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A PROFILE
OF THE
PHARMACEUTICAL INDUSTRY

Prepared by:

Policy Analysis and
Liaison

February 1985

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Introduction

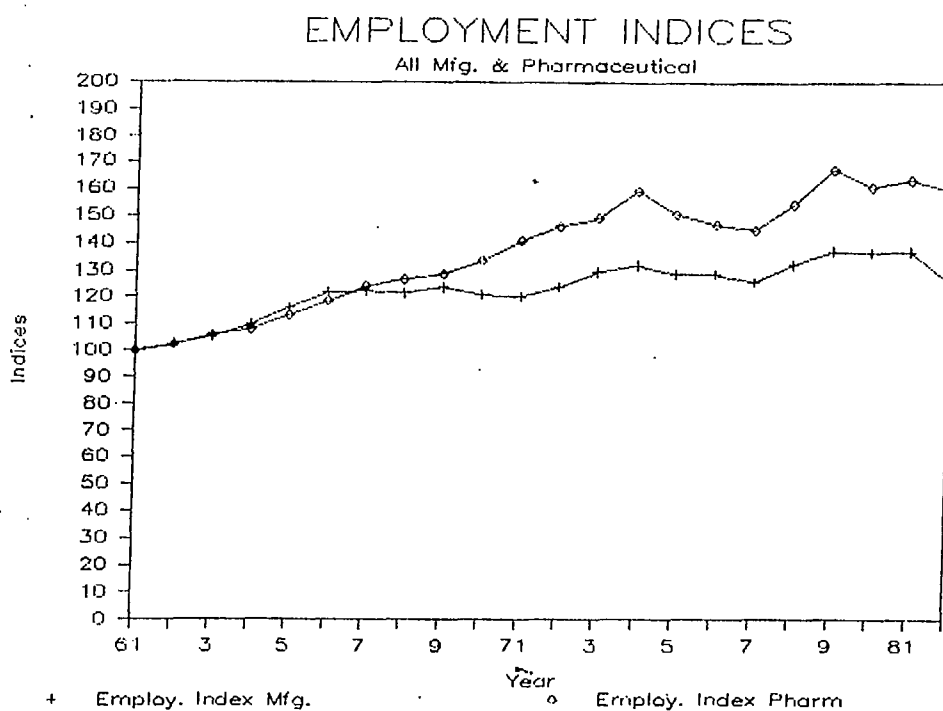
The following pages illustrate some aspects of the pharmaceutical industry in Canada and are meant to help in evaluating the "health" of that industry. The data used in the analysis are the latest available through Statistics Canada and does not allow the separation of the patent from the generic segment of the pharmaceutical industry.

As a basis for comparison, the aggregate data for all manufactures has been chosen because, on the one hand it includes the pharmaceutical industry, and is therefore part of the same statistical universe; and second, it provides a fairly stable basis for comparison. Without such stability, which would be the result of selecting one specific industry, it would be impossible to interpret the variations or the differences without a complete knowledge of the factors that influence each industry, and their relative importance.

Employment

Total employment growth in the pharmaceutical industry followed the same patterns as total employment for all manufactures between 1961 and 1982. However, while growth in all manufactures amounted to 26.3%, growth in the pharmaceutical industry was 59.9%. In the period between 1961 and 1970 employment growth was 21.0% for all manufactures and 33.5% for pharmaceuticals; from 1971 to 1982 the growth was respectively 4.9% and 13.6%.

In summary, the rate of growth of employment in the pharmaceutical industry, which was 1.1 times the rate of growth for all manufactures up to 1970, has since then increased to 2.8 times in 1982.

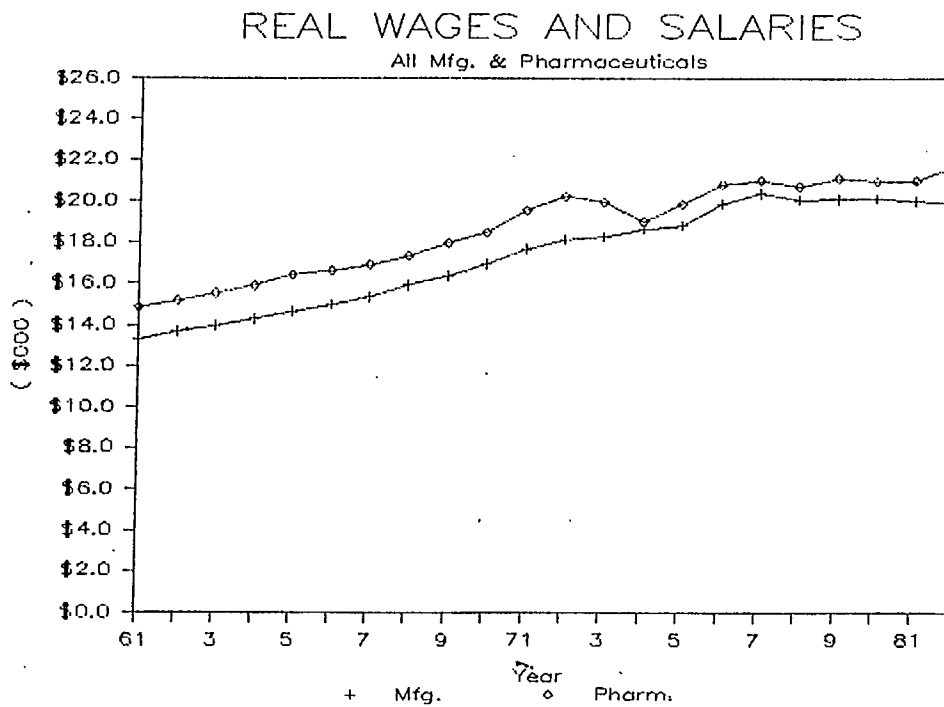


EMPLOYMENT AND EMPLOYMENT INDICES

YEAR	TOTAL NO. EMPLOYEES MFG.	EMPLOYMENT INDEX MFG. (61-82)	EMPLOYMENT INDEX MFG. (61-69)	EMPLOYMENT INDEX MFG. (70-82)	TOTAL NO. EMPLOYEES PHARM.	EMPLOYMENT INDEX PHARM (61-82)	EMPLOYMENT INDEX PHARM (61-69)	EMPLOYMENT INDEX PHARM (70-82)
61	1352605	100.0	100.0		9826	100.0	100.0	
62	1389516	102.7	102.7		10057	102.4	102.4	
63	1425440	105.4	105.4		10418	106.0	106.0	
64	1491257	110.3	110.3		10644	108.3	108.3	
65	1570299	116.1	116.1		11137	113.3	113.3	
66	1646024	121.7	121.7		11649	118.6	118.6	
67	1652827	122.2	122.2		12199	124.2	124.2	
68	1642352	121.4	121.4		12441	126.6	126.6	
69	1675332	123.9	123.9		12645	128.7	128.7	
70	1637001	121.0	121.0		13122	133.5	133.5	
71	1628404	120.4		100.0	13831	140.8		100.0
72	1676130	123.9		102.9	14345	146.0		103.7
73	1751066	129.5		107.5	14649	149.1		105.9
74	1785977	132.0		109.7	15646	159.2		113.1
75	1741159	128.7		106.9	14793	150.5		107.0
76	1743047	128.9		107.0	14434	146.9		104.4
77	1704483	126.0		104.7	14231	144.8		102.9
78	1790618	132.4		110.0	15173	154.4		109.7
79	1855393	137.2		113.9	16433	167.2		118.8
80	1850409	136.8		113.6	15796	160.8		114.2
81	1853929	137.1		113.8	16058	163.4		116.1
82	1708850	126.3		104.9	15707	159.9		113.6

Wages and salaries

Throughout the period from 1961 to 1982, average salaries and wages in the pharmaceutical industry have been slightly higher than in all manufactures. The real increase in wages and salaries since 1961 has been 49.5% for all manufactures and 46.1% for pharmaceuticals. In 1982, average per capita wages and salaries in the pharmaceutical industry were 9% higher than in all manufactures.



AVERAGE SALARIES

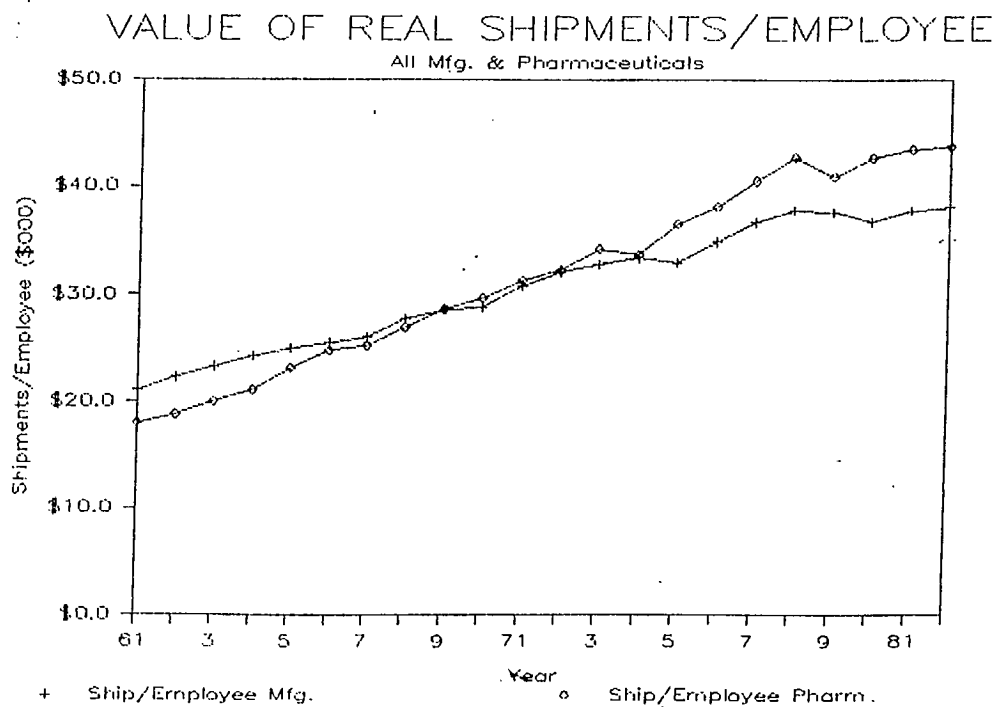
YEAR	ACTUAL MFG \$000	REAL MFG \$000	ACTUAL PHARM \$000	REAL PHARM \$000	REAL INDEX MFG	REAL INDEX PHARM
61	4.215	13.320	4.701	14.855	100.0	100.0
62	4.387	13.699	4.862	15.182	102.8	102.2
63	4.557	13.980	5.059	15.522	105.0	104.5
64	4.748	14.317	5.273	15.899	107.5	107.0
65	4.982	14.658	5.576	16.406	110.0	110.4
66	5.283	14.986	5.855	16.609	112.5	111.8
67	5.599	15.332	6.169	16.893	115.1	113.7
68	6.031	15.914	6.564	17.320	119.5	116.6
69	6.475	16.311	7.122	17.940	122.5	120.8
70	6.942	16.931	7.571	18.466	127.1	124.3
71	7.449	17.652	8.242	19.531	132.5	131.5
72	8.003	18.107	8.945	20.237	135.9	136.2
73	8.692	18.260	9.495	19.948	137.1	134.3
74	9.830	18.618	10.028	18.993	139.8	127.9
75	11.002	18.807	11.623	19.869	141.2	133.8
76	12.507	19.883	13.099	20.825	149.3	140.2
77	13.843	20.387	14.276	21.025	153.1	141.5
78	14.840	20.081	15.306	20.712	150.8	139.4
79	16.230	20.111	17.035	21.109	151.0	142.1
80	17.905	20.141	18.643	20.971	151.2	141.2
81	20.011	20.011	21.019	21.019	150.2	141.5
82	22.059	19.909	24.055	21.710	149.5	146.1

Productivity

NOTE: For the purpose of the following analysis, productivity has been defined in terms of shipments and value added per employee. While this is admittedly a partial and insufficient outlook, the lack of data makes it impossible to conduct a deeper analysis.

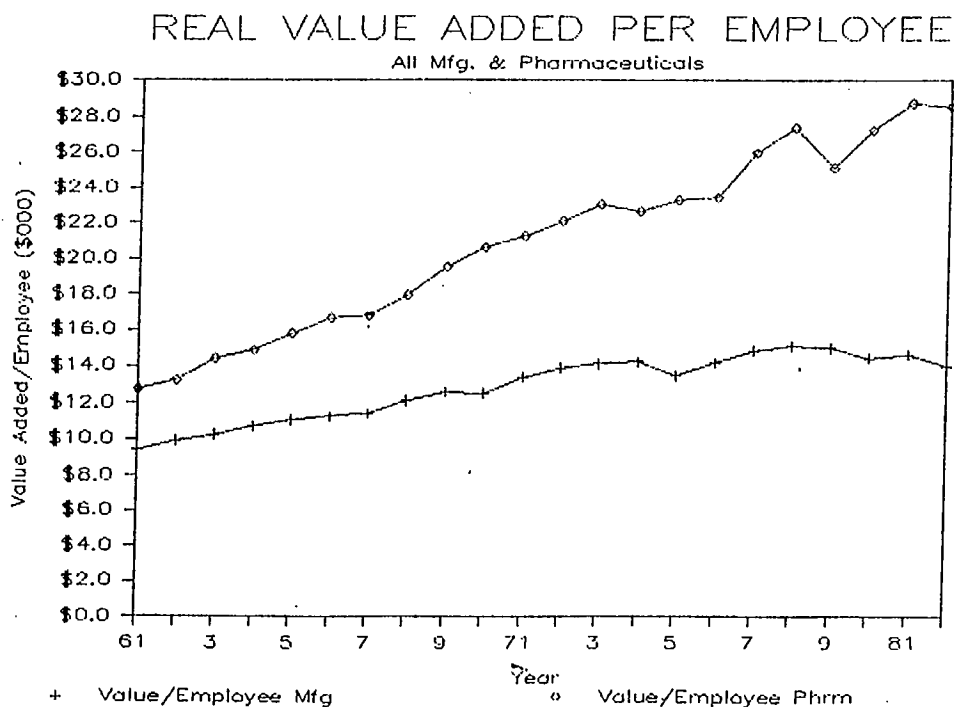
Value of shipments per employee

Between 1961 and 1966, shipments per employee were slightly higher for all manufactures than for the pharmaceutical industry; the two values became even in 1969. From 1970 to 1982, the value of shipments per employee in the pharmaceutical industry has constantly been above the corresponding value for all manufactures. Currently, it is about 15% higher.



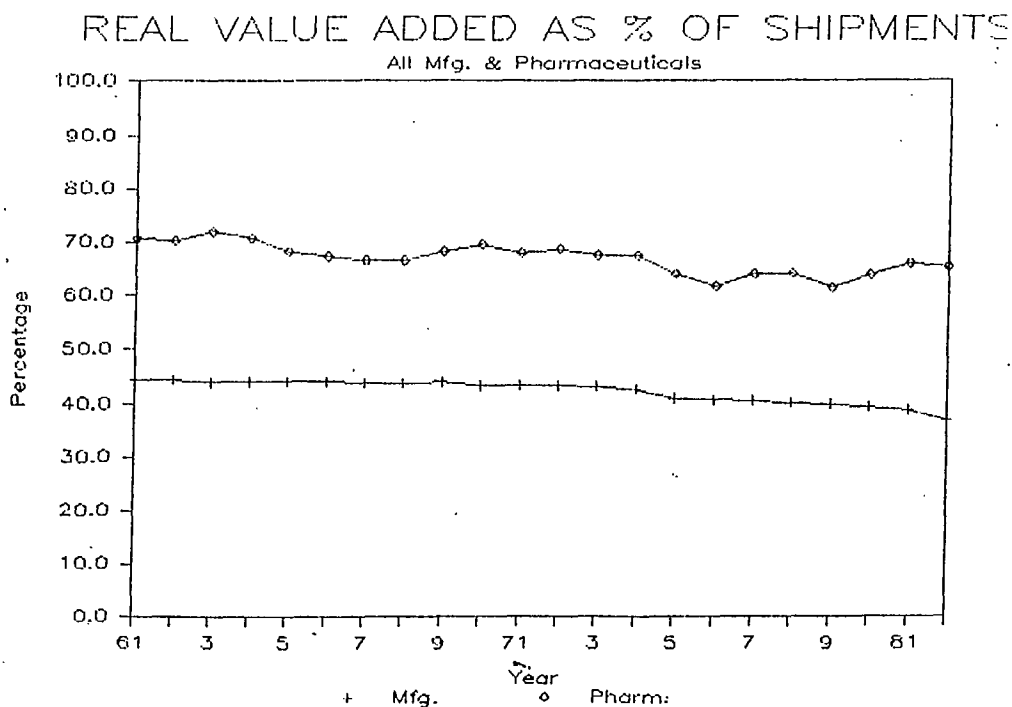
Value added per employee

Value added per employee in the pharmaceutical industry has been constantly ahead of the equivalent value for all manufactures. In fact, the difference has been widening since 1961 when real value added per pharmaceutical employee was 1.35 times the value added per manufacturing employee. In 1982, value added per employee in the pharmaceutical industry was 2.04 times greater than the value added per employee in the manufactures.



Value added ratio to value of shipments

During the entire period between 1961 and 1982, the relation between real value of shipments and real value added tends to decrease for both the pharmaceutical and all manufacturing industries. However, while real value added represents between 37% and 45% for all manufactures, it ranges between 65% and 71% for the pharmaceutical industry.



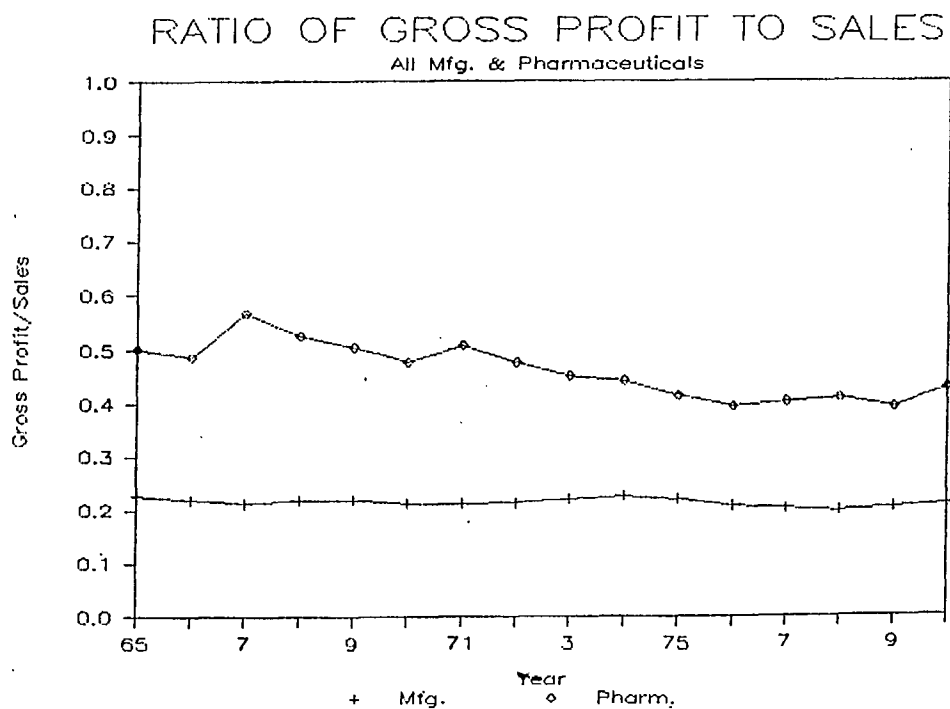
PRODUCTIVITY TABLES

YEAR	SHIPMENTS		VALUE ADDED		REAL VALUE PER SHIP MFG	REAL VALUE PER SHIP PHARM	INVENTORY/ SHIPMENTS MFG	INVENTORY/ SHIPMENTS PHARM
	(R) PER EMPLOYEE MFG \$000	(R) PER EMPLOYEE PHARM \$000	(R) PER EMPLOYEE MFG \$000	(R) PER EMPLOYEE PHARM \$000				
61	21.0	18.0	9.4	12.7	0.45	0.71		
62	22.3	18.8	9.9	13.2	0.44	0.70		
63	23.3	20.0	10.2	14.4	0.44	0.72		
64	24.3	21.1	10.7	14.9	0.44	0.71		
65	25.0	23.2	11.0	15.8	0.44	0.68		
66	25.5	24.8	11.2	16.7	0.44	0.67		
67	26.1	25.3	11.4	16.8	0.44	0.67		
68	27.7	27.0	12.1	18.0	0.44	0.67		
69	28.6	28.7	12.5	19.6	0.44	0.68		
70	28.9	29.7	12.5	20.6	0.43	0.69	0.01	0.10
71	30.9	31.3	13.3	21.3	0.43	0.68	0.01	0.09
72	32.1	32.3	13.9	22.1	0.43	0.69	0.01	0.09
73	32.8	34.2	14.1	23.1	0.43	0.67	0.01	0.09
74	33.4	33.7	14.2	22.7	0.43	0.67	0.01	0.10
75	33.0	36.5	13.5	23.4	0.41	0.64	0.01	0.11
76	34.9	38.1	14.2	23.5	0.41	0.62	0.01	0.10
77	36.6	40.6	14.8	26.0	0.41	0.64	0.02	0.10
78	37.8	42.7	15.1	27.4	0.40	0.64	0.01	0.10
79	37.6	40.9	15.0	25.2	0.40	0.61	0.01	0.10
80	36.7	42.7	14.4	27.3	0.39	0.64	0.01	0.09
81	37.8	43.6	14.6	28.8	0.39	0.66	0.01	0.09
82	38.1	43.8	14.0	28.6	0.37	0.65	0.01	0.09

Financial Performance

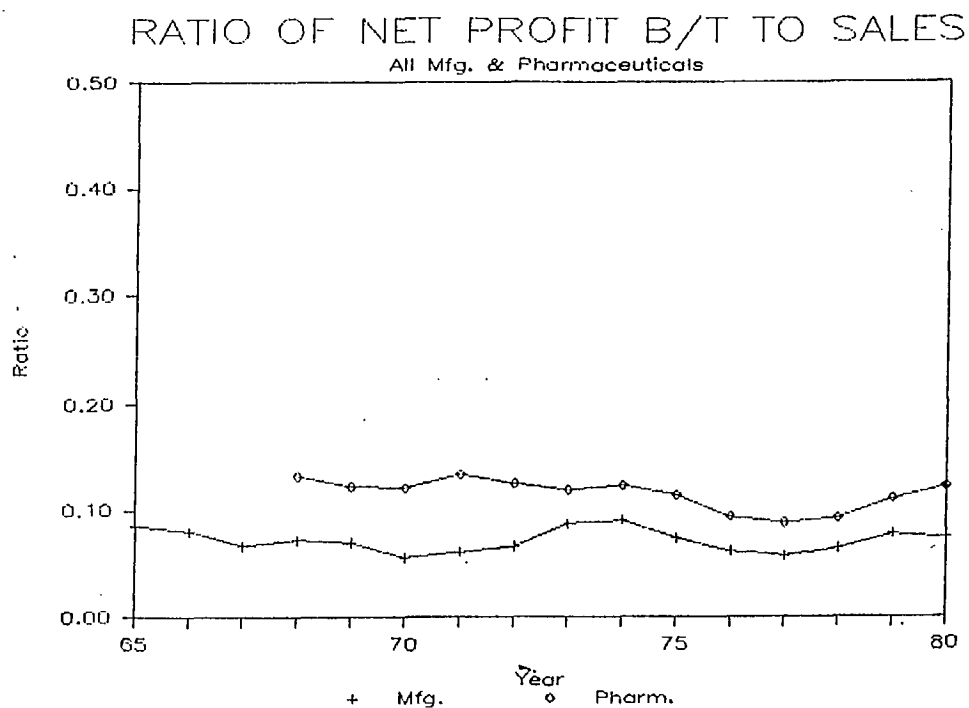
Gross profit to sales ratio

The ratio of gross profits to sales for all manufactures remained almost constant between 1965 and 1980, at a level ranging between 20% and 23%. The ratio for the pharmaceutical industry suffered more fluctuations, but ranged, around double the level, between 39% and 57%.



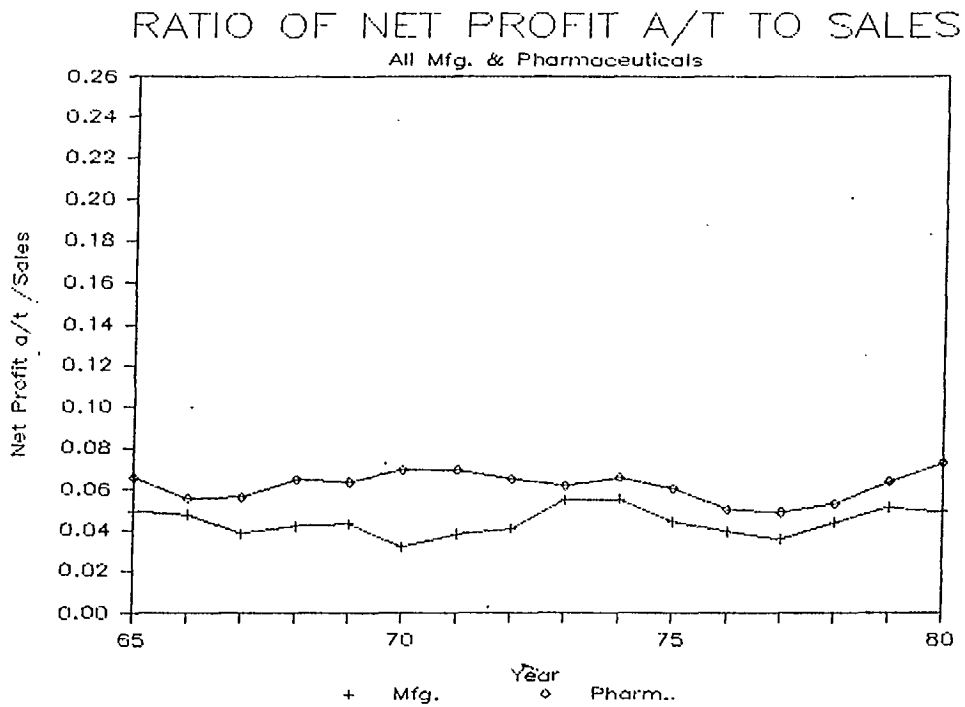
Net profits before tax to sales ratio

The ratio was about constant for both manufacturing and the pharmaceutical industries. However, there is a noticeable difference in the levels with the ratio of all manufactures ranging between 5% and 9%, and the ratio for pharmaceuticals ranging between 9% and 13%.



Net profit after tax to sales ratio

The ratios are fairly stable but at different levels. For all manufactures the range varied between 3% and 5% while, for pharmaceuticals, the range varied between 5% and 7%.



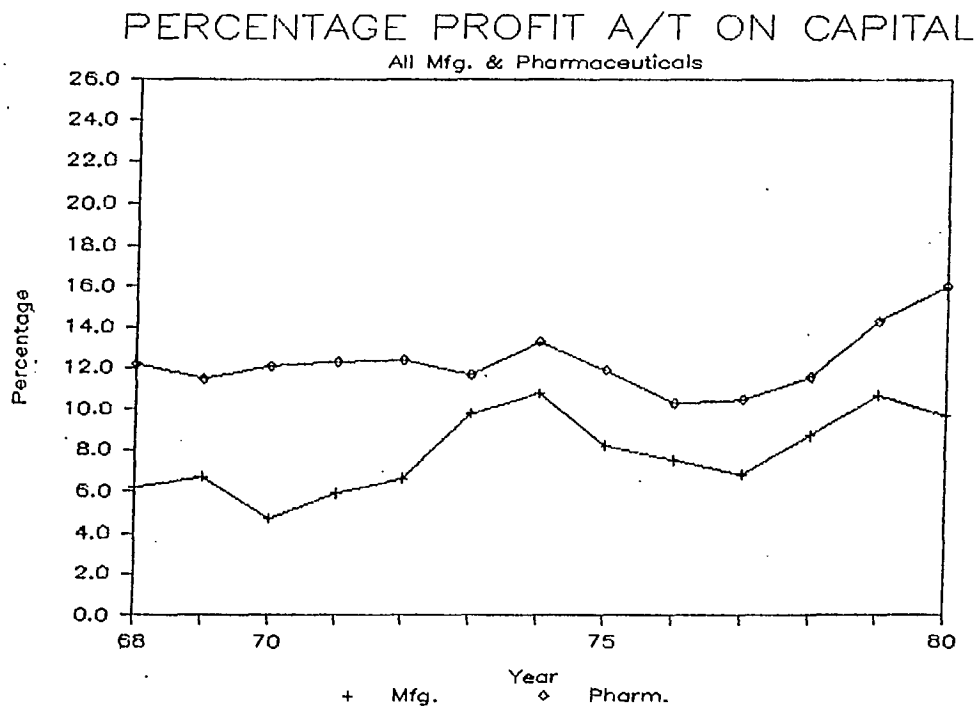
FINANCIAL DATA

YEAR	SALES/ INCOME MFG	GPROFIT/ SALES MFG	BTPROFIT/ SALES MFG	ATPROFIT SALES MFG	SALES/ INCOME PHARM	GPROFIT/ SALES PHARM	BTPROFIT/ SALES PHARM	ATPROFIT/ SALES PHARM
65	0.98	0.23	0.09	0.05	0.97	0.50		0.07
66	0.96	0.22	0.08	0.05	0.99	0.49		0.06
67	0.96	0.21	0.07	0.04	0.99	0.57		0.06
68	0.96	0.22	0.07	0.04	0.98	0.53	0.13	0.06
69	0.96	0.22	0.07	0.04	0.99	0.51	0.12	0.06
70	0.96	0.21	0.05	0.03	0.99	0.48	0.12	0.07
71	0.96	0.21	0.06	0.04	0.99	0.51	0.13	0.07
72	0.96	0.21	0.07	0.04	0.99	0.47	0.13	0.06
73	0.96	0.22	0.09	0.05	0.99	0.45	0.12	0.06
74	0.97	0.22	0.09	0.05	0.99	0.44	0.12	0.07
75	0.97	0.22	0.07	0.04	0.99	0.41	0.11	0.06
76	0.97	0.20	0.06	0.04	0.99	0.39	0.09	0.05
77	0.97	0.20	0.06	0.04	0.99	0.40	0.09	0.05
78	0.97	0.20	0.06	0.04	0.99	0.41	0.09	0.05
79	0.97	0.20	0.08	0.05	0.99	0.39	0.11	0.06
80	0.97	0.21	0.07	0.05	0.99	0.43	0.12	0.07

Profitability Ratios

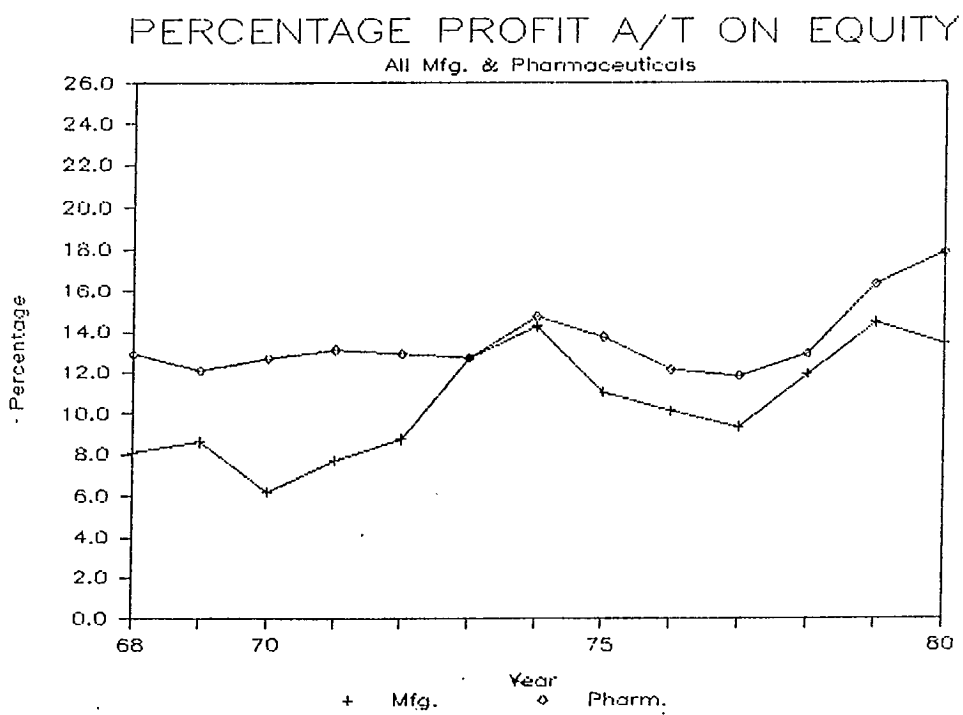
Net profit after taxes to capital

The ratio has been, in the period 1968 to 1980, 7.3 for all manufactures and 12.3 for pharmaceuticals (68% higher).



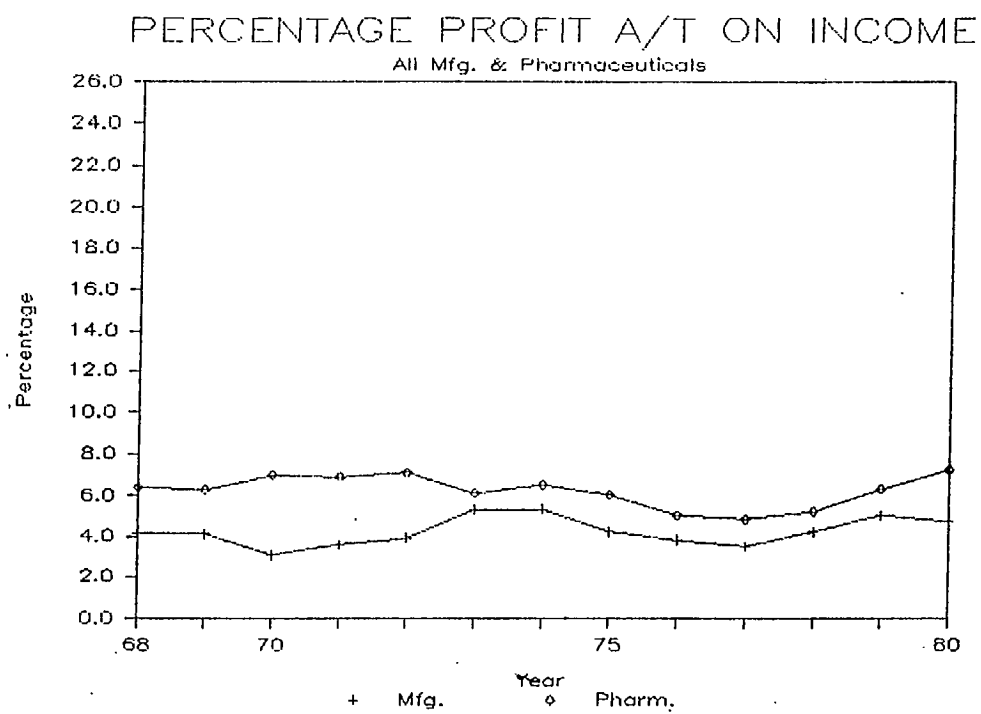
Net profit after tax to equity

The ratio has been, in the period 1968 to 1980, 9.5 for all manufactures and 13.5 for pharmaceuticals (42% higher).



Net profit after tax to total income

The ratio has been, in the period 1968 to 1980, 4.2 for all manufactures and 6.2 for pharmaceuticals (48% higher).

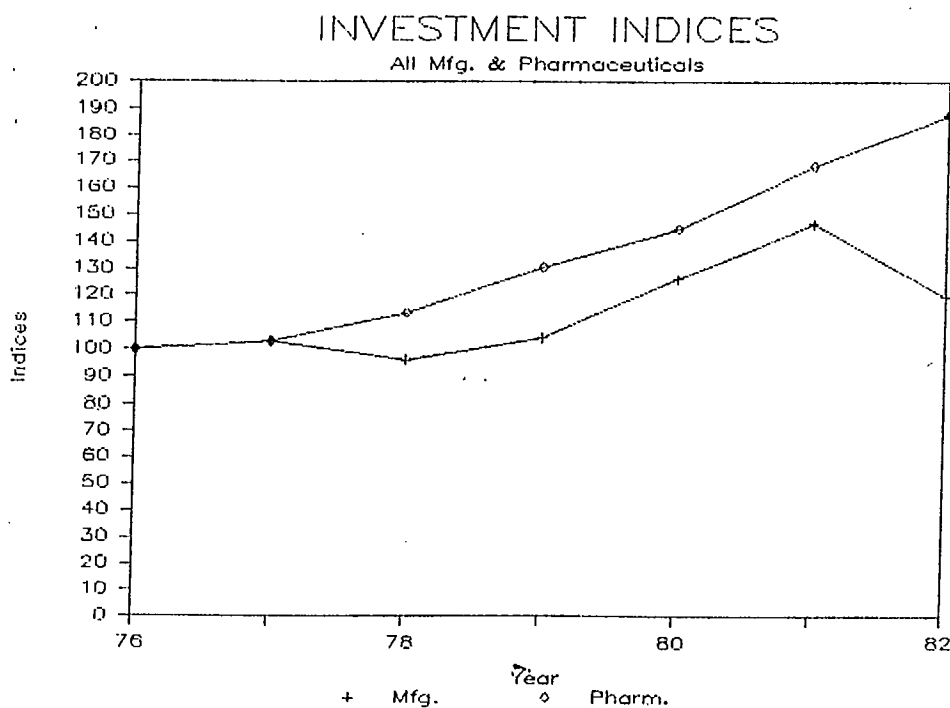


FINANCIAL DATA

YEAR	PROFIT A/T CAPITAL % MFG	PROFIT A/T EQUITY % MFG	PROFIT A/T INCOME % MFG	PROFIT A/T CAPITAL % PHARM	PROFIT A/T EQUITY % PHARM	PROFIT A/T INCOME % PHARM
65						
66						
67						
68	6.2	8.1	4.1	12.2	12.9	6.4
69	6.7	8.6	4.1	11.5	12.1	6.3
70	4.7	6.2	3.1	12.1	12.7	7.0
71	5.9	7.7	3.6	12.3	13.1	6.9
72	6.6	8.7	3.9	12.4	12.9	7.1
73	9.8	12.7	5.3	11.7	12.7	6.1
74	10.8	14.2	5.3	13.3	14.7	6.5
75	8.2	11.0	4.2	11.9	13.7	6.0
76	7.5	10.1	3.8	10.3	12.1	5.0
77	6.8	9.3	3.5	10.5	11.8	4.8
78	8.7	11.9	4.2	11.6	12.9	5.2
79	10.7	14.4	5.0	14.3	16.3	6.3
80	9.7	13.4	4.7	16.0	17.8	7.2
81						

Investments

In the period between 1976 and 1982, investment by the pharmaceutical industry has been constantly increasing. In real terms, capital investments went from \$16.3 million to \$30.6 million, an increase of 87.9% over the seven year period. While investments in the pharmaceutical industry represent one seventh of 1% of the total investment undertaken by all manufactures, the rate of growth of 12.6% per year is well above the 2.7% yearly average for all manufactures. All manufactures capital investments grew from \$3660.1 million in 1976 to \$4377.1 million in 1982, an increase of 19.4%.



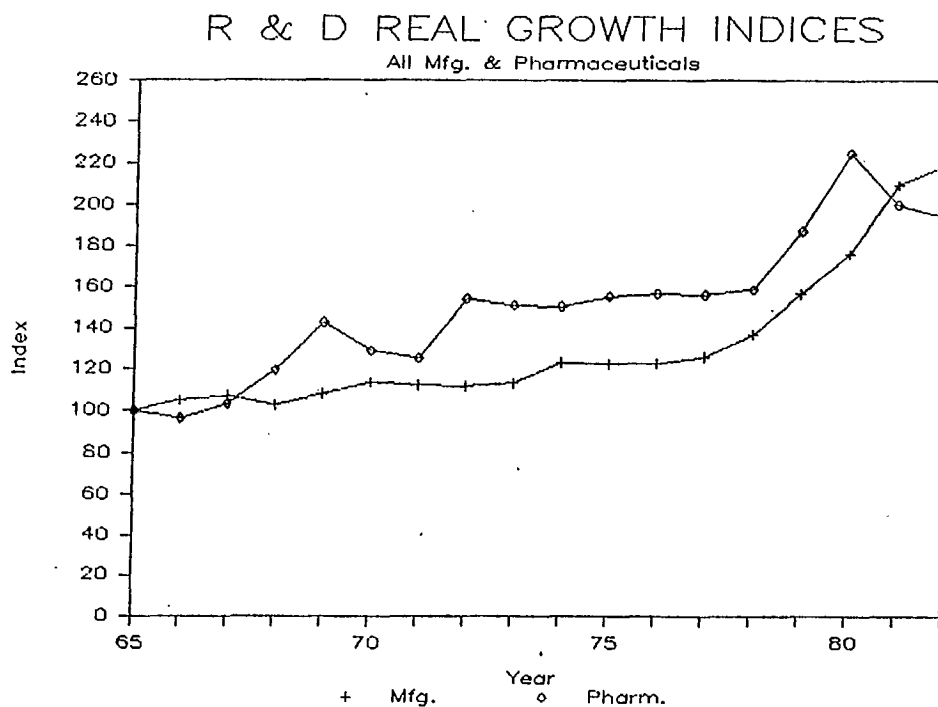
INVESTMENT DATA

YEAR	CAP. INVEST		REAL INVEST		INDEX INVEST	INDEX INVEST
	MFG \$000,000	PHARM \$000,000	MFG \$000,000	PHARM \$000,000		
65						
66						
67						
68						
69						
70						
71						
72						
73						
74						
75						
76	5465.3	24.3	3666.7	16.3	100.0	100.0
77	6080.7	27.0	3779.2	16.8	103.1	102.9
78	6178.2	32.4	3528.0	18.5	96.2	113.5
79	7320.4	40.7	3828.0	21.3	104.4	130.6
80	9746.8	49.7	4626.7	23.6	126.2	144.7
81	12739.3	65.0	5376.0	27.4	146.6	168.3
82	11492.5	80.4	4377.1	30.6	119.4	187.9

Research and Development

R&D in the pharmaceutical industry is only 3% of total R&D expenditure in manufacturing industries. However, in relation to sales pharmaceuticals spent in R&D 4.7% versus 1.1% for all manufactures.

Since 1965, real R&D expenditures have more than doubled for all manufactures and almost doubled for pharmaceuticals.



RESEARCH AND DEVELOPMENT

Intra-mural Expenditures

YEAR	TOTAL ACTUAL (\$000,000)		TOTAL REAL 1971 (\$000,000)		REAL R & D INDICES	
	MFG.	PHARM.	MFG.	PHARM.	MFG.	PHARM.
65	266	9	330	11	100.0	100.0
66	290	9	347	11	105.1	96.4
67	306	10	354	12	107.1	103.4
68	305	12	340	13	102.8	119.6
69	336	15	357	16	108.1	142.7
70	364	14	375	14	113.4	128.9
71	371	14	371	14	112.3	125.3
72	387	18	369	17	111.9	153.8
73	421	19	373	17	113.0	150.7
74	508	21	406	17	122.9	150.2
75	561	24	405	17	122.5	154.9
76	603	26	405	17	122.5	156.1
77	668	28	415	17	125.7	155.7
78	791	31	452	18	136.8	158.4
79	987	40	516	21	156.3	187.2
80	1225	53	581	25	176.1	225.1
81	1642	53	693	22	209.8	200.1
82	1908	57	727	22	220.0	194.3

RESEARCH AND DEVELOPMENT

Supplementary Data

YEAR	CURRENT INTRA-MURAL EXPENDITURES		CURRENT INTRA-MURAL EXPENDITURES % OF SALES	
	MFG. (\$000,000)	PHARM(\$000,000)	MFG.	PHARM
78	707	21		
79	861	39	0.9	2.4
80	1064	50		
81	1412	47	1.1	4.7
82	1615	52		

YEAR	TAX CREDITS & ADDITIONAL ALLOWANCES		EMPLOYMENT	
	MFG. (\$000,000)	PHARM(\$000,000)	MFG.	PHARM.
78	546	2		
79	793	5		
80	1064	14		
81	1438	14		
82			25875	915

Model Selection

The following 8 mathematical models of all real pharmaceutical sales were used to project sales until 1988.

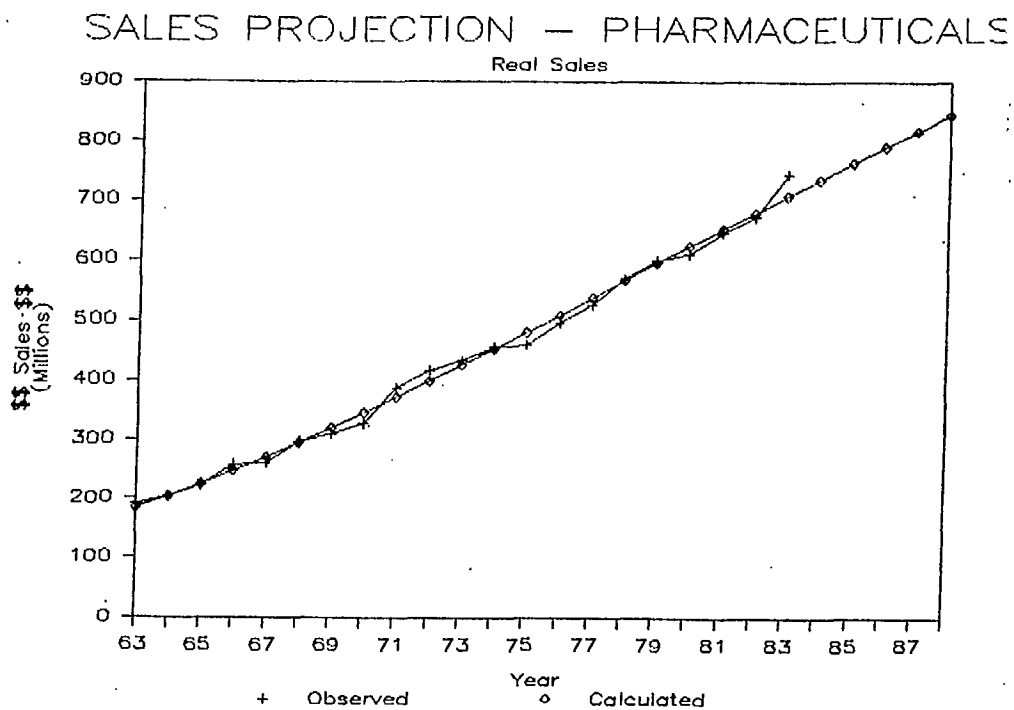
- | | |
|---------------------------------|------------------------|
| 1. Linear | $Y = a + b_t$ |
| 2. Exponential | $Y = ae^{bt}$ |
| 3. Power Function | $Y = at^b$ |
| 4. Hyperbolic Function | $Y = a + b/t$ |
| 5. Modified Hyperbolic Function | $Y = 1/(a + bt)$ |
| 6. Rational Function | $Y = t/a + bt$ |
| 7. Compertz Curve | $Y = ka^{bt}$ |
| 8. Growth Function | $Y = ke^{a/(b + t^2)}$ |

Of the 8 functions that were tested, equation 7, the Compertz Curve, provided the best fit ($R^2 = .994$). Therefore, it was selected as the estimating equation for future sales. The equation took the following form:

$$Y = 15861 (11.627)^{95.206t}$$

Projection

The estimates indicate that pharmaceutical sales would increase at a real rate of approximately \$21.5 million per annum to a total of \$845 million in 1988. This represents an average percentage sales increase of 2.9 per year.



PROJECTED SALES OF PHARMACEUTICALS (63-88)

YEAR	ACTUAL		IPH 1971=100	REAL	
	OBSERVED (\$000)	CALCULATED (\$000)		OBSERVED (\$000)	CALCULATED (\$000)
63	176900	180313	92.8	190600	184400
	189300	195233	92.3	205000	204400
65	205700	211939	92.2	223100	225500
	240597	230695	93.3	257800	247600
67	249589	251810	95.9	260200	270700
	287390	275648	97.0	296200	294600
69	304147	302639	98.3	309400	319400
	324674	333292	99.2	327200	344900
71	387471	368212	100.0	387400	371100
	416618	408122	100.0	416600	397800
73	448501	453887	103.5	433300	425100
	502580	506546	109.9	457300	452800
75	558028	567352	121.1	460700	480800
	632097	637825	127.0	497700	509200
77	691889	719808	131.4	526500	537700
	799485	815556	140.4	569400	566300
79	917334	927832	153.1	599100	595000
	1034403	1060038	169.5	610200	623600
81	1227153	1216383	189.8	646500	652100
	1426122	1402098	211.9	673000	680500
83	1740580	1623714	233.6	745100	708700
					736600 C
85					764200 C
					791400 C
87					818200 C
					844600 C

C = Calculated Values

PHARMACEUTICAL INDUSTRY

YEAR	NUMBER OF ESTABLISHMENTS No.	TOTAL NO. EMPLOYEES No.	WAGES AND SALARIES \$000	VALUE OF SHIPMENTS \$000	VALUE ADDED \$000	INVENTORY CLOSING \$000	IPH
61	174	9826	46190	165201	116705		93.2
62	167	10057	48898	175249	123060		92.6
63	173	10418	52708	193718	139307		92.8
64	175	10644	56124	207016	146174		92.3
65	162	11137	62098	237771	162318		92.2
66	165	11649	68209	269425	181136		93.3
67	158	12199	75257	295640	196849		95.9
68	151	12441	81667	325611	216842		97.0
69	150	12645	90062	356585	243175		98.3
70	145	13122	99347	386870	268771	38894	99.2
71	150	13831	113996	433428	294138	38911	100.0
72	141	14345	128313	462677	317481	41674	100.0
73	143	14649	139093	518811	350000	46684	103.5
74	136	15646	156899	579840	390775	58428	109.9
75	134	14793	171946	654447	418403	69562	121.1
76	132	14434	189069	698789	431117	68555	127.0
77	127	14231	203162	758415	485825	73421	131.4
78	146	15173	232241	910481	583659	87291	140.4
79	144	16433	279941	1030201	632898	103740	153.1
80	138	15796	294483	1144271	730712	108470	169.5
81	134	16058	337523	1327421	876314	116630	189.8
82	131	15707	377834	1456453	950567	124838	211.9

Cansim: D340259 003300.3.374 D344169 003317.3.374

D954135 007679.1 D954161 007679.27

PHARMACEUTICAL - FINANCIAL DATA

YEAR	SALES \$000,000	TOTAL INCOME \$000,000	GROSS PROFIT \$000,000	NET PROFIT B/T \$000,000	NET PROFIT A/T \$000,000	NET PROFIT INDEX	PROFIT A/T CAPITAL %	PROFIT A/T EQUITY %	PROFIT A/T INCOME %
65	240.4	246.8	120.9		15.8	100.0			
66	306.8	310.3	149.8*		17.0	107.6			
67	340.6*	345.7*	193.4*		19.1	120.9			
68	374.3	381.1	196.9	49.5	24.3	153.8	12.2	12.9	6.4
69	423.7	429.1	214.3	51.9	27.0	170.9	11.5	12.1	6.3
70	477.5	482.5	227.6	57.9	33.2	210.1	12.1	12.7	7.0
71	501.6	506.3	254.8	67.1	34.8	220.3	12.3	13.1	6.9
72	586.2*	591.3*	278.4*	73.4*	38.1	240.8	12.4	12.9	7.1
73	670.7	676.3	302.0	79.6	41.3	261.4	11.7	12.7	6.1
74	787.4	795.4	347.5	96.8	51.8	327.8	13.3	14.7	6.5
75	908.2	917.1	375.3	103.5	54.7	346.2	11.9	13.7	6.0
76	939.6	949.5	369.5	88.4	47.0	297.5	10.3	12.1	5.0
77	979.2	984.8	394.5	86.4	47.7	301.9	10.5	11.8	4.8
78	1135.2	1144.0	464.8	104.9	59.9	379.1	11.6	12.9	5.2
79	1336.8	1352.8	525.9	148.4	85.3	539.9	14.3	16.3	6.3
80	1442.9	1461.8	618.2	176.5	104.9	663.9	16.0	17.8	7.2
81									

* Estimated

ALL MANUFACTURING

YEAR	NUMBER OF ESTABLISHMENTS No.	TOTAL NO. EMPLOYEES No.	WAGES AND SALARIES \$000	VALUE OF SHIPMENTS \$000	VALUE ADDED \$000	INVENTORY CLOSING \$000	IMFG
61	33357	1352605	5701651	23438956	10434832		82.4
62	33414	1389516	6096174	25790087	11429644		83.3
63	33119	1425440	6495289	28014888	12272734		84.4
64	33630	1491257	7080939	30856099	13535991		85.1
65	33310	1570299	7822925	33889425	14927764		86.2
66	33337	1646024	8695890	37303455	16351740		88.7
67	33267	1652827	9254190	38955389	17005696		90.4
68	32643	1642352	9905504	42061555	18332204		92.3
69	32669	1675332	10848341	45930438	20133593		95.8
70	31928	1637001	11363712	46380935	20047801	604185	98.1
71	31908	1628404	12129897	50275917	21737514	658104	100.0
72	31553	1676130	13414609	56190740	24264829	729666	104.4
73	31145	1751066	15220033	66674393	28716119	852109	116.1
74	31535	1785977	17556982	82455109	35084752	1150301	138.1
75	30100	1741159	19156679	88427031	36105547	1224613	153.7
76	29053	1743047	21799733	- 98280777	39921910	1383469	161.6
77	27716	1704483	23595238	108881959	44104548	1643037	174.3
78	31963	1790618	26571956	128889376	51523349	1846792	190.4
79	34578	1855393	30112290	152133081	60623169	2218211	217.9
80	35495	1850409	33132283	168062056	65961586	1602352	247.2
81	35780	1853929	37098547	190952823	73906487	1796220	272.4
82	35834	1708850	37695397	188019319	68990447	2747112	288.8

Source: Cansim D340100 00 3300.1 D344010 00 3317.1

D900351 007481.1

D900377 00 7481.27

MANUFACTURING - FINANCIAL DATA

YEAR	SALES \$000,000	TOTAL INCOME \$000,000	GROSS PROFIT \$000,000	NET PROFIT B/T \$000,000	NET PROFIT A/T \$000,000	NET PROFIT INDEX	PROFIT A/T CAPITAL %	PROFIT A/T EQUITY %	PROFIT A/T INCOME %
65	36433.9	37145.7	8269.3		1798.9	100.0			
66	40484.5	42038.6	8904.3 *		1922.8	106.9			
67	42381.4 *	44047.7 *	9009.9 *		1622.4	90.2			
68	44278.2	46056.8	9644.9	3183.4	1865.8	103.7	6.2	8.1	4.1
69	50598.6	52615.4	11049.5	3516.3	2170.2	120.6	6.7	8.6	4.1
70	52536.9	54663.8	11104.0	2885.4	1661.7	92.4	4.7	6.2	3.1
71	57462.6	59868.3	12101.3	3493.4	2178.8	121.1	5.9	7.7	3.6
72	63963.4	66408.8	13559.3	4202.2	2590.1	144.0	6.6	8.7	3.9
73	75748.6	78640.5	16492.9	6606.6	4141.8	230.2	9.8	12.7	5.3
74	95819.6	98498.9	21470.6	8668.7	5262.5	292.5	10.8	14.2	5.3
75	103535.9	106995.4	22590.2	7625.5	4533.0	252.0	8.2	11.0	4.2
76	116048.1	120035.2	23779.9	7096.3	4541.8	252.5	7.5	10.1	3.8
77	128131.2	132011.6	25794.7	7220.5	4561.1	253.5	6.8	9.3	3.5
78	147808.5	152064.0	29064.9	9452.7	6451.7	358.6	8.7	11.9	4.2
79	177236.9	182923.2	36068.2	13781.9	9063.9	503.9	10.7	14.4	5.0
80	195563.2	201713.0	40780.9	14424.0	9516.5	529.0	9.7	13.4	4.7
81									
82									

* See Note

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