

附属資料 5

INDUSTRY TREND

TABLE OF CONTENTS

	PAGE
FOREWORD	
HIGHLIGHTS	
Value of Production Index (VaPI)	82
Producer's Price Index (PPI)	84
Volume of Production Index (VoPI)	86
SUMMARY TABLES	
A. Value of Production Index, Annual and Monthly Growth for Manufacturing by Industry Major Group January 1998 - September 1999 (1985 = 100)	88
B. Producer's Price Index, Annual and Monthly Growth for Manufacturing by Industry Major Group January 1998 - September 1999 (1992 = 100)	92
C. Volume of Production Index, Annual and Monthly Growth for Manufacturing by Industry Major Group January 1998 - September 1999 (1992 = 100)	99
TABLES	
1 Index of Value of Production of Key Manufacturing Enterprises, by Industry September 1998 - September 1999 (1985 = 100)	105
2 Producer's Price Index for Manufacturing by Industry Major Group, Philippines September 1998 - September 1999 (1992 = 100)	107
3 Volume of Production Index for Manufacturing by Industry Major Group, Philippines September 1998 - September 1999 (1992 = 100)	108
DISTRIBUTION OF SAMPLES & RESPONDING ESTABLISHMENTS BY INDUSTRY MAJOR GROUP: FEBRUARY 1999 - SEPTEMBER 1999	109
TECHNICAL NOTES	
Value of Production Index (VaPI)	110
Producer's Price Index (PPI)	116
Volume of Production Index (VoPI)	124

FOREWORD

INDUSTRY TRENDS is a publication of the Monthly Integrated Survey of Selected Industries (MISSI), formerly known as the Survey of Key Enterprises in Manufacturing (SKEM). The MISSI is an integrated survey conducted by the National Statistics Office (NSO) and the Department of Trade and Industry (DTI). The survey which is a participative undertaking between NSO, DTI and the respondent enterprises, is envisioned to provide *flash* indicators on the performance of growth-oriented industries.

INDUSTRY TRENDS presents the results of the MISSI and Producer's Price Survey (PPS) covering 553 and 180 manufacturing establishments, respectively, located throughout the country. This publication includes indices on value of production, producer's price and volume of production which are presented in simple tabular forms.

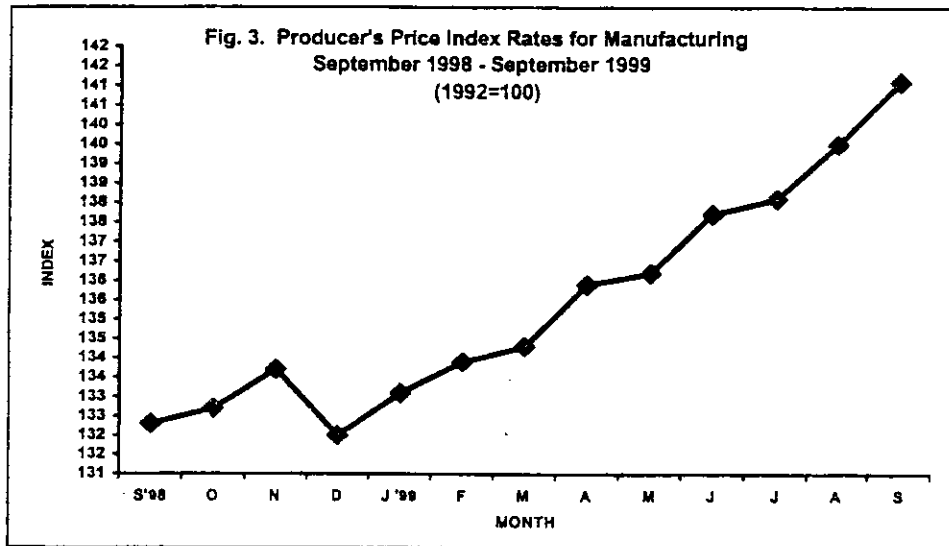
For the guidance of the users, technical notes describing the methods used in the survey and in the computation of the indices are found in the appendix.


TOMAS P. AFRICA
Administrator

HIGHLIGHTS

VALUE OF PRODUCTION INDEX (VPI)

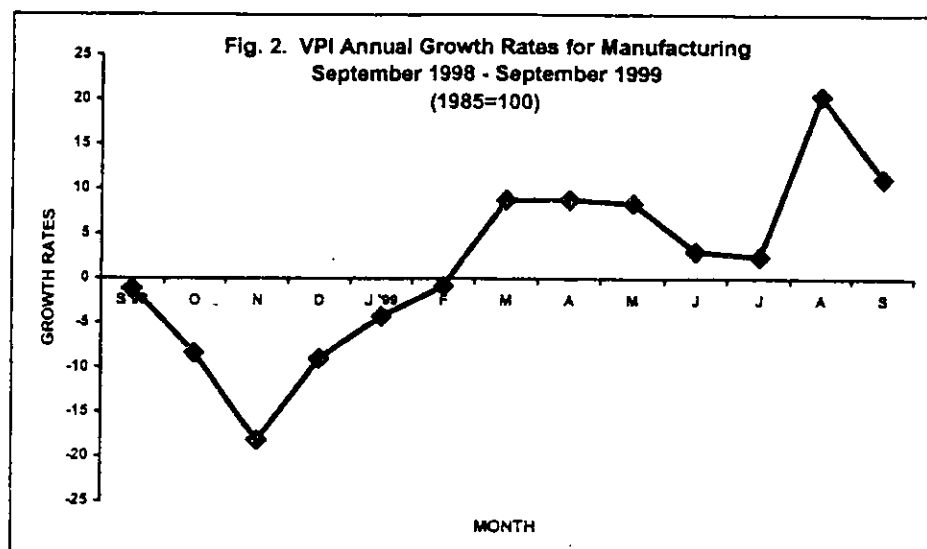
On a month-on-month basis, the VPI decreased by 2.7 percent. Four sectors contributed to the decrease, led by **electrical machinery**, which decreased by 20.7 percent followed by **chemicals** (-15.5%), **rubber products** (-10.6%) and **non-metallic mineral products** (-2.4%). On the other hand, double-digit contribution to the overall growth rate were observed in the following sectors: **food manufacturing** (24.8%) with a contribution of 34.8 percent, **wood & wood products** (120.0%) contributing 26.8 percent and **petroleum products** (17.8%) contributing 21.5 percent..



GAINERS OVER LAST MONTH	MONTH-ON-MONTH (unweighted) GROWTH RATE	CONTRIBUTION TO THE OVERALL GROWTH RATE
Food Manufacturing	24.8%	30.4%
Wood & Wood Products	120.0%	26.8%
Petroleum Refineries	17.8%	21.5%
Wearing Apparel	20.2%	7.7%
Basic Metals	12.3%	5.3%
Transport Equipment	10.8%	2.8%
Paper & Paper Products	10.0%	2.4%
Beverage	12.4%	1.6%
Textile	2.5%	0.8%
Furniture & Fixtures	8.8%	0.3%
Other Mfg. Industries	7.4%	0.2%
Tobacco	12.2%	0.2%

LOSERS OVER LAST MONTH	MONTH-ON-MONTH (unweighted) GROWTH RATE	CONTRIBUTION TO THE OVERALL GROWTH RATE
Electrical Machinery	-20.7%	-56.9%
Chemicals/Plastic & Plastic Prods.	-15.5%	-36.8%
Rubber Products	-10.6%	- 4.1%
Non-Metallic Mineral Prods.	-2.4%	- 2.2%

In September 1999, the value of production index (VaPI) of 541.9 increased by 11.2 percent from 487.5 in September 1998. Year-on-year increases were observed in 11 out of 16 major sectors. **Wood & wood products** posted the highest year-on-year VaPI increase of 102.5 percent due to the increase in production of plywood. This can be attributed to the increase in both domestic and export demand for the product. Other sectors that posted double-digit increases were **transport equipment** (69.7%), **furniture & fixtures** (21.3%), **electrical machinery** (15.2%) and **tobacco** (14.0%). On the other hand, basic metals reported the biggest decline of 44.4 percent. Other sectors that posted decreases were **chemicals/plastic & plastic products** (-17.9%), **textile** (-15.2%), **non-metallic mineral products** (-10.5%) and **rubber products** (-12.8%). Decreases in these sectors can be attributed to the slowdown in production due to strikes, shutdown of machinery, lack of raw materials. Low demand and closure of two plants of one chemical establishment.



GAINERS OVER LAST YEAR

YEAR-ON-YEAR (unweighted) GROWTH RATE

CONTRIBUTION TO THE OVERALL GROWTH RATE

Wood & Wood Products	102.5%	34.1%
Transport Equipment	69.7%	27.1%
Petroleum Refineries	9.3%	16.7%
Electrical Machinery	15.2%	14.7%
Food Manufacturing	1.2%	2.2%
Wearing Apparel	3.1%	1.8%
Furniture & Fixtures	21.3%	1.1%
Paper & Paper Products	3.0%	1.1%
Beverage	3.3%	0.6%
Other Mfg. Industries	9.4%	0.4%
Tobacco	14.0%	0.2%

LOSERS OVER LAST YEAR

YEAR-ON-YEAR (unweighted) GROWTH RATE

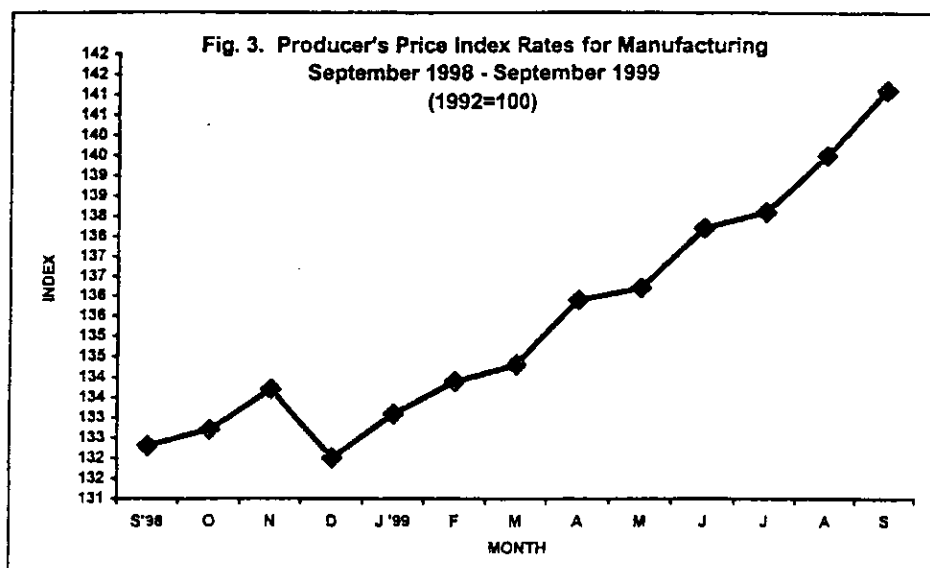
CONTRIBUTION TO THE OVERALL GROWTH RATE

Basic Metals	-44.4%	-50.9%
Chemicals/Plastic & Plastic Prods.	-17.9%	-26.8%
Textile	-15.2%	-13.2%
Non-Metallic Mineral Prods.	-10.5%	- 6.0%
Rubber Products	-12.8%	- 3.1%

PRODUCER'S PRICE INDEX (PPI)

The producer's price index (PPI) of 141.1 for September 1999 increased by 1.1 percent as compared with last month's index of 139.5. Increases were posted by ten sectors led by **electrical machinery**, which recorded a 4.4 percent increase corresponding to a contribution of 43.4 percent. This was followed by **petroleum refineries** with 3.7 percent increase contributing 41.1 percent.

On the other hand, **other food manufacturing** went down by 0.5 percent contributing 36.6 percent, followed by **fabricated metal products** with 2.6 percent decline and contributing 34.0 percent.



SECTORS WITH MONTH-ON-MONTH INCREASE	MONTH-ON-MONTH (unweighted) GROWTH RATE	CONTRIBUTION TO THE OVERALL GROWTH RATE
Electrical Machinery	4.4%	43.4%
Petroleum Refineries	3.7%	41.1%
Furniture & Fixtures	7.4%	4.0%
Transport Equipment	0.7%	3.7%
Iron & Steel	0.8%	2.8%
Cement	1.0%	1.6%
Plastic Products	1.0%	1.4%
Glass & Glass Products	1.6%	0.9%
Industrial Chemicals	0.3%	0.7%
Rubber Products	0.4%	0.4%
SECTORS WITH MONTH-ON-MONTH DECREASE	MONTH-ON-MONTH (unweighted) GROWTH RATE	CONTRIBUTION TO THE OVERALL GROWTH RATE
Other Food Manufacturing	- 0.5%	-36.6%
Fabricated Metal Products	- 2.6%	-34.0%
Textile	- 0.6%	-13.7%
Food Manufacturing	- 0.1%	- 9.1%
Other Manufacturing Industries	- 0.6%	- 3.9%
Wearing Apparel	- 0.1%	- 1.7%
Pulp, Paper & Paperboard	- 0.1%	- 1.0%

On a year-on-year basis, PPI exhibited an increase of 6.7 percent over last year. **Petroleum refineries** posted the highest year-on-year increase of 25.9 percent corresponding to a contribution of 42.8 percent, followed by **beverage** with 17.6 percent increase and a contribution of 12.4 percent to the positive component of the year-on-year performance of PPI.

On the other hand, ten sectors posted negative growths. **Other food manufacturing** declined by 6.6 percent equivalent to a contribution of 36.5 percent. Other sectors that posted double-digit contribution to the decline were **iron & steel** by 10.7 percent (and a contribution of 27.9% to the negative component of the year-on-year performance of PPI) and **fabricated metal products** (-18.5%) contributed 19.6 percent.

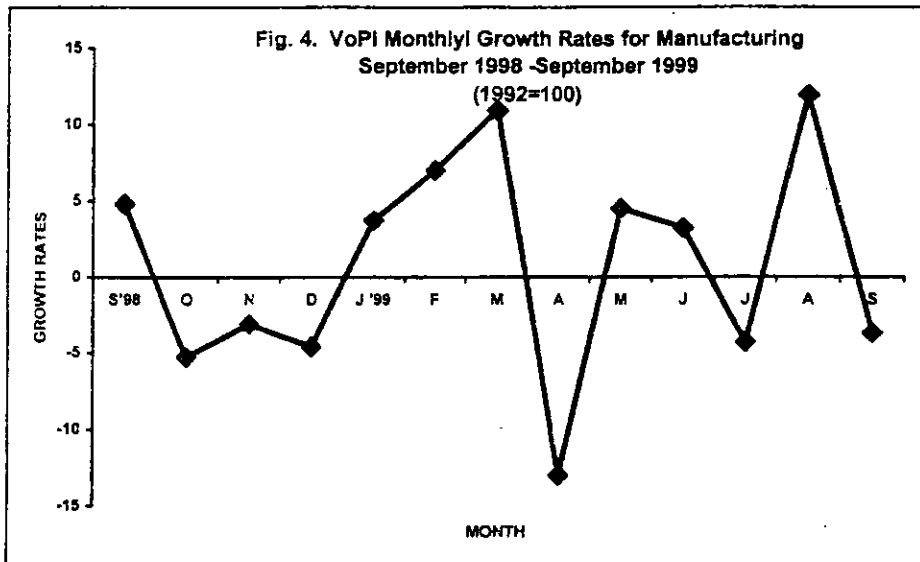
SECTORS WITH YEAR-ON-YEAR INCREASE	YEAR-ON-YEAR (unweighted) GROWTH RATE	CONTRIBUTION TO THE OVERALL GROWTH RATE
Petroleum Refineries	25.9%	42.8%
Beverage	17.6%	12.4%
Cement	40.0%	9.6%
Textile	20.3%	7.6%
Pulp, Paper & Paperboard	21.4%	5.3%
Other Chemical Products	5.9%	4.9%
Food Manufacturing	2.8%	3.6%
Plastic Products	14.5%	2.6%
Rubber Products	18.1%	2.2%
Transport Equipment	3.0%	1.5%
Other Non-Metallic Mineral Products	12.5%	1.0%
Wearing Apparel	2.2%	0.9%
Printing & Publishing	6.8%	0.8%
Furniture & Fixtures	10.5%	0.8%
Industrial Chemicals	2.4%	0.6%
Glass & Glass Products	7.0%	0.1%
Leather & Leather Products	6.5%	

SECTORS WITH YEAR-ON-YEAR DECREASE	YEAR-ON-YEAR (unweighted) GROWTH RATE	CONTRIBUTION TO THE OVERALL GROWTH RATE
Other Food Manufacturing	- 6.6%	-36.5%
Iron & Steel	-10.7%	-27.9%
Fabricated Metal Products	-18.5%	-19.6%
Non-Ferrous Metals	- 3.9%	- 4.1%
Tobacco	- 2.1%	- 2.8%
Machinery	- 3.5%	- 2.2%
Other Manufacturing Industries	- 4.3%	- 1.5%
Electrical Machinery	- 0.2%	- 1.0%
Wood & Wood Products	- 1.6%	- 0.2%
Miscellaneous Petroleum	- 3.6%	

VOLUME OF PRODUCTION INDEX (VoPI)

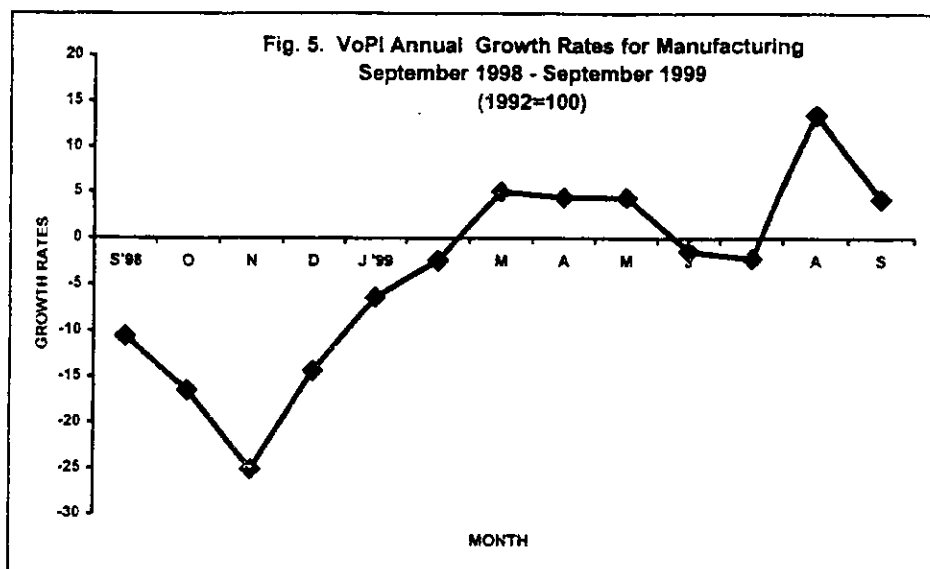
The Volume of Production Index (VoPI) is derived from Value of Production Index (VPI) and Producer's Price Index (PPI) with 1992 as the base year. The index is a measure of change in volume, net of inflation.

On a monthly basis, four sectors registered decreases resulting in a 3.7 percent decrease in VoPI. **Electrical machinery declined** by 24.0 percent largely contributed to the decrease in overall VoPI, followed by **chemicals/plastic & plastic products** (-15.7%), **rubber products** (-11.0%) and **non-metallic mineral products** (-4.4%). On the other hand, double-digit contribution to the overall growth rate were observed in the following sectors: **food manufacturing** (25.2%) with a contribution of 32.4 percent, **wood & wood products** (120.0%) contributing 28.1 percent and **petroleum products** (13.6%) contributing 17.2 percent.



GAINERS OVER LAST MONTH	MONTH-ON-MONTH (unweighted) GROWTH RATE	CONTRIBUTION TO THE OVERALL GROWTH RATE
Food Manufacturing	25.2%	32.4%
Wood & Wood Products	120.0%	28.1%
Petroleum Refineries	13.6%	17.2%
Wearing Apparel	20.3%	8.1%
Basic Metals	12.7%	5.7%
Transport Equipment	9.9%	2.7%
Paper & Paper Products	10.1%	2.5%
Beverage	12.4%	1.7%
Textile	3.2%	1.1%
Other Mfg. Industries	8.1%	0.2%
Tobacco	12.2%	0.1%
Furniture & Fixtures	1.2%	0.1%
LOSERS OVER LAST MONTH	MONTH-ON-MONTH (unweighted) GROWTH RATE	CONTRIBUTION TO THE OVERALL GROWTH RATE
Electrical Machinery	-24.0%	-59.2%
Chemicals/Plastic & Plastic Prods.	-15.7%	-33.4%
Rubber Products	-11.0%	- 3.8%
Non-Metallic Mineral Prods.	- 4.4%	- 3.6%

The volume of production index (VoPI) increased by 4.2 percent to 149.5 from 143.5 last year. Eight out of 16 sectors posted year-on-year increases led by **wood & wood products**, which increased by 105.9 percent. Other sectors which contributed to the increase of the overall VoPI were **transport equipment** (64.8%), **tobacco** (16.5%), **electrical machinery** (15.4%), **other manufacturing industries** (14.4%), **furniture & fixtures** (9.8%), **food manufacturing** (2.9%) and **wearing apparel** (0.9%).



GAINERS OVER LAST YEAR	YEAR-ON-YEAR (unweighted) GROWTH RATE	CONTRIBUTION TO THE OVERALL GROWTH RATE
Wood & Wood Products	105.9%	42.7%
Transport Equipment	64.8%	30.6%
Electrical Machinery	15.4%	18.1%
Food Manufacturing	2.9%	6.3%
Other Mfg. Industries	14.4%	0.7%
Furniture & Fixtures	9.8%	0.6%
Wearing Apparel	0.9%	0.6%
Tobacco	16.5%	0.3%
LOSERS OVER LAST YEAR		
	YEAR-ON-YEAR (unweighted) GROWTH RATE	CONTRIBUTION TO THE OVERALL GROWTH RATE
Basic Metals	-40.3%	-25.2%
Petroleum Refineries	-13.2%	-23.2%
Chemicals/Plastic & Plastic Prods.	-22.8%	-18.6%
Textile	-29.5%	-13.9%
Non-Metallic Mineral Prods.	-26.0%	- 8.1%
Paper & Paper Products	-15.1%	- 5.2%
Rubber Products	-26.2%	- 3.5%
Beverage	-12.2%	- 2.3%

**TABLE A. VALUE OF PRODUCTION INDEX, ANNUAL AND MONTHLY GROWTH FOR MANUFACTURING
BY INDUSTRY MAJOR GROUP: JANUARY 1998 - SEPTEMBER 1999
(1985 = 100)**

MONTH	TOTAL MANUFACTURING			FOOD MANUFACTURING			BEVERAGE			TOBACCO		
	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH
1998	466.3	-2.1		339.9	19.1		411.0	11.7		202.6	10.7	
JAN	465.6	9.3	-0.5	351.7	14.9	-5.2	417.9	19.7	42.1	195.5	65.2	14.2
FEB	484.0	1.9	4.0	316.2	-2.3	-10.1	350.5	6.3	-16.1	175.0	4.0	-10.5
MAR	490.3	9.2	1.3	371.8	23.5	17.6	383.6	21.8	9.4	206.8	34.5	18.2
APR	431.5	-5.9	-12.0	345.0	11.8	-7.2	429.5	8.2	12.0	193.4	-2.7	-6.5
MAY	453.8	0.6	5.2	321.1	18.9	-6.9	432.3	6.1	0.6	237.5	14.7	22.8
JUN	498.2	8.6	9.8	317.0	28.1	-1.3	452.7	23.4	4.7	212.1	8.2	-10.7
JUL	480.6	-0.2	-3.5	351.1	61.8	10.8	396.4	5.7	-12.4	215.8	8.1	1.8
AUG	462.5	-6.8	-3.8	335.5	42.7	-4.4	397.2	16.8	0.2	204.9	11.6	-5.1
SEP	487.5	-1.2	5.4	371.8	64.4	10.8	405.6	5.2	2.1	197.0	1.3	-3.8
OCT	463.2	-8.4	-5.0	289.0	1.5	-22.3	390.7	-9.5	-3.7	210.7	2.8	7.0
NOV	452.3	-18.2	-2.4	354.3	6.1	22.6	422.2	-0.8	8.1	197.4	-1.4	-6.3
DEC	426.0	-9.0	-5.8	354.4	-4.4	0.0	453.5	54.2	7.4	184.5	7.8	-6.5
1999												
JAN	445.5'	-4.3	4.6	383.6	9.1	8.2	392.1	-6.2	-13.5	201.6	3.1	9.3
FEB	478.6'	-0.9	7.7	442.7	40.0	15.4	426.7	21.7	8.8	189.4	8.3	-6.0
MAR	533.4'	8.8	11.2	488.9'	31.5	10.4	494.0	28.8	15.8	221.3	7.0	16.8
APR	469.4'	8.8	-12.0	393.7'	14.1	-19.5	440.1	2.5	-10.9	186.1	-3.7	-15.9
MAY	492.0'	8.4	4.8	419.5'	30.6	6.6	473.9	9.6	7.7	205.2'	-13.6	10.2
JUN	513.3'	3.0	4.3	397.9'	25.5	-5.1	472.0'	4.3	-0.4	221.2'	4.3	7.8
JUL	492.3	2.4	-4.1	353.1	0.6	-11.3	430.7	8.6	-8.8	215.5	-0.1	-2.5
AUG	556.7	20.4	13.1	301.5	-10.1	-14.6	372.6	-6.2	-13.5	200.2	-2.3	-7.1
SEP	541.9	11.2	-2.7	376.3	1.2	24.8	419.0	3.3	12.4	224.7	14.0	12.2

TABLE A. VALUE OF PRODUCTION INDEX, ANNUAL AND MONTHLY GROWTH FOR MANUFACTURING
 BY INDUSTRY MAJOR GROUP: JANUARY 1998 - SEPTEMBER 1999 (continued)
 (1985 = 100)

MONTH	TEXTILE			WEARING APPAREL			WOOD AND WOOD PRODUCTS			FURNITURE AND FIXTURES		
	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH
1998	145.4	-3.0		266.2	11.3		133.8	0.7		553.0	7.9	
JAN	106.0	-22.6	-16.3	274.8	40.0	-12.6	85.1	-28.9	-38.8	533.5	29.0	0.7
FEB	147.5	-8.6	39.2	286.9	58.4	4.4	147.9	13.4	73.7	533.4	22.5	0.0
MAR	158.9	6.9	7.7	268.6	42.3	-6.4	149.8	15.4	1.3	550.1	27.7	3.1
APR	113.6	-20.9	-28.5	253.5	31.1	-5.6	131.2	1.5	-12.4	509.2	1.9	-7.4
MAY	132.1	-11.5	16.3	258.0	17.6	1.8	130.4	2.3	-0.6	518.7	16.7	1.9
JUN	160.7	14.9	21.7	286.7	26.8	11.1	153.6	18.7	17.8	565.0	25.7	8.9
JUL	154.6	1.2	-3.8	265.8	-2.0	-7.3	145.5	11.2	-5.3	608.9	16.2	7.8
AUG	172.9	5.0	11.8	249.1	-0.4	-6.3	140.5	5.4	-3.4	532.2	0.7	-12.6
SEP	166.9	-2.1	-3.5	259.5	-2.9	4.2	111.0	-22.1	-21.1	543.9	-10.4	2.2
OCT	156.5	-1.9	-6.2	279.5	0.7	7.7	118.9	-14.9	7.1	593.9	-13.2	9.2
NOV	154.4	5.8	-1.3	261.2	-8.0	-6.5	138.9	-3.1	16.8	605.9	0.9	2.0
DEC	121.2	-4.3	-21.5	250.7	-20.3	-4.0	152.7	9.7	10.0	541.0	2.1	-10.7
1999												
JAN	118.8	12.1	-2.0	214.8	-21.8	-14.3	89.3	4.9	-41.5	507.7	-4.8	-6.2
FEB	152.8	3.6	28.6	235.4	-17.9	9.6	88.1	-40.5	-1.4	536.3	0.5	5.6
MAR	146.5	-7.8	-4.1	213.8	-20.4	-9.2	114.9	-23.3	30.4	554.6	0.8	3.4
APR	126.2	11.1	-13.9	191.9	-24.3	-10.2	107.1	-18.4	-6.8	651.8	28.0	17.5
MAY	146.5	10.9	16.1	205.7	-20.3	7.2	141.9	8.8	32.5	330.9	-36.2	-49.2
JUN	138.4	-13.9	-5.5	242.0	-15.6	17.7	114.8	-25.2	-19.0	579.6	2.6	75.2
JUL	147.9	-4.3	6.9	226.3	-14.9	-6.5	123.1	-15.4	7.1	579.6	-4.8	0.0
AUG	138.1	-20.1	-6.6	222.6	-10.7	-1.7	102.1	-27.3	-17.0	606.5	13.9	4.6
SEP	141.6	-15.2	2.5	267.6	3.1	20.2	224.7	102.5	120.0	659.7	21.3	8.8

TABLE A. VALUE OF PRODUCTION INDEX, ANNUAL AND MONTHLY GROWTH FOR MANUFACTURING
 BY INDUSTRY MAJOR GROUP: JANUARY 1998 - SEPTEMBER 1999 (continued)
 (1985 = 100)

MONTH	PAPER AND PAPER PRODUCTS			CHEMICALS			RUBBER PRODUCTS			PETROLEUM PRODUCTS		
	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH
1998	260.6	19.3		353.5	11.2		160.3	-4.5		225.4	-8.5	
JAN	228.8	-3.9	3.2	327.2	12.7	0.0	129.9	-16.0	42.9	266.3	8.9	-7.4
FEB	225.9	-1.3	-1.2	343.3	17.9	4.9	156.4	-6.4	20.4	220.9	-9.2	-17.0
MAR	272.7	39.9	20.7	368.9	23.6	7.5	166.3	7.5	6.3	225.3	-1.6	2.0
APR	248.4	9.4	-8.9	341.1	9.1	-7.5	154.0	-5.2	-7.4	209.1	-12.8	-7.2
MAY	256.2	16.5	3.1	329.7	10.6	-3.3	154.9	0.0	0.6	199.0	-13.9	-4.8
JUN	302.9	21.1	18.2	333.0	-1.1	1.0	159.7	-5.8	3.2	246.9	8.1	24.1
JUL	276.2	13.7	-8.8	400.8	19.1	20.4	155.8	-28.0	-2.5	237.8	-1.4	-3.7
AUG	288.3	39.3	4.4	364.5	19.5	-9.1	192.6	18.2	23.6	211.2	-15.8	-11.2
SEP	281.0	41.6	-2.5	360.5	8.3	-1.1	199.5	0.3	3.6	240.3	13.6	13.8
OCT	276.9	41.7	-1.5	382.9	13.2	6.2	175.3	-9.3	-12.1	214.3	-20.5	-10.8
NOV	248.2	25.5	-10.4	339.5	-1.8	-11.3	148.0	-22.0	-15.6	217.6	-22.5	1.5
DEC	222.0	0.1	-10.6	350.1	7.0	3.1	131.6	44.7	-11.1	215.9	-24.9	-0.8
1999												
JAN	239.6	4.7	7.9	357.0	9.1	2.0	184.2	41.8	40.0	186.3	-30.0	-13.7
FEB	278.4	23.2	16.2	420.0	22.3	17.6	189.5	21.1	2.8	202.3	-8.4	8.6
MAR	304.5	11.7	9.4	476.4	29.1	13.4	212.2	27.6	12.0	201.5	-10.6	-0.4
APR	227.0	-8.6	-25.5	448.2	31.4	-5.9	187.3	21.6	-11.7	206.1	-1.4	2.3
MAY	279.4	9.1	23.1	441.5	33.9	-1.5	191.6	23.7	2.3	249.8	25.5	21.2
JUN	244.3	-19.4	-12.6	402.4	20.8	-8.9	226.5	41.8	18.2	248.9	0.8	-0.4
JUL	266.7	-3.4	9.2	371.5	-7.3	-7.7	221.6	42.2	-2.2	255.7	7.5	2.8
AUG	263.2	-8.7	-1.3	350.3	-3.9	-5.7	194.5	1.0	-12.2	223.0	5.6	-12.8
SEP	289.5	3.0	10.0	295.9	-17.9	-15.5	173.9	-12.8	-10.6	262.7	9.3	17.8

TABLE A. VALUE OF PRODUCTION INDEX, ANNUAL AND MONTHLY GROWTH FOR MANUFACTURING
BY INDUSTRY MAJOR GROUP: JANUARY 1998 - SEPTEMBER 1999 (concluded)
(1985 = 100)

MONTH	NON-METALLIC MINERAL PRODS.			BASIC METALS			TRANSPORT EQUIPMENT			ELECTRICAL MACHINERY			MISC. MANUFACTURES		
	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH
1998	307.7	-24.6		359.1	-18.3		1427.0	-42.0		1515.8	22.1		264.2	-5.3	
JAN	366.7	-15.1	0.4	338.1	-19.5	-8.3	1432.4	-36.0	3.5	1469.0	63.3	4.7	364.7	35.7	51.8
FEB	341.2	-19.9	-7.0	441.7	28.1	30.6	1625.6	-41.5	13.5	1605.6	39.2	9.3	257.6	11.4	-29.4
MAR	388.6	-6.7	13.9	386.2	-9.1	-12.6	1713.5	-31.9	5.4	1491.3	42.2	-7.1	271.7	-0.2	5.5
APR	325.5	-25.7	-16.2	239.1	-32.5	-38.1	1130.1	-52.9	-34.0	1446.3	26.3	-3.0	269.1	1.8	-0.9
MAY	390.0	-10.6	19.8	284.7	-25.1	19.1	1420.3	-42.3	25.7	1542.1	37.6	6.6	257.0	-9.2	-4.5
JUN	308.8	-25.0	-20.8	350.8	-19.5	23.2	1622.4	-30.0	14.2	1709.1	38.8	10.8	223.8	-26.6	-12.9
JUL	299.3	-27.0	-3.1	467.6	1.8	33.3	1514.3	-52.9	-6.7	1446.6	36.6	-15.4	234.9	-26.1	4.9
AUG	277.9	-22.5	-7.2	355.9	-29.2	-23.9	1499.3	-51.4	-1.0	1473.1	18.7	1.8	225.7	-24.5	-3.9
SEP	265.3	-29.6	-4.5	427.5	-21.4	20.1	1256.3	-52.2	-16.2	1647.0	17.6	11.8	212.8	-18.1	-5.7
OCT	256.6	-35.8	-3.3	312.0	-43.0	-27.0	1397.5	-27.3	11.2	1622.1	4.4	-1.5	309.5	4.1	45.4
NOV	243.3	-42.6	-5.2	358.8	-27.4	15.0	1343.9	-47.7	-3.8	1437.8	-12.4	-11.4	290.1	-6.4	-6.3
DEC	229.1	-37.3	-5.8	346.6	-6.0	-3.4	1168.9	-15.5	-13.0	1300.0	-7.4	-9.6	253.5	5.5	-12.6
1999															
JAN	251.1	-31.5	9.6	249.6	-26.2	-28.0	1583.2	10.5	35.4	1410.8	-4.0	8.5	201.2	-44.8	-20.6
FEB	266.7	-21.0	7.4	262.8	-36.0	13.3	1636.7	0.7	3.4	1425.7	-11.2	1.1	292.6	13.6	45.4
MAR	294.4	-24.2	9.2	274.9	-28.8	-2.8	1878.0	9.6	14.7	1668.5	11.9	17.0	260.5	-4.1	-11.0
APR	263.3	-19.1	-10.6	232.8	-2.6	-15.3	1516.3	34.2	-19.3	1518.0	5.0	-9.0	290.4	7.9	11.5
MAY	280.8	-28.0	6.6	236.4	-17.0	1.5	1707.4	20.2	12.6	1480.9	-4.0	-2.4	227.7	-11.4	-21.6
JUN	256.8	-16.8	-8.5	204.0	-41.8	-13.7	1698.1	4.7	-0.5	1774.1	3.8	19.8	225.8	0.9	-0.8
JUL	257.4	-14.0	0.2	252.7	-46.0	23.9	1971.5	30.2	16.1	1539.3	6.4	-13.2	211.4	-10.0	-6.4
AUG	243.2	-12.5	-5.5	211.8	-40.5	-16.2	1925.4	28.4	-2.3	2391.0	62.3	55.3	216.7	-4.0	2.5
SEP	237.4	-10.5	-2.4	237.9	-44.4	12.3	2132.4	69.7	10.8	1897.2	15.2	-20.7	232.8	9.4	7.4

r - revised due to updating of late responding establishments

**TABLE B. PRODUCER'S PRICE INDEX, ANNUAL AND MONTHLY GROWTH FOR MANUFACTURING
BY INDUSTRY MAJOR GROUP: JANUARY 1998 - SEPTEMBER 1999
(1992 = 100)**

MONTH	TOTAL MANUFACTURING			FOOD MANUFACTURING			OTHER FOOD MANUFACTURING			BEVERAGE		
	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH
1998	131.6	10.9		143.1	11.8		143.5	16.9		121.7	6.1	
JAN	130.3	12.0	5.4	140.7	10.8	6.8	136.5	13.0	4.0	119.4	0.3	4.9
FEB	131.8	12.9	1.2	140.2	11.1	-0.4	137.5	13.1	0.8	119.4	0.3	0.0
MAR	129.6	10.0	-1.7	140.5	10.3	0.2	137.6	14.4	0.1	119.4	4.9	0.0
APR	130.4	11.0	0.6	139.2	9.1	-0.9	140.5	17.3	2.1	120.9	6.2	1.3
MAY	131.2	11.9	0.7	141.6	11.3	1.7	141.4	17.4	0.6	122.4	7.5	1.2
JUNE	131.8	12.8	0.4	143.6	12.3	1.4	145.5	19.7	2.9	122.4	7.5	0.0
JUL	131.8	12.9	0.0	144.0	14.3	0.3	145.4	19.0	0.0	122.1	7.3	-0.2
AUG	131.6	11.1	-0.2	143.3	13.0	-0.5	146.4	20.6	0.7	123.1	7.8	0.8
SEP	132.3	10.5	0.5	143.3	12.1	0.0	146.3	19.0	-0.1	123.6	8.6	0.4
OCT	132.7	9.7	0.3	145.4	12.2	1.5	146.4	19.1	0.1	123.1	8.2	-0.4
NOV	133.7	9.2	0.7	147.9	12.2	1.7	149.4	16.7	2.0	122.2	7.4	-0.8
DEC	132.0	6.8	-1.3	147.9	12.3	0.0	148.8	13.4	-0.4	122.5	7.6	0.3
1999												
JAN	133.1	2.2	0.9	148.6	5.6	0.5	143.6	5.2	-3.5	139.1	16.5	13.5
FEB	133.9	1.6	0.6	148.0	5.6	-0.4	143.7	4.5	0.1	139.0	16.5	0.0
MAR	134.3	3.6	0.3	148.6	5.8	0.5	142.2	3.3	-1.1	139.0	16.5	0.0
APR	135.9	4.2	1.2	148.7	6.8	0.1	142.3	1.3	0.1	138.9	14.9	0.0
MAY	136.2	3.8	0.3	149.0	5.2	0.2	142.3	0.7	0.0	143.3	17.1	3.1
JUNE	137.7	4.5	1.1	150.0	4.5	0.7	138.9	-4.5	-2.4	144.6	18.2	0.9
JUL	138.1	4.8	0.2	149.3	3.7	-0.5	138.2	-4.9	-0.5	145.4	19.1	0.6
AUG	139.5	6.1	1.1	147.5	2.9	-1.2	137.4	-6.1	-0.6	145.4	18.1	0.0
SEP	141.1	6.7	1.1	147.3	2.8	-0.1	136.7	-6.6	-0.5	145.4	17.6	0.0

**TABLE B. PRODUCER'S PRICE INDEX, ANNUAL AND MONTHLY GROWTH FOR MANUFACTURING
BY INDUSTRY MAJOR GROUP: JANUARY 1998 - SEPTEMBER 1999 (continued)**

(1992 = 100)

MONTH	TOBACCO			TEXTILE			WEARING APPAREL			LEATHER & LEATHER PRODS.		
	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH
1998	167.3	5.3		98.3	10.7		302.5	62.7		180.9	15.6	
JAN	166.3	7.6	4.4	93.4	2.2	4.2	327.3	107.5	44.3	184.1	17.6	17.6
FEB	166.3	4.1	0.0	95.6	8.1	2.3	306.2	73.8	-6.4	184.1	17.6	0.0
MAR	166.3	4.4	0.0	98.7	10.4	3.3	289.0	68.1	-5.6	184.1	17.6	0.0
APR	167.5	5.2	0.7	98.9	12.5	0.2	275.9	53.5	-4.5	184.1	17.6	0.0
MAY	167.5	5.2	0.0	99.1	13.3	0.2	276.1	64.3	0.1	184.1	17.6	0.0
JUNE	167.5	5.2	0.0	98.4	12.7	-0.7	302.0	74.1	9.4	178.6	14.1	-3.0
JUL	167.7	5.3	0.1	99.3	12.7	0.9	302.9	62.1	0.3	178.6	14.1	0.0
AUG	167.7	5.3	0.0	98.1	10.3	-1.3	323.9	77.4	6.9	178.6	14.1	0.0
SEP	167.7	5.3	0.0	99.1	12.5	1.0	315.7	68.7	-2.5	178.6	14.1	0.0
OCT	167.8	5.4	0.1	98.9	11.6	-0.1	312.2	55.4	-1.1	178.6	14.1	0.0
NOV	167.8	5.4	0.0	99.0	9.9	0.1	297.9	35.1	-4.6	178.6	14.1	0.0
DEC	167.7	5.3	-0.1	101.2	12.9	2.2	301.6	32.9	1.2	178.6	14.1	0.0
1999												
JAN	164.1	-1.3	-2.1	120.9	29.5	19.5	289.9	-11.4	-3.9	191.5	4.0	7.2
FEB	164.1	-1.3	0.0	122.4	28.1	1.2	289.1	-5.6	-0.3	192.6	4.6	0.6
MAR	164.1	-1.3	0.0	123.3	25.0	0.8	288.4	-0.2	-0.2	192.6	4.6	0.0
APR	164.1	-2.0	0.0	123.0	24.4	-0.3	289.3	4.8	0.3	192.6	4.6	0.0
MAY	164.1	-2.0	0.0	117.9	19.0	-4.1	290.6	5.3	0.5	191.1 ^r	3.8	-0.8
JUNE	164.1	-2.0	0.0	118.1 ^r	20.0	0.1	316.9 ^r	4.9	9.1	191.1	7.0	0.0
JUL	164.1	-2.1	0.0	118.7	19.5	0.5	323.5	6.8	2.1	188.6	5.6	-1.3
AUG	164.1	-2.1	0.0	119.9	22.3	1.0	322.7	-0.3	-0.2	190.2	6.5	0.8
SEP	164.1	-2.1	0.0	119.1	20.3	-0.6	322.5	2.2	-0.1	190.2	6.5	0.0

**TABLE B. PRODUCER'S PRICE INDEX, ANNUAL AND MONTHLY GROWTH FOR MANUFACTURING
BY INDUSTRY MAJOR GROUP: JANUARY 1998 - SEPTEMBER 1999 (continued)**

(1992 = 100)

MONTH	FOOTWEAR			WOOD & WOOD PRODUCTS			FURNITURE & FIXTURES			PULP, PAPER & PAPERBOARD		
	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH
1998	247.8	18.2		179.5	9.3		115.6	5.7		167.4	14.0	
JAN	246.7	47.3	0.0	179.5	14.8	0.1	115.9	6.2	5.2	163.8	21.1	6.5
FEB	246.7	46.6	0.0	179.5	19.1	0.0	115.9	6.2	0.0	156.2	11.6	-4.6
MAR	246.7	41.1	0.0	179.5	15.1	0.0	115.9	6.2	0.0	158.0	8.2	1.1
APR	246.7	41.1	0.0	179.5	16.7	0.0	115.9	6.2	0.0	165.1	11.5	4.5
MAY	246.7	41.1	0.0	179.5	14.1	0.0	115.9	6.2	0.0	168.2	12.9	1.9
JUNE	248.6	42.2	0.7	179.5	16.9	0.0	115.9	6.2	0.0	168.1	16.0	0.0
JUL	248.6	0.7	0.0	179.5	13.4	0.0	115.2	5.6	-0.6	174.9	19.0	4.0
AUG	248.6	0.7	0.0	179.5	4.3	0.0	115.2	5.6	0.0	167.0	11.4	-4.5
SEP	248.6	0.7	0.0	179.5	3.1	0.0	115.2	5.6	0.0	175.7	19.3	5.2
OCT	248.6	0.7	0.0	179.5	0.1	0.0	115.2	4.6	0.0	172.0	14.1	-2.1
NOV	248.6	0.7	0.0	179.5	0.1	0.0	115.3	5.5	0.0	170.3	12.9	-0.9
DEC	248.6	0.7	0.0	179.5	0.1	0.0	115.3	4.6	0.0	169.7	10.3	-0.4
1999												
JAN	248.6	0.7	0.0	176.5	-1.6	-1.6	118.5	2.2	2.8	193.7	18.3	14.2
FEB	248.6	0.7	0.0	176.5	-1.6	0.0	118.5	2.2	0.0	193.0	23.5	-0.4
MAR	248.6	0.7	0.0	176.5	-1.6	0.0	118.5	2.2	0.0	206.3	30.6	6.9
APR	248.6	0.7	0.0	176.5	-1.6	0.0	118.5	2.2	0.0	197.7	19.8	-4.2
MAY	248.6	0.7	0.0	176.5	-1.6	0.0	118.5	2.2	0.0	194.8 ¹	15.8	-1.5
JUNE	248.6	0.0	0.0	176.5	-1.6	0.0	118.5	2.2	0.0	198.0	17.7	1.6
JUL	248.6	0.0	0.0	176.5	-1.6	0.0	118.5	2.8	0.0	211.8	21.1	7.0
AUG	248.6	0.0	0.0	176.5	-1.6	0.0	118.5	2.8	0.0	213.3	27.8	0.7
SEP	248.6	0.0	0.0	176.5	-1.6	0.0	127.3	10.5	7.4	213.2	21.4	-0.1

**TABLE B. PRODUCER'S PRICE INDEX, ANNUAL AND MONTHLY GROWTH FOR MANUFACTURING
BY INDUSTRY MAJOR GROUP: JANUARY 1998 - SEPTEMBER 1999 (continued)**
(1992 = 100)

MONTH	PRINTING & PUBLISHING			INDUSTRIAL CHEMICALS			OTHER CHEMICAL PRODUCTS			PETROLEUM PRODUCTS		
	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH
1998	147.8	8.6		148.0	24.5		142.2	14.2		111.9	2.6	
JAN	144.1	7.0	2.2	142.6	23.7	14.7	132.6	9.9	3.5	120.2	14.8	6.1
FEB	144.1	7.0	0.0	146.0	28.3	2.4	139.4	13.1	5.1	120.2	14.8	0.0
MAR	144.1	7.9	0.0	145.1	21.3	-0.7	141.1	14.3	1.2	109.6	-2.8	-8.8
APR	145.4	8.8	0.9	146.2	23.9	0.8	142.2 ^r	12.8	0.7	108.8	-2.3	-0.7
MAY	145.4	8.8	0.0	149.2	32.0	2.1	142.8 ^r	15.1	0.5	110.2	0.3	1.3
JUNE	145.4	8.8	0.0	149.4	28.5	0.1	142.6	14.9	-0.2	111.8	6.5	1.5
JUL	147.8	10.6	1.7	148.9	24.5	-0.3	142.8	15.1	0.2	108.5	9.3	-3.0
AUG	147.8	10.5	0.0	147.6	22.5	-0.9	142.7	14.3	-0.1	108.6	-0.7	0.1
SEP	147.8	4.8	0.0	149.4	26.1	1.3	143.0	14.7	0.2	109.0	-2.6	0.4
OCT	147.8	4.8	0.0	150.2	22.4	0.5	143.2	14.3	0.2	110.9	-2.1	1.7
NOV	156.8	11.1	6.0	150.8	21.4	0.4	147.2	16.7	2.7	114.1	0.7	2.9
DEC	156.8	11.2	0.0	150.2	20.8	-0.4	147.0	14.8	-0.1	111.1	-2.0	-2.7
1999												
JAN	153.1	6.2	-2.4	152.3 ^r	6.8	1.4	149.8	13.0	1.9	110.2	-8.3	-0.7
FEB	153.1	6.2	0.0	151.0 ^r	3.4	-0.9	150.9	8.3	0.7	109.1	-9.3	-1.1
MAR	153.1	6.2	0.0	149.6 ^r	3.1	-0.9	151.2	7.1	0.2	108.4	-1.1	-0.6
APR	153.1	5.3	0.0	151.5 ^r	3.6	1.3	150.8	6.1	-0.3	113.3	4.2	4.6
MAY	153.1	5.3	0.0	150.3 ^r	0.7	-0.8	150.6	5.4	-0.2	117.9 ^r	7.0	4.0
JUNE	153.1	5.3	0.0	153.1	2.5	1.8	153.0	7.3	1.6	121.5 ^r	8.7	3.1
JUL	153.1	3.5	0.0	150.2	0.8	-1.9	151.4	6.0	-1.1	124.2	14.5	2.2
AUG	157.8	6.8	3.1	152.6	3.4	1.6	151.5	6.1	0.1	132.3	21.8	6.5
SEP	157.8	6.8	0.0	153.1	2.4	0.3	151.4	5.9	0.0	137.2	25.9	3.7

TABLE B. PRODUCER'S PRICE INDEX, ANNUAL AND MONTHLY GROWTH FOR MANUFACTURING
BY INDUSTRY MAJOR GROUP: JANUARY 1998 - SEPTEMBER 1999 (continued)

(1992 = 100)

MONTH	MISCELLANEOUS PETROLEUM			RUBBER PRODUCTS			PLASTIC PRODUCTS			OTHER NON-METALLIC		
	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH
1998	118.7	10.2		103.6	2.2		119.1	7.0		100.2	-1.9	
JAN	117.5	9.7	7.6	100.9	-0.5	-0.5	118.4	10.7	2.6	98.3	-5.5	-2.5
FEB	117.5	9.7	0.0	100.7	-0.6	-0.1	118.4	9.0	0.0	99.4	-4.5	1.1
MAR	117.5	9.7	0.0	105.0	3.6	4.2	117.9	7.8	-0.4	99.4	-3.7	0.0
APR	117.5	9.7	0.0	105.9	4.5	0.9	117.0 ^r	6.4	-0.8	99.1	-4.2	-0.3
MAY	117.5	9.7	0.0	107.7	6.2	1.6	119.5 ^r	8.6	2.1	99.1	-4.4	0.0
JUNE	117.5	9.7	0.0	107.4	6.0	-0.2	118.4	6.7	-0.9	99.1	-4.4	0.0
JUL	120.8	12.8	2.8	106.3	4.8	-1.1	119.0	6.5	0.6	100.8	-2.6	1.7
AUG	120.8	12.8	0.0	106.2	4.8	-0.1	119.0	6.5	0.0	100.9	3.5	0.0
SEP	120.8	10.6	0.0	106.3	4.9	0.1	119.0	5.3	0.0	101.9	1.7	1.0
OCT	120.8	10.6	0.0	81.9 ^r	-19.2	-22.9	119.0	5.3	0.0	101.9	0.8	0.0
NOV	118.4	8.4	-2.0	106.9	5.4	30.4	122.1	5.3	2.6	101.6	0.9	-0.3
DEC	118.4	8.4	0.0	107.9	6.4	0.9	122.1	5.7	0.0	101.6	0.8	0.0
1999												
JAN	116.4	-1.0	-1.7	122.4	21.4	13.5	127.7	7.9	4.7	111.2	13.1	9.5
FEB	116.4	-1.0	0.0	121.6 ^r	20.8	-0.7	125.8	6.2	-1.5	111.7	12.4	0.5
MAR	116.4	-1.0	0.0	124.5	18.6	2.3	126.9	7.6	0.9	112.0	12.7	0.3
APR	116.4	-1.0	0.0	124.7	17.7	0.2	126.9	8.5	-0.1	112.3	13.3	0.3
MAY	116.4	-1.0	0.0	126.8	17.8	1.7	128.5 ^r	7.6	1.3	112.3	13.3	0.0
JUNE	116.4	-1.0	0.0	126.1	17.3	-0.6	135.2	14.2	5.2	112.0	13.0	-0.3
JUL	116.4	-3.6	0.0	125.0	17.6	-0.9	131.9	10.8	-2.4	112.0	11.2	0.0
AUG	116.4	-3.6	0.0	125.0	17.7	0.0	135.0	13.4	2.3	114.6	13.7	2.3
SEP	116.4	-3.6	0.0	125.5	18.1	0.4	136.2	14.5	1.0	114.6	12.5	0.0

TABLE B. PRODUCER'S PRICE INDEX, ANNUAL AND MONTHLY GROWTH FOR MANUFACTURING
 BY INDUSTRY MAJOR GROUP: JANUARY 1998 - SEPTEMBER 1999 (continued)

(1992 = 100)

MONTH	GLASS & GLASS PRODUCTS			CEMENT			IRON & STEEL			NON-FERROUS METAL		
	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH
1998	102.8	6.7		98.3	-17.4		130.5	16.8		124.6	6.5	
JAN	99.9	-3.2	9.8	112.9	-9.1	-1.5	126.9	21.1	-0.4	125.4	5.9	-0.8
FEB	103.9	4.8	4.0	112.9	-9.8	0.0	137.6	32.9	8.4	136.1	15.1	8.6
MAR	104.6	7.0	0.6	108.9	-13.5	-3.6	138.2	34.6	0.5	130.8	10.1	-3.9
APR	105.2	6.3	0.6	105.9	-13.2	-2.7	135.5	37.1	-2.0	134.0	16.3	2.5
MAY	104.1	5.2	-1.1	102.3	-14.8	-3.4	138.2	30.5	2.0	125.4	7.6	-6.4
JUNE	103.8	9.0	-0.2	102.3	-13.8	0.0	130.2	22.9	-5.8	129.9	10.3	3.6
JUL	105.2	11.5	1.3	89.1	-24.1	-12.9	129.2	16.1	-0.7	122.4	11.6	-5.8
AUG	102.3	7.6	-2.8	83.5	-27.7	-6.3	135.7	19.2	5.1	118.1	5.7	-3.5
SEP	102.0	6.3	-0.3	87.6	-23.9	4.9	129.1	10.3	-4.9	117.9	2.1	-0.2
OCT	96.0	1.3	-5.8	97.8	-14.7	11.6	124.9	1.0	-3.2	119.0	0.8	0.9
NOV	101.5	10.5	5.7	94.9	-17.2	-2.9	121.7	-3.0	-2.6	118.7	0.6	-0.3
DEC	105.6	16.1	4.1	81.8 ^r	-28.6	-13.8	118.7	-6.8	-2.4	117.2	-7.3	-1.3
1999												
JAN	101.1	1.2	-4.3	72.1	-36.1	-11.9	107.1	-15.6	-9.8	118.9	-5.2	1.5
FEB	102.5	-1.4	1.3	87.4	-22.5	21.3	107.0	-22.2	-0.1	123.1	-9.5	3.6
MAR	99.5	-4.9	-2.9	98.4	-9.6	12.5	108.5	-21.5	1.4	119.4	-8.7	-3.1
APR	108.5	3.1	9.0	107.8	1.8	9.5	113.4	-16.3	4.5	117.4	-12.4	-1.7
MAY	106.9	2.7	-1.4	109.8 ^r	7.3	1.9	104.2	-24.6	-8.1	118.4 ^r	-5.6	0.9
JUNE	107.5	3.6	0.6	113.8	11.2	3.6	109.5	-15.8	5.1	111.7	-14.0	-5.7
JUL	107.5	2.2	0.0	118.3	32.7	3.9	112.1	-13.2	2.4	112.2	-8.3	0.4
AUG	107.4	5.0	-0.1	121.4	45.5	2.6	114.4	-15.7	2.1	113.3	-4.0	1.0
SEP	109.1	7.0	1.6	122.6	40.0	1.0	115.3	-10.7	0.8	113.3	-3.9	0.0

TABLE B. PRODUCER'S PRICE INDEX, ANNUAL AND MONTHLY GROWTH FOR MANUFACTURING
BY INDUSTRY MAJOR GROUP: JANUARY 1998 - SEPTEMBER 1999 (concluded)

(1992 = 100)

MONTH	FABRICATED METAL PRODUCTS			MACHINERY			ELECTRICAL MACHINERY			TRANSPORT EQUIPMENT			OTHER MANUFACTURING INDUSTRIES		
	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH
1998	162.9	40.4		116.7	11.5		136.5	16.1		114.3	13.6		129.2	17.4	
JAN	174.9	54.5	39.6	113.1	9.0	5.3	130.4	13.3	8.1	109.1	9.2	6.1	122.9	10.6	1.3
FEB	162.9	43.2	-6.9	115.2	11.0	1.8	133.6	16.0	2.5	110.2	8.5	1.0	126.1	19.7	2.6
MAR	161.9	48.3	-0.6	114.2	10.0	-0.9	132.9	13.2	-0.8	107.0	6.4	-2.9	125.3	17.4	-0.7
APR	163.5	48.4	1.0	114.2	10.0	0.0	135.0	15.8	2.0	110.7	10.2	3.5	126.6	18.6	1.1
MAY	163.5	49.4	0.0	116.5	12.3	2.0	136.5	16.0	0.7	111.1 ^r	10.6	0.4	123.4 ^r	15.8	-2.5
JUNE	163.4	48.4	-0.1	117.5	13.2	0.9	134.7	15.5	-1.3	111.2	11.0	0.1	130.9	18.3	6.1
JUL	164.9	49.3	0.9	118.2	13.9	0.7	139.3	17.3	3.4	117.4	16.7	5.5	132.8	22.4	1.5
AUG	162.5	39.1	-1.5	119.2	14.0	0.0	140.3	19.5	0.7	114.7	14.4	-2.3	135.2	20.4	1.0
SEP	162.4	31.2	0.0	118.2	13.6	0.0	141.2	19.7	0.8	120.4	20.3	4.9	133.6	14.4	-1.2
OCT	161.0	28.7	-0.9	118.2	11.2	0.0	139.0	17.9	-1.5	120.4	20.0	0.0	131.8	15.9	-1.4
NOV	157.0	25.3	-2.5	118.2	10.0	0.0	139.3	17.8	0.2	119.7	17.7	-0.5	129.3	13.8	-1.8
DEC	157.0	25.3	0.0	118.2	10.0	0.0	134.8	11.8	-3.2	119.9	16.7	0.2	131.9	8.7	2.0
1999															
JAN	143.7 ^r	-17.8	-8.5	119.2	5.4	0.8	138.3	6.1	2.6	119.9	9.9	0.0	126.5	4.5	-2.6
FEB	143.8 ^r	-11.8	0.1	119.2	3.5	0.0	138.3	3.5	0.0	120.4	9.3	0.4	124.9	-1.0	-2.8
MAR	145.0 ^r	-10.5	0.8	119.2	4.4	0.0	138.0	3.9	-0.2	119.7	11.9	-0.8	122.0	-2.6	-2.3
APR	141.8 ^r	-13.3	-2.2	119.5	4.6	0.2	137.8	1.6	-0.2	120.0	8.3	0.3	124.0	-2.0	1.7
MAY	139.6 ^r	-14.6	-1.5	114.1	-2.0	-4.5	137.5	0.7	-0.2	121.3	9.2	1.1	126.7 ^r	2.7	2.2
JUNE	139.7 ^r	-14.5	0.1	114.1	-2.9	0.0	138.4	2.8	0.6	121.6	9.3	0.2	128.7	-1.7	1.5
JUL	139.5	-15.4	-0.2	114.1	-3.5	0.0	135.3	-2.8	-2.2	122.8	4.6	1.0	128.2	-3.4	-0.3
AUG	135.9	-16.3	-2.5	114.1	-3.5	0.0	135.0	-3.8	-0.2	123.0	7.2	0.2	120.6	-4.9	0.3
SEP	132.4	-18.5	-2.6	114.1	-3.5	0.0	140.9	-0.2	4.4	123.9	3.0	0.7	127.8	-4.3	-0.6

r - revised due to updating of late responding establishments

**TABLE C. VOLUME OF PRODUCTION INDEX, ANNUAL AND MONTHLY GROWTH FOR MANUFACTURING
BY INDUSTRY MAJOR GROUP: JANUARY 1998 - SEPTEMBER 1999
(1992 = 100)**

MONTH	TOTAL MANUFACTURING			FOOD MANUFACTURING			BEVERAGE			TOBACCO		
	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH
1998	138.0	-11.6		112.2	4.8		140.6	5.1		97.5	5.2	
JAN	139.2	-2.4	-5.3	119.8	2.6	-7.8	145.8	19.4	35.5	94.7	53.6	9.4
FEB	143.0	-9.8	2.7	107.6	-12.8	-10.2	122.3	6.0	-16.1	84.7	-0.1	-10.5
MAR	147.3	-0.7	3.0	126.3	9.9	17.4	133.9	16.1	9.4	100.2	28.8	18.2
APR	128.9	-15.2	-12.5	116.6	-1.0	-7.7	148.0	1.9	10.6	93.0	-7.5	-7.2
MAY	134.6	-10.0	4.5	107.3	4.0	-8.0	147.1	-1.3	-0.6	114.2	9.0	22.8
JUN	147.2	-3.8	9.3	103.7	10.6	-3.3	154.0	14.8	4.7	102.0	2.9	-10.7
JUL	142.0	-11.6	-3.5	114.7	38.8	10.6	135.2	-1.5	-12.2	103.7	2.7	1.7
AUG	136.9 ^r	-16.1	-3.6	109.6	22.4	-4.5	134.4 ^r	8.3	-0.6	98.4	6.0	-5.1
SEP	143.5 ^r	-10.6	4.8	121.4 ^r	42.5	10.8	136.6 ^r	-3.1	1.7	94.6	-3.8	-3.8
OCT	135.9 ^r	-16.5	-5.3	93.6 ^r	-12.1	-22.9	132.2 ^r	-16.4	-3.3	101.1	-2.4	6.9
NOV	131.8 ^r	-25.1	-3.1	112.7 ^r	-7.2	20.3	143.9 ^r	-7.6	8.9	94.7	-6.5	-6.3
DEC	125.7 ^r	-14.4	-4.6	113.0 ^r	-13.1	0.2	154.2 ^r	43.3	7.1	88.6	2.4	-6.5
1999												
JAN	130.3 ^r	-6.4	3.7	123.9	3.4	9.7	117.4	-19.5	-23.8	98.9	4.5	11.7
FEB	139.5 ^r	-2.4	7.0	143.3	33.2	15.6	127.8	4.5	8.8	93.0	9.7	-6.0
MAR	154.7 ^r	5.0	10.9	158.6 ^r	25.6	10.7	148.0	10.6	15.8	108.6	8.4	16.8
APR	134.5 ^r	4.4	-13.0	127.6 ^r	9.5	-19.5	131.9	-10.9	-10.9	91.3 ^r	-1.7	-15.9
MAY	140.6 ^r	4.4	4.5	135.9 ^r	26.7	6.5	137.7	-6.4	4.4	100.7 ^r	-11.8	10.2
JUN	145.1 ^r	-1.4	3.2	129.8 ^r	25.2	-4.4	135.9 ^r	-11.8	-1.3	108.5 ^r	6.4	7.8
JUL	138.8	-2.2	-4.3	115.8	0.9	-10.8	123.3	-8.8	-9.3	105.8	2.0	-2.6
AUG	155.4	13.5	11.9	99.8	-8.9	-13.8	106.7	-20.6	-13.5	98.2	-0.2	-7.1
SEP	149.5	4.2	-3.7	124.9	2.9	25.2	120.0	-12.2	12.4	110.2	16.5	12.2

TABLE C. VOLUME OF PRODUCTION INDEX, ANNUAL AND MONTHLY GROWTH FOR MANUFACTURING
 BY INDUSTRY MAJOR GROUP: JANUARY 1998 - SEPTEMBER 1999 (continued)
 (1992 = 100)

MONTH	TEXTILE		WEARING APPAREL		WOOD AND WOOD PRODUCTS		FURNITURE AND FIXTURES	
	INDEX	ANNUAL % GROWTH	INDEX	ANNUAL % GROWTH	INDEX	ANNUAL % GROWTH	INDEX	ANNUAL % GROWTH
1998	72.5	-12.5	37.6	-31.1	58.7	-8.1	205.8	2.1
JAN	55.6	-24.3	35.8	-32.5	37.4	-38.1	197.9	21.5
FEB	75.6	-15.4	40.0	-8.8	64.9	-4.8	197.9	15.3
MAR	78.9	-3.2	39.6	-15.3	65.8	-0.1	204.1	20.2
APR	56.3	-29.7	39.2	-14.6	57.6	-13.0	189.0	-4.0
MAY	65.3	-21.8	39.9	-28.4	57.3	-10.3	192.5	9.9
JUN	80.0	2.0	40.5	-27.2	67.4	1.5	209.7	18.4
JUL	76.3	-10.3	37.4	-39.6	63.9	-1.9	227.3	10.1
AUG	86.4	-4.8	32.8	-43.9	61.7	1.0	198.7	-4.6
SEP	82.5	-13.0	35.1	-42.4	48.7	-24.5	203.0	-15.1
OCT	77.5	-12.1	38.2	-35.2	52.2	-14.9	221.7	-17.1
NOV	76.4	-3.7	37.4	-31.9	61.0	-3.2	226.1	-4.4
DEC	58.7	-15.2	36.5	-40.0	67.1	9.6	201.9	-2.4
1999								
JAN	48.1	-13.4	31.6	-11.8	39.9	6.6	184.3 ^r	-6.9
FEB	61.2 ^r	-19.1	34.7	-13.1	39.3 ^r	-39.5	194.7 ^r	-1.6
MAR	58.2	-26.2	31.6	-20.2	51.3	-22.0	201.3 ^r	-1.4
APR	50.3	-10.7	28.3 ^r	-27.8	47.8 ^r	-17.0	236.6 ^r	25.2
MAY	60.9	-6.8	30.2 ^r	-24.3	63.3 ^r	10.6	120.1 ^r	-37.6
JUN	57.4 ^r	-28.2	32.6 ^r	-19.5	51.3 ^r	-24.0	210.4 ^r	0.4
JUL	61.0	-20.0	29.8	-20.3	54.9	-14.0	210.4	-7.4
AUG	56.4	-34.7	29.4	-10.4	45.6	-26.1	220.2	10.8
SEP	58.2	-29.5	35.4	0.9	100.3	105.9	222.9	9.8

**TABLE C. VOLUME OF PRODUCTION INDEX, ANNUAL AND MONTHLY GROWTH FOR MANUFACTURING
BY INDUSTRY MAJOR GROUP: JANUARY 1998 - SEPTEMBER 1999 (continued)**
(1992 = 100)

MONTH	PAPER AND PAPER PRODUCTS			CHEMICALS/PLASTIC & PLASTIC PRODS.			PETROLEUM PRODUCTS			RUBBER PRODUCTS		
	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH
1998	89.2	4.4		138.7	-3.0		120.5	-10.9		75.7	-8.5	
JAN	80.0	-20.7	-3.1	134.7	-0.2	-5.3	132.5	-5.2	-12.7	64.3	-15.6	43.6
FEB	82.9	-11.6	3.5	136.4	2.0	1.3	109.9	-20.9	-17.0	77.5	-5.9	20.6
MAR	98.9	29.3	19.4	145.9	7.9	6.9	123.0	1.3	11.9	79.1	3.8	2.0
APR	86.2	-1.9	-12.8	134.3	-4.2	-8.0	115.0	-10.7	-6.5	72.6	-9.3	-8.2
MAY	87.3	3.2	1.2	132.8	-2.7	-1.1	108.0	-14.2	-6.0	71.8	-5.9	-1.1
JUN	103.2	4.4	18.3	129.9	-14.9	-2.1	132.1	1.5	22.3	74.2	-11.1	3.4
JUL	90.5	-4.5	-12.3	156.2	3.2	20.2	131.1	-9.8	-0.7	73.2	-31.4	-1.4
AUG	98.9	25.1	9.3	142.4	4.3	-8.8	116.4	-15.2	-11.2	90.6	12.9	23.7
SEP	91.7	18.7	-7.3	140.3	-6.1	-1.5	131.9	16.7	13.4	93.7	-4.3	3.5
OCT	92.3	24.2	0.7	148.7	-0.9	6.0	115.6	-18.7	-12.4	81.9	-14.0	-12.6
NOV	83.5	11.1	-9.5	129.0	-15.0	-13.2	114.1	-23.1	-1.3	69.1	-26.1	-15.6
DEC	75.0	-9.2	-10.2	133.2	-6.4	3.3	116.3	-23.4	1.9	60.9	36.0	-11.9
1999												
JAN	70.9	-11.4	-5.5	133.3 ^r	-1.0	0.0	101.1	-23.7	-13.0	75.1 ^r	16.8	23.4
FEB	82.7 ^r	-0.2	16.6	157.0 ^r	15.1	17.8	111.0 ^r	0.9	9.8	77.8 ^r	0.3	3.5
MAR	84.6	-14.5	2.3	177.9 ^r	22.0	13.3	111.2	-9.6	0.2	85.1 ^r	7.6	9.4
APR	65.8 ^r	-23.7	-22.2	167.2 ^r	24.5	-6.1	108.7 ^r	-5.4	-2.2	75.0 ^r	3.3	-11.9
MAY	82.2 ^r	-5.9	24.9	164.7 ^r	24.0	-1.5	126.7 ^r	17.3	16.5	75.5 ^r	5.1	0.6
JUN	70.7 ^r	-31.5	-14.0	146.6 ^r	12.8	-11.0	122.5 ^r	-7.3	-3.3	89.7 ^r	20.9	18.9
JUL	72.1	-20.3	2.0	137.5	-12.0	-6.2	123.1	-6.1	0.5	88.5	20.9	-1.3
AUG	70.7	-28.6	-2.0	128.5	-9.8	-6.5	100.8	-13.4	-18.1	77.7	-14.2	-12.2
SEP	77.8	-15.1	10.1	108.2	-22.8	-15.7	114.5	-13.2	13.6	69.2	-26.2	-11.0

**TABLE C. VOLUME OF PRODUCTION INDEX, ANNUAL AND MONTHLY GROWTH FOR MANUFACTURING
BY INDUSTRY MAJOR GROUP: JANUARY 1998 - SEPTEMBER 1999 (continued)**
(1992 = 100)

MONTH	NON-METALLIC MINERAL PRODS.			GLASS AND GLASS PRODUCTS			CEMENT			MISC. NON-METALLIC MINERAL PRODS.		
	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH
1998	122.5	-12.1		154.8	35.1		106.1	-21.6		130.3	-24.1	
JAN	137.7	-2.5	5.6	180.6	60.3	58.9	123.2	-11.5	2.5	131.5	-23.8	-22.5
FEB	125.7	-10.2	-8.8	156.0	34.4	-13.6	115.9	-13.6	-6.0	120.2	-31.5	-8.6
MAR	143.6	6.2	14.2	157.0	59.2	0.7	136.0	3.8	17.4	148.5	-17.0	23.5
APR	125.1	-14.5	-12.8	161.7	33.7	3.0	108.9	-23.1	-20.0	128.6	-28.8	-13.4
MAY	149.4	2.3	19.4	163.6	43.1	1.2	125.1	-14.3	14.9	192.5	9.6	49.7
JUN	122.8	-12.0	-17.8	172.6	49.3	5.5	100.1	-31.0	-20.0	128.9	-13.7	-33.0
JUL	125.0	-10.6	1.8	146.7	34.3	-15.0	117.0	-19.1	17.0	123.0	-21.4	-4.6
AUG	121.9	-4.9	-2.5	156.7	43.3	6.8	109.5	-8.5	-6.5	118.2	-28.5	-3.9
SEP	112.4	-15.9	-7.8	141.9	23.0	-9.4	97.7	-20.3	-10.7	118.8	-32.5	0.5
OCT	103.5	-27.4	-7.9	135.5	4.2	-4.5	71.7	-15.1	-26.7	147.4	-19.3	24.1
NOV	99.6	-33.3	-3.8	135.3	12.8	-0.2	75.3	-49.4	5.0	122.7	-31.2	-16.8
DEC	103.0 ^r	-21.0	3.4	150.4	32.4	11.2	92.5 ^r	-23.0	22.9	83.0 ^r	-51.0	-32.3
1999												
JAN	117.2 ^r	-14.9	13.8	140.5	-22.2	-6.6	122.5 ^r	-0.5	32.5	83.3	-36.7	0.3
FEB	112.8 ^r	-10.2	-3.8	143.6 ^r	-7.9	2.2	113.1 ^r	-2.4	-7.7	83.4	-30.6	0.2
MAR	114.0 ^r	-20.6	1.0	138.3	-11.9	-3.7	111.7	-17.9	-1.2	96.6	-34.9	15.8
APR	97.9 ^r	-21.7	-14.1	140.9	-12.9	1.9	89.5 ^r	-17.8	-19.9	77.3	-39.9	-20.0
MAY	101.8 ^r	-31.9	4.0	139.4	-14.8	-1.1	82.0 ^r	-34.4	-8.4	112.6 ^r	-41.5	45.7
JUN	94.3 ^r	-23.2	-7.4	147.9 ^r	-14.3	6.1	80.3 ^r	-19.8	-2.1	76.5 ^r	-40.6	-32.0
JUL	92.1	-26.3	-2.3	141.9	-3.3	-4.1	77.3	-33.9	-3.7	79.9	-35.0	4.5
AUG	87.0	-28.6	-5.6	142.5	-9.0	0.4	71.5	-34.7	-7.6	71.1	-39.9	-11.1
SEP	83.2	-26.0	-4.4	129.7	-8.6	-9.0	76.9	-21.4	7.5	54.4	-54.2	-23.4

**TABLE C. VOLUME OF PRODUCTION INDEX, ANNUAL AND MONTHLY GROWTH FOR MANUFACTURING
BY INDUSTRY MAJOR GROUP: JANUARY 1998 - SEPTEMBER 1999 (continued)**
(1992 = 100)

MONTH	BASIC METALS			IRON AND STEEL			NON-FERROUS METAL		
	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH
1998	93.6	-29.8		90.1	-32.8		126.7	0.7	
JAN	89.7	-33.8	-8.5	85.8	-38.1	-10.4	127.5	18.5	6.6
FEB	109.5	-2.0	22.1	109.9	-2.1	28.1	106.1	-0.3	-16.8
MAR	94.9	-31.5	-13.3	91.4	-34.4	-16.8	128.7	-1.9	21.3
APR	58.2	-50.9	-38.6	51.6	-55.9	-43.6	122.4	-9.6	-4.9
MAY	69.9	-41.7	19.9	64.4	-45.5	24.9	122.4	-10.1	0.0
JUN	91.7	-33.3	31.2	91.4	-32.7	41.9	94.7	-38.3	-22.6
JUL	124.2	-12.1	35.5	125.0	-12.0	36.8	116.7	-12.8	23.2
AUG	90.0	-40.4	-27.5	85.6	-44.1	-31.5	132.5	0.4	13.6
SEP	113.6	-29.4	26.1	111.9	-33.9	30.8	129.3 ^r	62.1	-2.4
OCT	84.3	-44.5	-25.8	79.4 ^r	-48.3	-29.0	131.1	-3.6	1.3
NOV	99.3	-26.3	17.8	94.3	-29.8	18.7	147.3 ^r	6.2	12.4
DEC	97.6 ^r	-0.4	-1.7	91.0	-5.0	-3.5	161.5	35.0	9.6
1999									
JAN	76.7 ^r	-14.5	-21.4	73.0	-14.9	-19.8	112.6 ^r	-11.7	-30.3
FEB	87.3 ^r	-20.3	13.8	85.0	-22.7	16.5	109.3 ^r	3.0	-3.0
MAR	83.0	-12.6	-4.9	77.6	-15.0	-8.6	134.2 ^r	4.3	22.8
APR	67.9	16.6	-18.2	64.6	25.2	-16.8	100.0	-18.3	-25.5
MAY	74.5 ^r	6.7	9.7	71.4 ^r	10.9	10.5	104.8	-14.4	4.8
JUN	61.1 ^r	-33.4	-18.0	54.4 ^r	-40.4	-23.8	125.1	32.1	19.4
JUL	74.5	-40.0	21.9	66.9	-46.4	23.0	146.6	25.6	17.2
AUG	60.1	-33.2	-19.2	50.0	-41.6	-25.4	157.8	19.0	7.6
SEP	67.8	-40.3	12.7	58.6	-47.7	17.2	156.0	20.6	-1.1

**TABLE C. VOLUME OF PRODUCTION INDEX, ANNUAL AND MONTHLY GROWTH FOR MANUFACTURING
BY INDUSTRY MAJOR GROUP: JANUARY 1998 - SEPTEMBER 1999 (concluded)**
(1992 = 100)

MONTH	ELECTRICAL MACHINERY			TRANSPORT EQUIPMENT			OTHER MANUFACTURING INDUSTRIES		
	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH	INDEX	ANNUAL % GROWTH	MONTHLY % GROWTH
1998	379.2	15.9		102.5	-48.5		285.2	-21.7	
JAN	384.6	44.1	-3.2	107.3	-41.4	-2.4	412.0	16.2	49.9
FEB	410.1	20.0	6.6	120.6	-46.6	12.4	283.7	-6.9	-31.2
MAR	383.0	25.7	-6.6	130.9	-36.0	8.6	301.2	-15.1	6.2
APR	364.1	9.1	-5.0	83.4	-57.2	-36.3	295.3	-14.1	-2.0
MAY	385.6	18.6	5.9	104.4	-47.8	25.2	289.1	-42.1	-2.1
JUN	433.1	20.2	12.3	119.2	-36.9	14.1	237.4	-37.9	-17.9
JUL	354.4	16.5	-18.2	105.4	-59.6	-11.6	245.6 ^r	-39.7	3.4
AUG	358.3	-0.6	1.1	106.8	-57.5	1.3	231.8	-41.7	-5.6
SEP	398.1	-1.7	11.1	85.3	-58.7	-20.1	221.2	-28.4	-4.6
OCT	398.2	-11.4	0.0	94.9	-39.4	11.2	326.2	-10.2	47.5
NOV	352.2	-25.7	-11.5	91.8	-55.6	-3.3	311.5	-17.8	-4.5
DEC	329.1	-17.1	-6.6	79.7	-27.6	-13.2	266.9	-2.9	-14.3
1999									
JAN	348.1	-9.5	5.8	108.0	0.6	35.5	217.5	-47.2	-18.5
FEB	351.8	-14.2	1.1	111.1	-7.9	2.9	325.4	14.7	49.6
MAR	412.5	7.7	17.3	128.3	-2.0	15.4	296.7	-1.5	-8.8
APR	376.0	3.3	-8.9	103.3	23.9	-19.5	325.2	10.1	9.6
MAY	367.6	-4.7	-2.2	115.0	10.1	11.3	249.6	-13.7	-23.2
JUN	437.6	1.0	19.0	114.1	-4.3	-0.8	243.8 ^r	2.7	-2.3
JUL	388.4	9.6	-11.2	131.2	24.5	15.0	228.9	-6.8	-6.1
AUG	604.5	68.7	55.6	127.9	19.8	-2.5	234.0	0.9	2.2
SEP	459.6	15.4	-24.0	140.6	64.8	9.9	253.0	14.4	8.1

^r - revised due to updating of late responding establishments

TABLE 1. INDEX OF VALUE OF PRODUCTION OF KEY MANUFACTURING ENTERPRISES, BY INDUSTRY
 SEPTEMBER 1998 - SEPTEMBER 1999
 (1985=100)

SECTOR	1998												1999														
	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
MANUFACTURING	487.5	463.2	452.3	426.0	445.5	479.6	533.4	469.4	492.0	513.3	492.3	556.7	541.9														
A. FOOD MANUFACTURING	371.8	289.0	354.3	354.4	383.6	442.7	488.9	393.7	419.5	397.9	353.1	301.5	376.3														
1. BAKERY PRODUCTS	717.4	899.9	762.5	1138.0	701.4	681.8	702.3	589.8	744.5	701.2	716.1	715.5	643.3														
2. COCONUT PRODUCTS	542.4	417.5	507.8	468.6	534.7	577.5	618.9	502.3	581.9	676.3	570.4	487.2	546.3														
3. MILK & DAIRY PRODUCTS	387.1	373.8	421.4	385.7	354.4	418.7	409.0	328.3	399.4	451.2	413.6	442.8	380.6														
4. GRAIN MILL PRODUCTS	168.1	175.6	166.8	165.2	154.9	156.2	175.3	153.1	142.3	142.4	157.1	155.8	158.8														
5. PROCESSED MEAT & FISH	790.7	841.9	795.4	801.0	649.9	750.9	811.0	549.0	684.3	690.0	845.2	817.4	852.1														
6. PROCESSED FRUITS & VEG.	224.3	233.6	212.3	208.0	200.0	226.2	211.0	203.2	274.9	154.1	159.4	197.4	220.3														
7. MILLED & REFINED SUGAR	298.7	82.9	276.7	314.6	426.8	588.6	724.7	579.0	535.0	385.5	280.5	130.7	373.4														
8. VEG/ANIMAL OILS & FATS	340.8	330.8	288.9	257.7	283.6	237.4	185.0	142.1	148.2	144.6	168.2	183.1	211.2														
9. ANIMAL FEEDS	236.0	226.2	201.0	222.8	198.7	191.8	209.5	200.0	203.6	209.2	195.1	199.8	178.2														
10. MISC. FOOD PRODUCTS	484.3	375.0	514.4	399.0	531.0	499.3	686.2	522.5	642.4	678.6	649.1	686.3	690.6														
B. BEVERAGE	405.6	390.7	422.2	453.5	392.1	426.7	494.0	440.1	473.9	472.0	430.7	372.6	419.0														
C. TOBACCO	197.0	210.7	197.4	184.5	201.6	189.4	221.3	186.1	205.2	221.2	215.5	200.2	224.7														
D. TEXTILE	166.9	166.5	154.4	121.2	118.8	152.8	146.5	126.2	146.5	138.4	147.9	138.1	141.6														
1. TEXTILE PRODUCTS	164.5	153.8	151.6	118.2	115.6	145.2	140.9	120.9	141.6	132.7	143.4	133.6	136.0														
2. CORDAGE ROPE & TWINE	265.2	267.1	270.9	244.4	253.2	472.4	380.1	344.9	349.6	379.6	338.0	327.7	376.4														
E. WEARING APPAREL	259.5	279.5	261.2	250.7	214.8	235.4	213.8	191.9	205.7	242.0	226.3	222.6	287.6														
F. WOOD & WOOD PRODUCTS	111.0	118.9	138.9	152.7	89.3	88.1	114.9	107.1	141.9	114.8	123.1	102.1	224.7														
G. FURNITURE & FIXTURES	543.9	593.9	605.9	541.0	507.7	536.3	554.6	651.8	330.9	579.6	579.6	606.5	659.7														
H. PAPER & PAPER PRODUCTS	281.0	276.9	248.2	222.0	239.6	278.4	304.5	227.0	279.4	244.3	266.7	263.2	289.5														

TABLE 1. INDEX OF VALUE OF PRODUCTION OF KEY MANUFACTURING ENTERPRISES, BY INDUSTRY
 SEPTEMBER 1998 - SEPTEMBER 1999
 (1985=100)

SECTOR	1998												1999																																							
	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP																										
I. CHEMICALS	360.5	382.9	339.5	350.1	357.0	420.0	476.4	448.2	441.5	402.4	371.5	350.3	295.9	373.9	356.5	303.7	342.6	362.6	361.0	540.1	568.6	550.5	403.7	467.6	355.1	174.7	434.3	532.2	458.3	462.8	404.4	651.5	595.2	434.7	421.5	511.1	375.6	427.5	189.3	52.6	45.1	42.8	48.8	37.2	45.7	28.6	39.5	34.0	44.4	45.6	43.0	43.4
1. BASIC INDUSTRIAL CHEMICALS	476.3	463.2	496.3	429.1	508.5	478.2	526.1	534.4	613.2	555.7	520.4	491.9	442.2	381.4	377.9	350.6	310.5	252.7	238.6	255.2	228.8	219.1	285.9	216.8	244.0	506.2	482.9	508.9	489.3	639.7	616.9	670.8	652.1	770.2	773.0	794.9	760.8	870.3	437.7	481.5	438.8	430.0	670.7	476.4	446.3	604.2	589.5	445.0	179.3	420.3	408.7	
2. DRUGS & MEDICINES	294.8	300.5	333.0	261.8	298.1	292.1	328.5	329.5	298.4	345.8	337.2	336.8	410.2	294.8	300.5	333.0	261.8	298.1	292.1	328.5	329.5	298.4	345.8	337.2	336.8	410.2	294.8	300.5	333.0	261.8	298.1	292.1	328.5	329.5	298.4	345.8	337.2	336.8	410.2	294.8	300.5	333.0	261.8	298.1	292.1	328.5	329.5	298.4	345.8	337.2	336.8	410.2
3. FERTILIZERS	199.5	175.3	148.0	131.6	184.2	189.5	212.2	187.3	191.6	226.5	221.6	194.5	173.9	199.5	175.3	148.0	131.6	184.2	189.5	212.2	187.3	191.6	226.5	221.6	194.5	173.9	199.5	175.3	148.0	131.6	184.2	189.5	212.2	187.3	191.6	226.5	221.6	194.5	173.9	199.5	175.3	148.0	131.6	184.2	189.5	212.2	187.3	191.6	226.5	221.6	194.5	173.9
4. PAINTS	240.3	214.3	217.6	215.9	186.3	202.3	201.5	206.1	249.8	248.9	255.7	223.0	262.7	240.3	214.3	217.6	215.9	186.3	202.3	201.5	206.1	249.8	248.9	255.7	223.0	262.7	240.3	214.3	217.6	215.9	186.3	202.3	201.5	206.1	249.8	248.9	255.7	223.0	262.7	240.3	214.3	217.6	215.9	186.3	202.3	201.5	206.1	249.8	248.9	255.7	223.0	262.7
5. INDUSTRIAL GASES	265.3	256.6	243.3	229.1	251.1	269.7	294.4	263.3	280.8	256.8	257.4	243.2	237.4	265.3	256.6	243.3	229.1	251.1	269.7	294.4	263.3	280.8	256.8	257.4	243.2	237.4	265.3	256.6	243.3	229.1	251.1	269.7	294.4	263.3	280.8	256.8	257.4	243.2	237.4	265.3	256.6	243.3	229.1	251.1	269.7	294.4	263.3	280.8	256.8	257.4	243.2	237.4
6. PLASTIC/PLASTIC PRODUCTS	243.4	199.2	203.1	215.2	251.0	281.1	312.5	274.3	256.0	259.9	260.1	246.8	268.0	243.4	199.2	203.1	215.2	251.0	281.1	312.5	274.3	256.0	259.9	260.1	246.8	268.0	243.4	199.2	203.1	215.2	251.0	281.1	312.5	274.3	256.0	259.9	260.1	246.8	268.0	243.4	199.2	203.1	215.2	251.0	281.1	312.5	274.3	256.0	259.9	260.1	246.8	268.0
7. COSMETICS/TOILET PRODUCTS	220.8	198.5	209.5	242.5	216.9	224.5	209.9	233.1	227.4	242.7	232.8	233.5	215.8	220.8	198.5	209.5	242.5	216.9	224.5	209.9	233.1	227.4	242.7	232.8	233.5	215.8	220.8	198.5	209.5	242.5	216.9	224.5	209.9	233.1	227.4	242.7	232.8	233.5	215.8	220.8	198.5	209.5	242.5	216.9	224.5	209.9	233.1	227.4	242.7	232.8	233.5	215.8
8. MISC. CHEMICAL PRODUCTS	357.4	443.5	367.7	249.0	282.9	285.3	331.4	266.1	387.8	262.6	274.3	243.9	186.7	357.4	443.5	367.7	249.0	282.9	285.3	331.4	266.1	387.8	262.6	274.3	243.9	186.7	357.4	443.5	367.7	249.0	282.9	285.3	331.4	266.1	387.8	262.6	274.3	243.9	186.7	357.4	443.5	367.7	249.0	282.9	285.3	331.4	266.1	387.8	262.6	274.3	243.9	186.7
J. RUBBER PRODUCTS	427.5	312.0	358.8	346.6	249.6	282.8	274.9	232.8	236.4	204.0	252.7	211.8	237.9	427.5	312.0	358.8	346.6	249.6	282.8	274.9	232.8	236.4	204.0	252.7	211.8	237.9	427.5	312.0	358.8	346.6	249.6	282.8	274.9	232.8	236.4	204.0	252.7	211.8	237.9	427.5	312.0	358.8	346.6	249.6	282.8	274.9	232.8	236.4	204.0	252.7	211.8	237.9
K. PETROLEUM PRODUCTS	411.3	282.5	326.6	307.5	222.4	258.8	239.8	208.3	211.7	169.6	213.6	162.7	192.3	411.3	282.5	326.6	307.5	222.4	258.8	239.8	208.3	211.7	169.6	213.6	162.7	192.3	411.3	282.5	326.6	307.5	222.4	258.8	239.8	208.3	211.7	169.6	213.6	162.7	192.3	411.3	282.5	326.6	307.5	222.4	258.8	239.8	208.3	211.7	169.6	213.6	162.7	192.3
L. NON-METALLIC MINERAL PRODS.	582.5	595.8	667.6	722.6	511.2	513.7	611.6	467.3	473.7	533.7	628.3	682.7	675.1	582.5	595.8	667.6	722.6	511.2	513.7	611.6	467.3	473.7	533.7	628.3	682.7	675.1	582.5	595.8	667.6	722.6	511.2	513.7	611.6	467.3	473.7	533.7	628.3	682.7	675.1	582.5	595.8	667.6	722.6	511.2	513.7	611.6	467.3	473.7	533.7	628.3	682.7	675.1
1. CEMENT	1256.3	1397.5	1343.9	1168.9	1583.2	1636.7	1878.0	1516.3	1707.4	1698.1	1971.5	1925.4	2132.4	1256.3	1397.5	1343.9	1168.9	1583.2	1636.7	1878.0	1516.3	1707.4	1698.1	1971.5	1925.4	2132.4	1256.3	1397.5	1343.9	1168.9	1583.2	1636.7	1878.0	1516.3	1707.4	1698.1	1971.5	1925.4	2132.4	1256.3	1397.5	1343.9	1168.9	1583.2	1636.7	1878.0	1516.3	1707.4	1698.1	1971.5	1925.4	2132.4
2. GLASS & GLASS PRODUCTS	1647.0	1622.1	1437.8	1300.0	1410.8	1425.7	1668.5	1518.0	1480.9	1774.1	1539.3	2391.0	1897.2	1647.0	1622.1	1437.8	1300.0	1410.8	1425.7	1668.5	1518.0	1480.9	1774.1	1539.3	2391.0	1897.2	1647.0	1622.1	1437.8	1300.0	1410.8	1425.7	1668.5	1518.0	1480.9	1774.1	1539.3	2391.0	1897.2	1647.0	1622.1	1437.8	1300.0	1410.8	1425.7	1668.5	1518.0	1480.9	1774.1	1539.3	2391.0	1897.2
3. MISC. NON-MET. MINERAL PRODS.	1674.1	1440.0	1151.5	1148.1	1279.7	1281.5	1050.9	1017.1	1165.7	1147.3	1054.9	939.3	996.6	1674.1	1440.0	1151.5	1148.1	1279.7	1281.5	1050.9	1017.1	1165.7	1147.3	1054.9	939.3	996.6	1674.1	1440.0	1151.5	1148.1	1279.7	1281.5	1050.9	1017.1	1165.7	1147.3	1054.9	939.3	996.6	1674.1	1440.0	1151.5	1148.1	1279.7	1281.5	1050.9	1017.1	1165.7	1147.3	1054.9	939.3	996.6
M. BASIC METALS	179.5	294.3	289.7	300.0	150.8	128.7	146.6	94.7	122.1	132.8	128.5	128.8	164.7	179.5	294.3	289.7	300.0	150.8	128.7	146.6	94.7	122.1	132.8	128.5	128.8	164.7	179.5	294.3	289.7	300.0	150.8	128.7	146.6	94.7	122.1	132.8	128.5	128.8	164.7	179.5	294.3	289.7	300.0	150.8	128.7	146.6	94.7	122.1	132.8	128.5	128.8	164.7
1. IRON & STEEL	302.0	400.2	466.9	334.4	586.3	633.7	677.4	662.0	770.2	738.7	776.9	782.1	749.9	302.0	400.2	466.9	334.4	586.3	633.7	677.4	662.0	770.2	738.7	776.9	782.1	749.9	302.0	400.2	466.9	334.4	586.3	633.7	677.4	662.0	770.2	738.7	776.9	782.1	749.9	302.0	400.2	466.9	334.4	586.3	633.7	677.4	662.0	770.2	738.7	776.9	782.1	749.9
2. ELEC. LAMPS & FIXTURES	546.1	667.4	712.9	991.0	797.8	796.3	874.1	419.5	474.5	550.0	616.7	720.6	786.8	546.1	667.4	712.9	991.0	797.8	796.3	874.1	419.5	474.5	550.0	616.7	720.6	786.8	546.1	667.4	712.9	991.0	797.8	796.3	874.1	419.5	474.5	550.0	616.7	720.6	786.8	546.1	667.4	712.9	991.0	797.8	796.3	874.1	419.5	474.5	550.0	616.7	720.6	786.8
3. BATTERIES	1760.6	1729.4	1529.0	1383.3	1495.4	1510.3	1779.9	1617.3	1567.1	1892.0	1633.2	2574.3	2029.1	1760.6	1729.4	1529.0	1383.3	1495.4	1510.3	1779.9	1617.3	1567.1	1892.0	1633.2	2574.3	2029.1	1760.6	1729.4	1529.0	1383.3	1495.4	1510.3	1779.9	1617.3	1567.1	1892.0	1633.2	2574.3	2029.1	1760.6	1729.4	1529.0	1383.3	1495.4	1510.3	1779.9	1617.3	1567.1	1892.0	1633.2	2574.3	2029.1
4. ELEC. WIRES & WIRING PRODS.	212.8	309.5	290.1	253.5	201.2	292.6	260.5	290.4	227.7	225.8	211.4	216.7	232.8	212.8	309.5	290.1	253.5	201.2	292.6	260.5	290.4	227.7	225.8	211.4	216.7	232.8	212.8	309.5	290.1	253.5	201.2	292.6	260.5	290.4	227.7	225.8	211.4	216.7	232.8	212.8	309.5	290.1	253.5	201.2	292.6	260.5	290.4	227.7	225.8	21		

**DISTRIBUTION OF SAMPLES AND RESPONDING ESTABLISHMENTS BY INDUSTRY MAJOR GROUP
FEBRUARY 1999 - SEPTEMBER 1999**

SECTOR	N	FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
		n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
MANUFACTURING	553	542	98.0	538	97.3	538	97.3	536	96.9	532	96.2	515	93.1	493	89.2	419	75.8
A. FOOD MANUFACTURING	107	106	99.1	105	98.1	106	99.1	104	97.2	103	96.3	100	93.5	97	90.7	78	72.9
B. BEVERAGE	10	10	100.0	10	100.0	10	100.0	10	100.0	10	100.0	10	100.0	9	90.0	7	70.0
C. TOBACCO	11	11	100.0	11	100.0	11	100.0	11	100.0	11	100.0	11	100.0	10	90.9	10	90.9
D. TEXTILE	36	34	94.4	33	91.7	32	88.9	33	91.7	34	94.4	33	91.7	33	91.7	29	80.6
E. WEARING APPAREL	34	34	100.0	34	100.0	34	100.0	34	100.0	34	100.0	32	94.1	29	85.3	28	82.4
F. WOOD & WOOD PRODUCTS	26	25	96.2	25	96.2	25	96.2	25	96.2	25	96.2	25	96.2	24	92.3	20	76.9
G. FURNITURE & FIXTURES	28	28	100.0	28	100.0	28	100.0	28	100.0	28	100.0	28	100.0	28	100.0	23	82.1
H. PAPER & PAPER PRODUCTS	21	21	100.0	21	100.0	21	100.0	20	95.2	20	95.2	19	90.5	19	90.5	13	61.9
I. CHEMICALS	113	110	97.3	109	96.5	109	96.5	109	96.5	109	96.5	106	93.8	97	85.8	86	76.1
J. RUBBER PRODUCTS	17	17	100.0	17	100.0	17	100.0	17	100.0	17	100.0	15	88.2	15	88.2	15	88.2
K. PETROLEUM PRODUCTS	4	4	100.0	4	100.0	4	100.0	4	100.0	4	100.0	4	100.0	4	100.0	4	100.0
L. NON-METALLIC MINERAL PROD	28	27	96.4	27	96.4	27	96.4	27	96.4	26	92.9	26	92.9	26	92.9	23	82.1
M. BASIC METALS	38	37	97.4	36	94.7	36	94.7	36	94.7	36	94.7	35	92.1	34	89.5	29	76.3
N. TRANSPORT EQUIPMENT	13	12	92.3	12	92.3	12	92.3	12	92.3	12	92.3	12	92.3	10	76.9	6	46.2
O. ELECTRICAL MACHINERY	54	53	98.1	53	98.1	53	98.1	53	98.1	52	96.3	48	88.9	48	88.9	40	74.1
P. MISC. MANUFACTURES	13	13	100.0	13	100.0	13	100.0	13	100.0	11	84.6	11	84.6	10	76.9	8	61.5

TECHNICAL NOTES

I. INTRODUCTION

The *Monthly Integrated Survey of Selected Industries (MISSI)* is the integration of the NSO and the DTI monthly industrial survey. The SKEM had its inception in 1981. It was designed by the National Economic and Development Authority (NEDA) thru its Statistical Coordination Office (SCO) now the NSCB as part of its coordination function and for monitoring the reaction of the economy to the developmental policies and strategies set by the government.

In 1983, the groundwork for the transfer of SKEM to National Statistics Office (NSO) had started but it continued to be implemented by NEDA until April 1986. It was only in May 1986 that the SKEM was officially transferred to NSO.

The objective of the MISSI is to provide planners and policy-makers in both government and private sectors timely flash indicators on the performance of growth-oriented industries in the agro-based, metallic mining and manufacturing sectors. This report, however, covers only the manufacturing sector. The survey also envisions to compliment the Quarterly Survey of Establishments (QSE) for Manufacturing.

The first issue of "*Industry Trends*" containing indices on employment, compensation and production was released in December 1981.

II. COVERAGE AND SAMPLE SELECTION

Selection of sample establishments is being done through an iterative procedure. The initial selection of sample establishments is based on the establishments that were covered by the 1994 CE. Given a sector as defined by the industry coverage, the selection criterion applied is the contribution to the production of the sector by an establishment or percentage *contribution to the value of production*.

In this initial selection procedure the number of establishments to be selected determined by selecting CE respondents which together would account for at least 50 percent of the sector's total production. For the manufacturing sector, to operationalize this criterion the 7,793 1994 CE sample of large manufacturing establishments were ranked according to their percentage contribution to the sector they are classified into. Since the major sectors and subsectors can be further disaggregated in terms of specific industries at the 5-digit PSIC, this factor was also considered in selecting the "top ranking" establishments. This implicit stratification by 5-digit PSIC allows for better industry representation. The initial SKEM sample then underwent the following evaluation and iteration. The sample was assessed in terms of whether or not it includes relevant firms in the top 1000 which is readily available from Business World wherein data is 1995-based. The sample was also assessed in terms of its coverage of firms operating within the economic zones under PEZA and BCDA. To balance the "at least 50% output" criterion and the need to rationalize the total number of samples in the context of timeliness of collection, the number of establishments in sectors for which there are many small contributors was reviewed and trimmed down, as needed. This was especially evident in the textile products and the wearing apparel groups.

Since the list from which they were selected is based on 1994 information, it does not consider firms that started operations in 1995-1997. These firms are also being identified and in this process, the search is being focused on economic zones under PEZA and BCDA.

It may be pointed out that although an enterprise is identified as the sampling unit for the survey, information sought is collected on an establishment basis.

III. REVISION OF NUMBER OF SAMPLE ESTABLISHMENTS

For 1999, the number of manufacturing establishments covered in the MISSI was revised in order to make the sample establishments more representative of the industry. This was done by including large establishments listed in the top 1000 corporations but were not previously taken as samples in the 1998 SKEM and deleting those that have ceased operation or were on strike in 1998. Also deleted from the list were establishments found to be 'small' in terms of employment size and those considered as delinquent respondents in 1998.

IV. QUESTIONNAIRE FORM

Different forms have been designed over the years to achieve the objective of generating economic indices on employment, compensation and production. All the forms are of the shuttle type. The shuttle questionnaire approach reduces cost and enhances consistency in reporting since the respondent is provided a running account of all his past responses for the year.

In 1991, the various forms were integrated into only one questionnaire to facilitate handling and minimize loss of questionnaires. The present form contains three sections:

A. EMPLOYMENT, COMPENSATION AND GROSS REVENUE/SALES REPORT - collects data on employment, compensation and gross revenue/sales of the sample establishments.

B. PRODUCTION REPORT - monitors the monthly production of the establishments' product lines.

Data collected from A and B above are used in the computation of SKEM indices for employment, compensation and production.

C. CAPACITY UTILIZATION - monitors monthly capacity utilization of the establishment.

V. DATA COLLECTION

Items of information are collected by means of the shuttle questionnaire described above of which a copy is kept in the file of the respondent establishment. Between the 10th to the 30th day of each month after the reference month, a staff of NSO which is usually the Statistical Researcher (SR) visits the establishment and copies the data from the establishment's file to his own copy.

Data supplied by the establishment are then furnished the NSO Central Office (Economic Analysis Division). The subject matter specialists copy the data from the SR's copy to their own. Altogether, three copies of the questionnaire for each establishment are

prepared: one by the establishment, another by the SR and the other by subject matter specialists.

VI. DATA PROCESSING

Editing and validation of responses are done manually by subject matter specialists of the Economic Analysis Division of NSO. The group also computes the indices on the sub-sectoral level and selected sectoral level. The computed indices are then encoded into the microcomputer from which a program generates the sectoral indices and overall indices for manufacturing.

For timeliness of dissemination, preliminary indices are generated on a predetermined cut-off date, usually 35 days after the reference month. Reports of non-responding establishments are estimated or imputed based on established imputation procedures or other considerations. The indices are continuously being revised upon receipt of late reports of establishments such that the response rate reach as high as 98% for the final results of the indices. Revision is done by replacing the estimates with the actual values submitted by the establishments and the revised indices are incorporated in the succeeding publications of the "**Industry Trends**".

VII. DETERMINATION OF WEIGHTS

The present SKEM indices at 1985 base year use weights from the 1983 CE with adjustments made for undercoverage in some sectors. Separately, the weights for employment, compensation and production are computed using the formula:

$$W_i = \frac{V_i}{V_t} \quad \text{where: } W_i = \text{weight of subsector } i$$

$$V_i = \text{value of subsector } i \text{ under sector } t$$

$$V_t = \text{value of sector } t$$

$$W_t = \frac{V_t}{V_m} \quad \text{where: } W_t = \text{weight of sector } t$$

$$V_t = \text{value of sector } t$$

$$V_m = \text{value of Total Manufacturing}$$

The sum of the sub-sectoral weights under each sector is equal to 1.

The sum of the sectoral weights for manufacturing is equal to 1.

VIII. METHODOLOGY FOR THE VALUE OF PRODUCTION INDEX COMPUTATION

Initially, the base period for all indices was January 1981. Starting with the 1986 indices, the base year was moved to 1985.

The monthly indices on production, employment and compensation are presented by selected industry groups following the 3-digit (sectoral) and 4-digit (sub-sectoral) level of the 1977 PSIC.

The industry sectors for food, chemicals, non-metallic mineral products, basic metals and electrical machinery have corresponding sub-sectors while the rest have none.

The procedures used in the computation of indices are as follows:

1. Sub-Sectoral Level and for Sectors with no corresponding sub-sectors

$$I_j = \frac{V_t}{V_0} \times 100$$

where: I_j = sub-sectoral index for current month
 V_t = total value for current month for all sample establishments in sub-sector
 V_0 = total average monthly value for base year for all sample establishments in sub-sector

Later, the formula was modified to allow for changes in the composition of the sample establishments under each sub-sector, as follows:

$$I_j = \frac{V_t}{V_{t-1}} \times I_{t-1}$$

where: I_{t-1} = sub-sectoral index for previous month
 I_t = sub-sectoral index for current month
 V_t = total value for current month for all sample establishments in subsector
 V_{t-1} = total value for previous month for all sample establishments in subsector

2. Sectoral Level with corresponding sub-sectors (Food, Chemicals, Non-Metallic Mineral Products, Basic Metals, Electrical Machinery)

$$I_k = \sum_{j=1}^n I_j \times W_j$$

where: I_j = sub-sectoral index for current month
 W_j = weight for sub-sector
 I_k = sectoral index for current month
 n = number of subsectors

3. Manufacturing

$$I_m = \sum_{k=1}^o I_k \times W_k$$

where: I_m = manufacturing index for current month
 I_k = sectoral index for current month
 W_k = sectoral weight
 o = number of sectors

IX. COMPUTATION OF UNWEIGHTED GROWTH RATES

Unweighted growth rates are computed to show the changes in the index over two points in time; i.e. month-on-month and year-on-year.

$$r_m = \frac{(I_m - I_{m-1})}{I_{m-1}} \times 100$$

where: r_m = unweighted month-on-month growth rate
 I_m = current month index
 I_{m-1} = previous month index

$$r_t = \frac{(I_t - I_{t-12})}{I_{t-12}} \times 100$$

where: r_t = unweighted year-on-year growth rate
 I_t = current month index
 I_{t-12} = index for same month of previous year

X. COMPUTATION OF CONTRIBUTION TO OVERALL GROWTH RATES

Contribution to overall growth rates is computed to show the relative share of increases/decreases of the major sectors to the total manufacturing sector.

$$C_m = \frac{r_m \times w_i}{\sum_i^n r_m w_i}$$

where: C_m = contribution to overall month-on-month growth rate
 r_m = unweighted month-on-month growth rate
 w_i = weight for each major sector
 n = major sectors with month-on-month increases/decreases

$$C_t = \frac{r_t \times w_i}{\sum_i^n r_t w_i}$$

where: C_t = contribution to overall year-on-year growth rate
 r_t = unweighted year-on-year growth rate
 w_i = weight for each major sector
 i = major sectors with year-on-year increases/decreases

XI. DEFINITION OF TERMS

Enterprise - refers to an economic unit consisting of one or more establishments under a single ownership or control. It may be a single legal entity such as a corporation, partnership, single proprietorship or a complex family of legal entities under common ownership or control. The enterprise owns and manages the property of the organization; enters into contracts; receives and disposes all of its income; and maintains independent profit-and- loss and balance sheet accounts and other records.

Establishment - is an economic unit, which engages, under a single ownership or control, i.e. under a single legal entity, in one or predominantly one kind of economic activity at a fixed single physical location?

Major Products Produced and/or Services Rendered - refers to the principal economic activity the establishment is engaged in. The description of goods produced and services rendered conform to the economic activity as defined in the 1977 PSIC.

Employment - refers to all person who works in or for the establishment during the pay periods nearest the 15th of each month, including paid employees and working owners and unpaid workers.

Managers and Executives - includes all salaried directors, managers, executives, administrative officers and other officials of the same category. Working owners receiving regular pay are included in this category.

Production Workers - includes all employees directly engaged in the production activities of the establishment. Included are manual workers and clerical personnel. Excluded are supervisory employees above working foreman level.

Working Owners - are owners who are actively engaged in the management of the establishment but do not receive regular pay; i.e. not included in the payroll.

Total Compensation - includes wages and salaries before deductions for employees' social security, withholding taxes, etc. and employer's contribution to SSS/GSIS, MEDICARE and others.

Salaries and Wages - includes basic pay, overtime pay, cost-of-living allowances, vacation and sick leave pay, commissions, bonuses, dismissal or retirement pay, back pay and other benefits prior to deduction of employees' SSS/GSIS contribution, withholding taxes and the like.

Value of Production - refers to the value of all goods produced during the reference month and valued at producer's price, that is, at the establishment price charged to the customer. The valuation includes all duties and taxes, which fall on products when they leave the establishment (ex-plant).

Capacity Utilization - is the ratio of output to the maximum rated capacity.

Rated Capacity - refers to the largest volume of output possible at which the factory can operate with an acceptable degree of efficiency taking into consideration unavoidable losses of productive time (i.e., vacations, holidays and repairs to equipment) and availability of raw materials.

PRODUCER'S PRICE INDEX

I. INTRODUCTION

The Producer's Price Index (1992=100) for Manufacturing is a result of the project "Improvement of the Producer's Price Index of Selected Manufactured Products" through the Grants-in-aid Program of the National Statistical Coordination Board (NSCB).

Studies on the generation of the Producer's Price Index (PPI) started in 1980 when the Index of Physical Volume of Production series prepared by the Central Bank was discontinued. This came about because of the transfer of responsibility of operations and processing of the Monthly Survey of Establishments (MSE) for manufacturing from the Central Bank to the National Statistics Office (NSO).

Work on the original PPI started with 1978 as the base year which was later revised to 1985. Since it was felt that the components of the PPI were no longer reflective of the prevailing production structure of the manufacturing sector, the PPI operations were halted.

From 1992 to 1993, the NSO with guidance from the Technical Committee on Price Statistics, NSCB made studies for improvements in the system of the PPI to make it more reflective of the actual situation of the industry.

II. USES OF PRODUCER'S PRICE INDEX

The Producer's Price Index (PPI) for Manufacturing is a composite figure of producer's prices representative commodities included in the market basket.

The PPI serves various purposes, the most important of which are the following:

- a. measures monthly or yearly changes in the producer's prices of key commodities in the manufacturing sector,
- b. serves as deflator to Value of Production Index (VaPI) in the estimation of Volume of Production Index (VoPI), and
- c. serves as deflator in the estimation of manufacturing production in real terms (at constant prices) in the system of national accounts.

III. WEIGHTS USED

The weights used for the computation of the 1996 PPI were based on data from the 1993 Annual Survey of Establishments (ASE) on Value of Products Sold for all manufacturing establishments.

Since the PPI is of the Paasche-type, the weights are continuously revised upon availability of the latest data from the ASE or CE. The revision of the weights should, however, be instituted only at the beginning of each year (starting January) and shall be used for the entire year.

IV. MARKET BASKET AND SAMPLE ESTABLISHMENTS

The PPI market basket consists of 300 commodities, which are produced by manufacturing establishments in the country. Classification of these commodities is by industry group (4-digit PSIC).

1. Criteria for Selection of Commodities and Sample Establishments

The major criteria adopted in the selection of commodities for the market basket are as follows:

- a. the commodity has relatively high market share
- b. the commodity was available in the market in 1992, this being the base year
- c. the commodity is being produced currently, and
- d. the market share of the commodity has been stable for the last three (3) years based on ASE reports.

In the same manner, criteria were also set for the selection of establishments, as follows:

- a. establishment has an ATE of 50 and over
- b. establishment has relatively high concentration ratio
- c. establishment is good respondent in past and current surveys of NSO; that is, it submits prompt reports and provides quality data, and

V. BASE YEAR

The year 1992 was selected as the base year for which the average monthly producer's prices of commodities were based.

VI. SOURCES OF DATA

Producer's prices of commodities are obtained from the Producer's Price Survey which is conducted monthly by the NSO. The survey covers 180 manufacturing establishments nationwide.

A shuttle type questionnaire is used in the survey. This approach reduces cost and enhances consistency and accuracy in reporting since the respondent establishment is provided with a running account of all past responses for the year.

The following items of data, appearing in the questionnaire, are gathered from the respondent establishment:

- ① Name of product/s
- ② Brand name
- ③ Product specification
- ④ Unit of measure
- ⑤ Producer's price/s of selected product/s.

Distribution of the questionnaires is done only once at the start of each year by NSO field personnel. On or before the 15th day after the reference month, the NSO field staff visits the sample establishments and copies the producer's prices of commodities from the establishment's file to his/her own copy.

VII. DATA PROCESSING

Editing and validation of data of Producer's prices of commodities are done manually. Likewise, price relatives of commodities and the indices at the industry level (4-digit PSIC) are generated manually. These indices are then encoded into the microcomputer for which a program generates the overall PPI and those at the major industry group (3-digit PSIC).

For timeliness of dissemination, preliminary indices generated on a pre-determined cut-off date, usually (six) 6 weeks after the reference month. Data of non-responding establishments are estimated or imputed based on past responses. The indices are continuously being revised upon receipt of late reports of establishments. This process stops only when the collection rate has reached 95 percent for a particular month.

VIII. METHODOLOGY

The procedures used in the computation of the Producer's Price Index are as follows:

1. The industry group level (4-digit PSIC)

The PPI at the 4-digit PSIC is simply the unweighted arithmetic mean of the price relatives of the commodities representing the industry and multiplied by 100.

$$PR_{ij} = \frac{\sum_{n=1}^N p_{ih} / p_{0h}}{N} \times 100$$

where:

PR_{ij} = current month PPI at the i^{th} industry group (4-digit) of the j^{th} major industry group (3-digit)

P_{ih} = current month producer price of commodity h

P_{0h} = average monthly producer price at base year of commodity h

N = total number of representative commodities at i^{th} industry

n = 1,2,3,...,N

The formula for PR_{ij} can be modified such that the average monthly price relative of the commodities in the industry is multiplied by the previous month PPI at the 4-digit PSIC to obtain the current month PPI. That is,

$$PR_{ijm} = PR_{ijm-1} \times \frac{\sum_{n=1}^N p_{im} / p_{im-1}}{N}$$

where:

Pr_{ijm} = current month PPI

Pr_{ijm-1} = previous month PPI

$$\frac{\sum_{n=1}^N p_{hm} / p_{hm-1}}{N} = \text{average price relative of commodities}$$

p_{hm} = current month producer price of commodity h
 p_{hm-1} = previous month producer price of commodity h

The latter formula is especially useful when new commodities enter into the market basket as replacements/additions. The base year prices of these commodities need not be obtained as the alternative then is to make available the previous month producer prices of the new commodities to permit the computation of the price relative, p_{hm}/p_{hm-1} .

2. The industry group and division levels (3-digit and 1-digit PSIC)

The Producer Price's Index for manufacturing at the 3 and 1 digit PSIC is obtained as the weighted harmonic mean of the reciprocal of the component price indices. That is,

$$I_j = \frac{1}{\sum_{i=1}^p w_{ij} (1 / PR_{ij})}$$

where:

- I_j = PPI at the j^{th} industry (3-digit)
- w_{ij} = weight of the i^{th} industry group
- Pr_{ij} = price relative of the i^{th} industry of the j^{th} major industry group
- i = 1,2,3,...,p = number of industry groups at the j^{th} major industry group

$$I_k = \frac{1}{\sum_{j=1}^q w_j (1/I_j)}$$

where:

I_k = PPI for manufacturing (1-digit)

w_j = weight of the j^{th} major industry (3-digit)

I_j = PPI at the j^{th} major industry

j = 1,2,3,...,q = number of major industry groups

IX. COMPUTATION OF UNWEIGHTED GROWTH RATES

Unweighted growth rates are computed to show the changes in the index over two points in time; i.e. month-on-month and year-on-year.

$$r_m = \frac{(I_m - I_{m-1})}{I_{m-1}} \times 100$$

where: r_m = unweighted month-on-month growth rate
 I_m = current month index
 I_{m-1} = previous month index

$$r_t = \frac{(I_t - I_{t-12})}{I_{t-12}} \times 100$$

where: r_t = unweighted year-on-year growth rate
 I_t = current month index
 I_{t-12}^t = index for same month of previous year

X. COMPUTATION OF CONTRIBUTION TO OVERALL GROWTH RATES

Contributions to overall growth rates are computed to show the relative shares of increases/decreases of the major sectors to the total manufacturing sector.

$$C_m = \frac{r_m \times w_i}{\sum_i^n r_m w_i}$$

where: C_m = contribution to overall month-on-month growth rate

r_m = unweighted month-on-month growth rate

w_i = weight for each major sector

n = major sectors with month-on-month increases/decreases

$$C_t = \frac{r_t \times w_i}{\sum_i^n r_t w_i}$$

where: C_t = contribution to overall year-on-year growth rate

r_t = unweighted year-on-year growth rate

w_i = weight for each major sector

i = major sectors with year-on-year increases/decreases

XI. LIMITATION OF DATA

The users of data are advised to be particularly cautious in interpreting and analyzing the PPI results. A careful understanding of the methodology and concepts used are necessary to avoid undue misinterpretation of the data.

The PPI is a Paasche-type index, that is, weights used in the computation are revised yearly by making use of the latest available ASE results. Since the 1996 PPI utilized weights from the 1993 ASE, the resulting index for some sub-sectors may not be comparable to the 1995 index especially if the differences in weights for both years are significant. This is true for the following sub-sectors, namely: other food manufacturing (PSIC 312), wood and wood products (PSIC 331), furniture and fixture (PSIC 332), non-ferrous metal (PSIC 372) and other manufacturing (PSIC 390).

XII. DEFINITION OF TERMS

Base year is the year chosen as reference on which the movement in prices of the current year to movement in the previous years are compared and at which the index is taken is equal to 100.

Commodities are goods normally intended for sale in the market at a price that is designed to cover the cost of production.

Market basket for the PPI refers to sample commodities produced by manufacturing establishments.

Paasche Index is an index number using fixed quantity weights, usually of the current period.

Price relative is the ratio of current price to the base year.

Producer's price is the unit price (ex-plant) of the commodity as it leaves the establishment of the producer. It includes any indirect tax or subsidy levied/received on the commodity before it leaves the establishment.

Value of products sold refers to value of products sold (sales and inter-plant transfers), whether paid in cash or receivables by the establishments.

VOLUME OF PRODUCTION INDEX

I. METHODOLOGY

A. SHIFTING OF BASE YEAR FROM 1985 TO 1992 FOR VALUE OF PRODUCTION INDEX

The Volume of Production Index (VoPI) is derived from Value of Production Index (VPI) and Producer's Price Index (PPI) with 1992 as the base year. It is important that the VPI and PPI should have the same base year. The VPI figures were shifted to the 1992 base year by dividing the current month index with 1985 as the base year to the average index for 1992 and multiplied by 100.

$$VPI_{i(1992=100)} = \frac{VPI_{i(1985=100)}}{VPI_{ave}} \times 100$$

where:

$VPI_{i(1992=100)}$ = current month index with 1992 as the base year

$VPI_{i(1985=100)}$ = current month index with 1985 as the base year

VPI_{ave} = 1992 average VPI

B. COMPUTATION OF VOLUME OF PRODUCTION INDEX (1992 = 100)

The monthly indices on volume of production are presented by industry major groups following the 3-digit (sectoral) level of the 1977 PSIC.

The formula used in the computation of indices is shown below:

$$VoPI_i = \frac{VPI_i}{PPI_i} \times 100$$

where:

$VoPI_i$ = current month index on volume of production

VPI_i = current month index on value of production

PPI_i = current month index on producer's price

C. COMPUTATION OF UNWEIGHTED GROWTH RATES

Unweighted growth rates are computed to show the changes in the index over two points in time; i.e. month-on-month and year-on-year.

$$r_m = \frac{(I_m - I_{m-1})}{I_{m-1}} \times 100$$

where: r_m = unweighted month-on-month growth rate
 I_m = current month index
 I_{m-1} = previous month index

$$r_t = \frac{(I_t - I_{t-12})}{I_{t-12}} \times 100$$

where: r_t = unweighted year-on-year growth rate
 I_t = current month index
 I_{t-12} = index for same month of previous year

D. COMPUTATION OF CONTRIBUTION TO OVERALL GROWTH RATES

Contribution to overall growth rates are computed to show the relative share of increases/decreases of the major sectors to the total manufacturing sector.

$$C_m = \frac{r_m \times w_i}{\sum_i^n r_m w_i}$$

where: C_m = contribution to overall month-on-month growth rate
 r_m = unweighted month-on-month growth rate
 w_i = weight for each major sector
 n = major sectors with month-on-month increases/decreases

$$C_t = \frac{r_t \times w_i}{\sum_i^n r_t w_i}$$

where: C_t = contribution to overall year-on-year growth rate
 r_t = unweighted year-on-year growth rate
 w_i = weight for each major sector
 i = major sectors with year-on-year increases/decreases