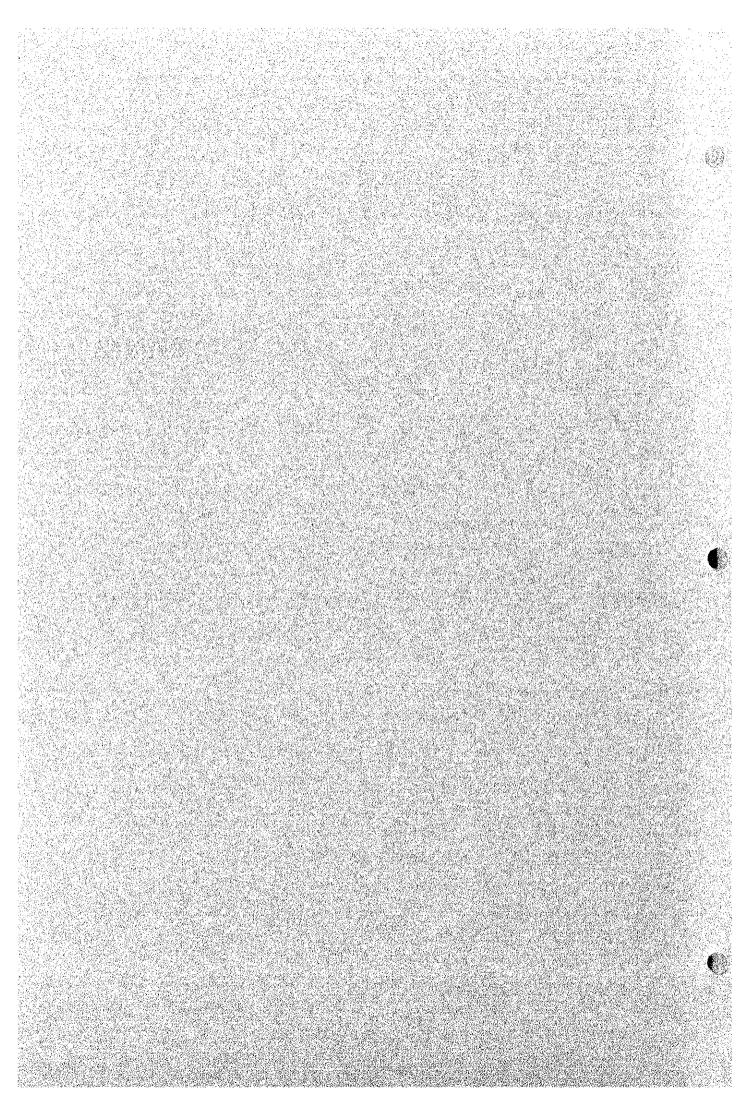
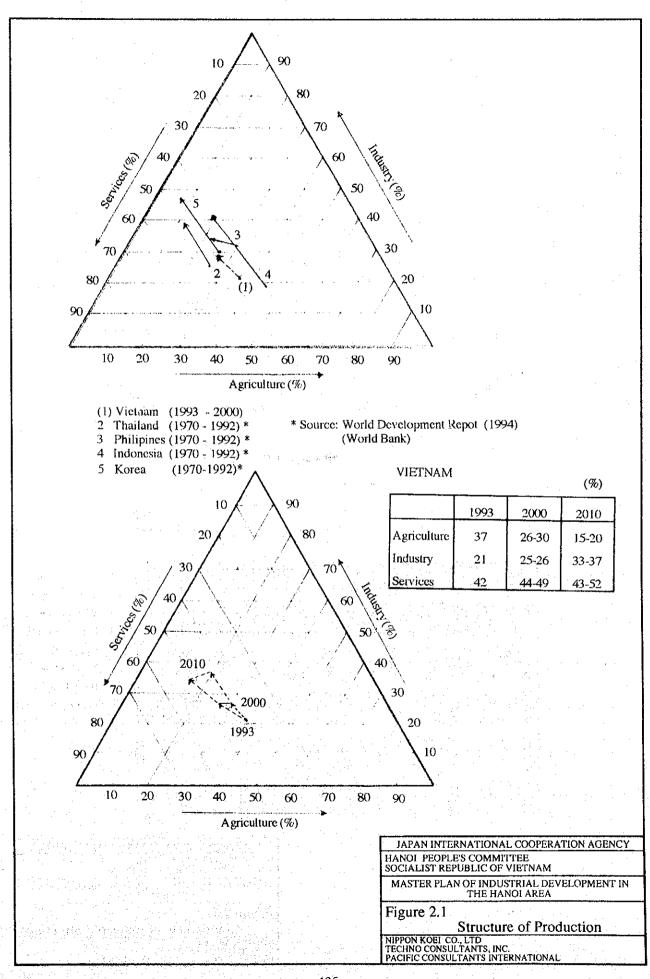
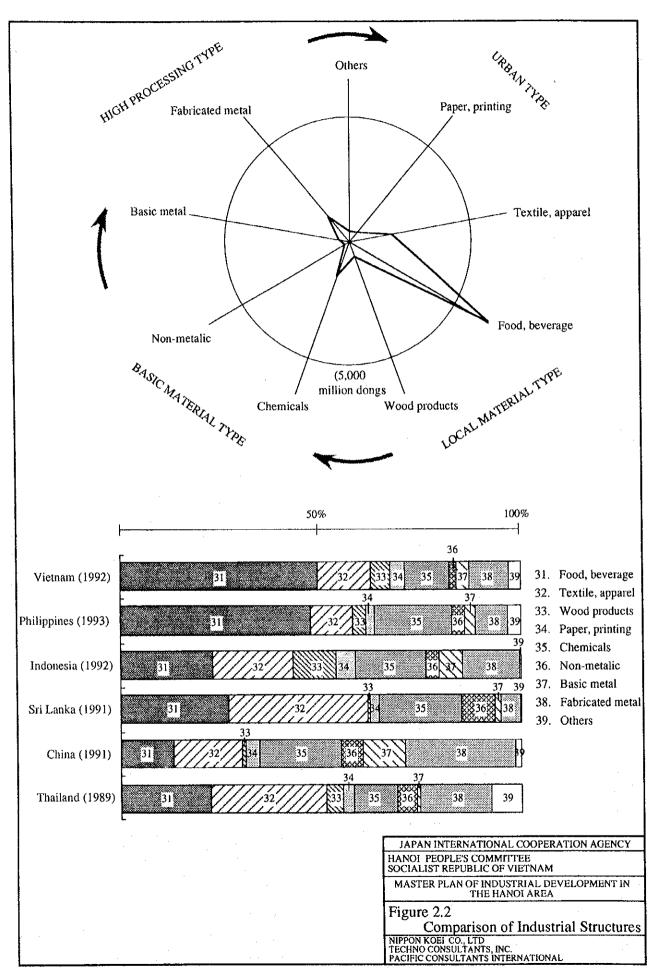
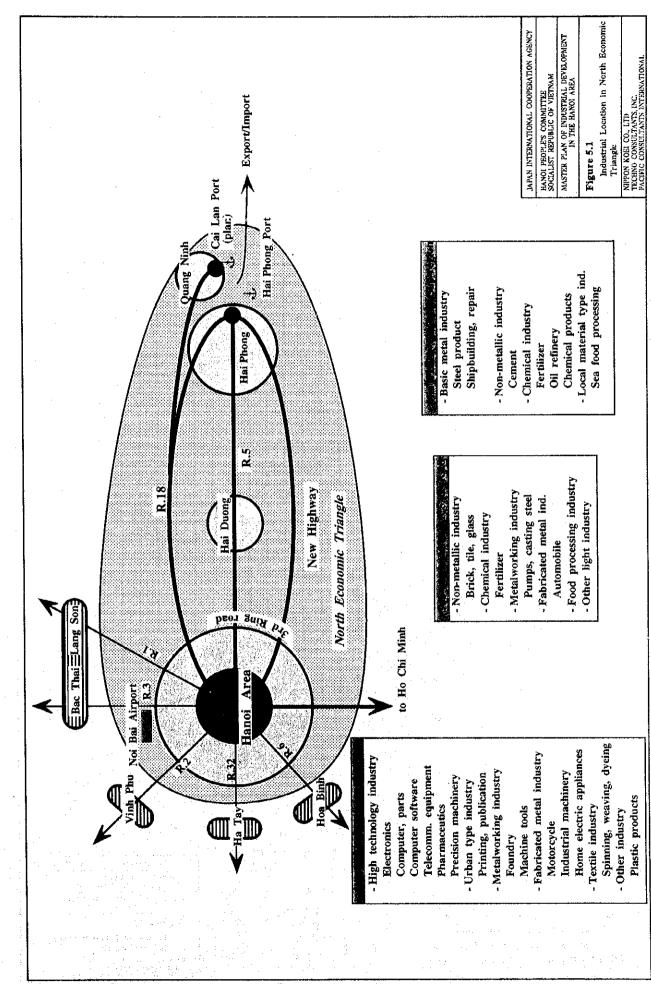
FIGURES

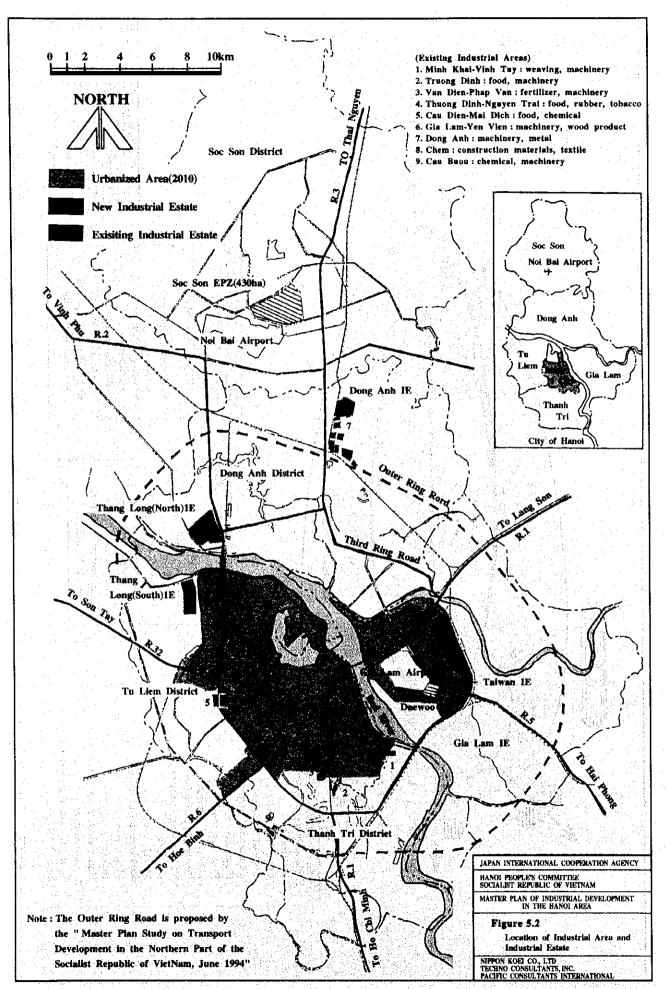


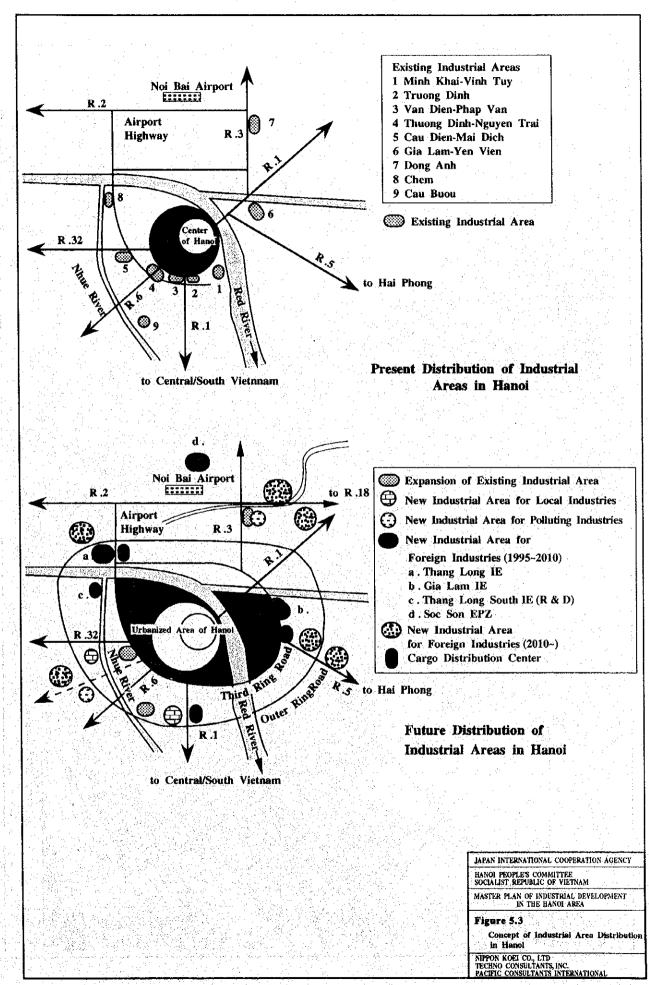


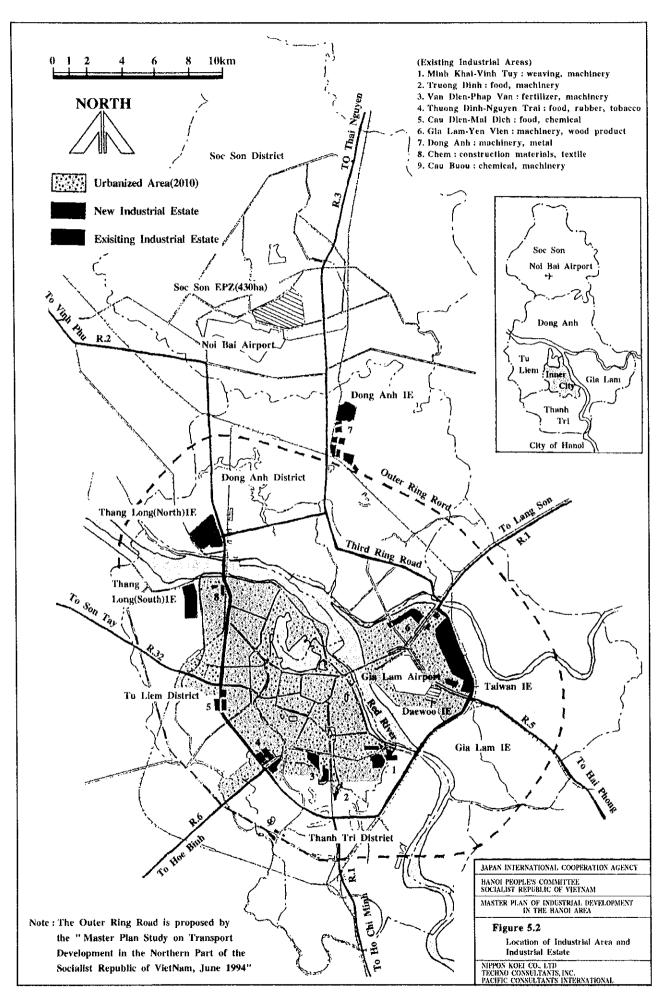




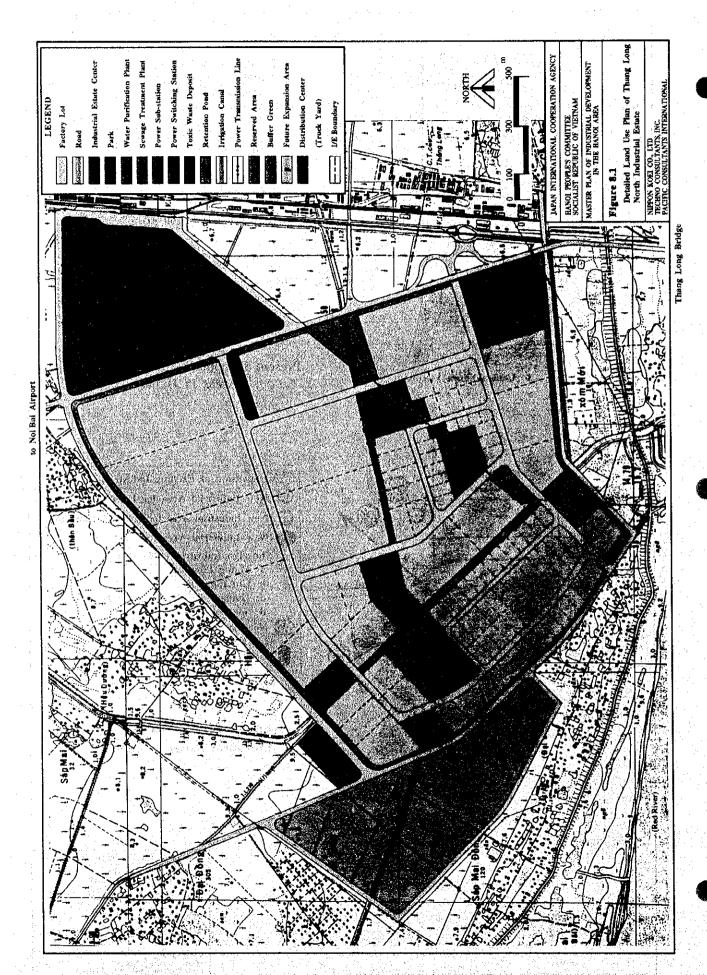
1

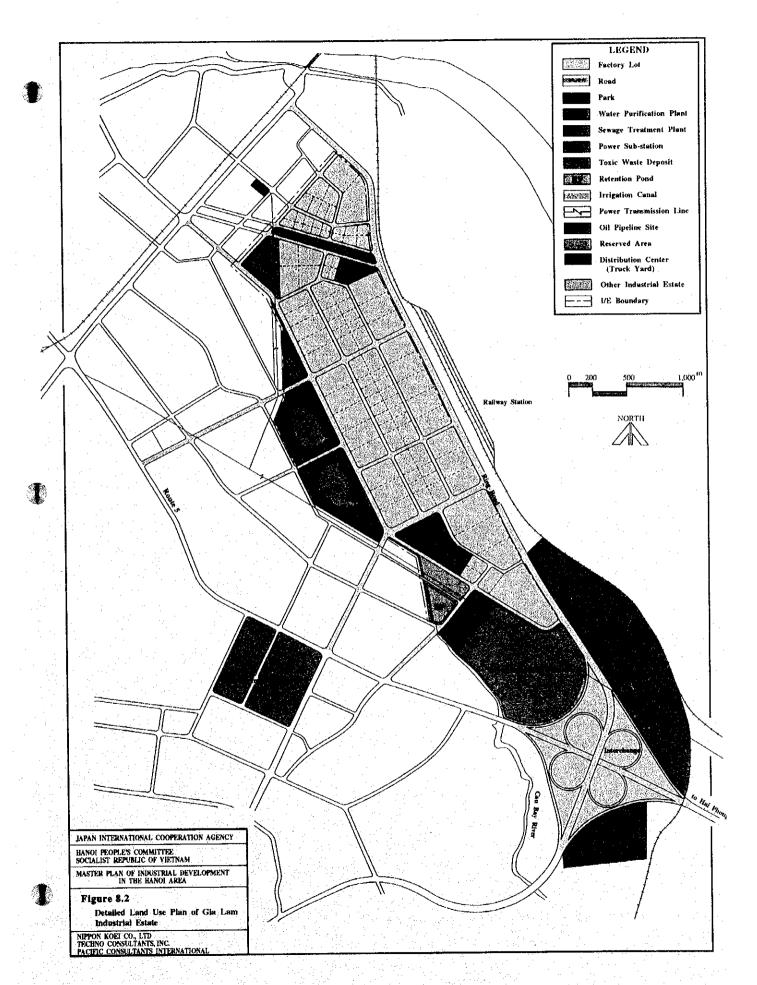


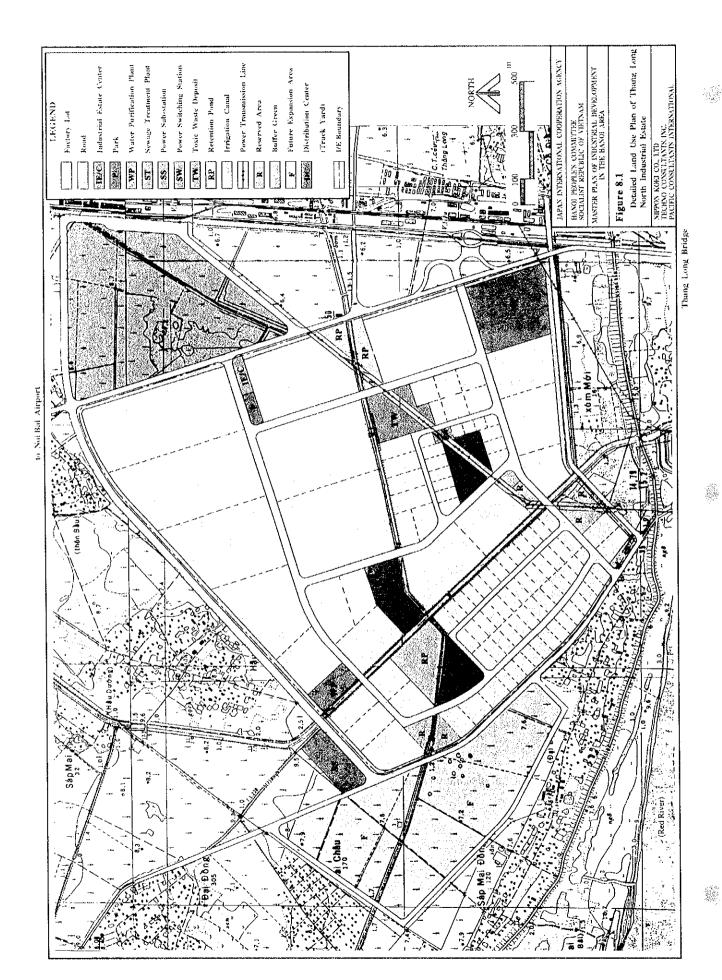




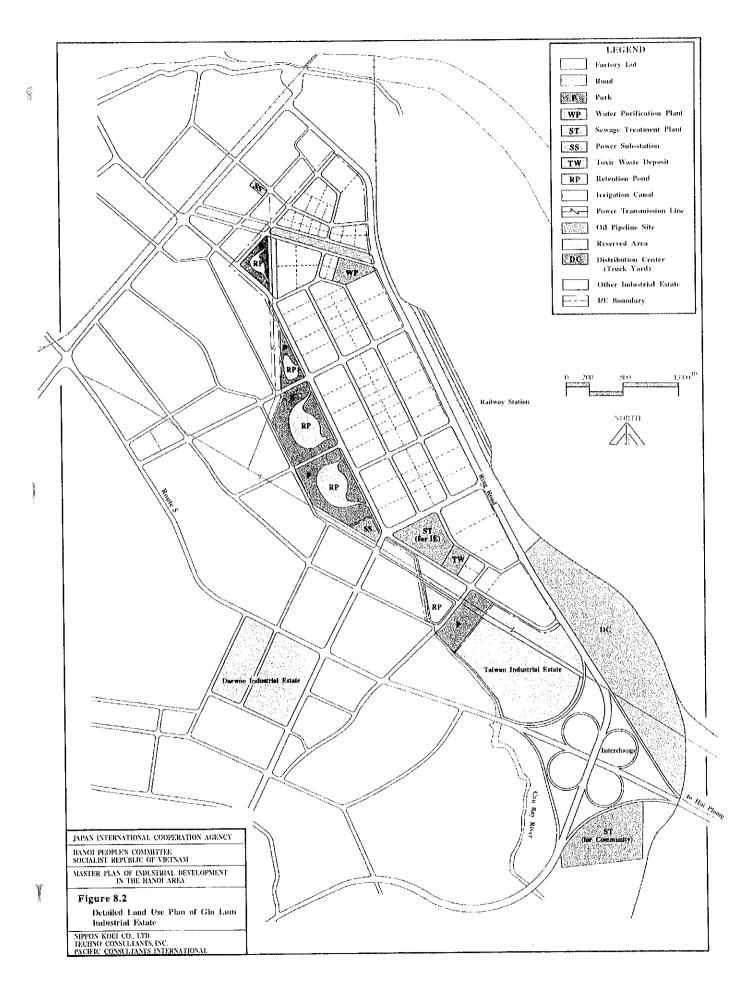
穩

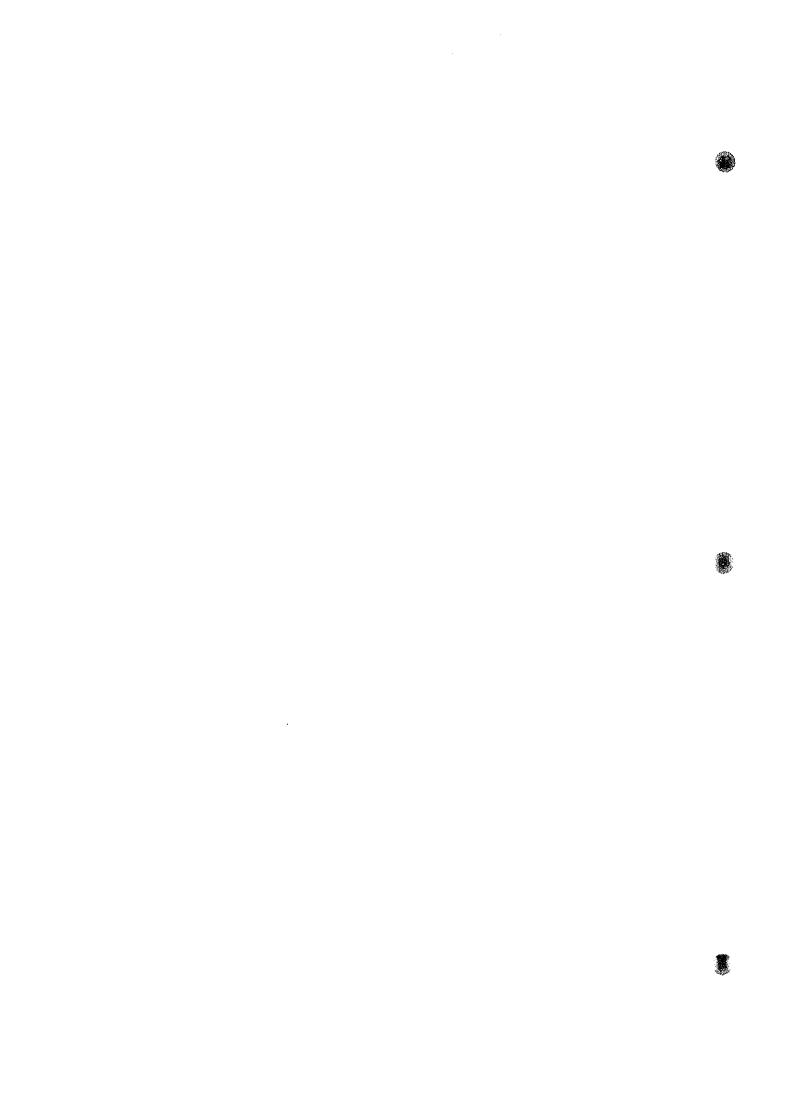






- 14() -





APPENDICES

APPENDIX

A : OVERVIEW OF THE INDUSTRIAL SECTOR

B : REFORMS FOR ACCELERATED INDUSTRIAL

DEVELOPMENT

C: INVESTMENT AND TRADE PROMOTION

D : CONSTRAINTS COMMON TO EXISTING INDUSTRIES

E: DIRECTION OF INDUSTRIAL DEVELOPMENT

F: IMPROVEMENT OF EXISTING INDUSTRIES

G: INVESTMENT DEMAND FOR INDUSTRIAL ESTATES

H: MASTER PLAN FOR INDUSTRIAL ESTATES

DEVELOPMENT

I : PRE-INVESTMENT STUDY ON DEVELOPMENT OF

SELECTED INDUSTRIAL ESTATES

APPENDIX-A

OVERVIEW OF THE INDUSTRIAL SECTOR

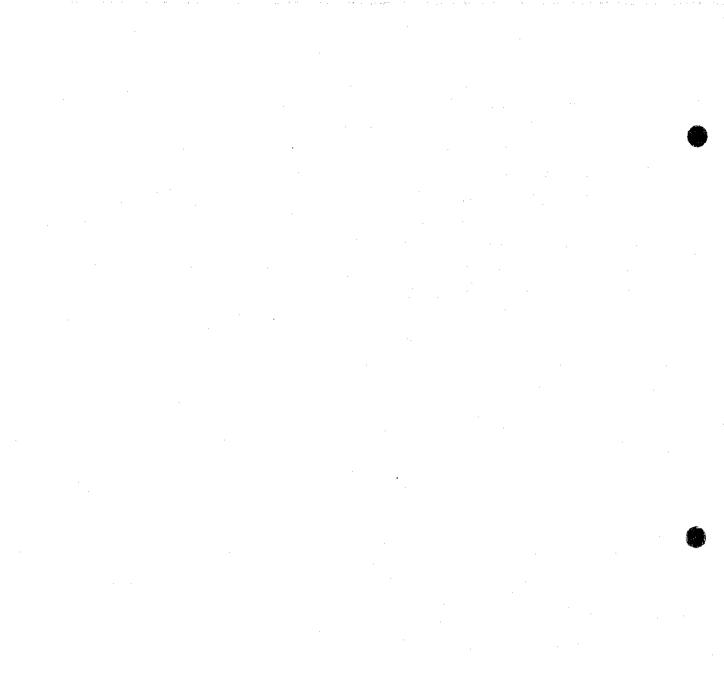
Table of Contents

			<u>Page</u>
A.1	IND	USTRIES IN VIETNAM	
	1)	Gross Domestic Product	A-1
	2)	Number of Enterprises	A-2
	3)	Labor Force in the Industrial Sector	A-2
	4)	Unemployment	A-3
	5)	Foreign Investments	A-3
	6)	Exports of Industrial Products	A-4
A.2	IND	USTRIES IN THE NORTH ECONOMIC TRIANGLE	+1 -1
	1)	Gross Output in NET	
	2)	Number of Enterprises in NET	A-5
	3)	Labor Force in NET	A-5
	4)	Foreign Investments in NET.	A-5
			·
A.3	IND	OUSTRIES IN THE HANOI AREA	
	1)	State Enterprises.	A-7
1	2)	Industrial Land	
	3)	Employment and Wages.	
15.4	4)	Sales Amount	
	5)	Production Cost	
•	6)	Business Expansion	A -9
			100

Tables

		<u>Page</u>
Table A.01	Gross Output of Industry	A-10
Table A.02	Gross Output by Type of Industry in 1993	A-11
Table A.03	Number of Industrial Establishments	A-12
Table A.04	Labor Force by Kind of Economic Activities	A-13
Table A.05	Foreign Direct Investments	A-14
Table A.06	Foreign Direct Investments by Economic Sector	A-15
Table A.07	Exports by Commodity Group	A-16
Table A.08	Economic Indicators of the North Economic Triangle	A-17
Table A.09	Gross Output of Local Enterprises	A-18
Table A.10	Number of Enterprises in the North Economic	
	Triangle Zone	A-19
Table A.11	Labor Force of Local State Enterprises in the	
	North Economic Triangle	A-20
Table A.12	Foreign Direct Investments by Region	A-21
Table A.13	Number of State Manufacturing Enterprises in the	
	Hanoi Area	A-22
Table A.14	Categories and Types of Existing Industries	
	in the Hanoi Area	A-23
Table A.15	Sales Amount by Categories and Types of	
3	Industry in the Hanoi Area	A-24
Table A.16	Central State Enterprises in the Hanoi Area	A-25
Table A.17	Founded Year by Types of Industries	
	in the Hanoi Area	A-26
Table A.18	Factory Area by Categories of Industry	
·	in the Hanoi Area	A-27
Table A.19	Employees by Categories of Industry	
	in the Hanoi Area	A-28
Table A.20	Employees by Categories and Types of Industry	
	in the Hanoi Area	A-29
Table A.21	Female Employees by Types of Industries	- ·
	in the Hanoi Area	A-30
Table A.22	Employees' Average Age by Types of	
	Industries in the Hanoi Area	A-31

Table A.23	Average Wages by Types of Industries	
	in the Hanoi Area	A-32
Table A.24	Sales Amount by Categories of Industry in the Hanoi Area	A-33
Table A.25	Sales Amount per Employee in the Hanoi Area	A-34
Table A.26	Breakdown of Production Cost by	
	Categories of Industry in the Hanoi Area	A-35
Table A.27	Markets of Products by Categories of	
	Industry in the Hanoi Area	A-36
Table A.28	Intention of Business Expansion	
	in the Hanoi Area	A-37



APPENDIX-A

OVERVIEW OF THE INDUSTRIAL SECTOR

A.1 Industries in Vietnam

1) Gross Domestic Product

The gross domestic product (GDP) of the industrial sector amounted to 37,535 billion dongs (approx. US\$ 3,410 million) in 1994, or 22.0% of total GDP of Vietnam (170,258 billion dongs), while the agricultural sector accounted for 29% and the services sector (incl. transportation, communications) for 49%. The gross output of the industrial sector has grown from 14,011 billion dongs in 1990 to 20,412 billion dongs (at 1989 constant price) in 1993, or at the average annual increase rate of 13.4%. The gross output of the manufacturing industry, exclusive of electricity, fuel and construction, amounted to 14,185 billion dongs in 1993, showing an average annual increase rate of about 11% in the past four years. The growth has been notable in the basic metal industry (ISIC:37), chemicals industry (ISIC:35) and non-metallic industry (ISIC:36), as shown in Table A.01.

The growth rate of the industrial sector has been much higher than the other sectors, and SPC expects that the industrial sector will account for 25-26% of total GDP in the year 2000. Notwithstanding the higher growth rate of the industrial sector attained in the past and expected to attain in the years to come, the contribution of the secondary sector to the national economy is still at the level of a couple of decades ago in the Southeast and East Asian countries, as noted in the table below.

 Vietnam 1993,2000	China 1970-1992	Korea 1970-1992	Thailand 1970-1992	Philippines 1970-1992	Indonesia 1970-1992
37 26-30	n,a 27	26 8	26 12	30 22	45 19
21 25-26	n.a 34	29 45	25 39	32 33	19 40
 42 44-49	n.a 38	45 47	49 49	38 45	36 41

Source: Vietnam: SPC
Other country: World Bank, World Development Report, 1994

SPC predicts that the industrial sector will represent 33-37% of total GDP in the year 2010. Such a prediction appears to be reasonable, but it would be possible to expect a higher rate of contribution by the industrial sector in view of the present situation and the potential for growth in the sector.

Of the total gross output of the manufacturing sector in 1993 (14,185 billion dongs at 1989 constant prices), the food and foodstuff industries (ISIC:31) accounted

for 48%, and the textile, apparel and leather industries (ISIC:32) accounted for 14%. The contribution of the fabricated metal industries (ISIC:38) was about 11%, and the contribution of the basic metal (ISIC:37) and non-metallic (ISIC:36) industry was substantially low, 3.5% and 1.7%, respectively (Refer to Table A.01).

Industries in Vietnam consist of state enterprises (central state and local state) and non-state enterprises (private, cooperative and household). The production of central state enterprises amounted to 10,602 billion dongs in 1993 (approx. 52% of total production), and local state enterprises produced 4,040 billion dongs (approx. 20%). The production of non-state enterprises reached 5,769 billion dongs (approx. 28%). By industrial category, central and local state enterprises constituted a major part in the basic metal industry (88%) and chemical industry (74%), while non-state enterprises shared a major portion in wood and wood product industry. About 55-70% of the food and beverage (ISIC:31), textile, apparel and leather (ISIC:32) and fabricated metal (ISIC:38) have been produced by central and local state enterprises (refer to Table A.02).

2) Number of Enterprises

A total of 463,500 industrial enterprises have been established in Vietnam by the end of 1993. The number of central state enterprises has been 522 and that of local state enterprises has been 1,508. The state enterprises, central and local, have been gradually decreasing in recent years. On the other hand, the number of private enterprises has been increasing steadily, and it reached 3,322 enterprises in 1993. About 81% of private enterprises are located in the southern regions (south northeast provinces and Mekong river delta provinces), while over 57% of central state enterprises are located in the northern region (North mountain-midland provinces and Red river delta provinces). Of the total number of central state manufacturing enterprises (445 establishments), about 34% are fabricated metals (ISIC:38), and 29% are food (ISIC:31) and textile, apparel and leather (ISIC:32) enterprises, as shown in Table A.03.

3) Labor Force in the Industrial Sector

The labor force by kind of economic activities is shown in Table A.04. As seen in the table, labor force engaged in "Agriculture" and "Forestry" (the "Primary Industry") has been constantly around 73% of the total labor force in Vietnam. However, the share of "Agriculture" and "Forestry" in GDP together accounts for less than 40%, indicating that the productivities of "Agriculture" and "Forestry" are much lower than the average productivity of the economy. "Industry" and "Construction"

(the "Secondary Industry") is just absorbing approximately 14% of the country's labor force. As the Secondary Industry has greater potentiality for absorbing labor force in comparison to the Primary industry, the development of the Secondary Industry is essential for improving the unemployment ratio, which is the one of the most serious socio-economic issues of Vietnam. Share of labor force in the tertiary sector still remains quite low, about 7%.

The labor force working in the state enterprises has been reducing in terms of both number and share in the total economic activities from 1985 to 1993. The number of workers and share of state enterprises reduced from 3.9 million to less than 3.0 million in 1993 and 14.8% to 9.1% during this period, respectively. This reduction in employment of the state enterprises is presumably reflecting the efforts of the Economic Reform to increase productivity. Similarly, significant reduction of the number of industrial establishments of the state enterprises was observed as shown in Table A.03.

4) Unemployment

Available basic data on unemployment in Vietnam are quite limitedly. According to the "Atlas Vietnam Population", about 4.3% of the economically active population is unemployed. The reported rate of unemployment is relatively low, and it is assumed that the excess workers have been absorbed by the agricultural sector. Although data are unavailable, the rate of under-employment is presumably high in and around the urban centers. The development of the industrial sector should be accelerated in order to increase employment opportunities and to reduce unemployment and under-employment rates.

5) Foreign Investment

After the Doi Moi policy was adopted in 1986, a market-oriented economy was introduced, opening the door to foreign investors. By the end of 1994, a total of 1,028 foreign direct investment projects have been registered (1,217 licenced but 189 cancelled), with a total invested capital amounting to US\$10.9 billion. Investments from NIES countries, i.e. Hong Kong, Taiwan, South Korea and Singapore, are notable accounting for 52% of the total invested capital. Investments from ASEAN countries (Malaysia, Thailand, Indonesia and the Philippines) accounted for about 9% of the total invested capital. The details are shown in Table A.05.

Sectoral distribution of the foreign direct investments as of end 1994 is shown in Table A.06. The Industrial sector occupied 58% of the total number of investments and 38.5% of total amount of invested capital.

6) Exports of Industrial Products

Exports of industrial products have been increasing steadily. During the 1985 - 1992 period, they recorded an annual average growth of 20.5 %, reaching US\$ 2,581 million in 1992. Among others, exports of "heavy industrial and mineral products" increased sharply or more than quadrupled during this period. From the point of view of the type of management, exports of products by the central state enterprises have been decreasing steadily while the local state enterprises supplemented the decrease. The details of the exports of manufactured goods are given in Table A.07.

granding and a second professional and the field profession and a second residual and the second resid

entre de la companya Caracteria de la companya de la com Caracteria de la companya de la comp

er in the first of the engineering the contract of the second of the sec

. All agreement for the first transfer and figure of all the first field of the seasons.

the second transfer and the second transfer that the second transfer and tran

王子等 "是,只要说,我只要没有多数的人的事,我就是自己,不是是是

ran di Amerika di Kortonia di Kortonia kan di Kamalan di Kortonia di Amerika di Amerika di Kortonia di Kortoni Karangan di Amerika di Kortonia di Kor

operation of the first of the contract particles and the second of the s

A.2 Industries in the North Economic Triangle

The North Economic Triangle (NET) extends from Hanoi to southeast up to Hai Phong and Quang Ninh. NET has an area of about 10,900 km², accounting for 3.3% of the total area of the country. Population in NET is estimated to be around 7.3 million, or 10.3% of the total population of Vietnam, as shown in Table A.08.

1) Gross Output in NET

NET, comprising Hanoi, Hai Phong and Quang Ninh Province, is the second largest economic zone in the country. Though data on the distribution of the central state enterprises are unavailable, the gross output value of the local enterprises including local state and non - state enterprises (private, cooperative and private household enterprises) indicates that the gross outputs are 8.1% in NET as shown in Table A.09. This contribution is low if compared with the South Economic Triangle (SET) (33.6%). NET's gross output is attributable more to the central state enterprises.

2) Number of Enterprises in NET

A total of about 49,000 industrial enterprises have been established in NET by the end of 1993. The number of central state enterprises was 192 accounting for 37% of the total number of central state enterprises, and that of local state enterprises was 239 accounting for 16% of the total number of local state enterprises (refer to Table A.10). On the other hand, the number of private enterprises in NET was 222 accounting for only 7% of the total number of private enterprises.

3) Labor Force in NET

The labor force of local state enterprises in NET is shown in Table A.11. As seen in the table, the total labor force of local state enterprises has been decreasing steadily. It has decreased from 356,000 persons in 1990 to 256,000 persons in 1992, which accounted for slightly less than 15% of total labor force of local state enterprise in Vietnam.

4) Foreign Investments in NET

Regional/provincial distribution of the foreign investments is shown in Table A.12. As seen in the table, the Red River Delta accounted for 23.4% of the total number of investments in the country. If compared with SET, which received 55.4%

of total number of investment, the foreign direct investment in NET is still much to be expected.

A.3 Industries in the Hanoi Area

1) State Enterprises

It is reported that a total of 144 central state enterprises and 105 local state enterprises are located in the Hanoi area at the end of 1993 based on "Statistical Yearbook, 1994". The Study Team surveyed in 1994 a total of 154 central state enterprises and 70 local state (HPC) enterprises, on the basis of the enterprise list provided by HPC, as shown in Table A.13.

The number of enterprises surveyed by the Study Team represented about 35% of the total number central state manufacturing enterprises in Vietnam and 6% of local state manufacturing enterprises. By category of industry, the central state enterprises surveyed by the Study Team accounted for 73% of non-metallic industry (ISIC:36), 57% of paper and printing industry (ISIC:34), 47% of wood and wood product industry (ISIC:33), 38% of fabricated metal industry (ISIC:38) and 29% of chemical industry (ISIC:35) in Vietnam (refer to Table A.13). The results of survey by the Study Team therefore illustrate a picture of state enterprises in the Hanoi area, as well as state and local enterprises in Vietnam as a whole.

Of the 154 central state enterprises surveyed, 58 enterprises (38%) engage fabricated metal industry, with sales of 945 billion dongs in 1993 (refer to Table A.14 and Table A.15). There are 17 chemical enterprises (sales 537 billion dongs), 18 food, beverage and tobacco enterprises (sales 893 billion dongs), 18 textile, apparel and leather enterprises (634 billion dongs) and 11 non-metallic enterprises (179 billion dongs) in the Hanoi area.

A number of government organizations are operating the central state enterprises in the Hanoi area. As shown in Table A.16, some 25 enterprises are operated by MLI, and 17 enterprises are managed by the MHI. The Ministry of Transportation (16 enterprises), Ministry of Defense (16 enterprises), Ministry of Agriculture and Foodstuff (10 enterprises) are also major sponsors for industrial operation in the Hanoi area. About two thirds of the central state enterprises were established before 1979. Though the number of new central state enterprises has been decreasing in recent years, some 22 enterprises have been established by the government organizations since 1990. It is also noted that the number of new local state enterprises has been decreasing, while that of new private enterprises is increasing even in the Hanoi area (refer to Table A.17).

2) Industrial Land

According to the questionnaire survey conducted by the Study Team, the total land used for industries in the Hanoi area is approximately 613 hectares (total of 215 enterprises out of the 234 surveyed enterprises), with an average land holding of 2.85 hectares per enterprise (Refer to Table A.18). Due to a higher proportion of the state enterprises in the Hanoi area as noted before, the average of land holding size is relatively large. By adding the land of non-surveyed enterprises and household establishments, the total area used for industrial activities in the Hanoi area is preliminarily estimated to be slightly less than 1,000 hectares in total.

3) Employment and Wages

The surveyed enterprises (234 factories) employed a total of about 82,000 persons, with an average employment of 350 persons per enterprise (Refer to Table A.19). The largest employment is offered by the textile, apparel and leather industry (ISIC:32; about 31,200 employees), followed by the fabricated metal industry (ISIC:38; about 20,800 employees). The central state enterprises (154 in number) employed a total of about 57,500 workers, with an average employment of some 370 workers per enterprise. The employment per enterprise is higher in central state enterprises. For instance, 18 central state enterprises in textile, apparel and leather industries employed 20,370 workers (1,132 persons per enterprise), while 17 local state and 2 private textile enterprises employed 10,400 workers (612 per enterprise) and 440 workers (220 per enterprise), respectively. The average employment of the fabricated metal industry is 253 in central state enterprises, 216 in local state enterprises and 170 in private enterprises (refer to Table A.20).

Female workers are relatively high in employment rate in the surveyed industries. More than one third of the central state enterprises are employing female workers for more than 50% of employees in respective factories. Proportion of female workers is higher in local state enterprises in general (refer to Table A.21). The rate of female workers is particularly high in textile and apparel industries. Further, it is noted that the average age of employees is relatively high in both central and local state enterprises, and comparatively lower in private enterprises (refer to Table A.22).

The level of wages is still relatively low in central and local state industries. For semi-skilled workers, the majority receive an average monthly salary of less than 300,000-400,000 dongs. Skilled workers' salary is slightly higher, but it is still less than 400,000-500,000 dongs per month, as shown in Table A.23. Most of the employees work 8-9 hours a day and 6 days a week. Overtime work is more frequent

in private enterprises. 64% of the existing factories are applying shift operations. For the most of enterprises, fringe benefits are less than 30% of wages.

4) Sales Amount

Sales amount per enterprise is about 14.6 billion dongs on an average, as shown in Table A.24. It is higher in tobacco industry (ISIC:3314), beverage industry (ISIC:313), textile industry (321), rubber product industry (355) and electrical machinery industry (383), while it is lower in wood and wood product industry (33), paper and printing industry (34), and basic metal industry (372). On the other hand, sales amount per employee is higher in food, beverage and tobacco industry (ISIC:31), chemical industry (35) and fabricated metal industry (38). The per capita sales amount is lower in textile, apparel and leather industry (32), wood and printing industry (33) and basic metal industry (37). The average sales amount per employee is about 41.2 million dongs a year, as shown in Table A.25. The sales amount per employee is higher in private enterprises and it is lower in local state enterprises.

5) Production Cost

For every category of factories surveyed through this Study, the cost of labors account for 10-15% of total production costs. Material costs are high in production, ranging from 57% to 75% of total production costs, according to the questionnaire survey (refer to Table A.26). On an average, about 87% of the products are marketed locally, and exports of products are relatively small, except for wood products (ISIC:331), textile, apparel and footwear (ISIC:321,322 and 324), other foodstuff (ISIC:312), as shown in Table A.27.

6) Business Expansion

All the private enterprises surveyed through this Study have intention to expand their business. On the other hand, about 16% of central state enterprises and 10% of local state enterprises clearly noted that they had no intention to expand their business, as shown in Table A.28. In general, the majority of the existing enterprises consider that their business can be expanded through improvement, renovation and/or expansion of their facilities for production. Most of local state enterprises and private enterprises are looking for technical cooperation and/or formation of joint ventures with foreign enterprises for expansion of their business.

Gross Output of Industry Table A.01

			<u> </u>	<u> </u>	(i	Billion dong)
ISIC	Category	1990	1991	1992	1993*	Av. Annual Increase (%)
31	Food, beverage	5,040.3	5,378.4	6,140.3	6,840.1 (48.2)	10.7
32	Textile, apparel	1,554.8	1,551.8	1,763.6	1,934.3 (13.6)	7.6
33	Wood products	572.7	595.7	610.9	607.2 (4.3)	2.0
34	Paper, printing	408.8	400.4	465.4	525.8	8.8
35	Chemicals	920.5	1,114.0	1,355.2	1,614.6 (11.4)	20.6
36	Non - metallic	146.1	178.3	205.0	238.6	17.8
37	Basic metal	218.7	319.3	406.4	490.4 (3.5)	30.9
38	Fabricated metal	1,194.8	1,182.1	1,295.2	1,536.5	8.7
39	Others	356.7	344.2	367.1	398.1 (2.8)	3.7
	(Sub total)	10,413.4	11,064.2	12,609.1	14,185.6 (100.0)	10.9
	Construction	1,000.2	1,165.1	1,383.5	1,601.0	17.0
	Electricity, fuel	2,597.5	3,241.8	4,124.3	4,625.4	21.2
	Total	14,011.1	15,471.1	18,116.9	20,412.0	13.4

Note: At 1989 constant prices

* : Figures in () indicate percentage against total manufacturing output
Sources: Statistical Yearbook, 1994

Table A.02 Gross Output by Types of Industry in 1993

				(Billion dong)	(%)
		Central State	Local State	Non - State	T-4-1
		Enterprises	Enterprises	Enterprises	Total
31	Food, beverage	2,270.2	2,117.1	2,452.8	6,840.1
	100u, oorongo	(33.2)	(31.0)	(35.8)	(100.0)
32	Textile, apparel	861.0	412.3	661.0	1,934.3
~~	Tomic, appares	(44.5)	(21.3)	(34.2)	(100.0)
33	Wood products	33.8	92.5	480.9	607.2
, ,	· · · · · · · · · · · · · · · · · · ·	(5.6)	(15.2)	(79.2)	(100.0)
34	Paper, printing	211.3	199.3	115.2	525.8
		(40.2)	(37.9)	(21.9)	(100.0)
35	Chemicals	759.4	432.0	423.2	1,614.6
		(47.0)	(26.8)	(26.2)	(100.0)
36	Non - metallic	88.7	27.8	122.1	238.6
		(37.2)	(11.7)	(51.1)	(100.0)
37	Basic metal	365.9	66.6	57.9	490.4
		(74.6)	(13.6)	(11.8)	(100.0)
38	Fabricated metal	561.2	260.3	715.0	1,536.5
		(36.5)	(16.9)	(46.6)	(100.0)
39	Others	20.1	150.8	227.2	398.1
		(5.0)	(37.9)	(57.1)	(100.0)
	(Sub total)	5,171.6	3,758.7	5,255.3	14,185.6
		(36.5)	(26.5)	(37.0)	(100.0
	Construction	838.4	256.0	506.6	1,601.0
		(52.4)	(16.0)	(31.6)	(100.0
	Electricity, fuel	4,592.2	25.8	7.4	4,625.4
٠		(99.3)	(0.6)	(0.1)	(100.0
	Total	10,602.2	4,040.5	5,769.3	20,412.0
		(51.9)	(19.8)	(28.3)	(100.0

Note: At 1989 constant prices Source: Statistical Yearbook 1994

Table A.03 Number of Industrial Establishments

	Central State	Local State	Private	Coope-	Household
	Enterprises	Enterprises	Enterprises	ratives	Enterprises
(Year)					
1985	711	2,339	920	35,629	n.a
1990	589	2,173	770	13,086	376,900
1991	546	2,053	959	8,829	446,771
1992	537	1,731	1,114	5,723	368,000
1993	522	1,508	3,322	5,287	452,866
(By Province, 1993)			:		
North mountain & mid.	. 88	212	91	656	45,828
Red river delta	207	376	313	1,857	171,874
				•	
(Hanoi) North central coast	(144) 19	(105) 216	(132) 75	(841) 1,276	(13,497) 85,589
South central coast	25	169	75 89	797	43,825
Central highland	. 6	47	57	59	
North east south	165	328	1,133	607	8,502 33,457
				* * * * * * * * * * * * * * * * * * * *	
(Ho Chi Minh)	(131) 9	(242) 160	(528)	(560)	(21,647)
Mekong river delta Total	519 L1	1,508	1,564 3,322	35 5,287	63,791 452,866
TOTAL	319 =	1,500	3,322	3,201	432,800
(By Categories, 1993)	•				
31 Food, beverage	75	327		Ta Ta	1,31
32 Textile, apparel	52	172		•	
33 Wood products	19	96	*		
34 Paper, printing	35	111		$(x_i - x_i)^{\frac{1}{2}} = x_i \cdot x_i - x_i$	
35 Chemicals	58	122			
36 Non - metallic	15	39			
37 Basic metal	20	19			* . *
38 Fabricated metal	153	245			
39 Others	18	92		•	
(Sub total)	445	1,223			
Construction materials	66	259	•		
Electricity, fuel	11	26			
Total	522	1,508			

Note: L1 Not coincide with a total Source: Statistical Yearbook, 1994

Table A.04 Labor Force by Kind of Economic Activities

(unit : thousand persons)

					(unii ; inous	and persons)	
	1985		1990		1992		1993	
Material production sector								
Agriculture	18,808.0	72.3%	21,689.1	71.6%	22,998.3	72.3%	23,683.8	72,4%
Forestry	-170.6	0.7%	205.9	0.7%	210.0	0.7%	214.4	0.7%
Sub-total	18,978.6	72.9%	21,895.0	72.3%	23,208.3	72.9%	23,898.2	73.0%
Industry	2,800.1	10.8%	3,392.0	11.2%	3,450.0	10.8%	3,521.8	10.8%
Construction	831.6	3.2%	817.7	2.7%	825.0	2.6%	848.3	2.6%
Sub-total	3,631.7	14.0%	4,209.7	13.9%	4,275.0	13.4%	4,370.1	13.4%
Transport	443.6	1.7%	475.5	1.6%	483.6	1.5%	496.1	1.5%
Postal service and telecommunication	35.7	0.1%	37.5	0.1%	50.7	0.2%	51.4	0.2%
Trade Material supply	1,117.4	4.3%	1,680.9	5.5%	1,735.0	5.5%	1,776.0	5.4%
Others	45.3	0.2%	30.3	0.1%	30.2	0.1%	30.6	0.1%
Sub-total	1,642.0	6.3%	2,224.2	7.3%	2,299.5	7.2%	2,354.1	7.2%
Total	24,252.3	93.2%	28,328,9	93.5%	29,782.8	93.6%	30,622.4	93.6%
Non material productive sector					•			
Housing public services tourism	227.0	0.9%	294.8	1.0%	301.2	0.9%	322.0	1.0%
Science	64.1	0.2%	52.5	0.2%	48.3	0.2%	48.1	0.1%
Education and traning	682.9	2.6%	802.6	2.6%	825.2	2.6%	848.0	2.6%
Culture, Art	40.1	0.2%	45.4	0.1%	46.0	0.1%	46.1	0.1%
Health,ensurance,sport	277.0	1.1%	302.9	1.0%	318.1	1.0%	326.6	1.0%
Finance, banking and insurance	74.5	0.3%	91.2	0.3%	114.2	0.4%	117.3	0.4%
Sate management	289.4	1.1%	239.9	0.8%	240.0	0.8%	240.0	0.7%
Others	113.0	0.4%	136.3	0.4%	143.1	0.4%	145.8	0.4%
Total	1,768.0	6.8%	1,965.6	6.5%	2,036.1	6.4%	2,093,9	6.4%
Grand total	26,020.3	100.0%	30,294.5	100.0%	31,818.9	100.0%	32,716.3	100.0%
State and a state of the state								
State enterprises	1,625.0	6.2%	1,343.1	4.4%	1,296.1	4.1%	1,242.1	3.8%
Central	2,234.2	8,6%	2,078.3	6.9%	1,847.6	5.8%	1,733.1	5.3%
Local	3,859.2	8.0% 14.8%	3,421,4	11.3%	3,143.7	9.9%	2,975.2	9.1%
Sub-total		14.8% 85.2%	26,873.1	88.7%		90.1%	2,973.2	90.9%
Non-state	22,161.1					100.0%	32,716.3	100.0%
Total	26,020.3	100.0%	30,294.5	100.0%	31,818.9	100.070	34,110.3	100.0%

Source: Prepared from Statistical Yearbook 1994

Table A.05 Foregin Direct Investments

As of End 1994

	Countries		Number of Projects	Invested Capita
				(million US
1)	Taiwan		172	1,90
2)	Hong Kong		175	1,85
s) 3)	Singapore		84	1,02
4)	Republic of Korea		100	90
+) S)	the state of the s		76	82
	Japan			67
6)	Australia		45	50
7)	France		59	
8)	Malaysia		31	50
9)	Switzerland		14	46
0)	U.K.		16	40
1)	Netherland		18	
2)	Thailand		45	23
3)	Indonesia		11	16
4)	U.S.A.		24	15
5)	Russia		35	12
6)	Canada		10	9
7)	Belgium		7	8
8)	Sweden		. 8	7
9)	Island		9	7
(0)	Philippines		11	
11)	Bermuda		. 4	6
22)	Denmark		3	4
23)	Belorussia		. 1	
(4)	Italy ·		4	
25)	Panama		7	
(6)	Ukraina		5	
27)	Germany		. 7	
8)	New Zealand		3	
29)	Czechoslovakia		1	1
10)	Chian		21	1
31)	Poland		2	
12)	Austria		1	5 to 1 to 1
33)	People's Dem.Rep.of Korea		1	
34)	U.A.E.		1	
35)	Other countries		1	
16)	Liechtenstein		1	
37)	Cuba		1	
18)	Luxembourg		1	
39)	Macao		2	
10) 10)	Norway		3	
11)	Hungary			
+1) 42)	Brunei		1	
43) 44)	Israel		1	
44) 45)	Latvia		2	
45)	Laos	•	1	
46)	Argentina		1	

Source: SCCI

Table A.06 Foreign Direct Invesments by Economic Sector

As of End 1994

			713 01	15HU 1774
Econ. Sector	No. of Project	Share	Invested Capital	Share
		(%)	(million US\$)	(%)
Processing Industry	599	58.3	4,193	38.5
Hotel & Tourism	118	11.5	2,404	22.1
Mining, Oil & Gas	57	5.5	1,525	14.0
Construction	43	4.2	1,220	11.2
Real Estates	71	6.9	533	4.9
Agriculture & Forestry	32	3.1	264	2.4
Transp. & Communication	53	5.2	497	4.5
Finance & Banking	12	1.2	170	1.6
Fishery	21	2.0	58	0.5
Others	22	2.1	37	0.3
TOTAL	1028	100.0	10,901	100.0

Source: SCCI

Table A.07 Exports by Commodity Group

(unit: million US\$) 1985 1989 1990 1991 1992 By type of management Central 85.1% 594.3 1442.9 74.1% 1700.4 70.7% 1326.8 63.6% 1574.9 61.0% Local 703.6 104.2 14.9% 503.1 25.9% 29.3% 760.3 1005.8 36.4% 39.0% Total 698.5 100.0% 1,946.0 100.0% 2,404.0 100.0% 2087.1 100.0% 2580.7 100.0% By commodity group Heavy industrial and mineral 62.9 9.0% 336.0 17.3% 616.9 25.7% 697.1 33.4% 954.8 37.0% Craft goods 235.6 33.7% 584.2 30.0% 26.4% 300.1 635.8 14.4% 349.5 13.5% Agricultural products 274.2 39.3% 706.6 36.3% 783.3 32.6% 628.0 30.1% 827.6 32.1% Forest products 40.5 5.8% 111.0 5.7% 126.5 5.3% 175.5 8.4% 140.8 5.5% Aquatic products 82.6 11.8% 206.2 10.6% 239.i 9.9% 285.4 13.7% 307.7 11.9% Others 2.7 0.4% 2.0 0.1% 0.1% 2.4 1.0 0.0% 0.3 0.0%

1,946.0

100.0%

2,404.0 100.0%

2,087.1

100.0%

2,580.7 100.0%

Source: Prepared from data in the Statistical Yearbook.

698.5 100.0%

Table A.08 Economic Indicators of the North Economic Triangle

	Area		Population (1	992)
	(sq. Km)	(%)	(1,000 per)	(%)
North Economic Triangle				
Hanoi	920.6	0.3%	2,154.9	3.0%
Hai Phong	1,503.5	0.5%	1,583.9	2.2%
Quang Ninh	5,938.6	1.8%	889.6	1.3%
Hai Hung	2,551.4	0.8%_	2,658.0	3.7%
Sub-total	10,914.1	3.3%_	7,286.4	10.3%
South Economic Triangle				
Ho Chi Minh City	2,090.3	0.6%	4,322.3	6.1%
Dong Nai Province	5,864.4	1.8%	1,762.9	2.5%
Ba Ria- Vung Tau Prov.	1,956.6	0.6%	657.1	0.9%
Sub-total	9,911.3	3.0%_	6,742.3	9.5%
$\widehat{\mathcal{A}} = \{ \{ \{ i,j \} i \} \}_{i \in \mathcal{A}} $			3 	
Other areas	310,288.2	93.7%	56,953.8	80.2%
Total	331,113.6	100.0%	70,982.5	100.0%

Source: Prepared from data in the Statistical Yearbook.

Table A.09 Gross Output of Local Enterprises

		Gross o	output of Local Er	iterprises (19	92)						
		(billion Dongs at constant price of 1989)									
	Local Gov.	(%)	Non-state	(%)	Total	(%)					
North Economic Triangle											
Hanoi	221.6	6.1%	167.7	3.1%	389.3	4.3%					
Hai Phong	89.6	2.5%	61.8	1.2%	151.4	1.7%					
Quang Ninh	42.1	1.2%	30.4	0.6%	72.5	0.8%					
Hai Hung	18.6	0.5%_	92.8	1.7%	111.4	1.2%					
Sub-total	371.9	10.3%	352.7	6.6%	724.6	8.1%					
South Economic Triangle			. •								
Ho Chi Minh City	1,003.4	27.7%	1,562.9	29.3%	2,566.3	28.6%					
Dong Nai Province	149.1	4.1%	98.8	1.9%	247.9	2.8%					
Ba Ria- Vung Tau Prov.	42.3	1.2%	151.8	2.8%	194.1	2.2%					
Sub-total	1,194.8	33.0%	1813.5	34.0%	3,008.3	33.6%					
Other areas	2,057.5	56.8%	3,171.8	59.4%	5,229.3	58.3%					
		· _									
Total	3,624.2	100.0%	5,338.0	100.0%	8,962.2	100.0%					

Remarks: Central state enterprises, which produced 9,154.7 billion dongs in 1992, are not included in this table.

Source: Prepared from data in the Statistical Yearbook.

Table A.10 Number of Enterprises in the North Economic Triangle Zone

	Number of Enterprises (1993)											
									Private			
	Central State	(%)	Local State	(%)	Cooperatives	(%)	Private	(%)	Household	(%)	Total	(%)
North Economic Triangle												
Hanoi	144	27.6%	105	7.0%	841	15.9%	132	4.0%	13,497	3.0%	14,719	3.2%
Hai Phong	21	4.0%	69	4.6%	251	4.7%	79	2.4%	5,351	1.2%	5,771	1.2%
Quang Ninh	13	2.5%	36	2.4%	177	3.4%	0	0.0%	6,220	1.4%	6,446	1.4%
Hai Hung	14	2.7%	29	1.9%	126	2.4%	11	0.3%	21,841	4.8%_	22,021	4.8%
Sub-total	192	36.8%	239	15.9%	1,395	26.4%	222	6.7%	46,909	10.4%	48,957	10.6%
South Economic Triangle				٠								
Ho Chi Minh City	131	25.1%	242	16.0%	560	10.6%	528	15.9%	21,647	4.8%	23,108	5.0%
Dong Nai Province	26	5.0%	31	2.1%	23	0.4%	267	8.0%	2,844	0.6%	3,191	0.7%
Ba Ria- Vung Tau Prov.	2	0.4%	7	0.5%	19	0.4%	13	0.4%	4,164	0.9%	4,205	0.9%
Sub-total	159	30.5%	280	18.6%	602	11.4%	808	24.3%	28,655	6.3%	30,504	6.6%
Other areas	171	32.7%	989	65.5%	3.290	62.2%	2,292	69.0%	377,302	83.3%	384.044	82.8%
				•								
Total	522	100.0%	1,508	100.0%	5.287	100.0%	3,322	100.0%	452,866	100.0%	463,505	100.0%

Source: Prepared from data in the Statistical Yearbook 1994.

Table A.11 Labor Force of Local State Enterprises in the North Economic Triangle

		Labour Force of Local State Enterprises(1,000 Prs.)								
·	1990	(%)	1991	(%)	1992	(%)	1993	(%)		
North Economic Triangle					-					
Hanoi	156	7.5%	118	6.4%	107	6.2%	100	5.9%		
Hai Phong	85	4.1%	63	3.4%	62	3.6%	. 59	3.5%		
Quang Ninh	47	2.3%	36	1.9%	33	1.9%	31	1.8%		
Hai Hung	68	3.3%_	60	3.2%	54	3.1%_	49	2.9%		
Su-total	356	17.1%_	277	15.0%_	256	14.8%_	239	14.0%		
South Economic Triangle		4			* .					
Ho Chi Minh City	178	8.6%	175	9.5%	172	9.9%	187	11.0%		
Dong Nai Province	57	2.7%	45	2.4%	37	2.1%	67	3.9%		
Ba Ria- Vung Tau Prov.	12	0.6%	20	1.1%_	19	1.1%_	18	1.1%		
Sub-total	247	11.9%_	240	13.0%_	228	13.2%_	272	16.0%		
Other areas	1,475	71.0%	1,331	72.0%	1,249	72.1%	1,194	70.0%		
		-				_				
Total	2,078	100.0%	1,848	100.0%	1,733	100.0%	1,705	100.0%		

Source: Prepared from data in the Statistical Yearbook 1994

Table A.12 Foreign Direct Investments by Region

/ A -	- 6	T 4	1004
LAS	ΩT	Ena	1994)

		(As of End 1994)
Region/Province	Number of Licenced Project	Share
North Mountainous and Midland	39	3.8%
Red River Delta	241	23.4%
Hanoi	(178)	(17.3%)
Hai Phong	(34)	(3.3%)
На Тау	(12)	(1.2%)
Hai Hung	(9)	(0.9%)
Thai Binh	(4)	(0.4%)
Nam Ha	(2)	(0.2%)
Ninh Binh	(2)	(0.2%)
North Central Coast	20	1.9%
South Central Coast	64	6.3%
Central Highland	22	2.1%
North East South	569	55.4%
Ho Chi Minh	(384)	(37.4%)
Song Be	(42)	(4.1%)
Tay Ninh	(6)	(0.6%)
Dong Nai	(102)	(9.9%)
Ba Ria - Vung Tau	(35)	(3.4%)
Mekong River Delta	49	4.8%
Oil Block	24	2.3%
	the second second	per de la companya della companya della companya de la companya della companya de
Total:	1,028	100.0%

Source: SCCI

Table A.13 Number of State Manufacturing Enterprises in Hanoi Area

		Centr	al State Ente	erprises	Local	State Enterp	orises	
		Vietnam	Hanoi .	Area	Vietnam	Hanoi	Hanoi Area	
	· · · · · · · · · · · · · · · · · · ·	(1)	Surveyed (2)	%	(1)	Surveyed (2)	%	
31	Food, beverage	75	18	(24.0)	327	8	(2.4)	
32	Textile, apparel	52	18	(34.6)	172	17	(9.9)	
33	Wood products	19	9	(47.4)	96	2	(2.1)	
34	Paper, printing	35	20	(57.1)	111	4	(3.6)	
35	Chemicals	58	17	(29.3)	122	5	(4.1)	
36	Non - metallic	15	11	(73.3)	39	6	(15.4)	
37	Basic metal	20	.	(0.0)	19	· · 1	(5.3)	
38	Fabricated metal	153	58	(37.9)	245	26	(10.6)	
39	Others	18	3	(16.7)	92	· 1	(1.1)	
	Not classified	- -	**	-		-		
	Total	445	154	(34.6)	1,223	70	(5.7)	

⁽¹⁾ Numbers in 1993 (Source: Statistical Yearbook, 1994)

⁽²⁾ Numbers replied to Questionnaire Survey in 1994,

Figures in () indicates percentage against number of enterprises in Vietnam

Table A.14 Categories and Types of Existing Industries in the Hanoi Area

		Central State		Private	
		Enterprises	Enterprises	Enterprises	Total
1	Food, beverage, tobacco	18	8	1	27
11	Food manuf.	9	4	**	13
12	Other food	4	-	-	4
13	Beverage	. 4	4	1	9
14	Tobacco	1	-	-	
32	Textile, apparel and leather	18			37
21	Textile	6			1
122	Apparel	8	. 5	2	1:
23	Leather		- 1		
324	Footwear	4	6	-	10
33	Wood and wood products	9	2	4	1:
331	Wood and wood products	. 7	2	. 4	: 1
332	Furniture	2	! -	-	
34	Paper and paper products	20	4	0	2
341	Paper and paper products		1		
342	Printing and publishing	17	3	••	2
35	Chemicals	17	, 5	0	2
351	Industrial chemicals	2	2 1	-	
352	Other chemical products	13	3 1	· -	. 1
53	Petroleum refineries		-	- · ·	
354	Misc. products of petroleum			-	
355	Rubber products		2		
356	Plastic products		- 3	3	
36	Non-metallic mineral	11	1 6	5 0	1
361	Pottery china	•	4 1	1 -	. * *
362	Glass		<u>.</u>		
369.	Other non-metallic	•	7 :	5 -	
37	Basic metal	() 1	0	
371	Iron and steel	:	-	-	•
372	Non- ferrous metal		-	1 -	
38	Fabricated metal products	5	8 20	5 3	{
381	Fabricated metal		•	7 -	
382	Machinery	2		4 -	
383	Electrical machinery	and the second s	- 	4 2	
384		1		8 1	
385	Other equipment		5	3 ~	
39	Other manufacturing industr	у	3	1 -	
	and the second of the contract of				

Table A.15 Sales Amount by Categories and Types of Industry in the Hanoi Area

(1993, Billion Dong)

31 311 312		Central State	Local State	Private	
311	Maria de la companya	Enterprises	Enterprises	Enterprises	Total
311	Food bassarage tobassa	738.2	154.7	0.0	
	Food, beverage, tobacco Food manuf.	171.3	56.5	. 0.0	892.9
	Other food	29.0	30.3	-	227.8 29.0
313	Beverage	225.1	98.2	0.0	323.3
314	Tobacco	312.8	90.2	-	312.8
32	Textile, apparel and leather	505.5	118.0	10.2	633.7
321	Textile	372.8	53.0	-	425.8
322	Apparel	97.8	18.8	10.2	126.8
323	Leather	-	7.0	÷,	7.0
324	Footwear	34.9	39.2	, .7,	74.1
33	Wood and wood products	38.7	1.9	10.8	51.4
331	Wood and wood products	35.9	1.9	10.8	48.6
332	Furniture	2.8			2.8
34	Paper and paper products	101.6	20.2	0.0	121.8
341	Paper and paper products	28.9	_	_	28.9
342	Printing and publishing	72.7	20.2	. i	92.9
35	Chemicals	518.5	18.3	0.0	536.8
351	Industrial chemicals	43.7	1.8	•	45.5
352	Other chemical products	372.7	·	•	372.7
353	Petroleum refineries	-	-	an an ar	· · · · · · · · · · · ·
354	Misc. products of petroleum	-			•
355	Rubber products	102.1	-	•	102.1
356	Plastic products	-	16.5	· Was =	16.5
36	Non-metallic mineral	128.1	50.9	0.0	179.0
361	Pottery china	9.7	-	· -	9.7
362	Glass	-	-	•	
369	Other non-metallic	118.4	50.9	ing the state of the	169.3
37	Basic metal	0.0	2.4	0.0	2.4
371	Iron and steel	-	•	* s . - .*	
372	Non- ferrous metal		2.4		2.4
38	Fabricated metal products	528.4	315.8	101.0	945.2
381	Fabricated metal	52.4	21.9		74.3
382	Machinery	121.5	151.8	· •	273.3
383	Electrical machinery	261.3	102.8	98.0	462.1
384	Transport equipment	54.2	35.7	3.0	92.9
385	Other equipment	39.0	3.6		42.6
39	Other manufacturing industry	13.7	0.0	0.0	13.7
	Total	2,572.7	682.2	122.0	3,376.9

Table A.16 Central State Enterprises in the Hanoi Area

		Nos. of
		Enterprises
01	Min. of Light Industry (MLI)	25
02	Min. of Heavy Industry (MHI)	17 · *
03	Min. of Transportations	16
04	Min. of Defence	16
05	Min. of Agriculture and Food Stuff	10
06	Min. Construction	9
07	Min. of Culture	8
08	Min. of Medicine	6
09	Min. of Trade	4
10	Min. of Post and Communication	3
11	Min. of Education and Training	2
12	Min. of Labor	1
13	Min. of Finance	1
14	State Bank of Vietnam	1
15	Other Central Organization	26
	(Sub - Total)	145
06	Not Classified	9
	Total	154

Table A.17 Founded Year by Types of Industries in the Hanoi Area

	Central State Enterprises	Local State Enterprises		Total
~ 1959	30	10	-	40
1960 ~ 1969	36	21	· _·	57
1970 ~ 1979	33	. 22	1	56
1980 ~ 1989	26	8	3	37
1990 ~	22	. 6	6	34
(Sub total)	147	67	10	224
Not classified	7	3	-	10
Total	154	70	10	234

Table A.18 Factory Area by Categories of Industry in the Hanoi Area

(1,000m2)

					(1,000m2)
		Factory	Nos. of	Average	
		Area	Enterprises	Area	
31	Food, beverage, tobacco	497.7	25	19.9	
311	Food manuf.	294.1	12	24.5	
312	Other food	12.7	. 3	4.2	
313	Beverage	180.9	9	20.1	•
314	Tobacco	10.0	1	10.0	
32	Textile, apparel and leather	2,037.9	31	65.7	,
321	Textile	1,739.2	10	173.9	
322	Apparel	133.0	10	13.3	
323	Leather	20.0	1	20.0	
324	Footwear	145.7	10	14.6	•
33	Wood and wood products	320.3	. 14	22.9	
331	Wood and wood products	311.8	12	26.0	
332	Furniture	8.5	2	4.3	
34	Paper and paper products	168.9	24	7.0	
341	Paper and paper products	50.0	4	12.5	•
342	Printing and publishing	118.9	20	5.9	
35	Chemicals	440.9	20	22,0	
351	Industrial chemicals	92.8	3	30.9	
352	Other chemical products	261.6	13	20.1	
353	Petroleum refineries	-	-	_	
354	Misc. products of petroleum	-	-		
355	Rubber products	71.3	2	35.7	• 1
356	Plastic products	15.2	2	7.6	
36	Non-metallic mineral	808.4	20	40.4	
361	Pottery china	128.4	5	25.7	
362	Glass	•	· -	-	
369	Other non-metallic	680.0	15	45.3	·
37	Basic metal	\(4.2\)	-1	4.2	
371	Iron and steel	-	-	•	
372	Non- ferrous metal	4.2	. 1	4.2	
38	Fabricated metal products	1,798.2	76	23.7	
381	Fabricated metal	298.6		17.6	
382	Machinery	594.3	18	33.0	
383		292.5		20.9	***
384		543.0		28.6	
385	Other equipment	69.8	8	8.7	
39	Other manufacturing industry	53.9	2 4 2 4	13.5	
	TOTAL	6,122.0	213	28.7	

Note: 215 out of 234 enterprises replied to questionnaire Source: Questionnaire Survey by JICA Study Team

Table A.19 Employees by Categories of Industry in the Hanoi Area

(Prs.) Nos. of Nos. of Average Nos. of Employees **Employees** Enterprises 31 9,573 355 Food, beverage, tobacco 400 Food manuf. 5,200 13 311 4 126 502 312 Other food 9 272 2,451 313 Beverage 1,420 1 1,420 314 Tobacco 37 844 31,212 32 Textile, apparel and leather 13,291 11 1,208 321 Textile 704 10,553 15 322 Apparel 400 400 1 323 Leather 10 697 Footwear 6,968 324 33 Wood and wood products 3,330 15 222 3.045 13 234 331 Wood and wood products 2 143 285 332 Furniture 24 149 34 Paper and paper products 3,585 4 212 341 Paper and paper products 847 20 342 Printing and publishing 2,738 137 22 35 Chemicals 7.059 321 3 400 1,200 351 Industrial chemicals 3,479 14 249 352 Other chemical products 353 Petroleum refineries 354 Misc. products of petroleum 2 355 Rubber products 1.930 965 3 150 356 Plastic products 450 17 308 36 5,239 Non-metallic mineral Pottery china 5 110 361 550 362 Glass 391 12 369 Other non-metallic 4,689 37 Basic metal 104 1 104 371 Iron and steel 104 104 372 Non- ferrous metal 38 Fabricated metal products 20,829 87 239 205 381 Fabricated metal 3,489 17 24 283 382 Machinery 6,800 383 Electrical machinery 4.967 18 276 20 212 384 Transport equipment 4,231 8 168 385 Other equipment 1,342 39 Other manufacturing industry 1,035 259 **TOTAL** 81,966 234 350

Table A.20 Employees by Categories and Types of Industry in the Hanoi Area

	•	Central State		Private –	en -
		Enterprises	Enterprises	Enterprises	Total
1	Food, beverage, tobacco	7,148	2,425	0	9,573
	Food manuf.	3,805	1,395	-	5,200
12	Other food	502	÷	<u>-</u>	502
313	Beverage	1,421	1,030	n.a	2,451
314	Tobacco	1,420	-	-	1,420
32	Textile, apparel and leather	20,369	10,401	442	31,212
321	Textile	11,075	2,216	-	13,29
322	Apparel	7,820	2,291	442	10,553
323	Leather		400	-	400
324	Footwear	1,474	5,494		6,96
33	Wood and wood products	2,172	282	876	3,33
331	Wood and wood products	1,887	282	876	3,04
332	Furniture	285		•	28
34	Paper and paper products	3,000	585	. 0	3,58
341	Paper and paper products	607	240	-	84
342	Printing and publishing	2,393	345	-	2,73
35	Chemicals	6,215	844	0	7,05
351	Industrial chemicals	1,046	154		1,20
352	Other chemical products	3,239	240	-	3,47
353	Petroleum refineries	-		-	
354	Misc. products of petroleum	-	-	· · · -	
355	Rubber products	1,930		-	1,93
356	Plastic products		450	-	45
36	Non-metallic mineral	3,010	2,229	0	5,23
361	Pottery china	430	120	-	55
362	Glass			- · · · · · · · · · · ·	
369	Other non-metallic	2,580	2,109) -	4,68
37	Basic metal	. (104	0	10
371	Iron and steel	•		- -	
372	Non- ferrous metal		104	-	10
38	Fabricated metal products	14,704			20,82
381	Fabricated metal	2,55	A Committee of the Comm		3,4
382	Machinery	5,695			6,8
383	-	3,16			4,9
384		2,31			4,2
385	Other equipment	97	3 36	9 -	1,3
39	Other manufacturing industry	88:	5 150	0 0	1,0
	Total	57,50	3 22,63	5 1,828	81,9

Table A.21 Female Employees by Types of Industries in the Hanoi Area

**************************************	 Central State	Local State	Private	:
	Enterprises	Enterprises	Enterprises	Total
less than 10%	 2	1	1	4
10 ~ 20%	14	6	2	22
20 ~ 30%	27	. 10	-	37
30 ~ 40%	31	12	1	44
40 ~ 50%	20	8	<u></u>	28
50 ~ 60%	19	9	- -	28
60 ~ 70%	14	7	3	24
70 ~ 80%	10	10	2	. 22
80 ~ 90%	10	4	_	14
(Sub total)	147	67	9	223
Not classified	7	3	1	11
Total	154	70	10	234

Table A.22 Employees' Average Age by Types of Industries in the Hanoi Area

	Central State Local State Private							
	Enterprises	Enterprises	Enterprises	Total				
(FEMALE)								
Over 50	-	-	-	· -				
40 ~ 50	14	8		22				
30 ~ 40	97	44	. 1	142				
20 ~ 30	30	12	9	51				
less than 20	-	-	_	0				
(Sub total)	141	64	10	215				
Not classified	13	6	0	19				
Total	154	70	10	234				
(MALE)								
Over 50	-	-	-	, -				
40 ~ 50	38	14	<u>-</u>	52				
30 ~ 40	88	47	5	140				
20 ~ 30	16	3	5	24				
less than 20	• -	-	_	-				
(Sub total)	142	64	10	216				
Not classified	12	6	0	18				
Total	154	70	10	234				

Table A.23 Average Wages by Types of Industries in the Hanoi Area

	Central State	Local State	Private	
(Dong / month)	Enterprises	Enterprises	Enterprises	Total
(Semi - skilled Worker)	•			
Over 700,000	6	-		6
500,000 - 700,000	8	3	1	12
400,000 - 500,000	20	. 8	2	30
300,000 - 400,000	42	18	4	64
less than 300,000	56	30		88
(Sub total)	132	59	9	200
Not classified	22	11	1:	34
Total	154	70	10	234
(Skilled Worker)	· .			
Over 700,000	15	3	2	20
500,000 - 700,000	26	11	4	41
400,000 - 500,000	36	18	1	55
300,000 - 400,000	46	16	3	65
less than 300,000	22	18	-	40
(Sub total)	145	66	10	221
Not classified	9	4		13
Total	154	70		
(Engineer)				V
Over 700,000	12	3	6	21
500,000 - 700,000	22	7	1	30
400,000 - 500,000	26	13	-	39
300,000 - 400,000	54	26		81
less than 300,000	24	16		40
(Sub total)	138	65	8	211
Not classified	16	5	2	23
Total	154	70	10	234
(Manager)				
Over 700,000	24	. 8	. 5	37
500,000 - 700,000	20	11	1	32
400,000 - 500,000	42	14		56
300,000 - 400,000	35	22		59
less than 300,000	15	10		25
(Sub total)	136	. 65		209
Not classified	130	5		209
Total	154			234

Table A.24 Sales Amount by Categories of Industry in the Hanoi Area

						(Bi	llion Dong)
		1989	1990	1991	1992	199	93
		•,,,,			_	A	verage per
	·					F	Enterprise
31	Food, beverage, tobacco	96.9	186.4	422.6	645.4	892.9	33.1
	Food manuf.	17.8	70.5	126.5	194.5	227.8	17.5
311 312	Other food	16.6	17.1	21.9	29.0	29.0	7.3
313	Beverage	21.9	27.2	124.2	221.2	323.3	35.9
314	Tobacco	40.6	71.6	150.0	200.7	312.8	312.8
32	Textile, apparel and leather	77.4	253.6	387.8	563.9	633.7	17.1
321	Textile	39.3	200.2	302.3	424.4	425.8	38.7
322	Apparel	27.3	34.1	59.3	87.8	126.8	8.5
323	Leather	5.0	5.0	6.0	6.5	7.0	7.0
324	Footwear	5.8	14.3	20.2	45.2	74.1	7.4
33	Wood and wood products	15.6	19.8	44.1	40.8	51.4	3.4
331	Wood and wood products	14.3	18.3	42.3	38.5	48.6	3.7
332	Furniture	1.3	1.5	1.8	2.3	2.8	1.4
34	Paper and paper products	21.0	27.8	44.3	75.0	121.8	5.1
341	Paper and paper products	9.0	10.2	9.3	18.5	28.9	7.2
342	Printing and publishing	12.0	17.6	35.0	56.5	92.9	4.6
35	Chemicals	76.0	139.5	279.0	387.2	536.8	24.4
351	Industrial chemicals	4.2	9.5	24.9	38.2	45.5	15.2
352	Other chemical products	49.9	97.2	190.1	247.3	372.7	26.6
353	Petroleum refineries		-	-	-		
354	Misc, products of petrolcum	* * * *		-		_	
355	Rubber products	18.1	28.0	57.9	89.5	102.1	51.1
356	Plastic products	3.8	4.8	6.1	12.2	16.5	5.5
36	Non-metallic mineral	12.1	24.8	52.7	84.8	179.0	10.5
361	Pottery china	0.8	0.9	1.3	2.3	9.7	1.9
362	Glass		· '' -'	- -'	11 <u>-</u> 11		· -
369	Other non-metallic	11.3	23.9	51.4	82.5	169.3	14.1
37	Basic metal	0.3	0.2	0.9	0.9	2.4	2.4
371	Iron and steel			·	-	-	
372	Non- ferrous metal	0.3	0.2	0.9	0.9	2.4	2.4
38	Fabricated metal products	108.5	199.4	365.9	592.8	945.2	10.9
381	Fabricated metal	14.2	17.6	36.6	57.3	74.3	4.4
382		34.0	77.2		156.6	273.3	11.4
383	•	44.3	83.9	180.4	294.3	462.1	25.7
384		9.7	11.5	18.6	57.9	92.9	4.6
385		6.3	9.2	17.4	26.7	42.6	5.3
39	Other manufacturing industr	ies 5.5	9.5	8.8	8.8	13.7	3.4
	Total	413.3	861.0	1,606.1	2,399.6	3,376.9	14.6

Table A.25 Sales Amount per Employee in the Hanoi Area

* Billion Dong
** Million Dong

					** Million Dong
	·	993 Sales	Nos. of	Average Sales	
		Amount *		per Employee **	·
31	Food, beverage, tobacco	892.9	9,573	93.3	
311	Food manuf.	227.8	5,200	43.8	
312	Other food	29.0	502	57.8	
313	Beverage	323.3	2,451	131.9	
314	Tobacco	312.8	1,420	220.3	
32	Textile, apparel and leather	633.7	31,212	20.3	
321	Textile	425.8	13,291	32.0	•
322	Apparel	126.8	10,553	12.0	
323	Leather	7.0	400	17.5	
324	Footwear	74.1	6,968	10.6	
33	Wood and wood products	51.4	3,330	15.4	
331	Wood and wood products	48.6	3,045	16.0	•
332	Furniture	2.8	285	9.8	
34	Paper and paper products	121.8	3,585	34.0	
341	Paper and paper products	28.9	847	34.1	
342	Printing and publishing	92.9	2,738	33.9	
35	Chemicals	536.8	7,059	76.0	
351	Industrial chemicals	45.5	1,200	· ·	
352	Other chemical products	372.7	3,479		
353	Petroleum refineries	-	-	-	
354	Misc. products of petroleum		-		
355	Rubber products	102.1	1,930	52.9	
356	Plastic products	16.5	450		
36	Non-metallic mineral	179.0	5,239	34.2	
361	Pottery china	9.7	550		
362	Glass				
369	Other non-metallic	169.3	4,689	36.1	
37	Basic metal	2.4	104	23.1	
371	Iron and steel	_	_		
372	Non- ferrous metal	2.4	104	23.1	
38	Fabricated metal products	945.2	20,829	45.4	
381	Fabricated metal	74.3	3,489	the state of the s	
382	Machinery	273.3	6,800		
383	Electrical machinery	462.1	4,967	and the second s	
384	Transport equipment	92.9	4,231	· ·	
385	Other equipment	42.6	1,342		
39	Other manufacturing industry	13.7	1,035	13.2	
	TOTAL	3,376.9	81,966	41.2	

Table A.26 Breakdown of Production Cost by Categories of Industry in the Hanoi Area

Table A.27 Markets of Products by Categories of Industry in the Hanoi Area

(%) (1993)

				(70) (1993)
•		Domestic Sales	Exports	
31	Food, beverage, tobacco	94	6	
311	Food manuf.	63	37 -	
312	Other food	57	43	
313	Beverage	100	0	
314	Tobacco	100	0	
32	Textile, apparel and leather	61	39	
321	Textile	66	34	
322	Apparel	. 44	56	
323	Leather	80	20	
324	Footwear	54	44	
33	Wood and wood products	30	70	·
331	_	26	74	
332	Wood and wood products Furniture	26 96	74 4	
332	rumiture	96	. 4	
34	Paper and paper products	92	8	
341	Paper and paper products	91	9	
342	Printing and publishing	92	8	
35	Chemicals	98	2	
351	Industrial chemicals	100	0	
352	Other chemical products	97	3	
353	Petroleum refineries	·-	⊑ ′	
354	Misc. products of petroleum	-	-	
355	Rubber products	100	0	
356	Plastic products	100	0	the second of the second
36	Non-metallic mineral	99	1	
361 362	Pottery china Glass	99	1:	
369	Other non-metallic	99	1	
				the first of the second
37	Basic metal	100		
371	Iron and steel	-	•	
372	Non- ferrous metal	100		
38	Fabricated metal products	93	7	
381	Fabricated metal	97	3	
382	Machinery	96	4	
383	Electrical machinery	91	9	
384	Transport equipment	90	10	
385	Other equipment	98	2	
39	Other manufacturing indust	ry 63	37	
				and the second of the second o
	TOTAL	. 87	13	

Table A.28 Intention of Business Expansion in the Hanoi Area

		Yes	No	Not answ.	Total
31	Food, beverage, tobacco	17	5	5	27
32	Textile, apparel and leather	23	6	8	37
33	Wood and wood products	. 13	1	1	15
34	Paper and paper products	19	2	3	24
35	Chemicals	14	1	7	22
36	Non-metallic mineral	13	1	3	17
37	Basic metal	-	-	1	1
38	Fabricated metal products	65	8	14	87
39	Other manufacturing industry	3	1	. 0	4
	Total	167	25	42	234
	(By Types of Industry)				
	Central Gov. Enterprises	108	20	26	154
	Local Gov. Enterprises	49	5	16	70
	Private Enterprises	10	0	0	10
	Total	167	25	42	234