 Paper	-2.4	12.6	15.1	15.4	16.6	11.2
12 Chemical	12.7	14.6	9.2	6.9	1.1	8.8
13 Non Metallic	5.2	1.7	5.5	8.3	11.3	6.3
14 Iron & steel	14.7	8.9	12.6	14.4	16.0	13.3
15 Non Ferrous metal	29.1	4.4	10.5	11.3	12.9	13.4
16 Fabricated Metal	10.1	8.0	11.6	12.9	14.1	11.3
17 Machinery	-8.8	-1.4	9.2	11.0	12.1	4.1
18 Transport Equip	-7.0	2.4	8.5	8.3	11.7	4.6
19 Other manufacturing	-5.9	5.1	11.4	13.2	18.2	8.1
20 Elec Gas, Water	10.9	14.9	12.3	14.1	15.4	13.5
21 Construction						
22 Trade						
23 Restaurant/Hotel	-10.9	-2.6	8.2	11.2	13.1	3.4
24 Transportation	2.4	9.2	10.2	10.3	12.2	8.8
25 Finance	-5.4	4.6	8.4	10.2	11.5	5.8
27 Other Service	1.9	3.3	3.6	4.9	7.2	4.2
Total	2.2	8.3	9.0	8.9	8.1	7.3

7-3) Java + Outside Java (unit: %)						
Sector	0-1 (R-VI)	1-2 (R-VII)	2-3 (R-VIII)	3-4 (R-IX)	4-5 (R-X)	0-5 Average
1 Farm food	-1.5	1.1	-0.1	-1.1	2.8	-0.4
2 Estate crops	-2.9	3.8	3.5	4.4	5.8	2.9
3 Livestock	-1.1	6.3	3.2	0.7	3.8	2.5
4 Forestry	1.6	5.3	3.6	-0.6	0.0	1.9
5 Fishery	-3.4	10.2	9.3	7.9	11.1	6.9
6 Oil & Gas	5.1	1.7	-0.9	-0.2	-0.8	1.0
7 Non Oil/Gas	-7.1	9.5	3.3	6.5	7.1	4.1
8 Food	-10.4	-2.8	1.9	-0.8	2.8	-2.0
9 Textile	-10.2	-3.1	2.8	4.1	6.3	-0.2
10 Wood	-9.9	16.2	6.4	7.8	5.5	4.8
11 Paper	4.3	9.1	8.9	8.6	10.4	8.2
12 Chemical	1.2	8.6	6.0	4.7	1.3	4.3
13 Non Metallic	-20.2	9.7	-2.2	4.6	5.4	-1.2
14 Iron & steel	-7.3	15.8	6.7	14.3	13.5	8.3
15 Non Ferrous metal	-2.9	11.1	6.7	12.5	12.4	7.8
16 Fabricated Metal	-5.8	13.8	7.2	12.9	12.5	7.9
17 Machinery	-8.4	3.3	3.7	6.6	7.0	2.3
18 Transport Equip	-5.9	1.5	4.3	5.3	6.8	2.3
19 Other manufacturing	-7.6	1.5	6.0	8.7	13.1	4.1
20 Elec Gas, Water	4.4	8.5	6.9	7.4	9.7	7.4
21 Construction						
22 Trade						
23 Restaurant/Hotel	-11.6	-6.0	3.6	5.1	7.7	-0.5
24 Transportation	-3.8	4.5	6.0	6.0	8.3	4.1
25 Finance	-3.1	4.2	4.4	4.8	6.9	3.4
27 Other Service	0.9	1.5	1.5	1.7	3.1	1.7
Total	-4.7	5.3	4.8	6.5	6.8	3.6

8) Share of GDP by 26 Sectors

8-1) Java (unit: %)						
Sector	0	1	2	3	4	5
		(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)
1 Farm food	11.1	10.6	8.6	6.5	4.8	3.6
2 Estate crops	1.9	1.8	2.4	2.4	1.5	1.0
3 Livestock	1.9	2.0	1.9	1.8	1.4	1.3
4 Forestry	0.6	0.7	0.9	0.8	0.7	0.4
5 Fishery	1.2	1.4	1.9	2.0	2.0	1.7
6 Oil & Gas	1.7	2.1	0.8	0.5	0.4	0.3
7 Non Oil Gas	0.7	0.4	0.5	0.5	0.6	0.6
8 Food	11.7	14.0	15.2	15.5	15.2	17.1
9 Textile	3.5	2.1	1.5	1.6	1.9	2.1
10 Wood	0.4	1.3	2.0	2.8	2.1	1.4
11 Paper	1.3	1.6	2.0	2.7	3.5	4.3
12 Chemical	3.7	5.4	4.9	5.1	5.2	5.2
13 Non Metallic	0.7	0.6	0.4	0.3	0.4	0.3
14 Iron & steel	0.9	0.5	0.9	1.1	1.9	2.7
15 Non Ferrous metal	0.1	0.1	0.1	0.2	0.2	0.3
16 Fabricated Metal	0.8	0.3	0.6	0.7	1.1	1.4
17 Machinery	2.6	2.6	4.0	4.5	6.1	7.4
18 Transport Equip	1.3	1.4	1.8	2.0	2.6	3.0
19 Other manufacturing	0.2	0.2	0.2	0.2	0.3	0.3
20 Elec Gas, Water	1.5	1.6	1.6	1.6	1.7	1.7
21 Construction	6.9	1.7	4.2	3.3	4.8	5.2
22 Trade	13.4	11.3	9.0	9.5	10.9	11.5
23 Restaurant/Hotel	5.0	6.2	9.1	10.1	8.1	7.0
24 Transportation	8.0	9.2	7.7	7.5	7.3	6.8
25 Finance	11.8	13.1	11.0	10.5	9.8	8.7
27 Other Service	7.2	7.7	6.7	6.2	5.7	5.0
Total	100.0	100.0	100.0	100.0	100.0	100.0

8-2) Outside Java (unit: %)						
Sector	0	1	2	3	4	5
		(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)
1 Farm food	9.6	7.4	5.6	3.5	2.1	1.5
2 Estate crops	4.5	4.4	4.7	4.1	3.6	2.7
3 Livestock	2.2	2.0	2.0	1.5	1.1	0.8
4 Forestry	4.1	2.9	1.9	1.4	0.9	0.5
5 Fishery	3.5	3.5	4.5	4.7	4.9	5.3
6 Oil & Gas	16.1	10.2	5.7	3.8	2.7	1.9
7 Non Oil Gas	5.8	7.5	3.3	2.7	2.4	2.2
8 Food	3.6	3.6	4.3	3.6	2.8	2.6
9 Textile	0.3	0.3	0.3	0.3	0.3	0.4
10 Wood	3.7	3.4	2.9	3.3	3.3	2.9
11 Paper	0.2	0.4	0.2	0.3	0.2	0.3
12 Chemical	9.4	17.0	24.5	31.3	38.6	42.7
13 Non Metallic	0.5	0.5	0.3	0.3	0.3	0.4
14 Iron & steel	0.1	0.1	0.1	0.1	0.2	0.2
15 Non Ferrous metal	0.4	1.0	0.5	0.5	0.6	0.8
16 Fabricated Metal	0.3	0.3	0.5	0.7	0.9	1.2
17 Machinery	0.1	1.2	1.2	1.4	1.5	1.7
18 Transport Equip	0.1	0.2	0.2	0.2	0.3	0.3
19 Other manufacturing	0.1	0.2	0.1	0.1	0.1	0.2
20 Elec Gas, Water	0.5	0.5	0.4	0.4	0.5	0.6
21 Construction	8.0	6.7	5.2	5.4	5.4	5.5
22 Trade	11.1	10.1	11.2	11.2	10.7	10.1
23 Restaurant/Hotel	1.3	1.6	3.1	3.0	2.8	2.6
24 Transportation	6.9	7.6	7.5	7.4	6.0	5.6
25 Finance	5.3	5.2	7.2	6.7	6.1	5.8
27 Other Service	2.5	2.2	2.3	2.1	1.8	1.2
Total	100.0	100.0	100.0	100.0	100.0	100.0

8-3) Java + Outside Java (unit: %)						
Sector	0	1	2	3	4	5
		(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)
1 Farm food	10.5	9.1	7.0	4.8	3.1	2.2
2 Estate crops	2.9	3.1	3.6	3.4	2.9	2.1
3 Livestock	2.0	2.0	2.0	1.6	1.2	1.0
4 Forestry	2.0	1.7	1.4	1.2	0.8	0.5
5 Fishery	2.1	2.4	3.3	3.6	3.9	4.1
6 Oil & Gas	7.6	5.9	3.4	2.4	1.9	1.4
7 Non Oil Gas	2.7	3.8	2.0	1.7	1.7	1.6
8 Food	8.4	9.1	9.5	8.6	7.2	7.2
9 Textile	2.2	1.2	0.9	0.9	0.9	0.9
10 Wood	1.7	2.3	2.5	3.1	2.9	2.4
11 Paper	0.9	1.0	1.0	1.3	1.4	1.6
12 Chemical	6.0	10.9	15.2	20.4	26.7	30.7
13 Non Metallic	0.6	0.5	0.4	0.3	0.3	0.4
14 Iron & steel	0.6	0.3	0.5	0.5	0.8	1.0
15 Non Ferrous metal	0.2	0.5	0.3	0.4	0.5	0.6
16 Fabricated Metal	0.6	0.3	0.6	0.7	1.0	1.3
17 Machinery	1.6	1.9	2.6	2.7	3.1	3.5
18 Transport Equip	0.8	0.9	1.0	1.0	1.1	1.1
19 Other manufacturing	0.1	0.2	0.2	0.2	0.2	0.2
20 Elec Gas, Water	1.1	1.0	1.0	0.9	0.9	0.9
21 Construction	7.4	4.0	4.8	4.5	5.2	5.4
22 Trade	12.5	10.7	10.2	10.5	10.8	10.5
23 Restaurant/Hotel	3.5	4.0	6.0	6.0	4.7	4.0
24 Transportation	7.6	8.5	7.6	7.4	6.4	6.0
25 Finance	9.2	9.4	9.0	8.3	7.4	6.7
27 Other Service	5.3	5.1	4.4	3.8	3.2	2.4
Total	100.0	100.0	100.0	100.0	100.0	100.0

9) Annual Growth Rate of GDP by 8 Sectors

9-1) Java (unit: %)						
Sector	0-1	1-2	2-3	3-4	4-5	0-5
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
Agriculture(1-5)	2.1	5.1	0.8	-0.9	0.9	1.6
Mining(6-7)	2.9	-7.3	-1.3	3.6	4.7	0.4
Manufacturing(8-19)	4.4	8.5	5.8	6.2	9.3	6.8
Light Industry(8-10,19)	4.4	7.8	5.3	3.5	8.3	5.8
Resource-based Industry(11-15)	6.6	6.2	6.4	8.0	9.9	7.4
Machinery(16-18)	1.0	14.8	6.4	10.7	10.7	8.6
Electricity Gas & Water(20)	3.5	6.2	5.0	4.7	6.5	5.2
Construction(21)	-23.1	27.9	-1.2	17.7	8.1	3.5
Services(22-27)	3.1	4.3	4.1	3.3	5.2	4.0
Total	2.2	6.1	3.9	4.3	6.7	4.6

9-2) Outside Java (unit: %)						
Sector	0-1	1-2	2-3	3-4	4-5	0-5
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
Agriculture(1-5)	4.7	9.0	4.3	5.8	6.9	6.1
Mining(6-7)	3.7	-3.3	1.9	4.4	5.7	2.4
Manufacturing(8-19)	17.5	15.9	12.7	13.3	12.1	14.3
Light Industry(8-10,19)	7.8	11.2	7.9	7.7	8.1	8.5
Resource-based Industry(11-15)	21.7	17.8	14.0	14.4	12.5	16.0
Machinery(16-18)	39.8	13.7	11.7	12.7	14.1	18.0
Electricity Gas & Water(20)	6.5	9.5	9.3	11.6	13.6	10.1
Construction(21)	4.2	5.5	9.4	9.8	10.8	7.9
Services(22-27)	8.0	14.3	8.0	7.6	8.6	9.3
Total	8.2	10.8	8.7	9.8	10.2	9.5

9-3) Java + Outside Java (unit: %)						
Sector	0-1	1-2	2-3	3-4	4-5	0-5
(IO Code)	(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)	Average
Agriculture(1-5)	3.4	7.2	2.9	3.4	5.2	4.4
Mining(6-7)	3.6	-3.8	1.5	4.4	5.6	2.2
Manufacturing(8-19)	9.3	12.1	9.7	10.8	11.2	10.6
Light Industry(8-10,19)	5.3	8.8	6.1	5.0	8.2	6.7
Resource-based Industry(11-15)	15.4	14.5	12.5	13.4	12.2	13.6
Machinery(16-18)	6.1	14.5	7.9	11.4	11.9	10.3
Electricity Gas & Water(20)	4.0	6.9	6.1	6.8	9.1	6.6
Construction(21)	-7.0	12.1	5.4	10.7	9.9	6.0
Services(22-27)	4.6	8.1	5.9	5.5	7.1	6.2
Total	4.8	8.4	6.6	7.7	9.0	7.3

10) Share of GDP by 8 Sectors

10-1) Java (unit: %)						
Sector	0	1	2	3	4	5
(IO Code)		(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)
Agriculture(1-5)	16.7	16.6	15.8	13.6	10.5	7.9
Mining(6-7)	2.4	2.5	1.3	1.0	0.9	0.9
Manufacturing(8-19)	27.1	30.2	33.7	36.7	40.3	45.5
Light Industry(8-10,19)	15.8	17.6	18.9	20.2	19.4	20.9
Resource-based Industry(11-15)	6.7	8.3	8.3	9.3	11.1	12.9
Machinery(16-18)	4.6	4.4	6.5	7.2	9.8	11.7
Electricity Gas & Water(20)	1.5	1.6	1.6	1.6	1.7	1.7
Construction(21)	6.9	1.7	4.2	3.3	4.8	5.2
Services(22-27)	45.5	47.6	43.5	43.8	41.8	38.9
Total	100.0	100.0	100.0	100.0	100.0	100.0

10-2) Outside Java (unit: %)						
Sector	0	1	2	3	4	5
(IO Code)		(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)
Agriculture(1-5)	23.9	20.3	18.2	15.2	12.6	10.8
Mining(6-7)	21.9	17.7	9.0	6.5	5.0	4.1
Manufacturing(8-19)	18.6	28.1	35.3	42.2	49.2	53.6
Light Industry(8-10,19)	7.6	7.5	7.6	7.3	6.7	6.0
Resource-based Industry(11-15)	10.5	18.9	25.7	32.5	39.9	44.4
Machinery(16-18)	0.5	1.8	2.0	2.3	2.6	3.2
Electricity Gas & Water(20)	0.5	0.5	0.4	0.4	0.5	0.6
Construction(21)	8.9	6.7	5.2	5.4	5.4	5.5
Services(22-27)	27.0	26.8	31.3	30.3	27.3	25.4
Total	100.0	100.0	100.0	100.0	100.0	100.0

10-3) Java + Outside Java (unit: %)						
Sector	0	1	2	3	4	5
(IO Code)		(R-VI)	(R-VII)	(R-VIII)	(R-IX)	(R-X)
Agriculture(1-5)	19.6	18.3	17.3	14.5	11.8	9.9
Mining(6-7)	19.3	9.7	5.3	4.7	3.6	3.1
Manufacturing(8-19)	23.7	29.2	34.5	39.9	46.0	51.0
Light Industry(8-10,19)	12.5	12.8	13.0	12.7	11.2	10.8
Resource-based Industry(11-15)	8.2	13.3	17.5	22.9	29.7	34.3
Machinery(16-18)	2.9	3.1	4.1	4.4	5.2	5.9
Electricity Gas & Water(20)	1.1	1.0	1.0	0.9	0.9	0.9
Construction(21)	7.4	4.0	4.8	4.5	5.2	5.4
Services(22-27)	38.0	37.7	37.1	35.9	32.5	29.7
Total	100.0	100.0	100.0	100.0	100.0	100.0

Member List

National Development Planning Agency (BAPPENAS)

Dr. Soekarno Wirokartono, Deputy Chairman for Fiscal & Monetary Affairs
Dr. Tirta Hidayat, Head Bureau of Macro Economic Planning and Research
Dr. Komara Djaja, Head Bureau of Balance of Payment
Dr. Sumarno Suromo, Head Bureau of Monetary Affairs and State Finance
Drs. Irawan Kadiman, MA. ,Head Bureau of Economic Analysis and Statistics
Dr. Bambang Widiyanto, Head Bureau of Economic Analysis and Statistics
Ir. Wismana Adi Suryabrata, Bureau of Monetary Affairs and State Finance
Ir. Budi Sektiadji, Bureau of Macro Economic Planning and Research
Ir. Tb.A.Chusni, Bureau of Economic Analysis and Statistics

JICA Steering Committee

(Chairman)Dr. Takao Fukuchi, Professor, Asahi University
Mr. Makoto Nobukuni, Professor, Nagoya City University
Mr. Koichi Nidaira, Professor, Keiai University
Mr. Norihisa Sakurai, Senior Research Economist,
Central Research Institute of Electric Power Industry
Dr. Suminori Tokunaga, Professor, Reitaku University
Mr. Masahiro Yamashita, Development Specialist, JICA
Dr. Noriyoshi Oguchi, Professor, Senshu University
Mr. Hisashi Yokoyama, Professor, Tuda University
Mr. Koichi Ohno, Senior Research Fellow, Institute of Developing Economies
Mr. Masaaki Komatsu, Professor, Hiroshima University
Dr. Masaru Kagatsume, Professor, Kyoto University
Dr. Toru Ogawara, Research Fellow, Social System Group Leader,
Central Research Institute of Electric Power Industry
Mr. Minoru Soeya, Official, The Ministry of Foreign Affairs
Mr. Hiroyuki Taguchi, Senior Assistant to the Director, Economic Planning Agency
Mr. Takao Arai, Staff Lecturer, Asia University
Ms. Haruko Nokita, Staff Lecturer, Hiroshima University of Economics

JICA Study Team

(Leader) Mr. Tomohiro Abe, Daiwa Institute of Research Ltd.
Dr. Osamu Takenaka, Professor, Tokai University
Mr. Kannosuke Saito, Vice President, Asahigawaso Medical Welfare Academy
Mr. Mamoru Obayashi, Professor, Senshu University
Mr. Takeshi Kikuchi, Engineering Consulting Firms Association, Japan
Mr. Shun'ichiro Nakauchi, Daiwa Institute of Research Ltd.
Mr. Aiichiro Endo, Daiwa Institute of Research Ltd.
Mr. Hidekazu Tanaka, Engineering Consulting Firms Association, Japan
Ms. Michiko Hatakeyama, Engineering Consulting Firms Association, Japan
Mr. Hideyo Shimazu, Engineering Consulting Firms Association, Japan
Mr. Naoki Tsubone, Daiwa Institute of Research Ltd.
Mr. Seiichiro Sato, Daiwa Institute of Research Ltd.
Mr. Shinji Omoteyama, The Institute of Energy Economics, Japan
Mr. Masami Haseyama, Daiwa Institute of Research Ltd.
Mr. Akio Takabayashi, Daiwa Institute of Research Ltd.

Japan International Cooperation Agency (JICA)

Mr. Tatsuhiko Ikeda, Managing Director, Social Development Study Department
Mr. Takao Kaibara, Director, First Social Development Study Division
Mr. Hidenori Kumagai, First Social Development Study Division
Mr. Koichi Kito, First Social Development Study Division
Mr. Hiroyuki Mori, First Social Development Study Division

JICA