

---

## Section 16

# Banking, Finance and Insurance

---

This section presents data on the Nation's finances, various types of financial institutions, money and credit, securities, and insurance. The primary sources of these data are publications of several departments of the Federal Government, especially the Treasury Department, and independent agencies such as the Federal Deposit Insurance Corporation, the Federal Reserve System, and the Securities and Exchange Commission. National data on insurance are available primarily from private organizations, such as the American Council of Life Insurance.

**Flow of funds.**—The flow of funds accounts of the Federal Reserve System (see tables 765 to 769) bring together statistics on all of the major forms of financial transactions and financial claims to present an economy-wide view of asset and liability relationships. In flow form, the accounts relate borrowing and lending to one another and to the nonfinancial activities that generate income and production. Each claim outstanding is included simultaneously as an asset of the lender and as a liability of the debtor. The accounts also indicate the balance between asset totals and liability totals over the economy as a whole. Several publications of the Board of Governors of the Federal Reserve System contain information on the flow of funds accounts: Summary data on flows, in the *Federal Reserve Bulletin*, *Flow of Funds Accounts* (quarterly), and *Annual Statistical Digest*; and concepts and organization of the accounts, in *Introduction to Flow of Funds* (June 1980).

**Banking system.**—Banks in this country are organized under the laws of both the States and the Federal Government and are regulated by several bank supervisory agencies. State-chartered banks are supervised by officials of the respective States. National banks are supervised by the Comptroller of the Currency. *Reports of Condition* have been collected from national banks since 1863. Summaries of these reports are published in the Comptroller's *Annual Report*, which also presents data on the structure of the national banking system.

The Federal Reserve System was established in 1913 to exercise central banking functions, some of which are shared with the U.S. Treasury. It includes national banks and such State banks as voluntarily join the System. Statements of State bank members are consolidated by the Board of Governors of the Federal Reserve System with data for national banks collected by the Comptroller of the Currency into totals for all member banks of the System. Balance sheet data for member banks and other commercial banks are published quarterly in the *Federal Reserve Bulletin*.

The Federal Deposit Insurance Corporation (FDIC), established in 1933, insures each depositor up to \$100,000 currently in banks that are members of the Federal Reserve System and in such nonmember banks as join the insurance fund. Major item balance sheets for all commercial banks are published monthly in the *Federal Reserve Bulletin*.

**Savings institutions and other credit agencies.**—Savings institutions, insurance companies, finance companies dealing primarily in installment sales financing, credit unions, and personal loan companies represent important sources of funds for the credit market. Savings institutions are primarily involved in credit extension in the form of mortgage loans. Statistics on savings institutions are collected by the Federal Home Loan Bank Board. Statistics on loans, investments, cash, etc., of life insurance companies are published principally by the American Council of Life Insurance in its *Life Insurance Fact Book*. Consumer credit data are published currently in the *Federal Reserve Bulletin*.

Federally chartered credit unions are under the supervision of the National Credit Union Administration, established in 1970. State-chartered credit unions are supervised by the respective State supervisory authorities. The Administration publishes comprehensive program and statistical information on all Federal and federally insured State credit unions in the *Annual Report of the National Credit Union Administration*. Deposit insurance (up to \$100,000 per account) is provided to members of all Federal and those State credit unions that are federally-insured by the National Credit Union Share Insurance Fund which was established in 1970. Deposit insurance for State chartered

credit unions is also available in some States under private or State-administered insurance programs.

Government corporations and credit agencies make available credit of specified types or to specified groups of private borrowers, either by lending directly or by insuring or guaranteeing loans made by private lending institutions. Data on operations of Government credit agencies, along with other Government corporations, are available in reports of individual agencies; data on their debt outstanding are published in the *Federal Reserve Bulletin*.

**Currency.**—Currency, including coin and paper money, represents more than one-fourth of all media of exchange in the United States, with most payments made by check. All currency is now issued by the Federal Reserve Banks.

**Securities.**—The Securities and Exchange Commission (SEC) was established in 1934 to protect the interests of the public and investors against malpractices in the securities and financial markets and to provide the fullest possible disclosure of information regarding securities to the investing public.

**Insurance.**—Insuring companies, which are regulated by the various States or the District of Columbia, are classified as either life or property. Companies that underwrite accident and health insurance only and those that underwrite accident and health insurance in addition to one or more property lines are included with property insurance. Insuring companies, other than those classified as life, are permitted to underwrite one or more property lines provided they are so licensed and have the necessary capital or surplus.

There are a number of published sources for statistics on the various classes of insurance—life, health, fire, marine, and casualty. Individual States collect data on all insurers operating within their respective jurisdictions, and many of the States publish an annual insurance report giving individual company data and aggregates of certain items for the companies operating within the State. Organizations representing certain classes of insurers publish reports for these classes. Among them are the annual commercial publishers, such as The National Underwriter Company whose *Argus Health Chart* (annual) contains financial and operating data for individual health and accident insurance companies, including Blue Cross and Blue Shield Plans. The American Council of Life Insurance publishes statistics on life insurance purchases, ownership, benefit payments, and assets in its annual *Life Insurance Fact Book*.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

**Statistics for States and metropolitan statistical areas (MSAs).**—Data for States and MSAs may also be found in *State and Metropolitan Area Data Book 1986*. For cross-references, see Appendix V.

#### NO. 762. GROSS NATIONAL PRODUCT IN FINANCE, INSURANCE, AND REAL ESTATE IN CURRENT AND CONSTANT (1982) DOLLARS: 1970 TO 1986

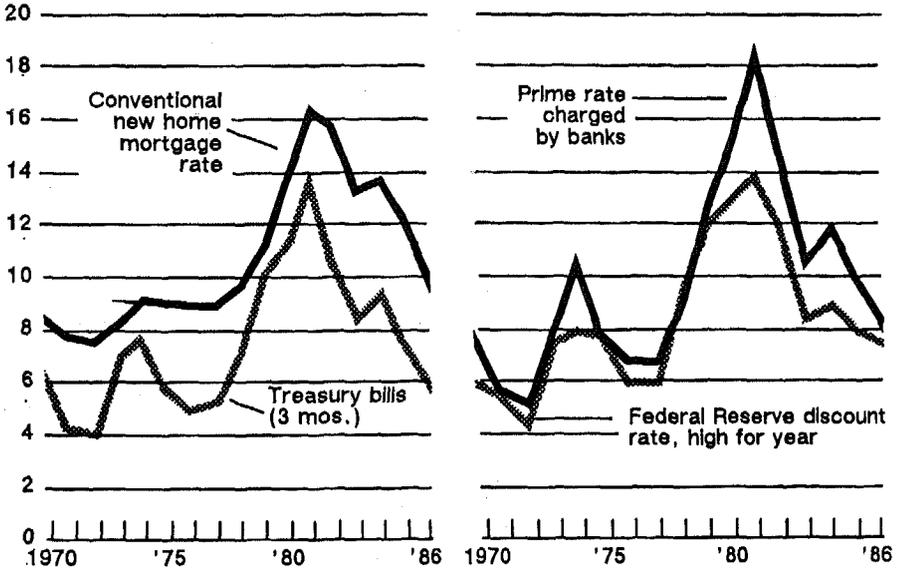
[In billions of dollars, except percent. For definition of gross national product, see text, section 14. Based on 1972 Standard Industrial Classification]

INDUSTRY	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986
<b>CURRENT DOLLARS</b>										
Finance, insurance, real estate, total .....	145.8	221.7	363.3	400.6	449.3	475.1	536.4	572.8	622.8	695.0
Percent of gross national product.....	14.4	13.9	14.5	14.7	14.7	15.0	15.8	15.2	15.5	16.4
Banking .....	18.4	25.8	45.8	51.1	54.4	59.8	68.1	70.6	68.9	69.0
Credit agencies other than banks .....	1.7	3.3	7.2	5.5	6.5	5.4	10.6	9.8	12.5	14.6
Security and commodity brokers, and services.....	3.3	5.0	7.7	9.7	11.4	13.1	20.7	19.7	25.1	32.9
Insurance carriers .....	11.6	17.2	34.0	37.0	34.7	29.8	36.5	34.9	38.8	53.6
Insurance agents and brokers, and services.....	4.8	7.8	12.9	14.4	15.5	17.0	17.6	20.1	22.5	25.7
Real estate .....	105.4	161.8	254.7	281.5	318.7	342.7	374.2	409.1	441.3	483.2
Holding and other investment companies.....	.6	.7	.9	1.3	8.1	7.2	8.7	8.5	13.6	15.8
<b>CONSTANT (1982) DOLLARS</b>										
Finance, insurance, real estate, total .....	320.7	387.6	459.2	464.3	474.2	475.1	489.0	506.6	523.6	551.3
Percent of gross national product.....	13.3	14.4	14.4	14.6	14.6	15.0	14.9	14.5	14.5	14.8
Banking .....	38.2	46.4	54.2	56.7	58.9	59.8	60.5	61.0	61.9	63.0
Credit agencies other than banks .....	3.4	4.1	5.1	5.2	5.4	5.4	6.0	6.6	7.0	7.7
Security and commodity brokers, and services.....	9.1	7.9	9.4	10.7	12.1	13.1	14.9	16.1	16.9	18.6
Insurance carriers .....	21.3	25.3	28.6	28.6	28.9	29.8	30.1	31.5	33.6	37.7
Insurance agents and brokers, and services.....	13.7	16.0	17.9	17.3	17.1	17.0	17.4	17.9	19.6	21.6
Real estate .....	232.2	283.4	337.8	339.6	345.3	342.7	352.7	365.3	375.6	393.1
Holding and other investment companies.....	2.8	4.5	6.2	6.3	6.5	7.2	7.4	8.2	8.9	9.7

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.

**Figure 16.1**  
**Interest Rates: 1970 to 1986**

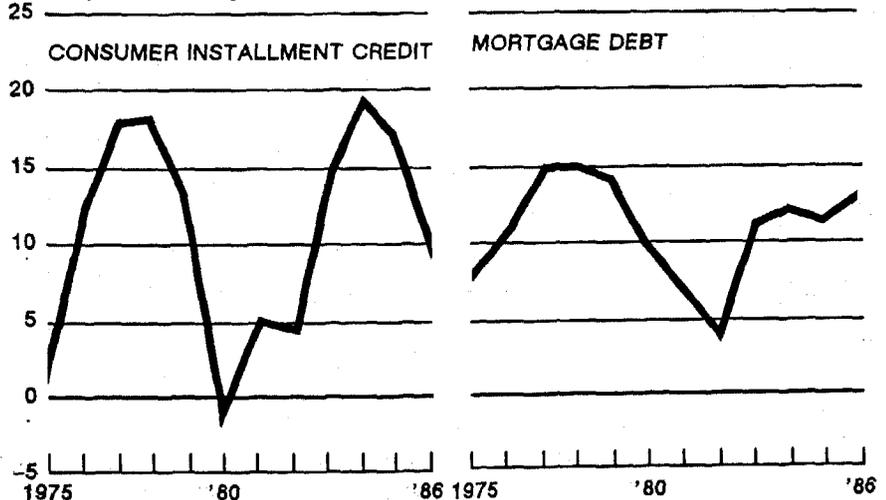
Percent per annum



Source: Chart prepared by U.S. Bureau of the Census. For data see tables 803 and 805.

**Figure 16.2**  
**Consumer Installment Credit Outstanding and Mortgage Debt Outstanding—Annual Percent Changes: 1975 to 1986**

Annual percent change



Note: Represents change in amounts outstanding.

Source: Chart prepared by U.S. Bureau of the Census. For data see tables 793 and 795.

## NO. 763. PERSONS WORKING IN FINANCE, INSURANCE, AND REAL ESTATE INDUSTRIES: 1970 TO 1986

[In thousands. Data represent worker-years of full-time equivalent employment by persons working for wages or salaries and number of active partners and proprietors of unincorporated businesses who devote a majority of their working hours to their unincorporated businesses. Based on 1972 Standard Industrial Classification]

INDUSTRY	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986
<b>Finance, insurance, real estate, total.....</b>	<b>3,749</b>	<b>4,405</b>	<b>5,305</b>	<b>5,481</b>	<b>5,622</b>	<b>5,725</b>	<b>5,909</b>	<b>6,137</b>	<b>6,363</b>	<b>6,644</b>
Banking.....	1,010	1,225	1,430	1,497	1,554	1,580	1,586	1,600	1,625	1,653
Credit agencies other than banks.....	350	426	533	546	563	564	620	686	734	807
Security and commodity brokers, and services.....	219	192	228	259	292	317	360	390	409	449
Insurance carriers.....	986	1,053	1,198	1,225	1,238	1,236	1,236	1,249	1,276	1,336
Insurance agents and brokers, and services.....	355	440	539	553	536	623	628	655	686	719
Real estate.....	777	987	1,263	1,286	1,259	1,273	1,344	1,407	1,470	1,503
Holding and other investment companies.....	52	82	114	115	120	132	135	150	163	177

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82, and Survey of Current Business*, July issues.

## NO. 764. FINANCE, INSURANCE, AND REAL ESTATE—ESTABLISHMENTS, EMPLOYEES, AND PAYROLL: 1980 TO 1985

[Excludes government employees, railroad employees, self-employed persons, etc. For statement on methodology, see Appendix III]

SIC <sup>1</sup> code	INDUSTRY	ESTABLISHMENTS			EMPLOYEES (1,000)			Payroll, 1985 (bil. dol.)
		1980	1984	1985	1980	1984	1985	
(H)	<b>Finance, insurance, real estate.....</b>	<b>420,976</b>	<b>477,750</b>	<b>487,750</b>	<b>5,278</b>	<b>5,783</b>	<b>6,004</b>	<b>131.7</b>
60	Banking <sup>2</sup> .....	46,184	51,358	52,215	1,497	1,569	1,588	30.4
601	Federal reserve banks.....	50	92	86	21	24	24	.6
602	Commercial and stock savings banks.....	41,906	46,372	47,174	1,380	1,432	1,451	27.6
603	Mutual savings banks.....	2,223	2,433	2,478	59	69	(D)	(D)
605	Functions closely related to banking.....	1,830	2,165	2,177	28	39	(D)	(D)
61	Credit agencies other than banks <sup>2</sup> .....	80,339	60,372	61,145	588	700	743	15.0
612	Savings and loan associations.....	15,065	17,495	17,766	235	302	322	5.7
613	Agricultural credit institutions.....	1,360	1,321	1,305	16	19	18	.4
614	Personal credit institutions.....	36,133	30,481	29,923	218	212	217	4.1
615	Business credit institutions.....	2,416	2,979	2,933	50	65	73	1.9
616	Mortgage bankers and brokers.....	4,652	7,352	6,419	63	96	105	2.7
62	Security, commodity brokers and services <sup>2</sup> .....	11,279	17,547	18,843	215	332	338	16.2
621	Security brokers and dealers.....	7,611	10,936	11,703	174	265	269	13.7
622	Commodity contracts brokers, dealers.....	863	1,111	1,020	9	15	14	.4
623	Security and commodity exchanges.....	110	138	124	6	7	7	.2
628	Security and commodity services.....	2,493	4,765	5,148	24	43	45	1.8
63	Insurance carriers <sup>2</sup> .....	33,167	37,391	34,630	1,234	1,241	1,253	28.9
631	Life insurance.....	15,615	15,522	14,871	563	561	565	13.0
632	Medical service and health insurance <sup>2</sup> .....	1,576	1,735	1,917	125	129	145	3.2
6321	Accident and health insurance.....	845	947	1,093	27	28	35	.7
6324	Hospital and medical service plans.....	725	780	815	97	100	109	2.4
633	Fire, marine, and casualty insurance.....	9,236	10,278	10,625	449	451	453	10.9
635	Surety insurance.....	450	527	495	8	9	9	.2
636	Title insurance.....	2,714	2,657	2,721	51	48	(D)	(D)
637	Pension, health, and welfare funds.....	3,157	6,013	3,160	33	37	22	.3
64	Insurance agents, brokers and services.....	78,833	94,530	98,262	463	523	553	12.0
65	Real estate <sup>2</sup> .....	169,952	189,446	198,460	989	1,051	1,145	19.4
651	Real estate operators and lessors.....	94,750	96,901	98,813	462	453	470	6.5
653	Real estate agents and managers.....	50,998	65,116	69,049	362	446	492	9.5
654	Title abstract offices.....	2,695	2,886	3,019	21	21	21	.4
655	Subdividers and developers <sup>2</sup> .....	13,029	15,343	17,511	111	108	130	2.5
6552	Subdividers and developers, n.e.c. <sup>2</sup> .....	7,581	9,007	10,108	72	66	87	1.8
6553	Cemetery subdividers and developers.....	4,292	4,621	4,526	33	33	33	.5
66	Combined real estate, insurance, etc.....	6,426	5,326	4,973	30	25	24	.5
67	Holding and other investment offices <sup>2</sup> .....	13,135	19,943	19,258	140	181	193	5.4
671	Holding offices.....	3,605	5,262	5,664	63	86	97	3.2
672	Investment offices.....	764	843	803	7	8	8	.3
673	Trusts.....	4,240	7,521	6,280	40	46	46	.8
679	Miscellaneous investing.....	3,701	5,812	5,950	25	37	41	1.0
	Administrative and auxiliary.....	1,661	1,837	1,944	123	160	167	3.9

D Withheld to avoid disclosure of operations of individual establishments. <sup>1</sup> Standard Industrial Classification; see text, section 13. <sup>2</sup> Includes industries not shown separately. <sup>3</sup> N.e.c.—Not elsewhere classified.

Source: U.S. Bureau of the Census, *County Business Patterns*, annual.

No. 765. FLOW OF FUNDS ACCOUNTS—FINANCIAL ASSETS AND LIABILITIES OF FINANCIAL AND NONFINANCIAL INSTITUTIONS, BY SECTOR AND TYPE OF INSTRUMENT: 1986

[In billions of dollars. As of Dec. 31. Preliminary. A=Assets; L=Liabilities, SDR=Special drawing rights, IMF=International Monetary Fund. RPs=Repurchase Agreements. "N.e.c."=Not elsewhere classified]

TYPE OF INSTRUMENT	TOTAL <sup>1</sup>		PRIVATE DOMESTIC NONFINANCIAL INSTITUTIONS						U.S. GOVERNMENT		FINANCIAL INSTITUTIONS											
	A	L	Total	Households		Business		State and local govts.		A	L	Total	Monetary authority		Commercial banking		Nonbank finance		Federally sponsored credit agencies and mortgage pools			
				A	L	A	L	A	L				A	L	A	L	A	L	A	L	A	L
<b>Financial assets</b> .....	23,730.8	(X)	13,343.9	(X)	11,203.9	(X)	1,616.5	(X)	523.5	(X)	383.2	(X)	9,048.3	(X)	2,580.0	(X)	5,318.1	(X)	974.9	(X)		
<b>Liabilities</b> .....	18,263.9	(X)	6,739.0	(X)	2,741.0	(X)	3,423.1	(X)	875.0	(X)	2,041.9	(X)	8,935.4	(X)	275.4	(X)	5,318.1	(X)	1,517.5	(X)		
Gold stock and SDR's.....	19.5												11.1									
IMF position.....	17.7												9.5									
Official foreign exchange.....	17.6												9.5									
Treasury bills.....	22.6												22.6									
Checkable deposits, currency.....	775.5		652.6		523.7		111.3		17.6		32.8		66.2		832.5		61.1		74.9			
Time and savings accounts.....	2,459.8		2,286.8		2,129.1		1,120.0		55.6		1.4		120.6		2,459.8		120.6		1,567.7			
Fed. funds and security RPs.....	226.2		93.4		228.3		40.5		52.9				132.9		255.0		100.7		58.4			
Foreign deposits.....	228.3		228.3		228.3		24.5						22.2				22.2		228.3			
Money market fund shares.....	46.6		24.5		267.2						10.5		256.7				256.7					
Life insurance reserves.....	267.2		267.2		1,967.4						169.6		1,797.8				1,797.8					
Pension fund reserves.....	1,967.4		1,967.4		2,350.3								766				766					
Interbank claims.....	29.1		2,350.3		2,350.3								953.2				953.2					
Corporate equities <sup>2</sup> .....	4,878.8		1,751.7		1,158.5		218.7		874.5		254.9		1,814.7		487.6		1,776.8					
Credit market instruments <sup>3</sup> .....	9,355.8		1,811.7		376.3		45.5		207.2				1,811.7		221.5		1,776.8					
U.S. treasury securities <sup>4</sup> .....	1,811.7		629.1		561.0		80.5		73.6				629.1		203.3		489.8					
Federal agency securities <sup>5</sup> .....	793.9		278.3		241.7		8.0		118.5				278.3		202.8		244.6					
State and local securities <sup>6</sup> .....	933.0		723.0		82.0		8.0		657.3				82.0		74.9		679.1					
Corporate and foreign bonds.....	2,562.8		2,560.1		1,690.6		92.8		86.0		54.4		725.4		47.3		1,090.4					
Mortgages.....	723.0		723.0		723.0		723.0						723.0		502.5		310.5					
Consumer credit.....	723.0		701.2		51.5		70.9		649.7				630.1		718.8		36.1					
Bank loans, n.e.c. <sup>7</sup> .....	384.9		149.4		78.5		59.9		62.9				718.8		39.6		216.3					
Open-market paper.....	131.2		39.3		2,404.3								227.4		11.1		43.1					
Security credit.....	2,404.3		2,404.3		581.2		646.8		526.5		28.3		92.0		71.4		26.3					
Proprietors' equity.....	795.3		621.7		12.9		37.1		22.9				14.2				29.7					
Taxes payable.....	37.1		10.2		195.9		15.0		206.5		16.8		619.2		8.0		352.0					
Miscellaneous claims.....	1,529.2		598.5		223.5		482.6		208.2				29.7		4		312.6					

<sup>1</sup> Includes "rest of world", not shown separately.  
<sup>2</sup> Assets shown at market value; nonbank redemption value of shares of open-end investment companies. No specific liability attributed to issuers of stocks other than open-end investment companies for amounts outstanding.  
<sup>3</sup> Includes issues by agencies in this budget and by sponsored credit agencies in financial sectors, issues backed by mortgage pools, and loan participation certificates.  
<sup>4</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>5</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>6</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>7</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>8</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>9</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>10</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>11</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>12</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>13</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>14</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>15</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>16</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>17</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>18</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>19</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>20</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>21</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>22</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>23</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>24</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>25</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>26</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>27</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>28</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>29</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>30</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>31</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>32</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>33</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>34</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>35</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>36</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>37</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>38</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>39</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>40</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>41</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>42</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>43</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>44</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>45</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>46</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>47</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>48</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>49</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>50</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>51</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>52</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>53</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>54</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>55</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>56</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>57</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>58</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>59</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>60</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>61</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>62</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>63</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>64</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>65</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>66</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>67</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>68</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>69</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>70</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>71</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>72</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>73</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>74</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>75</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>76</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>77</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>78</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>79</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>80</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>81</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>82</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>83</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>84</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>85</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>86</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>87</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>88</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>89</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>90</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>91</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>92</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>93</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>94</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>95</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>96</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>97</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>98</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>99</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.  
<sup>100</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables.

**NO. 766. FLOW OF FUNDS ACCOUNTS—FINANCIAL ASSETS OF FINANCIAL AND NONFINANCIAL INSTITUTIONS, BY HOLDER SECTOR: 1970 TO 1986**

[in billions of dollars. As of Dec. 31. See also *Historical Statistics, Colonial Times to 1970*, series X 192, X 229, X 821, and X 835]

SECTOR	1970	1975	1980	1981	1982	1983	1984	1985	1986
<b>All sectors.....</b>	<b>4,654.7</b>	<b>7,077.5</b>	<b>13,098.6</b>	<b>14,200.1</b>	<b>15,338.6</b>	<b>17,028.1</b>	<b>18,690.2</b>	<b>21,232.9</b>	<b>23,730.8</b>
Households.....	2,502.7	3,552.2	6,662.2	7,176.2	7,746.3	8,527.1	9,117.3	10,234.6	11,203.9
Nonfinancial business.....	415.8	616.9	1,082.9	1,156.9	1,178.5	1,296.9	1,401.6	1,511.0	1,616.5
Farm.....	10.8	14.8	24.2	26.1	27.9	29.6	31.2	33.6	36.3
Nonfarm noncorporate.....	35.4	44.4	64.3	69.9	73.5	73.6	85.8	100.9	110.3
Nonfinancial corporations.....	369.6	557.6	994.4	1,061.0	1,077.1	1,194.2	1,284.6	1,376.5	1,469.9
U.S. Government.....	88.2	120.2	223.6	255.2	292.0	302.7	334.1	369.6	383.2
U.S. Government-sponsored credit agencies and mortgage pools.....	51.5	122.1	309.3	361.8	433.8	502.2	587.8	694.8	874.8
State and local government.....	71.7	128.5	216.1	223.8	246.5	284.1	330.6	448.7	523.5
Monetary authorities.....	86.1	124.8	173.8	182.0	194.4	203.9	218.5	243.4	275.4
Commercial banking <sup>1</sup> .....	516.7	885.7	1,481.9	1,605.9	1,700.3	1,853.7	2,083.3	2,328.4	2,580.0
Domestic commercial banks.....	488.9	792.4	1,266.1	1,365.2	1,471.9	1,603.2	1,801.0	1,994.1	2,171.6
Foreign banking offices in U.S.....	9.3	29.2	101.2	117.3	87.3	91.9	103.4	131.1	169.8
Nonbank finance.....	823.0	1,343.8	2,549.1	2,818.4	3,131.9	3,555.1	3,996.3	4,629.4	5,318.1
Savings and loan associations <sup>2</sup> .....	173.0	333.1	621.9	657.8	707.6	830.3	989.6	1,072.1	1,158.3
Life insurance.....	200.9	279.7	464.2	507.5	567.5	632.7	692.9	788.3	880.2
Other insurance.....	49.9	77.3	174.3	185.6	202.8	225.3	241.0	289.9	329.8
Private pension funds.....	110.4	212.6	467.4	477.6	549.1	648.7	659.1	757.4	826.3
Govt. retirement funds <sup>3</sup> .....	60.3	104.8	198.1	224.2	262.5	311.2	356.6	432.1	502.7
Finance companies.....	64.1	99.1	205.0	230.2	242.3	269.9	308.3	357.9	412.1
Money market funds.....	-	3.7	74.4	181.9	206.6	162.5	204.7	207.5	238.9
Mutual savings banks <sup>4</sup> .....	79.3	121.1	171.5	175.3	174.3	194.4	204.7	216.8	229.2
Investment companies.....	46.8	43.0	63.7	64.0	90.0	130.1	162.5	283.0	487.6
Credit unions.....	18.0	36.9	69.0	72.3	82.7	98.3	113.0	137.2	165.8
Security brokers, dealers.....	16.2	18.5	36.1	38.8	42.9	48.0	53.5	77.1	79.2
Real estate investment trusts.....	3.9	14.0	3.3	3.2	3.5	3.5	5.6	8.1	8.6
Rest of the world.....	99.0	183.4	399.6	419.7	414.8	502.4	620.8	773.0	955.5

- Represents zero. <sup>1</sup> Includes other sectors not shown separately. <sup>2</sup> See footnote 2, table 768. <sup>3</sup> State and local.

<sup>4</sup> Includes Federal savings banks insured by Federal Deposit Insurance Corporation and a few insured by Federal Savings and Loan Insurance Corporation.

Source: Board of Governors of the Federal Reserve System, *Annual Statistical Digest*.

**NO. 767. FLOW OF FUNDS ACCOUNTS—ASSETS AND LIABILITIES OF HOUSEHOLDS: 1970 TO 1986**

[As of December 31. See also *Historical Statistics, Colonial Times to 1970*, series X 114-147]

TYPE OF INSTRUMENT	TOTAL (bil. dol.)							PERCENT DISTRIBUTION		
	1970	1975	1980	1983	1984	1985	1986	1970	1980	1986
<b>Total financial assets.....</b>	<b>2,502.7</b>	<b>3,552.2</b>	<b>6,662.2</b>	<b>8,527.1</b>	<b>9,117.3</b>	<b>10,234.6</b>	<b>11,203.9</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Deposit and market instrument <sup>1</sup> .....	796.3	1,267.3	2,181.7	2,989.1	3,421.2	3,764.2	4,036.6	31.8	32.7	36.1
Checkable deposits and currency.....	118.2	167.6	273.4	362.1	380.9	425.9	523.7	4.7	4.1	4.7
Small time and savings deposits.....	408.9	719.6	1,142.1	1,533.6	1,686.8	1,829.7	1,949.4	16.3	17.1	17.4
Money market fund shares.....	-	3.7	74.4	162.5	209.7	207.5	228.3	-	1.1	2.0
Large time deposits.....	17.4	44.5	133.1	126.1	197.5	194.6	179.7	.7	2.0	1.6
Credit market instruments.....	251.8	332.0	558.6	804.8	946.3	1,126.5	1,158.5	10.1	8.4	10.3
U.S. Government securities.....	105.8	130.7	258.4	421.0	531.8	589.9	597.4	4.2	3.9	5.3
Treasury issues.....	84.9	119.5	205.6	357.9	432.8	427.7	376.3	3.4	3.1	3.4
Savings bonds.....	52.1	67.4	72.5	71.5	74.5	79.8	89.3	2.1	1.1	.8
Other Treasury.....	32.8	51.1	133.1	286.5	358.2	347.9	285.0	1.3	2.0	2.5
Agency issues.....	20.9	12.2	52.8	63.0	99.0	162.2	221.0	.8	.8	2.0
Tax-exempt obligations.....	46.0	68.1	88.3	161.7	190.2	249.6	260.7	1.8	1.3	2.3
Corporate and foreign bonds.....	36.2	65.9	56.2	41.9	38.5	52.4	71.7	1.4	.8	.6
Mortgages.....	52.1	58.4	116.4	145.1	151.1	152.2	150.3	2.1	1.7	1.3
Open-market paper.....	11.8	8.9	39.3	35.1	34.6	82.4	78.5	.5	.6	.7
Corporate equities.....	728.6	641.0	1,166.7	1,454.2	1,490.7	1,948.0	2,350.3	29.1	17.5	21.0
Mutual fund shares.....	46.8	43.0	63.7	130.1	162.5	263.0	487.6	1.9	1.0	4.4
Other corporate equities.....	681.8	598.0	1,103.0	1,324.0	1,328.2	1,685.0	1,862.8	27.2	16.8	16.6
Life insurance reserves.....	130.7	166.5	216.4	240.8	246.0	256.7	267.2	5.2	3.2	2.4
Pension fund reserves <sup>2</sup> .....	239.2	431.7	913.9	1,358.3	1,477.2	1,738.3	1,967.4	9.6	13.7	17.6
Equity in noncorp. business.....	577.2	1,000.7	2,096.3	2,365.4	2,356.5	2,356.1	2,404.3	23.1	31.5	21.5
Security credit.....	-	4.5	14.8	18.8	18.1	30.6	39.3	.2	.2	.4
Miscellaneous assets.....	26.3	40.6	72.4	100.6	107.6	120.7	135.9	1.1	1.1	1.2
<b>Total liabilities.....</b>	<b>500.9</b>	<b>791.4</b>	<b>1,508.9</b>	<b>1,925.3</b>	<b>2,157.5</b>	<b>2,462.9</b>	<b>2,741.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Credit market instruments.....	480.1	762.2	1,451.6	1,847.5	2,082.0	2,369.7	2,636.6	95.8	96.2	96.2
Mortgages.....	309.0	494.5	974.8	1,213.6	1,344.8	1,493.8	1,690.6	61.7	64.6	61.7
Installment consumer credit.....	105.5	168.7	301.4	383.8	460.8	543.2	586.3	21.1	20.0	21.4
Other consumer credit.....	37.6	50.9	74.5	91.0	109.0	123.3	136.7	7.5	4.9	5.0
Tax-exempt debt.....	-	2.7	16.7	41.0	51.2	81.3	82.0	-	1.1	3.0
Bank loans, not elsewhere classified.....	6.9	13.9	29.5	41.5	36.7	44.8	51.5	1.4	2.0	1.9
Other loans.....	20.9	31.5	54.7	76.5	79.4	83.3	86.4	4.2	3.6	3.2
Security credit.....	10.4	12.1	27.2	37.7	34.6	51.3	59.9	2.1	1.8	2.2
Trade credit.....	5.3	9.4	17.2	24.0	25.8	28.0	30.5	1.1	1.1	1.1
Unpaid life insurance premiums <sup>3</sup> .....	5.1	7.7	12.9	16.1	15.1	13.9	15.0	1.0	.9	.5

- Represents zero. <sup>1</sup> Excludes corporate equities. <sup>2</sup> See also table 569. <sup>3</sup> Includes deferred premiums.

Source: Board of Governors of the Federal Reserve System, *Annual Statistical Digest*.

**NO. 768. FLOW OF FUNDS ACCOUNTS—ASSETS AND LIABILITIES OF PRIVATE NONBANK FINANCIAL INSTITUTIONS, BY TYPE OF INSTRUMENT: 1986**

[In billions of dollars. As of Dec. 31. Preliminary. A=Assets; L=Liabilities; "N.e.c."=Not elsewhere classified; RP's=Repurchase agreements]

TYPE OF INSTRUMENT	TOTAL <sup>1</sup>		SAVINGS AND LOAN ASSOCIATIONS <sup>2</sup>		INSURANCE COMPANIES		PRIVATE PENSION FUNDS		STATE AND LOCAL GOVERNMENT RETIREMENT FUNDS		FINANCE COMPANIES		INVESTMENT COMPANIES	
	A	L	A	L	A	L	A	L	A	L	A	L	A	L
<b>Financial assets</b> .....	5,318.1	(x)	1,158.3	(x)	1,210.0	(x)	826.3	(x)	502.7	(x)	412.1	(x)	487.6	(x)
<b>Liabilities</b> .....	(x) 5,157.5		(x) 1,130.7		(x) 1,082.1		(x) 826.3		(x) 502.7		(x) 436.5		(x) 487.6	
<b>Checkable deposits</b> .....	61.1	74.9	17.2	40.3	9.0	-	4.5	-	2.8	-	7.0	-	6.5	-
<b>Time and savings accounts</b> .....	120.6	1,156.7	15.9	846.4	-	-	36.0	-	22.5	-	-	-	-	-
<b>Fed. funds, security RP's</b> .....	100.7	58.4	29.4	58.4	22.9	-	-	-	-	-	-	-	-	-
<b>Money market fund shares</b> .....	-	228.3	-	-	-	-	-	-	-	-	-	-	-	-
<b>Foreign deposits</b> .....	22.2	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Reserves:</b>														
Life insurance.....	-	256.7	-	-	-	256.7	-	-	-	-	-	-	-	-
Pension fund.....	-	1,797.8	-	-	-	468.8	-	826.3	-	502.7	-	-	-	-
<b>Corporate equities</b> .....	953.1	487.6	-	-	155.8	-	436.6	-	180.3	-	-	-	161.2	487.6
<b>Credit market instruments</b> .....	3,665.7	459.5	963.9	144.5	925.1	-	271.5	-	297.2	-	405.1	308.8	319.9	-
<b>Securities:</b>														
U.S. Treasury.....	488.5	-	31.6	-	105.7	-	65.1	-	102.5	-	-	-	124.2	-
<b>Federal:</b>														
agency.....	383.5	-	166.1	-	84.7	-	47.1	-	47.2	-	-	-	-	-
Tax-exempt.....	244.6	-	.9	-	99.1	-	-	-	.5	-	-	-	-	139.4
<b>Corporate and foreign bonds</b> .....	679.1	129.3	-	12.0	352.8	-	122.2	-	131.4	-	115.6	-	46.9	-
Mortgages.....	1,090.4	2.8	664.7	-	195.4	-	4.8	-	15.6	-	67.5	-	-	-
Consumer credit.....	310.5	-	50.6	-	-	-	-	-	-	-	162.8	-	-	-
Bank loans, n.e.c.....	-	36.1	-	23.9	-	-	-	-	-	-	-	11.4	-	-
<b>Open market paper:</b>														
Other loans.....	216.3	182.7	26.0	-	33.2	-	32.3	-	-	-	174.8	-	181.8	9.4
Security credit.....	52.3	71.4	-	-	-	-	-	-	-	-	-	-	-	-
Trade credit.....	29.7	-	-	-	29.7	-	-	-	-	-	-	-	-	-
Taxes payable.....	-	1.5	-	-	-	-	.5	-	-	-	-	-	.1	-
Miscellaneous.....	312.6	584.7	131.9	41.0	67.5	356.1	77.6	-	-	-	-	-	127.6	-

- Represents zero or rounds to zero. X Not applicable. <sup>1</sup>Includes mutual savings banks, credit unions, real estate investment trusts, and security brokers and dealers not shown separately. <sup>2</sup>Includes most Federal savings banks insured by FSLIC. A few of them are included with mutual savings banks, not shown separately.

Source: Board of Governors of the Federal Reserve System, *Annual Statistical Digest*.

**NO. 769. FLOW OF FUNDS ACCOUNTS—CREDIT MARKET DEBT OUTSTANDING: 1970 TO 1986**

[In billions of dollars. As of Dec. 31. "N.e.c."=Not elsewhere classified]

ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986
<b>Credit market debt</b> .....	1,604.0	2,623.9	4,251.2	4,684.6	5,185.4	5,645.9	6,308.9	7,207.9	8,263.2	9,355.8
<b>Government:</b>	450.0	666.5	941.7	1,038.1	1,132.2	1,315.0	1,535.6	1,761.9	2,093.3	2,365.5
Federal.....	300.8	446.3	663.6	742.8	830.1	991.4	1,177.9	1,376.8	1,600.4	1,814.7
State and local.....	149.2	220.2	278.1	295.3	302.1	323.7	357.7	385.1	492.9	550.8
<b>Non-government:</b>	1,154.0	1,957.4	3,309.5	3,646.5	4,053.2	4,330.9	4,779.3	5,446.0	6,169.8	6,990.2
<b>Financial:</b>	120.4	200.6	437.6	583.0	664.9	757.8	852.0	990.7	1,176.2	1,442.2
Sponsored credit agencies <sup>2</sup> .....	38.9	80.3	137.0	182.6	195.0	210.4	211.8	242.2	263.9	278.1
Mortgage pools.....	4.8	28.5	94.8	114.0	129.0	178.5	244.9	289.0	368.9	529.8
Commercial banks <sup>3</sup> .....	11.2	38.3	69.6	82.7	100.3	117.4	132.2	147.8	156.0	149.5
Savings and loan associations.....	11.0	19.1	50.3	57.8	73.4	75.9	73.9	93.2	115.5	144.5
Finance companies.....	50.8	74.9	134.6	133.3	151.7	158.5	170.1	191.2	245.0	308.8
Foreign.....	51.6	94.3	172.1	195.8	219.2	209.0	226.3	231.8	233.0	234.7
Private domestic nonfinancial.....	981.9	1,602.5	2,639.8	2,887.7	3,169.0	3,364.1	3,695.0	4,223.6	4,757.7	5,313.4
<b>Corporations:</b>	354.5	545.3	835.4	914.2	1,019.4	1,089.2	1,151.5	1,344.9	1,514.0	1,705.3
Bonds.....	167.3	261.0	373.5	412.0	448.2	482.0	507.5	574.1	670.6	775.9
Mortgages.....	58.9	66.0	78.4	80.6	78.7	77.4	80.9	81.2	81.7	83.7
Bank loans, n.e.c.....	103.6	169.0	269.7	295.9	338.4	378.7	399.6	476.7	515.1	583.5
Nonbank finance loans.....	14.0	31.9	75.4	80.8	90.2	92.3	102.4	127.6	146.1	170.3
<b>Individuals:</b>	627.5	1,057.2	1,804.4	1,973.5	2,149.6	2,274.9	2,543.5	2,879.7	3,243.7	3,608.1
<b>By sector:</b>										
Households.....	480.1	762.2	1,329.0	1,451.6	1,577.7	1,659.6	1,847.5	2,082.0	2,369.7	2,635.6
Farm.....	47.4	82.0	144.6	159.8	176.4	183.2	187.5	187.5	173.2	158.2
Nonfarm noncorporate.....	100.0	213.1	330.8	362.2	395.5	431.9	508.5	609.1	700.8	814.3
<b>By type of instrument:</b>										
Mortgages.....	409.5	717.4	1,236.7	1,365.7	1,476.6	1,551.5	1,730.6	1,950.7	2,181.9	2,476.3
Consumer credit.....	143.1	219.6	371.4	379.9	398.5	418.1	474.8	569.9	666.5	723.0
Policy loans.....	17.0	25.5	35.9	42.6	50.0	54.2	55.2	55.6	55.5	55.3
Bank loans, n.e.c.....	29.8	46.5	63.0	74.6	88.1	101.0	108.9	107.8	111.5	117.4
Other loans.....	28.0	45.4	83.8	98.0	115.4	120.8	132.9	143.6	147.0	154.0
Tax-exempt debt.....	-	2.7	13.6	16.7	21.1	29.6	41.0	51.2	81.3	62.0

- Represents zero. <sup>1</sup>Includes other types, not shown separately. <sup>2</sup>U.S. Government. <sup>3</sup>Includes bank affiliates. Source: Board of Governors of the Federal Reserve System, *Annual Statistical Digest*.

## NO. 770. OWNERSHIP OF PUBLIC DEBT SECURITIES BY PRIVATE INVESTORS: 1970 TO 1986

[As of December. Par values. Estimated]

INVESTOR	AMOUNT (bil. dol.)							PERCENT DISTRIBUTION				
	1970	1975	1980	1983	1984	1985	1986	1970	1975	1980	1985	1986
<b>Total privately held.....</b>	<b>229.1</b>	<b>349.4</b>	<b>616.4</b>	<b>1,022.6</b>	<b>1,212.5</b>	<b>1,417.2</b>	<b>1,602.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Commercial banks <sup>1</sup> .....	82.7	85.1	112.1	188.8	183.4	192.2	230.1	27.4	24.4	18.2	13.6	14.4
Nonbank investors.....	186.4	264.2	504.3	833.8	1,029.1	1,225.0	1,371.9	72.6	75.6	81.8	86.4	85.6
Individuals <sup>2</sup> .....	81.2	90.8	117.1	133.4	143.8	154.8	157.0	35.4	26.0	19.0	10.9	9.8
Insurance companies.....	7.4	9.5	24.0	56.7	78.4	95.8	106.9	3.2	2.7	3.9	6.8	6.7
Money market funds.....	(NA)	(NA)	3.5	22.8	25.9	25.1	28.6	(NA)	(NA)	.6	1.8	1.8
Corporations <sup>3</sup> .....	7.3	21.3	19.3	39.7	50.1	59.0	68.8	3.2	6.1	3.1	4.2	4.3
State and local governments <sup>4</sup> .....	27.8	34.2	87.9	150.5	173.4	235.8	273.1	12.1	9.8	14.3	16.6	17.0
Foreign and international <sup>5</sup> .....	19.8	66.5	129.7	166.3	192.9	212.5	251.5	8.6	19.0	21.0	15.0	15.7
Other investors <sup>6</sup> .....	23.0	41.9	122.8	264.4	366.6	442.0	486.0	10.0	12.0	19.9	31.2	30.3

NA Not available. <sup>1</sup> Consists of domestically chartered banks, U.S. branches and agencies of foreign banks, NY investment companies majority owned by foreign banks, and Edge Act corporations owned by domestically chartered and foreign banks. <sup>2</sup> Includes partnerships and personal trust accounts. <sup>3</sup> Exclusive of banks and insurance companies. <sup>4</sup> Includes State and local pension funds. <sup>5</sup> Consists of the investment of foreign balances and international accounts in the United States. <sup>6</sup> Consists of savings and loan associations, credit unions, mutual savings banks, nonprofit institutions, money market funds (for 1970 and 1975), corporate pension trust funds, and dealers and brokers. Also included are certain government deposit accounts and government-sponsored agencies.

Source: U.S. Dept. of the Treasury, *Treasury Bulletin*, quarterly.

## NO. 771. SELECTED FINANCIAL INSTITUTIONS—NUMBER AND ASSETS, BY ASSET SIZE: 1986

[As of December]

ASSET SIZE	NUMBER OF INSTITUTIONS				ASSETS (bil. dol.)			
	F.D.I.C.-insured commercial banks <sup>1</sup>	F.S.L.I.C.-insured savings institutions <sup>2</sup>	F.D.I.C.-insured savings banks <sup>1</sup>	Credit unions <sup>3</sup>	F.D.I.C.-insured commercial banks <sup>1</sup>	F.S.L.I.C.-insured savings institutions <sup>2</sup>	F.D.I.C.-insured savings banks <sup>1</sup>	Credit unions <sup>3</sup>
<b>Total.....</b>	<b>14,198</b>	<b>3,227</b>	<b>472</b>	<b>14,693</b>	<b>2,940.9</b>	<b>1,165.3</b>	<b>237.0</b>	<b>147.7</b>
Less than \$5.0 million.....	221		1	10,477	7		(2)	14.0
\$5.0 million-\$9.9 million.....	914	392	6	1,530	7.1	6.1	(2)	10.8
\$10.0 million-\$24.9 million.....	3,688		21	1,483	63.3		.4	23.4
\$25.0 million-\$49.9 million.....	3,684	556	45	600	132.6	20.6	1.6	20.9
\$50.0 million-\$99.9 million.....	2,899	710	85	353	201.0	50.5	6.5	24.4
\$100.0 million-\$499.9 million.....	2,236	1,156	217	238	432.1	246.0	50.1	43.1
\$500.0 million or more.....	556	413	97	12	2,104.1	842.2	178.4	11.1
PERCENT DISTRIBUTION								
<b>Total.....</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Less than \$5.0 million.....	1.6		.2	71.3	(2)		(2)	9.5
\$5.0 million-\$9.9 million.....	6.4	12.1	1.3	10.4	.2	.5	(2)	7.3
\$10.0 million-\$24.9 million.....	26.0		4.4	10.1	2.2		.2	15.8
\$25.0 million-\$49.9 million.....	26.0	17.2	9.5	4.1	4.5	1.8	.7	14.2
\$50.0 million-\$99.9 million.....	20.4	22.0	18.0	2.4	6.8	4.3	2.7	16.5
\$100.0 million-\$499.9 million.....	15.7	35.8	46.0	1.6	14.7	21.1	21.1	29.2
\$500.0 million or more.....	3.9	12.8	20.6	.1	71.5	72.3	75.3	7.5

Z Less than \$50 million or .05 percent. <sup>1</sup> Source: U.S. Federal Deposit Insurance Corporation (F.D.I.C.), unpublished data. <sup>2</sup> Source: U.S. League of Savings Institutions, Washington, DC, *Savings Institutions Sourcebook*, annual. F.S.L.I.C.=Federal Savings and Loan Insurance Corporation. <sup>3</sup> Source: National Credit Union Administration, *National Credit Union Administration Yearend Statistics 1986*. Excludes nonfederally insured State chartered credit unions and federally insured corporate credit unions.

Source: Compiled from sources listed in footnotes.

## NO. 772. FEDERAL RESERVE MEMBER BANKS—REVENUE AND EXPENSES: 1970 TO 1986

[Includes one member bank in the Virgin Islands]

ITEM	Unit	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986
Member banks.....	Number.....	5,769	5,790	5,564	5,425	5,422	5,474	5,619	5,807	5,961	6,034	5,966
Current revenue.....	Bil. dol.....	27.9	51.4	89.1	118.9	150.6	196.6	202.3	185.8	215.6	216.9	211.8
Expenses.....	Bil. dol.....	22.2	44.4	77.8	105.8	136.5	181.9	188.4	171.8	200.9	200.2	197.4
Net current earnings.....	Bil. dol.....	5.7	7.0	11.3	13.1	14.2	14.7	13.9	14.0	14.7	17.8	17.3
Net income.....	Bil. dol.....	3.8	5.5	7.8	9.2	9.9	10.6	10.7	10.8	11.2	13.5	13.4
Cash dividends declared.....	Bil. dol.....	1.8	2.5	2.9	3.5	3.9	4.4	4.9	5.5	5.7	6.3	6.9
Capital accounts <sup>1</sup> .....	Bil. dol.....	33.0	50.0	61.5	67.1	73.7	80.9	86.7	96.7	106.6	117.6	126.2
Ratios to avg. capital accounts:												
Net current earnings.....	Percent.....	17.4	13.9	18.4	19.5	19.2	18.2	15.7	14.5	13.8	15.1	13.7
Net income.....	Percent.....	11.6	11.1	12.8	13.7	13.4	13.1	12.1	11.2	10.5	11.5	10.6
Cash dividends declared.....	Percent.....	5.3	5.0	4.8	5.2	5.3	5.5	5.5	5.7	5.3	5.4	5.5

<sup>1</sup> Averages of amounts reported for varying call dates; for details, see source.Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

**NO. 773. BANKS, BANKING OFFICES, AND DEPOSITS, BY INSURANCE STATUS AND CLASS OF BANK: 1986**

[As of June 30]

INSURANCE STATUS AND CLASS OF BANK	Banks (number)	Banking offices (number)	DEPOSITS (mil. dol.)				
			Total <sup>1</sup>	Individuals, partnerships and corporations			Government
				Total	Transaction accounts <sup>2</sup>	Non-transaction accounts	
<b>Total</b> .....	<b>14,846</b>	<b>61,538</b>	<b>2,003,400</b>	<b>1,808,205</b>	<b>503,297</b>	<b>1,304,908</b>	<b>108,478</b>
F.D.I.C.-insured banks <sup>3</sup> .....	14,801	61,462	2,002,757	1,807,776	503,027	1,304,749	108,474
Commercial banks.....	14,332	58,145	1,823,359	1,628,379	480,186	1,138,193	108,474
National banks.....	4,922	28,095	1,055,002	943,485	290,522	662,969	58,918
State (Federal Reserve, member bank).....	1,090	6,127	246,150	212,242	72,424	139,818	12,307
State (non-Federal Reserve member).....	8,321	23,923	522,206	472,649	127,238	345,411	37,248
Savings banks.....	468	3,317	179,897	179,397	12,841	166,556	-
Noninsured banks <sup>4</sup> .....	45	76	643	429	270	159	4
Commercial banks.....	42	68	643	429	270	159	4
Savings banks.....	3	8	(NA)	(NA)	(NA)	(NA)	(NA)

- Represents zero. NA Not available. <sup>1</sup> Includes other types of deposits, not shown separately. <sup>2</sup> A transaction account is a deposit or account on which the depositor or account holder is permitted to make withdrawals by negotiable or transferable instrument, payment orders of withdrawal, telephone transfers, or other similar devices for the purpose of making payments or transfers to others. <sup>3</sup> F.D.I.C.—Federal Deposit Insurance Corporation. <sup>4</sup> Includes only those noninsured banks for which data are available.

Source: U.S. Federal Deposit Insurance Corporation, *Data Book, Operating Banks and Branches, June 30, 1986*, vol. 1.

**NO. 774. BANKING OFFICES, BY DEPOSIT INSURANCE STATUS: 1970 TO 1986**

[As of December 31. Includes Puerto Rico and outlying areas. Beginning 1982 excludes automatic teller machines that were previously being reported by many banks as branches. See also *Historical Statistics, Colonial Times to 1970*, series X 716-724]

ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986
<b>All banking offices</b> .....	<b>37,166</b>	<b>47,239</b>	<b>54,926</b>	<b>57,232</b>	<b>59,348</b>	<b>57,913</b>	<b>59,050</b>	<b>60,067</b>	<b>60,890</b>	<b>61,897</b>
Commercial banks, total.....	35,585	44,917	51,588	53,649	55,749	54,829	55,960	57,010	57,764	58,565
Member, Federal Reserve System.....	21,989	26,526	28,163	29,985	31,414	30,921	31,946	32,809	33,854	34,542
National banks.....	17,191	21,073	23,307	24,217	25,221	24,867	26,080	27,037	27,844	28,216
State banks.....	4,798	5,453	5,956	5,768	6,193	6,054	5,866	5,772	6,010	6,324
Nonmember banks.....	13,596	18,397	22,423	23,684	24,325	23,929	24,074	24,201	23,910	24,023
Insured.....	13,332	18,043	21,893	23,188	23,788	23,314	23,380	23,535	23,910	24,023
Noninsured.....	264	348	432	478	547	594	634	666	(NA)	(NA)
Savings banks, total.....	1,581	2,322	3,338	3,583	3,599	3,084	3,090	3,057	3,126	3,332
Insured.....	1,223	1,897	2,840	3,066	3,217	2,733	2,780	2,728	3,126	3,332
Noninsured.....	358	425	498	517	382	351	330	329	(NA)	(NA)

NA Not available.

Source: U.S. Federal Deposit Insurance Corporation, *Annual Report*, and unpublished data.

**NO. 775. CHANGES IN NUMBER OF OPERATING BANKING OFFICES: 1970 TO 1986**

[As of December 31. Includes Puerto Rico and outlying areas. Beginning 1985, excludes noninsured institutions. Minus sign (-) indicates decrease]

TYPE OF CHANGE	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986
<b>Banking offices</b> <sup>1</sup> .....	<b>37,166</b>	<b>47,239</b>	<b>54,926</b>	<b>57,232</b>	<b>59,348</b>	<b>57,913</b>	<b>59,050</b>	<b>60,067</b>	<b>60,890</b>	<b>61,897</b>
Number of banks.....	14,199	15,130	15,201	15,330	15,355	15,412	15,440	15,469	14,809	14,661
Number of branches <sup>1</sup> .....	22,967	32,109	39,725	41,902	43,993	42,501	43,610	44,578	46,081	47,216
<b>Net change during year</b> .....	<b>1,584</b>	<b>1,931</b>	<b>2,318</b>	<b>2,306</b>	<b>2,116</b>	<b>-1,435</b>	<b>1,137</b>	<b>1,017</b>	<b>1,818</b>	<b>1,007</b>
Offices opened.....	1,864	2,224	2,891	2,800	2,901	2,387	2,119	2,338	2,874	2,756
Banks.....	186	277	239	271	265	379	432	466	482	396
Branches.....	1,678	1,947	2,652	2,529	2,636	2,008	1,687	1,852	2,392	2,360
Offices closed.....	280	293	573	494	785	3,822	982	1,321	1,056	1,749
Banks.....	165	108	244	142	240	322	404	427	496	524
Branches.....	115	185	329	352	545	*3,500	578	894	560	1,225

<sup>1</sup> See headnote, table 774. <sup>2</sup> Includes 3,000 automatic teller machines that were previously reported as branches. Source: U.S. Federal Deposit Insurance Corporation, *Annual Report*, and unpublished data.

**NO. 776. BANK HOLDING COMPANIES—OFFICES, ASSETS, AND DEPOSITS: 1970 TO 1986**

[As of Dec. 31. A "bank holding company" means any company which has control over any bank or over any company that is, or becomes, a bank holding company by virtue of the Bank Holding Company Act and its amendments. Represents domestic data only]

ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986
Number of companies.....	121	1,821	2,478	2,905	3,500	4,285	5,399	5,702	5,946	6,489
Banking offices.....	4,155	22,056	27,089	29,924	33,733	37,068	41,349	44,670	47,106	49,217
Banks.....	895	3,674	4,280	4,954	5,689	6,731	7,835	8,840	9,156	9,428
Branches.....	3,260	18,382	22,819	24,970	28,044	30,337	33,514	35,830	37,950	39,789
Assets (bil. dol.).....	92.9	661.3	1,004.7	1,134.4	1,296.7	1,537.9	2,019.8	2,151.9	2,363.4	2,573.0
Percent of all commercial banks.....	16.1	68.5	70.6	74.1	77.3	82.6	86.0	89.4	90.2	91.1
Deposits (bil. dol.).....	78.1	527.5	744.7	840.6	938.7	1,113.7	1,527.2	1,637.3	1,786.2	1,955.6

Source: Board of Governors of the Federal Reserve System, *Banking and Monetary Statistics, 1941-1970; Annual Statistical Digest*; and unpublished data.

**NO. 777. COMMERCIAL BANKS—DOMESTIC ASSETS AND DEPOSITS, STATES AND OTHER AREAS: 1986**

[As of December 31. Excludes foreign branches of U.S. banks]

STATE	ALL COMMERCIAL BANKS <sup>1</sup>				INSURED COMMERCIAL BANKS <sup>2</sup>		STATE OR OTHER AREA	ALL COMMERCIAL BANKS <sup>1</sup>				INSURED COMMERCIAL BANKS <sup>2</sup>	
	Assets		Deposits		Assets (bil. dol.)	Deposits (bil. dol.)		Assets		Deposits		Assets (bil. dol.)	Deposits (bil. dol.)
	Total (bil. dol.)	Percent held by multi-bank holding companies	Total (bil. dol.)	Per capita <sup>2</sup> (dol.)				Total (bil. dol.)	Percent held by multi-bank holding companies	Total (bil. dol.)	Per capita <sup>2</sup> (dol.)		
<b>Total</b> .....	(NA)	(NA)	(NA)	2,531.8	1,968.5	NE	16.6	40.9	14.5	9,053	16.6	14.5	
U.S.	2,573.1	71.0	1,955.8	8,113	2,519.9	NV	9.0	95.4	5.9	6,142	9.1	6.0	
AL	28.9	72.6	23.2	5,726	28.9	NH	7.9	83.9	6.9	6,693	7.9	6.9	
AK	5.0	24.4	4.1	7,610	5.0	NJ	68.5	67.1	58.0	7,618	69.3	59.1	
AZ	27.6	46.8	23.8	7,168	27.6	NM	9.9	56.3	8.5	5,769	9.9	8.5	
AR	17.2	39.2	15.8	6,681	18.0	NY	423.3	88.9	255.5	14,376	391.0	255.5	
CA	251.5	57.4	206.5	7,652	245.3	NC	55.4	80.5	38.9	6,144	54.8	38.9	
CO	25.7	75.5	21.3	6,531	25.6	ND	6.9	47.3	6.1	8,957	6.9	6.1	
CT	32.8	79.6	26.3	8,240	32.5	OH	87.5	82.8	69.1	6,427	86.2	69.5	
DE	34.2	62.2	15.3	24,117	34.1	OK	29.2	38.8	25.3	7,852	29.2	25.4	
DC	14.5	28.3	11.7	18,626	13.9	OR	18.9	83.1	14.5	5,361	18.6	14.5	
FL	102.4	73.3	86.4	7,401	101.8	PA	136.2	81.4	102.4	8,517	134.2	102.4	
GA	50.2	78.4	37.9	6,206	49.4	RI	11.3	87.0	7.9	8,131	11.3	7.9	
HI	10.6	5.7	9.3	8,768	9.2	SC	17.0	51.0	13.2	3,901	17.0	13.2	
ID	7.1	84.3	5.9	5,922	7.1	SD	18.2	82.6	8.1	11,991	18.2	8.1	
IL	148.7	71.1	108.8	9,421	148.3	TN	38.8	49.5	32.1	6,687	38.2	32.1	
IN	48.7	61.3	40.4	7,346	48.0	TX	201.3	75.4	158.2	9,482	199.9	157.4	
IA	30.1	39.9	26.0	9,119	30.1	UT	11.1	73.7	9.0	5,403	10.9	9.0	
KS	24.6	24.9	21.5	8,746	24.6	VT	4.7	37.9	4.1	7,665	4.7	4.1	
KY	33.1	56.7	26.2	7,025	33.0	VA	51.0	83.8	40.9	7,070	50.6	40.9	
LA	37.0	50.9	31.5	7,003	36.8	WA	31.4	79.0	25.6	5,746	31.0	25.6	
ME	6.1	86.2	5.2	4,451	6.1	WV	14.9	54.2	12.8	6,670	14.9	12.8	
MD	37.8	37.5	29.1	6,513	37.4	WI	40.5	67.9	33.8	7,065	40.4	33.8	
MA	77.4	76.7	58.6	10,056	76.4	WY	4.4	63.5	3.9	7,716	4.4	3.9	
MI	76.0	86.6	62.0	6,782	74.2	AM <sup>4</sup>	(NA)	(NA)	(NA)	(NA)	(Z)	(Z)	
MN	54.3	72.1	38.9	9,225	53.6	PT	(NA)	(NA)	(NA)	(NA)	11.5	9.7	
MS	17.9	22.7	15.1	5,756	17.9	GU <sup>4</sup>	(NA)	(NA)	(NA)	(NA)	.3	.2	
MO	52.7	69.9	43.5	8,592	52.4	Pacific Islands <sup>4</sup>	(NA)	(NA)	(NA)	(NA)	(Z)	(Z)	
MT	7.3	68.6	6.1	7,479	7.3								

NA Not available. Z Less than \$50 million. <sup>1</sup> Data reflect revisions submitted by banks after original filing date.

<sup>2</sup> Based on U.S. Bureau of the Census resident population estimates as of July 1. <sup>3</sup> Source: U.S. Federal Deposit Insurance Corporation, unpublished data. <sup>4</sup> Consists of data for one insured commercial bank chartered in the outlying areas.

Source: Except as noted, Board of Governors of the Federal Reserve System, *Annual Statistical Digest*.

NO. 778. INSURED COMMERCIAL BANKS—ASSETS AND LIABILITIES: 1975 TO 1986

(In billions of dollars, except number of banks. As of Dec. 31. Includes outlying areas. Excludes noninsured banks and nondeposit trust companies. 1975 includes American branches of foreign banks. Except as noted, includes foreign branches of U.S. banks. See *Historical Statistics, Colonial Times to 1970*, series X 588-609, for related data)

ITEM	1975	1979	1980	1981	1982	1983	1984	1985	1986
Number of banks.....	14,384	14,364	14,434	14,414	14,452	14,465	14,481	14,404	14,236
<b>Assets</b> .....	<b>1,095.4</b>	<b>1,692.1</b>	<b>1,855.7</b>	<b>2,029.1</b>	<b>2,194.3</b>	<b>2,342.1</b>	<b>2,508.6</b>	<b>2,731.0</b>	<b>2,940.0</b>
Securities, total <sup>1</sup> .....	231.5	283.9	334.4	352.1	386.0	441.3	385.8	439.6	484.8
U.S. Treasury, direct obligations.....	81.0	88.4	104.5	103.7	118.7	168.1	108.2	118.3	127.0
Obligations of States and subdivisions <sup>2</sup> .....	100.9	132.8	148.3	151.5	155.2	158.4	120.9	160.6	140.4
Federal funds sold and securities purchased <sup>3</sup> .....	37.0	61.9	70.3	91.2	103.9	93.5	110.8	133.2	139.2
Net loans and leases <sup>4</sup> .....	590.1	935.8	1,006.4	1,120.2	1,211.6	1,301.3	1,489.7	1,607.8	1,727.2
Commercial and industrial loans.....	(NA)	351.1	391.0	454.6	504.4	524.8	565.0	577.7	600.8
Real estate loans.....	(NA)	248.9	269.1	281.4	308.0	336.8	395.6	438.5	514.8
Loans to depository institutions <sup>5</sup> .....	(NA)	69.5	81.2	94.7	105.9	109.2	72.3	68.0	70.2
Loans to farmers (excl. real estate).....	(NA)	31.4	32.3	33.7	37.0	39.9	40.7	36.1	31.7
Other loans to individuals.....	(NA)	192.7	187.4	193.0	199.2	224.6	266.9	309.0	335.6
All other loans <sup>6</sup> .....	(NA)	60.8	62.6	69.4	73.1	83.6	176.6	195.1	191.4
Lease financing receivables.....	(NA)	11.8	14.0	15.9	16.7	17.1	20.2	24.3	27.5
Cash, balances with banks, etc.....	189.4	306.8	331.9	327.4	334.3	341.9	323.5	340.6	379.0
Other.....	47.4	94.7	112.6	138.2	158.5	164.2	198.9	209.8	208.7
<b>Liabilities and equity capital</b> .....	<b>6 1,095.4</b>	<b>1,692.1</b>	<b>1,855.7</b>	<b>2,029.1</b>	<b>2,194.3</b>	<b>2,342.1</b>	<b>2,508.6</b>	<b>2,731.0</b>	<b>2,940.0</b>
Deposits.....	915.9	1,363.1	1,481.2	1,588.8	1,706.5	1,842.5	1,962.6	2,117.9	2,282.3
Demand <sup>7 8</sup> .....	(NA)	414.8	415.1	389.2	354.2	370.6	421.6	450.9	510.6
Time and savings <sup>9</sup> .....	(NA)	659.8	755.6	885.1	1,028.1	1,140.9	1,234.2	1,345.2	1,457.9
Deposits in foreign offices.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	317.6	321.8	313.8
Individuals, partnerships and corporations <sup>7</sup> .....	(NA)	914.5	1,007.8	1,103.9	1,214.9	1,353.6	1,466.8	1,617.1	1,781.5
Government <sup>7</sup> .....	(NA)	86.5	84.2	85.3	90.0	86.7	96.5	107.5	108.7
Domestic interbank, foreign government, and other banks in foreign countries <sup>7 10</sup> .....	(NA)	72.8	77.7	84.2	77.5	70.8	55.6	64.0	76.9
Miscellaneous liabilities.....	101.6	225.5	260.4	315.4	351.5	352.0	381.4	414.9	458.1
Subordinated notes and debentures.....	4.4	6.3	6.5	6.5	7.3	7.1	10.2	14.7	16.9
Limited-life preferred stock.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	14.0	.1
Equity capital.....	64.3	97.2	107.6	118.3	128.9	140.5	154.3	169.5	182.6

NA Not available. <sup>1</sup> Book value. Includes other categories not shown separately. <sup>2</sup> Beginning 1984, nonrated industrial development and other obligations of States and political subdivisions are included under all other loans. <sup>3</sup> Under agreements to resell. <sup>4</sup> Excludes allowance for loan and lease losses and unearned income. <sup>5</sup> Includes loans to foreign banks. <sup>6</sup> Includes reserves on loans and securities, not shown separately. <sup>7</sup> Represents deposits in domestic offices only. <sup>8</sup> Beginning 1984, noninterest bearing deposits. <sup>9</sup> Beginning 1984, interest bearing deposits. <sup>10</sup> Includes official institutions in foreign countries.

Source: U.S. Federal Deposit Insurance Corporation, *Assets and Liabilities: Commercial and Mutual Savings Banks*, semiannual; beginning 1979, *Annual Report*; and unpublished data.

NO. 779. INSURED COMMERCIAL BANKS—SELECTED MEASURES OF FINANCIAL CONDITION: 1975 TO 1986

[As of December 31. Capital figures exclude reserves for possible loan losses]

ITEM	Unit	1975	1979	1980	1981	1982	1983	1984	1985	1986
Number of banks.....	Number...	14,384	14,364	14,434	14,414	14,452	14,465	14,481	14,404	14,236
Equity and debt capital.....	Bill. dol.....	70.3	103.3	114.1	124.8	136.2	147.8	164.5	198.2	199.6
Equity capital to total assets.....	Percent.....	8.1	5.7	5.8	5.8	5.9	6.0	6.2	6.2	6.2
Equity capital to total deposits.....	Percent.....	8.5	7.1	7.3	7.4	7.6	7.6	7.9	8.0	8.0
Debt capital to total capital.....	Percent.....	6.3	6.1	5.7	5.2	5.4	4.8	6.2	14.5	18.5
Total capital to total assets.....	Percent.....	6.5	6.1	6.2	6.2	6.2	6.3	6.6	6.7	6.7
Total capital to total liabilities.....	Percent.....	6.9	6.5	6.6	6.6	6.6	6.7	7.0	7.2	7.2
Total capital to risk assets <sup>2</sup> .....	Percent.....	9.0	8.3	8.4	8.2	8.2	8.4	8.5	9.1	9.3
Total loans, excluding Federal funds <sup>3</sup> .....	Bill. dol.....	579.4	931.2	1,002.5	1,131.3	1,224.4	1,316.9	1,508.3	1,630.8	1,756.5
Total loans to deposits.....	Percent.....	63.4	68.4	87.7	71.2	71.7	71.5	76.9	77.0	78.9
Net loan charge-offs to average total loans.....	Percent.....	.81	.34	.38	.36	.56	.68	.76	.84	.98
Aggregate net operating income.....	Mill. dol.....	7,146	13,126	14,484	15,800	15,587	14,907	15,540	16,267	13,478
Aggregate net income to average equity capital.....	Percent.....	11.7	13.9	13.7	13.1	12.1	11.1	10.7	11.3	10.1
Aggregate net income to average assets.....	Percent.....	.78	.81	.78	.77	.72	.66	.65	.70	.64

<sup>1</sup> Includes limited life preferred stock as debt capital. <sup>2</sup> Risk assets are total assets less cash, U.S. Government securities, and Federal funds sold. <sup>3</sup> Beginning in 1984, some assets previously classified as securities are included among loans.

Source: U.S. Federal Deposit Insurance Corporation, *The Condition of the Financial System*, May 1980, and unpublished data.

### No. 780. FDIC-INSURED BANKS CLOSED OR ASSISTED DUE TO FINANCIAL DIFFICULTIES, AND PROBLEM BANKS: 1971 TO 1986

[Banks are closed either permanently or temporarily by order of supervisory authorities or by directors of banks. F.D.I.C.=Federal Deposit Insurance Corporation. See *Historical Statistics, Colonial Times to 1970*, series X 741, 748, 756, and 761]

ITEM	Unit	1971-1980	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Total banks closed or assisted.....	Number...	79	6	7	10	10	10	42	48	179	120	145
Agricultural banks <sup>2</sup> .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	1	7	7	31	62	59
Deposits, closed and assisted banks.....	Mil. dol...	5,372	205	854	111	216	3,826	9,908	5,442	2,883	8,059	6,597
Agricultural banks <sup>2</sup> .....	Mil. dol...	(NA)	(NA)	(NA)	(NA)	(NA)	7	112	114	421	866	1,408
Problem banks <sup>3</sup> .....	Number...	(X)	368	342	287	217	223	369	642	848	1,140	1,484

NA Not available. X Not applicable. <sup>1</sup> Excludes assistance by FDIC to Continental Illinois. <sup>2</sup> Banks with at least 25 percent of their portfolios devoted to farm loans. <sup>3</sup> FDIC-insured commercial and savings banks considered to be problem banks by the supervisory authorities, end-of-period.

Source: U.S. Federal Deposit Insurance Corporation, *Annual Report*, and unpublished data.

### No. 781. U.S. BANKING OFFICES OF FOREIGN BANKS—SUMMARY: 1975 TO 1986

[In billions of dollars, except as indicated. As of December, except as indicated. Covers agencies, branches, subsidiary commercial banks, New York State investment companies, and, for data by country only, finance companies]

YEAR	Assets	LOANS		Deposits	COUNTRY	NUMBER OF--		Assets	Loans, commercial and industrial	Deposits
		Total	Business			Banks with U.S. offices	U.S. offices			
1975.....	52.4	28.9	19.9	22.6	1986, total <sup>2</sup> .....	263	638	468.1	120.9	255.3
1980.....	200.6	121.4	59.6	80.4	Japan.....	27	91	201.8	46.0	110.3
1981.....	250.6	157.7	73.6	101.8	United Kingdom.....	14	52	44.3	16.0	28.6
1982.....	299.8	185.2	82.4	154.3	Canada.....	9	53	42.0	12.3	23.2
					Italy.....	12	26	28.1	8.4	12.3
1983.....	328.8	192.4	84.5	181.3	Hong Kong.....	11	30	24.1	7.1	17.8
1984.....	394.4	220.1	97.8	233.7	Switzerland.....	7	17	21.9	4.2	8.0
1985.....	440.8	247.4	108.8	236.7	France.....	15	42	20.2	4.4	11.8
1986.....	524.3	276.9	126.8	278.2	Israel.....	4	25	9.8	2.8	8.4
					West Germany.....	12	21	7.5	2.1	3.7
					Netherlands.....	4	17	6.5	1.9	3.1
SHARE <sup>1</sup>										
1975.....	5.3	5.7	10.4	2.9						
1980.....	11.9	13.4	18.2	6.6						
1985.....	16.1	15.4	22.5	12.1						
1986.....	17.3	15.8	23.3	12.8						

<sup>1</sup> Percent of "domestically owned" commercial banks plus U.S. offices of foreign banks. <sup>2</sup> As of June 30. Includes other countries not shown separately. Source: *American Banker*, New York, NY, selected issues.

Source: Except as noted, Board of Governors of the Federal Reserve System, unpublished data.

### No. 782. 500 LARGEST BANKS IN THE WORLD—NUMBER AND DEPOSITS, BY LOCATION OF BANK: 1970 TO 1986

[Deposits in billions of dollars, except percent. Data cover U.S. commercial banks and foreign banks that conduct a commercial banking business; beginning 1983, includes U.S. and foreign savings banks. Beginning 1981, covers top 500 banks in assets available. Number of banks includes banks more than 50 percent owned by other banks. To avoid double-counting of deposits, banks more than 50 percent owned by other banks are excluded from deposit totals if their parent bank consolidates their deposits]

LOCATION OF BANK	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	PERCENT		
											1970	1980	1986
NUMBER													
U.S. banks.....	185	137	95	93	97	97	102	115	110	102	37.0	18.6	20.4
Foreign banks.....	315	363	405	407	403	403	398	385	390	398	63.0	81.4	79.6
DEPOSITS													
Total.....	890	2,178	4,508	4,994	5,213	5,230	5,683	5,854	7,022	9,204	100.0	100.0	100.0
U.S. banks.....	296	494	697	754	806	794	882	961	1,014	1,051	33.3	15.1	11.4
Foreign banks.....	594	1,682	3,811	4,240	4,407	4,436	4,801	4,893	6,008	8,153	66.7	84.9	88.6

Source: *American Banker*, New York, NY, selected July issues.

**NO. 783. FOREIGN BRANCHES OF U.S. FEDERAL RESERVE MEMBER BANKS—NUMBER AND ASSETS:  
1970 TO 1986**

[As of year end. The foreign branch activities of nonmember banks are not significant]

ITEM	Unit	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986, prel.
Member banks operating foreign branches.....	Number.....	79	126	139	159	159	162	166	163	162	158
Foreign branches.....	Number.....	532	762	789	787	841	900	892	905	916	885
Assets of foreign branches <sup>1, 2</sup> .....	Bil. dol.....	50.0	145.3	279.5	310.5	343.3	341.3	333.1	291.3	289.7	290.0
Percent of total assets of all insured commercial banks <sup>3</sup> .....	Percent.....	7.3	13.1	15.4	16.3	16.1	14.2	11.9	10.3	8.9	8.3
Assets of branches in United Kingdom <sup>1</sup> .....	Bil. dol.....	24.0	66.7	95.0	107.4	111.9	110.8	132.4	86.7	93.9	94.0
Assets of branches in The Bahamas and Cayman Islands <sup>1</sup> .....	Bil. dol.....	4.0	36.6	67.5	93.3	104.8	100.5	116.7	85.5	76.5	76.0

<sup>1</sup> Data exclude claims on other foreign branches of the same bank. <sup>2</sup> Includes assets of foreign branches in countries other than those shown separately. <sup>3</sup> Percentages reflect adjustments to exclude foreign branch claims on the U.S. offices of their parent banks.

Source: Board of Governors of the Federal Reserve System, unpublished data.

**NO. 784. FOREIGN LENDING BY LARGE U.S. BANKS, BY MATURITY, TYPE OF BORROWER, AND COUNTRY: 1986**

[In millions of dollars, except percent. As of December. Covers 195 U.S. banking organizations which do nearly all of the foreign lending in the country. Data represent claims on foreign residents and institutions held at all domestic and foreign offices of covered banks. Data cover only cross-border and non-local currency lending. These result from a U.S. bank's office in one country lending to residents of another country or lending in a currency other than that of the borrower's country. Excludes local currency loans and other claims and local currency liabilities held by banks' foreign offices on residents of the country in which the office was located (e.g. Deutsche mark loans to German residents booked at the German branch of the reporting U.S. bank)]

COUNTRY	CLAIMS		Bank borrowers	Private nonbank borrowers	COUNTRY	CLAIMS		Bank borrowers	Private nonbank borrowers
	Total <sup>1</sup>	Per cent short-term <sup>2</sup>				Total <sup>1</sup>	Per cent short-term <sup>2</sup>		
<b>Total<sup>3</sup></b> .....	<b>275,639</b>	<b>65</b>	<b>130,164</b>	<b>66,864</b>	Japan.....	17,133	85	11,097	5,572
Algeria.....	848	20	417	58	Jordan.....	154	59	37	10
Argentina.....	8,524	37	1,080	1,806	Kuwait.....	866	95	703	179
Australia.....	3,958	55	901	2,813	Liberia.....	645	49	5	613
Austria.....	1,650	85	1,228	93	Macao.....	134	79	93	41
Bahamas, The.....	4,157	95	3,821	202	Malaysia.....	741	38	119	301
Bahrain.....	1,139	99	1,053	59	Mexico.....	23,654	24	2,985	6,140
Belgium-Luxembourg.....	7,915	92	6,437	869	Morocco.....	892	71	412	10
Bermuda.....	394	69	20	347	Netherlands.....	2,650	77	1,348	1,108
Brazil.....	22,404	43	5,406	3,006	Netherlands Antilles.....	1,042	60	156	879
British West Indies.....	8,465	97	8,225	153	New Zealand.....	1,317	52	229	785
Cameroon.....	155	42	16	99	Nigeria.....	903	67	305	50
Canada.....	8,526	66	3,163	4,719	Norway.....	2,832	54	863	1,786
Chile.....	6,459	40	1,818	697	Pakistan.....	195	60	48	59
China:					Panama.....	2,191	68	649	1,169
Mainland.....	491	89	120	59	Peru.....	1,344	74	221	231
Taiwan.....	2,960	87	1,614	1,095	Philippines.....	5,107	42	506	1,048
Colombia.....	2,148	41	511	493	Poland.....	469	21	90	-
Costa Rica.....	418	40	12	31	Portugal.....	658	49	239	30
Denmark.....	2,697	52	901	1,014	Romania.....	140	34	33	-
Dominican Republic.....	427	44	19	44	Saudi Arabia.....	1,208	74	420	788
East Germany.....	282	58	117	46	Singapore.....	6,731	94	5,829	798
Ecuador.....	2,170	43	186	11	South Africa.....	2,957	84	1,689	740
Egypt.....	651	68	475	86	South Korea.....	5,987	62	2,689	2,017
El Salvador.....	121	64	67	25	Soviet Union.....	95	74	3	4
Finland.....	1,300	81	826	289	Spain.....	2,393	53	1,059	597
France.....	8,417	84	6,581	820	Sri Lanka.....	159	54	53	8
Greece.....	2,389	38	147	1,455	Sweden.....	2,432	85	1,676	319
Honduras.....	174	69	22	35	Switzerland.....	3,918	86	2,359	1,459
Hong Kong.....	7,364	87	4,958	2,351	Thailand.....	1,114	72	593	415
Hungary.....	346	62	44	-	Trinidad and Tobago.....	182	51	-	-
Iceland.....	204	51	36	35	Tunisia.....	158	47	40	19
India.....	999	67	395	407	Turkey.....	2,074	61	472	166
Indonesia.....	2,155	55	150	1,253	United Arab Emirates.....	399	89	257	106
Iraq.....	309	72	183	3	United Kingdom.....	40,890	87	30,323	9,439
Ireland.....	1,256	46	325	177	Uruguay.....	929	23	24	90
Israel.....	1,496	68	1,065	156	Venezuela.....	9,112	55	1,696	1,856
Italy.....	7,306	73	5,034	784	West Germany.....	4,830	62	1,755	1,767
Ivory Coast.....	365	33	15	59	Yugoslavia.....	2,065	29	636	52
Jamaica.....	205	49	7	15					

- Represents zero. <sup>1</sup> Includes public borrowers, not shown separately. <sup>2</sup> Maturity, one year or less. <sup>3</sup> Includes countries not shown separately.

Source: Board of Governors of the Federal Reserve System, Federal Financial Institutions Examination Council, statistical release.

## NO. 795. SAVINGS INSTITUTIONS—FINANCIAL SUMMARY BY TYPE: 1970 TO 1986

[In billions of dollars, except number of institutions. As of December 31. Includes Puerto Rico and Guam. FSLIC=Federal Savings and Loan Insurance Corporation. FDIC=Federal Deposit Insurance Corporation. See also *Historical Statistics, Colonial Times to 1970*, series X834-844]

TYPE OF INSTITUTION	1970	1975	1980	1981	1982	1983	1984	1985	1986
NUMBER OF INSTITUTIONS									
<b>Savings institutions, total</b> .....	<b>6,182</b>	<b>5,406</b>	<b>5,076</b>	<b>4,748</b>	<b>4,248</b>	<b>4,036</b>	<b>3,978</b>	<b>3,940</b>	(NA)
Savings and loan associations.....	5,665	4,331	4,613	4,292	3,825	3,502	3,393	3,197	3,078
FSLIC-insured.....	4,365	4,078	4,002	3,779	3,343	3,040	2,938	2,907	2,811
State insured and non-insured.....	1,304	853	611	513	483	462	455	290	267
<b>Savings banks</b> .....	<b>493</b>	<b>475</b>	<b>463</b>	<b>454</b>	<b>423</b>	<b>534</b>	<b>585</b>	<b>743</b>	(NA)
FSLIC-insured.....	(X)	(X)	3	6	6	143	198	339	409
FDIC-insured.....	328	328	323	331	315	294	291	392	(NA)
Federally chartered.....	(X)	(X)	(X)	(X)	(X)	18	24	28	(NA)
State chartered.....	328	328	323	331	315	276	267	364	(NA)
State insured and non-insured.....	165	147	137	117	102	97	96	12	(NA)
FSLIC-insured institutions.....	4,365	4,078	4,005	3,785	3,349	3,183	3,136	3,246	(NA)
FDIC-insured institutions.....	328	328	323	331	315	294	291	392	(NA)
State insured and non-insured.....	1,469	1,000	748	630	585	559	551	302	(NA)
ASSETS									
<b>Savings institutions, total</b> .....	<b>255.3</b>	<b>459.4</b>	<b>796.6</b>	<b>849.1</b>	<b>892.2</b>	<b>1,034.0</b>	<b>1,208.1</b>	<b>1,315.4</b>	(NA)
Savings and loan associations.....	176.1	338.3	628.8	664.2	707.6	773.4	903.5	948.8	963.3
FSLIC-insured.....	170.6	330.3	618.5	651.1	692.7	754.2	880.0	938.1	953.6
State insured and non-insured.....	5.5	8.0	11.2	13.1	15.1	19.2	23.5	10.7	9.7
<b>Savings banks</b> .....	<b>79.2</b>	<b>121.1</b>	<b>166.8</b>	<b>184.9</b>	<b>184.4</b>	<b>260.6</b>	<b>304.6</b>	<b>366.6</b>	(NA)
FSLIC-insured.....	(X)	(X)	2.2	7.5	6.9	65.0	98.4	131.6	210.5
FDIC-insured.....	68.7	107.3	152.6	156.1	155.3	170.7	179.1	205.4	(NA)
Federally chartered.....	(X)	(X)	(X)	(X)	(X)	36.7	43.5	48.0	(NA)
State chartered.....	68.7	107.3	152.6	156.1	155.3	134.0	135.6	157.4	(NA)
State insured and non-insured.....	10.5	13.8	12.0	21.3	22.2	24.9	27.1	29.6	(NA)
FSLIC-insured institutions.....	170.6	330.3	620.6	658.5	699.5	819.2	978.5	1,089.4	1,164.1
FDIC-insured institutions.....	68.7	107.3	152.6	156.1	155.3	170.7	179.1	205.4	(NA)
State insured and non-insured.....	16.0	21.8	23.2	34.4	37.3	44.1	50.6	40.3	(NA)
MORTGAGE LOANS OUTSTANDING									
<b>Savings institutions, total</b> .....	<b>208.2</b>	<b>355.9</b>	<b>603.7</b>	<b>628.4</b>	<b>584.6</b>	<b>633.7</b>	<b>717.9</b>	<b>777.6</b>	(NA)
Savings and loan associations.....	150.3	278.6	502.8	518.5	483.6	494.8	555.3	583.2	676.4
FSLIC-insured.....	146.0	272.5	494.2	509.1	473.7	482.6	541.6	576.8	(NA)
State insured and non-insured.....	4.3	6.1	9.0	9.4	10.0	12.2	13.7	6.9	(NA)
<b>Savings banks</b> .....	<b>57.9</b>	<b>77.2</b>	<b>100.9</b>	<b>109.9</b>	<b>100.9</b>	<b>138.9</b>	<b>162.8</b>	<b>194.4</b>	(NA)
FSLIC-insured.....	(X)	(X)	.7	3.7	3.4	38.7	56.9	73.0	(NA)
FDIC-insured.....	50.7	68.4	91.6	93.6	85.1	87.5	92.1	108.1	(NA)
Federally chartered.....	(X)	(X)	(X)	(X)	(X)	19.6	22.2	24.3	(NA)
State chartered.....	50.7	68.4	91.6	93.6	85.1	67.9	69.9	81.8	(NA)
State insured and non-insured.....	7.2	8.9	8.3	12.6	12.4	12.7	13.6	15.3	(NA)
FSLIC-insured institutions.....	146.0	272.5	494.9	512.9	477.0	521.3	599.0	649.8	661.6
FDIC-insured institutions.....	50.7	68.4	91.6	93.6	85.1	87.5	92.1	106.1	(NA)
State insured and non-insured.....	11.5	15.0	25.0	22.0	22.4	24.9	27.3	22.2	(NA)
DEPOSITS									
<b>Savings institutions, total</b> .....	<b>218.8</b>	<b>396.4</b>	<b>673.5</b>	<b>688.9</b>	<b>733.2</b>	<b>863.7</b>	<b>988.3</b>	<b>1,058.3</b>	(NA)
Savings and loan associations.....	146.7	285.7	511.0	525.1	568.0	634.5	725.0	750.1	741.1
FSLIC-insured.....	141.7	278.8	501.2	513.8	554.6	617.8	705.2	740.5	732.5
State insured and non-insured.....	5.0	7.0	9.8	11.3	13.4	16.6	19.9	9.6	8.6
<b>Savings banks</b> .....	<b>72.1</b>	<b>110.6</b>	<b>162.5</b>	<b>163.8</b>	<b>165.2</b>	<b>229.3</b>	<b>263.5</b>	<b>308.2</b>	(NA)
FSLIC-insured.....	(X)	(X)	1.9	6.2	5.9	53.2	79.6	103.5	157.8
FDIC-insured.....	62.7	98.1	149.9	139.7	139.5	153.8	159.8	178.6	(NA)
Federally chartered.....	(X)	(X)	(X)	(X)	(X)	33.0	38.3	39.8	(NA)
State chartered.....	62.7	98.1	146.8	138.7	139.5	120.8	121.5	138.8	(NA)
State insured and non-insured.....	9.4	12.5	10.7	18.9	19.8	22.3	24.1	26.1	(NA)
FSLIC-insured institutions.....	141.7	278.8	503.2	519.9	560.5	671.0	784.7	843.9	890.3
FDIC-insured institutions.....	62.7	98.1	149.9	138.7	139.5	153.8	159.8	178.6	(NA)
State insured and non-insured.....	14.4	19.5	21.1	30.2	33.2	38.9	44.0	34.8	(NA)

NA Not available. X Not applicable.

Source: U.S. Federal Home Loan Bank Board, Washington, DC, *Savings and Home Financing Source Book*, annual, and unpublished data.

**NO. 786. SAVINGS INSTITUTIONS (FSLIC-INSURED)—SELECTED FINANCIAL ITEMS AND RATIOS OF  
CONDITION: 1970 TO 1986**

[As of Dec. 31 for assets, liabilities and net worth; calendar year for other items. Includes Puerto Rico and Guam. FSLIC = Federal Savings and Loan Insurance Corporation. Beginning 1983, includes FSLIC-insured savings and loan associations which changed to FSLIC-insured savings banks. Minus sign (-) indicates either loss or outflow]

ITEM	Unit	1970	1975	1980	1981	1982	1983	1984	1985	1986
<b>Assets</b> <sup>1</sup>	Bil. dol.	170.6	330.3	620.6	658.5	699.5	819.2	978.5	1,069.4	1,164.1
Mortgage assets	Bil. dol.	146.0	272.5	494.9	512.9	477.0	521.3	599.0	649.8	681.6
Mortgage-backed securities	Bil. dol.	(NA)	(NA)	27.3	33.8	62.8	90.9	108.2	110.7	151.9
Cash and securities	Bil. dol.	15.8	29.9	57.0	63.3	84.4	109.8	135.6	143.1	169.1
<b>Liabilities</b> <sup>1</sup>	Bil. dol.	158.7	311.1	588.0	630.6	673.8	786.2	940.6	1,022.6	1,111.2
Deposit accounts	Bil. dol.	141.7	278.9	503.2	519.9	560.5	671.0	784.7	843.9	890.3
FHLB advances	Bil. dol.	10.5	17.5	47.0	25.7	33.8	41.3	65.4	84.4	100.1
Other borrowed money	Bil. dol.	.3	3.0	17.2	27.9	25.7	33.0	37.9	72.2	96.4
<b>Net worth</b>	Bil. dol.	11.9	19.2	32.6	27.9	25.7	33.0	37.9	46.8	52.9
Net worth to total assets ratio	Ratio	7.0	5.8	5.2	4.2	3.7	4.0	3.9	4.4	4.5
<b>Operating income</b> <sup>2</sup>	Bil. dol.	10.7	23.7	56.1	65.2	71.5	80.0	100.6	110.5	111.0
Operating expenses <sup>2</sup>	Bil. dol.	1.9	3.9	7.9	9.0	10.1	12.3	15.3	19.5	23.0
Interest on savings deposits <sup>2</sup>	Bil. dol.	6.9	16.0	41.6	54.1	58.6	58.3	71.8	73.5	68.0
Interest on borrowed money <sup>2</sup>	Bil. dol.	.8	1.6	5.8	9.2	11.7	9.4	12.6	14.1	15.4
Net income before taxes <sup>2</sup>	Bil. dol.	1.2	2.1	1.2	-6.1	-5.9	2.6	1.9	6.0	4.3
Net income after taxes <sup>2</sup>	Bil. dol.	.9	1.4	.8	-4.6	-4.3	2.0	1.1	3.8	1.1
<b>Gross deposits receipts</b>	Bil. dol.	62.0	151.1	454.5	520.8	634.5	879.0	1,106.6	(NA)	(NA)
Savings withdrawals	Bil. dol.	51.2	109.1	413.5	507.4	597.3	768.8	995.4	(NA)	(NA)
Net deposit gain	Bil. dol.	10.8	42.1	41.0	13.4	37.3	110.2	111.2	54.9	48.7
Net new deposits received	Bil. dol.	5.3	29.3	10.7	-25.4	-6.4	63.2	56.9	-1.5	-3.7
<b>Mortgage loans closed</b> <sup>3</sup>	Bil. dol.	(NA)	(NA)	65.2	62.0	60.5	151.1	181.3	196.7	265.5
Purchase of 1-to-4 family homes	Bil. dol.	(NA)	(NA)	60.0	41.3	34.2	83.8	95.7	107.8	175.9
Average cost of funds	Percent	5.30	6.32	8.94	10.92	11.38	8.83	10.03	9.20	8.06
Average effective dividend rate paid	Percent	5.14	6.21	8.78	10.71	11.19	9.71	9.93	9.03	7.84
Average interest return on mortgages	Percent	6.56	7.71	9.34	9.91	10.68	11.17	11.66	11.53	10.65
Net after taxes income to average assets	Percent	.57	.47	.13	-.73	-.65	.27	.13	.39	.09

NA Not available. <sup>1</sup> Includes other items, not shown separately. <sup>2</sup> Source: United States League of Savings Institutions, Washington, DC, *Savings Institutions Sourcebook*, annual. <sup>3</sup> Reported on a gross basis including refinancing and combination construction-purchase loan.

Source: Except as noted, U.S. Federal Home Loan Bank Board, *Savings and Home Financing Source Book*, annual.

**NO. 787. FEDERAL AND STATE-CHARTERED CREDIT UNIONS—SUMMARY: 1970 TO 1986**

[As of December 31. Federal data include District of Columbia, Puerto Rico, Canal Zone, Guam, and Virgin Islands. Beginning 1983, State data cover only federally insured State-chartered credit unions. Beginning 1981, data exclude corporate central credit unions which have mainly other credit unions as members. See also *Historical Statistics, Colonial Times to 1970*, series X 864-878]

YEAR	CREDIT UNIONS REPORTING <sup>1</sup>		MEMBERS (1,000)		ASSETS (mil. dol.)		LOANS OUTSTANDING (mil. dol.)		SAVINGS (mil. dol.)	
	Federal	State	Federal	State	Federal	State	Federal	State	Federal	State
1970	12,977	10,679	11,966	10,853	8,861	9,089	6,969	7,137	7,629	7,857
1975	12,737	9,871	17,066	14,196	20,209	17,804	14,869	13,300	17,530	15,522
1980	12,440	9,025	24,519	19,235	40,092	33,143	26,350	22,833	36,263	29,480
1981	11,951	8,746	25,449	19,620	39,181	32,596	27,239	23,156	35,248	28,971
1982	11,426	8,464	26,105	20,393	45,484	36,886	28,192	23,454	41,352	33,236
1983	10,962	4,915	26,798	14,278	54,482	27,479	33,201	17,215	49,889	24,850
1984	10,548	4,645	28,170	15,205	63,857	29,188	42,132	19,951	57,927	26,327
1985	10,125	4,920	29,576	15,689	78,205	41,525	48,241	26,168	71,616	37,917
1986	9,758	4,935	31,045	17,363	95,484	52,244	55,305	30,834	87,954	48,097

<sup>1</sup> Represents operating credit unions.

Source: National Credit Union Administration, *Annual Report of the National Credit Union Administration*, and unpublished data.

### No. 788. SAVINGS INSTITUTIONS (FSLIC-INSURED)—SELECTED FINANCIAL ITEMS, STATES AND OTHER AREAS: 1986

[In millions of dollars, except number of institutions. As of December 31. Covers savings and loan associations and savings banks. For composition of regions, see fig. 1, inside front cover]

REGION, DIVISION, AND STATE	Number of institutions	Total assets	Mortgage loans outstanding <sup>1</sup>	Deposits	DIVISION AND STATE OR OTHER AREAS	Number of institutions	Total assets	Mortgage loans outstanding <sup>1</sup>	Deposits
<b>Total</b> .....	<b>3,220</b>	<b>1,163,983</b>	<b>813,782</b>	<b>890,553</b>	<b>So. Atl.—Con.</b>				
<b>U.S.</b> .....	<b>3,208</b>	<b>1,158,316</b>	<b>811,216</b>	<b>887,264</b>	MD.....	95	18,970	13,620	15,703
<b>Region:</b>					DC.....	6	4,268	3,472	2,812
Northeast.....	492	161,936	110,908	128,372	VA.....	66	22,929	16,165	18,259
Midwest.....	1,017	258,801	181,931	201,900	WV.....	18	2,112	1,430	1,583
South.....	1,281	339,852	227,716	276,277	NC.....	139	19,332	14,241	16,367
West.....	418	397,727	290,661	280,715	SC.....	49	10,399	7,236	8,367
					GA.....	67	16,168	11,796	13,220
					FL.....	149	82,952	54,465	64,127
<b>N. Eng.</b> .....	<b>98</b>	<b>25,324</b>	<b>17,849</b>	<b>18,369</b>	<b>E. So. Cent.</b> .....	<b>213</b>	<b>31,205</b>	<b>21,150</b>	<b>26,172</b>
ME.....	15	1,218	773	864	KY.....	67	7,201	5,126	6,287
NH.....	12	1,803	1,253	1,454	TN.....	64	10,625	7,120	8,942
VT.....	4	428	307	319	AL.....	37	6,566	6,086	6,767
MA.....	33	7,030	4,891	5,387	MS.....	45	4,813	2,808	4,176
RI.....	3	3,592	1,993	2,571	<b>W. So. Cent.</b> .....	<b>475</b>	<b>131,164</b>	<b>83,905</b>	<b>109,959</b>
CT.....	31	11,253	8,532	7,774	AR.....	39	8,248	4,844	7,234
<b>Mid Atl.</b> .....	<b>394</b>	<b>136,612</b>	<b>93,059</b>	<b>110,003</b>	LA.....	102	15,544	10,456	12,904
NY.....	85	48,311	30,935	38,728	OK.....	53	10,094	6,912	8,610
NJ.....	139	50,191	38,080	39,878	TX.....	281	97,278	61,693	80,347
PA.....	169	36,110	26,044	31,397	<b>MT.</b> .....	<b>129</b>	<b>57,426</b>	<b>38,002</b>	<b>41,076</b>
<b>E. No. Cent.</b> .....	<b>744</b>	<b>180,443</b>	<b>126,012</b>	<b>143,942</b>	MT.....	11	1,207	946	1,023
OH.....	232	51,743	36,075	43,015	ID.....	9	1,532	872	1,184
IN.....	115	12,745	9,094	11,161	WY.....	11	1,295	817	1,148
IL.....	267	65,335	44,953	54,991	CO.....	38	15,907	11,896	11,406
MI.....	51	34,814	24,865	21,064	NM.....	25	5,874	3,493	4,506
WI.....	79	15,808	11,225	13,711	NZ.....	14	21,511	13,760	14,617
					AZ.....	14	5,938	4,045	4,399
					UT.....	7	4,162	2,273	2,793
<b>W. No. Cent.</b> .....	<b>273</b>	<b>78,358</b>	<b>55,919</b>	<b>57,958</b>	<b>Pac.</b> .....	<b>289</b>	<b>340,301</b>	<b>252,659</b>	<b>239,639</b>
MN.....	37	16,069	9,822	10,596	WA.....	43	17,118	12,904	11,513
IA.....	52	9,133	6,649	7,803	OR.....	20	9,659	6,482	6,875
MO.....	85	21,889	16,137	17,740	CA.....	216	309,304	230,257	218,133
ND.....	6	3,930	2,626	2,486	AK.....	4	551	397	397
SD.....	12	1,388	811	1,273	HI.....	6	3,669	2,619	2,719
NE.....	23	9,092	6,623	6,029	<b>PR.</b> .....	<b>10</b>	<b>5,580</b>	<b>2,507</b>	<b>3,231</b>
KS.....	58	16,863	13,251	12,031	<b>GU.</b> .....	<b>2</b>	<b>87</b>	<b>59</b>	<b>58</b>
<b>So. Atl.</b> .....	<b>593</b>	<b>177,483</b>	<b>122,661</b>	<b>141,010</b>					
DE.....	4	353	236	292					

<sup>1</sup> Includes mortgage-backed securities and reflects deductions from asset accounts.

Source: U.S. Federal Home Loan Bank Board, *Savings and Home Financing Source Book*, annual.

### No. 789. FINANCE COMPANIES—ASSETS AND LIABILITIES: 1975 TO 1985

[In millions of dollars, except number of companies. As of June 30. Finance companies include Morris Plan companies and companies whose largest portion of assets is in one or more of the following kinds of receivables—sales finance receivables, personal cash loans to individuals and families, short and intermediate-term business receivables, and junior liens on real estate. For 1985 based on a stratified random sample of 317 companies]

ITEM	1975	1980	1985	ITEM	1975	1980	1985
Number of companies.....	3,376	2,775	1,738	<b>Assets—Con.</b>			
<b>Total assets, net</b> .....	<b>88,716</b>	<b>175,025</b>	<b>290,707</b>	Less: Reserves for unearned income.....	7,684	21,251	35,757
Total receivables, gross.....	85,994	183,341	304,286	Less: Reserves for losses.....	1,623	2,981	4,741
Consumer receivables.....	40,814	77,260	117,647	Total receivables, net.....	76,687	159,109	263,788
Retail passenger car paper.....	9,938	27,118	59,130	Other assets.....	12,029	15,917	26,919
Mobile homes.....	3,481	4,832	9,281	<b>Total liabilities, capital, and surplus</b> .....	<b>88,716</b>	<b>175,025</b>	<b>290,707</b>
Retail consumer goods.....	12,647	22,702	30,793	Loans and notes payable to banks.....	8,617	15,458	17,296
Personal cash loans.....	14,769	22,609	18,502	Commercial paper.....	25,905	52,328	90,432
Business receivables.....	39,286	86,067	147,330	Other short-term paper.....	7,408	10,827	(NA)
Wholesale paper.....	10,945	21,741	32,517	Other long-term paper.....	29,013	52,898	(NA)
Retail paper.....	11,067	26,318	40,314	Debt due to parent.....	(NA)	(NA)	14,440
Lease paper.....	8,065	23,261	51,484	Debt not elsewhere classified.....	(NA)	(NA)	92,483
Other business credit.....	9,208	14,747	23,015	Other liabilities.....	3,823	18,363	38,339
Real estate loans.....	1,946	11,831	25,876	Capital, surplus, undivided profits.....	13,951	25,350	37,717
Other receivables.....	3,948	8,183	13,433				

NA Not available.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, March 1976 and May 1981 issues, and unpublished data.

**NO. 790. HOLDINGS OF CONSTRUCTION, LONG-TERM MORTGAGE, AND LAND LOANS, BY TYPE OF LOAN, 1970 TO 1986, AND BY LENDER, 1986**

(In billions of dollars. As of end of year)

TYPE OF LOAN	1970	1975	1980	1983	1984	1985	Total <sup>1</sup>	1986					
								Lender					
								Savings and loan assn.	Commer- cial banks	Mutual sav- ings banks	Life insur- ance compa- nies	Federal credit agen- cies	Mort- gage pools
<b>Mortgage credits, total</b> .....	<b>422</b>	<b>731</b>	<b>1,318</b>	<b>1,612</b>	<b>1,887</b>	<b>2,059</b>	<b>2,373</b>	<b>667</b>	<b>498</b>	<b>96</b>	<b>190</b>	<b>175</b>	<b>553</b>
Construction loans...	18	41	63	110	146	152	173	41	107	5	1	1	-
1-4 unit family homes.....	5	13	26	33	39	34	36	13	19	1	(z)	-	-
Multifamily residential.....	6	12	14	23	26	28	37	10	13	1	(z)	1	-
Nonresidential.....	7	17	22	54	81	90	100	17	74	2	1	-	-
Farm properties.....	(z)	-	-	-	-	-	-	-	-	-	-	-	-
Long-term mortgage loans.....	400	679	1,242	1,484	1,711	1,872	2,160	606	374	90	189	174	553
1-4 unit family homes.....	267	435	857	1,020	1,183	1,294	1,507	458	212	65	13	108	533
FHA insured.....	62	68	105	145	155	176	221	8	7	5	2	11	166
VA guaranteed.....	37	57	91	114	120	127	135	11	4	6	1	6	99
Conventional.....	168	310	661	760	908	991	1,151	439	201	54	9	91	267
Multifamily residential.....	46	82	114	124	146	161	180	68	15	10	20	25	11
Nonresidential.....	66	128	205	258	299	338	393	78	134	15	145	6	(z)
Farm properties.....	20	34	66	83	84	79	70	1	19	-	11	35	9
Land loans.....	4	11	13	18	29	36	40	20	17	(z)	1	-	-

- Represents zero. Z Less than \$500 million. <sup>1</sup> Includes other lenders not shown separately.

Source: U.S. Dept. of Housing and Urban Development, *The Supply of Mortgage Credit, 1970-1979*; and monthly and quarterly press releases based on Survey of Mortgage Lending Activity.

**NO. 791. MORTGAGE ACTIVITY OF BANKS, INSURANCE COMPANIES, AND SAVINGS AND LOAN ASSOCIATIONS: 1970 TO 1986**

(In billions of dollars. Loans outstanding are as of end of year. Bank and savings and loan data include Puerto Rico. See also *Historical Statistics, Colonial Times to 1970*, series N 266-267, X 836-839, and X 911)

ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986
<b>Commercial banks:</b>											
Loans outstanding <sup>1</sup> .....	73.3	136.2	212.7	243.8	262.3	282.7	299.0	328.0	374.8	425.3	497.9
Nonfarm residential.....	45.6	82.9	135.3	158.1	170.2	181.7	185.5	196.2	212.9	229.1	259.7
FHA-insured.....	7.9	6.3	5.2	4.8	4.4	4.5	4.6	5.6	5.8	5.7	7.0
VA-guaranteed.....	2.6	3.1	2.6	2.7	2.4	2.4	2.7	3.1	3.0	3.3	4.1
Conventional.....	35.1	73.5	128.3	150.6	163.3	174.7	178.2	187.5	204.1	220.1	248.6
Other nonfarm.....	23.3	46.9	68.0	77.1	83.5	92.7	105.1	122.4	151.3	184.8	225.4
Farm.....	4.4	6.4	8.5	8.6	8.5	8.3	8.4	9.3	10.5	11.4	12.8
<b>Mutual savings banks:</b>											
Loans acquired <sup>2</sup> .....	6.1	8.9	15.5	14.0	8.2	5.6	7.0	17.3	21.3	11.0	31.1
Loans outstanding <sup>3</sup> .....	57.9	77.2	94.4	99.7	100.1	99.3	97.1	99.5	106.4	81.8	95.8
Nonfarm residential.....	49.9	63.8	76.5	83.7	83.9	83.4	81.8	83.8	88.7	67.6	78.0
FHA-insured.....	16.1	14.4	13.8	13.8	13.2	12.5	11.7	10.7	9.5	7.0	6.1
VA-guaranteed.....	12.0	12.4	11.9	11.4	10.8	10.3	8.7	8.8	7.9	6.9	5.8
Conventional.....	21.8	37.0	52.9	58.5	59.9	60.6	60.2	64.3	71.4	53.7	68.1
Other nonfarm.....	7.9	13.3	15.9	16.0	16.1	15.8	15.5	15.7	17.7	14.2	17.8
<b>Life insurance companies:</b>											
Loans acquired <sup>2</sup> .....	6.6	8.8	16.9	19.6	18.3	13.0	10.0	18.8	19.2	31.7	40.6
Nonfarm.....	6.3	7.7	14.2	16.8	16.5	11.8	9.3	17.6	18.2	30.6	39.4
Farm.....	0.3	1.1	2.7	2.8	1.8	1.2	0.7	1.2	1.0	1.1	1.2
Loans outstanding.....	74.4	89.2	102.0	115.1	127.9	135.6	138.5	148.4	154.5	187.9	190.4
Nonfarm.....	68.7	82.4	92.4	103.0	115.0	122.5	125.7	135.7	144.1	156.1	178.4
FHA-insured.....	11.4	7.9	6.1	5.8	5.5	5.1	4.8	4.4	4.1	3.2	2.7
VA-guaranteed.....	5.4	3.9	3.2	3.0	2.8	2.6	2.5	2.3	2.0	1.5	1.2
Conventional.....	51.9	70.6	83.1	94.2	106.7	114.8	118.4	129.0	136.0	151.4	175.5
Farm.....	5.6	6.8	10.5	12.2	12.8	13.1	12.8	12.7	12.4	11.8	11.0
<b>Savings and loan associations:</b>											
Loans acquired <sup>2,4</sup> .....	22.0	58.3	112.8	104.6	81.7	58.5	67.2	148.9	194.2	210.6	288.6
Loans outstanding <sup>5</sup> .....	150.3	278.6	432.9	475.8	502.8	517.9	492.2	512.9	641.4	658.2	667.0
FHA-insured.....	10.2	16.5	13.2	13.0	12.8	12.0	12.1	12.8	12.3	11.1	8.8
VA-guaranteed.....	8.5	14.0	15.8	15.6	15.0	14.2	14.0	15.5	15.0	13.7	11.1
Conventional.....	131.7	248.0	403.9	447.2	475.0	491.7	466.1	484.6	614.1	633.4	647.1

<sup>1</sup> Includes loans held by nondeposit trust companies; excludes holdings of trust departments of commercial banks.

<sup>2</sup> Mortgage loans on all types of property acquired either by origination or purchase. Long term loans only, excluding construction and land loans. <sup>3</sup> Includes a small amount of farm loans not shown separately. <sup>4</sup> Includes Guam. <sup>5</sup> Includes shares pledged against mortgage loans, junior liens and real estate sold on contract.

Source: U.S. Dept. of Housing and Urban Development, *The Supply of Mortgage Credit, 1970-1979*; and monthly and quarterly press releases based on the Survey of Mortgage Lending Activity.

## NO. 792. PURCHASES AND SALES OF MORTGAGE LOANS, BY LENDER: 1970 TO 1986

[In millions of dollars. Covers all types of property]

YEAR	Total	Savings associations <sup>1</sup>	Savings banks	Commercial banks	Mortgage companies	Federal credit agencies	Mortgage pools	Other
<b>Purchases:</b>								
1970.....	16,406	3,694	1,809	818	60	5,687	2,726	1,812
1975.....	38,604	8,471	1,751	431	820	12,526	12,829	1,776
1980.....	78,144	13,189	1,212	4,902	3,445	16,333	29,355	9,708
1982.....	118,621	23,724	1,531	3,270	4,953	20,021	59,329	5,793
1983.....	189,856	44,966	2,748	5,107	13,174	26,923	88,122	8,816
1984.....	190,176	64,623	3,175	8,133	11,205	26,785	68,218	8,037
1985.....	257,674	64,992	2,934	11,953	20,944	32,953	114,294	9,504
1986.....	471,284	71,255	3,593	32,136	55,230	39,530	260,435	8,105
<b>Sales:</b>								
1970.....	18,933	996	283	1,965	12,509	2,587	331	262
1975.....	35,290	5,234	269	3,886	16,324	8,694	871	512
1980.....	77,129	16,140	782	8,403	36,987	10,463	4,059	295
1982.....	113,288	54,446	2,218	8,298	30,893	12,697	4,321	415
1983.....	163,410	54,194	3,211	15,419	70,362	13,674	5,410	1,140
1984.....	158,708	64,097	3,374	13,610	56,571	12,244	6,044	2,768
1985.....	224,262	103,217	6,001	18,173	78,009	7,960	5,535	4,367
1986.....	394,093	164,585	15,482	31,581	162,800	15,943	1,422	2,280

<sup>1</sup> Includes Federal savings banks insured by the Federal Savings and Loan Insurance Corporation.Source: United States League of Savings Institutions, Washington, DC, *Savings Institutions Sourcebook*, annual. Data from U.S. Department of Housing and Urban Development.

## NO. 793. MORTGAGE DEBT OUTSTANDING: 1970 TO 1986

[In billions of dollars. As of Dec. 31. Includes Puerto Rico and Guam. See also *Historical Statistics, Colonial Times to 1970*, series N 273 and N 276]

TYPE OF PROPERTY AND HOLDER	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986
<b>Mortgage debt, total.....</b>	<b>474</b>	<b>792</b>	<b>1,162</b>	<b>1,327</b>	<b>1,458</b>	<b>1,563</b>	<b>1,630</b>	<b>1,813</b>	<b>2,034</b>	<b>2,267</b>	<b>2,564</b>
Residential nonfarm.....	358	583	879	1,005	1,106	1,180	1,219	1,350	1,503	1,681	1,912
1- to 4-family homes.....	297	482	754	871	964	1,038	1,074	1,189	1,318	1,467	1,686
Savings and loan associations.....	125	224	356	394	420	433	393	388	422	432	404
Commercial banks.....	42	77	129	150	160	170	174	183	196	213	236
Mutual savings banks.....	42	50	63	66	68	68	65	94	107	122	155
Life insurance companies.....	27	18	14	16	18	17	17	15	14	12	13
Federal agencies.....	22	38	44	53	61	68	78	87	98	110	127
Individuals and others.....	40	76	147	191	237	281	347	422	481	577	732
5 or more units.....	60	101	125	135	142	142	146	161	185	214	247
Commercial.....	86	159	212	236	256	278	301	350	418	481	554
Farm.....	30	50	72	86	96	108	110	113	112	106	98

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

## NO. 794. MORTGAGE DELINQUENCY AND FORECLOSURE RATES AND PRIVATE AND GOVERNMENT MORTGAGE INSURANCE: 1970 TO 1986

[In percent, except as indicated. Covers one- to four-family residential nonfarm homes]

YEAR	DELINQUENCY RATES <sup>1</sup>				FORECLOSURE RATES <sup>2</sup>				Claims paid by private mortgage insurers <sup>3</sup> (mil. dol.)	PRIVATE AND GOVERNMENT MORTGAGE INSURANCE OUTSTANDING <sup>4</sup>		
	Total	Conventional loans	VA loans	FHA loans	Total	Conventional loans	VA loans	FHA loans		Private (bil. dol.)	FHA/VA (bil. dol.)	Insurance as a percent of home mortgage debt
1970.....	3.13	1.74	3.03	3.65	.33	.08	.50	.40	(NA)	7.3	97.3	35.2
1975.....	4.37	2.71	4.17	5.45	.38	.16	.36	.46	(NA)	40.0	127.7	34.8
1980.....	4.97	3.09	5.33	6.56	.38	.17	.46	.53	58.7	105.3	195.2	31.2
1982.....	5.63	3.71	5.95	7.06	.67	.39	.76	.88	209.9	124.2	217.9	31.8
1983.....	5.59	3.89	6.09	7.07	.67	.46	.76	.84	356.8	148.0	248.8	33.4
1984.....	5.66	3.85	6.38	7.28	.73	.47	.82	.98	472.1	192.0	265.9	34.4
1985.....	5.84	4.05	6.63	7.46	.81	.61	.88	1.01	971.2	223.7	288.8	35.0
1986.....	5.57	3.80	6.58	7.16	.98	.69	1.14	1.22	1,219.4	230.3	(NA)	(NA)

NA Not available. <sup>1</sup> Number of loans delinquent 30 days or more as percentage of mortgage loans serviced in survey. Annual average quarterly figures, seasonally adjusted. <sup>2</sup> Percentage of loans in the foreclosure process at yearend, not seasonally adjusted. <sup>3</sup> Source: Mortgage Insurance Companies of America, Washington, DC, unpublished data. <sup>4</sup> Source: United States League of Savings Institutions, Washington, DC, *Savings Institutions Sourcebook*, annual. <sup>5</sup> Preliminary.

Source: Except as noted, Mortgage Bankers Association of America, Washington, DC, *National Delinquency Survey*, quarterly.

**NO. 795. CONSUMER CREDIT OUTSTANDING: 1970 TO 1986**

[In billions of dollars, except percent. Estimated amounts of credit outstanding as of end of year. Seasonally adjusted. See also *Historical Statistics, Colonial Times to 1970, series X 551-560*]

TYPE OF CREDIT	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
<b>Credit outstanding</b> .....	<b>139.4</b>	<b>217.4</b>	<b>242.0</b>	<b>278.9</b>	<b>325.0</b>	<b>366.4</b>	<b>369.1</b>	<b>390.1</b>	<b>409.5</b>	<b>468.5</b>	<b>561.5</b>	<b>657.0</b>	<b>723.6</b>
Ratio to disposable personal income <sup>1</sup> (percent).....	19.0	18.3	18.7	19.4	20.0	20.4	18.4	17.8	17.7	18.5	20.6	22.6	23.6
<b>Installment</b> .....	<b>103.9</b>	<b>167.0</b>	<b>187.8</b>	<b>221.5</b>	<b>262.0</b>	<b>296.5</b>	<b>295.8</b>	<b>311.0</b>	<b>325.1</b>	<b>373.1</b>	<b>446.2</b>	<b>522.8</b>	<b>577.8</b>
Automobile paper.....	36.4	57.0	68.8	80.9	98.7	112.5	112.0	120.0	125.4	145.9	172.4	208.1	245.1
Revolving.....	5.0	14.5	18.6	36.7	45.2	53.4	54.9	60.8	66.0	78.4	99.6	122.0	135.0
Mobile home paper.....	2.4	15.4	15.7	16.4	16.8	18.2	18.3	19.3	21.7	23.0	24.7	25.5	25.7
All other loans.....	60.2	80.2	88.6	87.5	101.1	112.4	110.7	111.3	112.0	125.9	149.5	172.2	172.1
Commercial banks.....	48.6	83.0	93.6	112.1	135.6	152.7	145.6	146.0	149.1	169.3	209.2	242.1	261.6
Finance companies.....	27.2	32.7	34.4	38.3	45.8	57.0	61.9	69.7	75.0	83.0	90.0	113.1	136.5
Credit unions.....	12.9	25.5	30.9	37.3	44.0	46.1	43.7	45.6	46.9	53.1	65.6	72.1	77.9
Retailers <sup>2</sup> .....	12.9	16.7	18.3	21.5	23.7	25.6	26.1	28.5	29.4	34.2	37.2	38.9	40.6
Other <sup>3</sup> .....	2.3	9.2	10.5	12.2	13.0	15.0	18.5	21.1	24.8	33.5	44.7	56.7	61.2
<b>Noninstallment</b> .....	<b>35.5</b>	<b>50.4</b>	<b>54.2</b>	<b>57.4</b>	<b>63.0</b>	<b>70.0</b>	<b>73.3</b>	<b>79.1</b>	<b>84.3</b>	<b>95.5</b>	<b>115.3</b>	<b>134.2</b>	<b>145.5</b>
Single-payment loans.....	19.2	27.1	28.5	32.4	35.4	39.4	41.8	43.5	46.7	52.2	61.7	70.1	78.8
Charge accounts.....	8.7	11.1	12.1	10.3	11.2	11.9	12.2	13.3	13.3	14.8	18.3	21.5	21.6
Service credit.....	7.5	12.2	13.5	14.8	16.7	18.7	19.3	22.3	24.3	28.5	35.3	42.6	47.1
Delinquency rate, bank installment loans <sup>4</sup> .....	2.14	2.77	2.57	2.62	2.71	2.93	2.82	2.61	2.39	1.94	2.09	2.32	2.26

<sup>1</sup> Based on fourth quarter seasonally adjusted disposable personal income at annual rates as published by the U.S. Bureau of Economic Analysis in sources listed in table 678. <sup>2</sup> Excludes 30-day charge credit held by travel and entertainment companies. <sup>3</sup> Comprises savings institutions and gasoline companies. <sup>4</sup> Ratio of seven types of closed-end installment loans (excluding revolving credit and bank cards) delinquent 30 days or more as a percentage of total installment loans outstanding; ratio based on number of loans. Source: American Bankers Association, Washington, DC, *Delinquency Rates on Bank Installment Loans, quarterly*.

**NO. 796. INSTALLMENT CREDIT—FINANCE RATES ON SELECTED TYPES OF CREDIT FOR COMMERCIAL BANKS AND FINANCE COMPANIES: 1975 TO 1986**

[Percent per year. Annual averages. Commercial bank rates are "most common" rates for direct loans with specified maturities; finance company rates are weighted averages for purchased contracts]

TYPE	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
<b>Commercial banks:</b>												
New automobiles (48 months) <sup>1</sup> .....	11.36	11.07	10.92	11.02	12.02	14.30	16.54	16.83	13.92	13.71	12.91	11.39
Mobile homes (120 months) <sup>1</sup> .....	11.82	11.75	11.84	12.09	12.77	14.99	17.45	18.05	15.91	15.58	14.96	13.99
Other consumer goods (24 months).....	13.08	13.02	12.97	13.19	13.85	15.47	16.09	16.65	16.68	16.47	15.94	14.82
Credit-card plans.....	17.16	17.05	16.89	17.03	17.03	17.31	17.78	18.51	18.78	18.77	18.69	18.26
<b>Finance companies:</b>												
New automobiles.....	13.12	13.17	13.14	13.15	13.51	14.82	16.17	16.15	12.58	14.62	11.98	9.44
Used automobiles.....	17.83	17.83	17.62	17.67	17.98	19.10	20.00	20.75	18.74	17.85	17.59	15.95

<sup>1</sup> For 1975-1982, maturities were 36 months for new car loans and 84 months for mobile home loans. Source of tables 795 and 796: Except as noted, Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly; *Annual Statistical Digest*, and unpublished data.

**NO. 797. MAIN CHECKING ACCOUNT FEATURES, ELECTRONIC FUND TRANSFERS, AND AUTOMATED TELLER MACHINES (ATM): 1986**

[Percent of all checking accounts, except as indicated. See headnote, table 798]

ITEM	Per-cent	ITEM	Per-cent
<b>Checking accounts:</b>		Service charge: <sup>2</sup>	
Location of checking account—		Dependent only on account balance.....	30
Commercial bank.....	67	Dependent only on number of checks.....	31
Savings and loan.....	23	Dependent on both checks and account balance.....	24
Credit union or brokerage house.....	11	Flat or dependent on other factors.....	16
Interest and service charge payments—		Overdraft protection.....	43
Account receives interest only.....	27	<b>Electronic fund transfers:</b>	
Service charges only.....	35	Percent of families using—	
Neither interest nor service charges.....	26	Direct deposit.....	32
Both interest and service charges.....	12	Automatic payment.....	28
Balance in account kept higher to avoid fees.....	49	<b>Automated teller machines:</b>	
Interest rate dependent on balance <sup>1</sup> .....	74	Percent of families owning ATM access card <sup>3</sup> .....	46
		Percent of owners using ATM to withdraw cash.....	69
		Median number of ATM cash withdrawals in month <sup>4</sup> .....	4

<sup>1</sup> For all accounts paying interest. <sup>2</sup> For all accounts paying service charges. <sup>3</sup> For families owning at least one transaction account. <sup>4</sup> For families who used an ATM to withdraw cash during the month. Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, March 1987.

NO. 798. MONTHLY USE OF BANKING ACCOUNTS, CREDIT CARDS, AND CASH—SUMMARY: 1984 AND 1986

[In percent, except as indicated. Families include one-person units; for definition of family, see text, section 1. Based on sample surveys of 1,885 families in 1984 and 658 families in 1986 residing in the United States. Data are subject to sampling variability, see source. For definition of median, see Guide to Tabular Presentation]

ITEM	1984	1986	ITEM	1984	1986
Percent of families paying with—					
Cash, checks and credit cards <sup>1</sup> .....	67	66			
Cash and checks <sup>1</sup> .....	20	19	Percent of families using money orders.....	15	14
Cash and money orders.....	7	8	Avg. size of money order <sup>4, 6</sup> .....	\$147	\$153
Cash only.....	8	7			
Percent of aggregate household expenditures paid with—					
Checking.....	52	48	SAVINGS AND MONEY MARKET ACCOUNTS		
Savings/money market accts. <sup>2</sup> .....	10	8	Percent of families owning these accounts.....	69	59
Credit cards.....	7	8	Median balance <sup>3, 4</sup> .....	\$3,107	\$2,500
Money orders.....	1	2	Median number of withdrawals <sup>5</sup> .....	1	2
Cash.....	30	34	Median size of withdrawals <sup>4, 5</sup> .....	\$401	\$138
MAIN CHECKING ACCOUNTS			CREDIT CARDS		
Percent of families owning these accounts.....	87	85	Percent of families—		
Median account balance <sup>3, 4</sup> .....	\$580	\$650	Owning credit cards.....	71	71
Median number of checks <sup>5</sup> .....	14	14	Using credit cards <sup>7</sup> .....	76	82
Median size of check <sup>4, 5</sup> .....	\$78	\$85	Revolving credit card accts. <sup>8</sup> .....	(NA)	49
			Median number of—		
OTHER CHECKING ACCOUNTS			Cards per family <sup>7</sup> .....	4	5
Percent of families owning these accounts.....	20	22	Transactions per family <sup>9</sup> .....	4	5
Median account balance <sup>3, 4</sup> .....	\$695	\$814	Median amount—		
Median number of checks <sup>5</sup> .....	6	7	Per transaction <sup>4, 9</sup> .....	\$33	\$35
Median size of check <sup>4, 5</sup> .....	\$130	\$86	Charged per family <sup>4, 9</sup> .....	\$165	\$150

NA Not available. <sup>1</sup> Checks include personal checks, bank checks, automatic payments, and electronic payments. <sup>2</sup> Money market accounts cover money market deposit accounts and money market mutual funds. <sup>3</sup> For account owners. <sup>4</sup> In constant (1986) dollars. <sup>5</sup> For families using the account. Withdrawals are net of transfers, cash withdrawals, and investments. <sup>6</sup> For families using money orders. <sup>7</sup> For credit card owners. <sup>8</sup> For families who own bank or store credit cards. <sup>9</sup> For families using credit cards during the month.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, March 1987.

NO. 799. HOUSEHOLDS OWNING INTEREST-EARNING ASSETS, BY SELECTED CHARACTERISTIC: 1984

[Excludes persons in group quarters. Based on the Survey of Income and Program Participation; see text, section 14]

CHARACTERISTIC OF HOUSEHOLDER	Number of households (1,000)	PERCENT OWNING INTEREST-EARNING FINANCIAL ASSETS										
		Total <sup>1</sup>	Held at financial institutions					Other interest-earning assets				
			Total <sup>1</sup>	Pass-book sav- ings ac- counts	Money mar- ket de- posit ac- counts	Certifi- cates of de- posit	Inter- est earn- ing check- ing ac- count	Total <sup>1</sup>	Money mar- ket funds	U.S. Govern- ment securities	Muni- cipal and cor- porate bonds	Other as- sets
<b>Total<sup>2</sup>.....</b>	<b>88,790</b>	<b>72.4</b>	<b>71.8</b>	<b>62.9</b>	<b>15.7</b>	<b>19.1</b>	<b>24.9</b>	<b>8.5</b>	<b>3.8</b>	<b>1.4</b>	<b>2.6</b>	<b>2.8</b>
<b>Age:</b>												
Under 35 years old.....	25,730	65.1	64.5	58.3	7.8	7.1	20.9	4.8	2.1	.3	.8	2.1
35-44 years old.....	17,393	73.3	72.4	66.4	14.0	12.7	23.0	7.9	3.9	.8	1.9	2.9
45-54 years old.....	12,596	73.4	72.9	66.1	15.9	18.5	25.0	9.1	4.2	1.3	2.5	3.0
55-64 years old.....	12,920	76.7	76.0	65.0	22.3	28.2	28.1	11.5	5.4	2.0	4.4	3.4
65 years old and over.....	18,151	78.2	77.5	62.5	23.9	36.0	30.0	11.6	4.7	3.1	4.7	3.0
White.....	75,343	78.0	75.4	65.7	17.4	21.2	27.0	9.4	4.2	1.6	2.9	3.0
Black.....	9,509	44.4	43.8	41.6	2.6	4.2	7.2	2.1	.9	.1	.3	1.0
Hispanic <sup>3</sup> .....	4,182	51.1	50.8	46.9	5.0	6.3	11.9	2.0	1.1	.1	.1	.8
<b>Education:</b>												
Less than 12 years.....	24,736	58.0	57.6	50.1	9.7	16.9	14.9	3.6	1.2	.6	.7	1.6
High school, 4 years or more.....	27,454	71.5	70.9	63.0	14.0	18.6	22.0	6.2	2.2	1.0	1.8	2.3
College:												
1-3 years.....	17,171	78.0	77.3	68.5	14.7	18.1	27.4	8.7	3.8	1.8	2.7	2.7
4 years or more.....	17,430	88.9	87.7	75.5	28.2	23.8	41.1	18.7	9.9	2.8	6.7	5.3
<b>Household net worth:</b>												
Negative or zero.....	9,529	30.6	30.4	26.9	1.8	1.1	9.2	.8	.4	—	—	.3
\$1-\$4,999.....	13,268	51.8	51.2	47.6	1.8	2.7	11.0	1.4	.2	—	—	1.2
\$5,000-\$9,999.....	5,564	67.7	66.9	62.1	5.6	7.7	18.2	3.2	1.2	.2	.4	1.5
\$10,000-\$24,999.....	10,738	73.2	72.8	63.9	8.8	10.7	20.5	4.7	1.5	.4	.7	2.5
\$25,000-\$49,999.....	12,556	77.4	76.5	68.3	10.8	15.9	21.3	6.1	2.6	.6	.8	2.8
\$50,000-\$99,999.....	16,715	86.6	86.0	75.1	20.7	28.0	30.7	9.0	4.2	1.1	1.9	2.9
\$100,000-\$249,999.....	13,286	93.1	92.3	78.3	35.8	42.1	40.9	17.8	8.1	3.7	5.9	4.8
\$250,000-\$499,999.....	3,481	94.9	93.8	74.9	46.3	43.4	50.9	31.2	15.9	6.8	14.6	7.6
\$500,000 and over.....	1,654	98.1	94.2	77.6	51.1	43.6	60.9	42.1	21.0	10.3	29.1	8.3

— Represents zero. <sup>1</sup> Detail does not add to total because some households have more than one of the types of interest-earning assets specified. <sup>2</sup> Includes other races, not shown separately. <sup>3</sup> Hispanic persons may be of any race.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-70, No. 7.

No. 800. MONEY STOCK AND LIQUID ASSETS: 1970 TO 1987

(In billions of dollars, except percent. As of December, except as indicated. Seasonally adjusted averages of daily figures. See *Historical Statistics, Colonial Times to 1970, series X 410-417* for similar data)

ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987, Mar.
M1 <sup>1</sup> .....	217	291	363	391	417	443	481	527	558	627	731	740
M2 <sup>1</sup> .....	628	1,023	1,389	1,500	1,633	1,796	1,954	2,185	2,369	2,570	2,800	2,826
M3 <sup>1</sup> .....	678	1,172	1,647	1,807	1,991	2,236	2,443	2,693	2,985	3,206	3,489	3,525
L <sup>1</sup> .....	816	1,367	1,911	2,120	2,328	2,599	2,853	3,155	3,529	3,839	4,141	4,177
Currency.....	49	74	99	106	117	124	134	148	159	171	184	168
Demand deposits.....	166	214	253	261	265	235	238	242	248	272	308	299
Travelers checks.....	1	2	4	4	4	4	4	5	5	6	6	7
Other checkable deposits <sup>2</sup> .....	(z)	1	9	20	31	80	105	131	146	178	232	246
Savings deposits.....	261	389	482	424	401	344	357	306	289	304	366	396
Money market deposit accounts <sup>2</sup> .....	(z)	(z)	(z)	(z)	(z)	(z)	43	379	417	513	571	571
Small denomination time deposits <sup>2</sup> .....	151	338	521	634	729	823	852	785	886	885	854	845
Large denomination time deposits <sup>4</sup> .....	45	190	196	223	260	300	329	328	419	438	448	453
Money market mutual funds, total <sup>2</sup> .....	(z)	3	10	43	77	189	236	181	230	242	292	297
General purpose and broker/dealer <sup>2</sup> .....	(z)	3	6	33	62	151	185	138	188	177	208	212
Institution only <sup>2</sup> .....	(z)	(z)	3	10	15	38	51	43	63	65	84	85
Overnight repurchase agreements and Eurodollars <sup>2</sup> .....	1	6	20	21	28	36	39	54	56	70	77	77
Annual percent change: <sup>5</sup>												
M1.....	5.0	6.1	8.3	7.7	6.5	6.4	8.6	9.5	5.8	12.5	16.5	<sup>6</sup> 15.5
M2.....	6.5	7.9	8.0	8.0	8.9	9.9	8.9	11.8	8.4	8.5	9.0	<sup>6</sup> 8.7
M3.....	7.1	11.6	11.8	9.7	10.2	12.3	9.2	10.2	10.9	7.4	8.9	<sup>6</sup> 7.9
L.....	6.9	10.9	12.1	10.9	9.8	11.7	9.8	10.6	11.9	8.6	7.9	<sup>6</sup> 7.1

Z Less than \$500 million. <sup>1</sup> M1 is currency plus demand deposits plus travelers checks of nonbank issuers plus other checkable deposits at banks and thrift institutions; M2 is M1 plus overnight RP's and Eurodollars, balances of general purpose and broker/dealer money market mutual fund shares, money market deposits accounts, and savings and small time deposits at commercial banks and thrift institutions; M3 is M2 plus large time deposits and term RP's at commercial banks and thrift institutions, term Eurodollars, and balance of institutions—only money market mutual funds; and L is M3 plus other liquid assets such as savings bonds, short-term Treasury securities, bankers' acceptances, and commercial paper. <sup>2</sup> Not seasonally adjusted. <sup>3</sup> Issued in amounts of less than \$100,000. Includes retail repurchase agreements. Excludes individual retirement accounts and Keogh accounts at commercial banks and thrifts. <sup>4</sup> Issued in amounts of \$100,000 or more and are net of holdings of domestic banks, thrift institutions, the U.S. Government, money market mutual funds, and foreign banks and official institutions. <sup>5</sup> From previous year shown; for 1970, from 1965. For definition of annual percent change, see Guide to Tabular Presentation. <sup>6</sup> Change from March 1986-March 1987.

No. 801. BANK DEBITS AND DEPOSIT TURNOVER: 1971 TO 1986

(Debits in trillions of dollars; turnover as ratio of debits to deposits. Annual averages of monthly data)

ITEM	1971	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
<b>Debits to:</b>												
Demand deposits, all banks <sup>1</sup> .....	11.3	25.1	34.3	40.2	49.8	63.1	81.2	91.0	109.5	128.1	154.1	189.4
Major New York City banks.....	4.1	9.7	13.8	15.0	18.5	25.2	34.0	38.0	47.7	57.3	70.4	91.3
Other banks.....	7.3	15.4	20.4	25.2	31.3	37.8	47.2	53.0	61.8	70.8	83.7	98.1
ATS/NOW accounts <sup>2</sup> .....	(NA)	(NA)	(NA)	(z)	(z)	2.2	4.7	1.0	1.4	1.6	1.9	2.3
Money market deposit accounts (MMDA).....	(NA)	(NA)	.8	.8	1.2	1.6						
Savings deposits <sup>3</sup> .....	(NA)	(NA)	(NA)	.4	.6	.7	.7	.7	.7	.6	.5	.4
<b>Deposit turnover:</b>												
All banks <sup>1</sup> .....	64	105	129	139	163	203	286	325	380	439	497	512
Major New York City banks.....	171	358	502	542	644	815	1,114	1,296	1,510	1,839	2,191	2,474
Other banks.....	47	73	86	96	113	135	186	212	241	244	302	328

NA Not available. Z Less than \$50 billion. <sup>1</sup> Represents accounts of individuals, partnerships, and corporations, and of States and political subdivisions at insured commercial banks. <sup>2</sup> Accounts authorized for negotiable orders of withdrawal (NOW) and accounts authorized for automatic transfer to demand deposits (ATS). <sup>3</sup> Excludes ATS and NOW accounts, MMDA and special club accounts, such as Christmas and vacation clubs.

No. 802. FEDERAL RESERVE BANK OF NEW YORK—DISCOUNT RATES: 1976 TO 1987

(Percent per year. Rates for short-term adjustment credit. For rates applicable to other types of discount window credit, see source. See also *Historical Statistics, Colonial Times to 1970, series X 454-455*)

EFFECTIVE DATE	Rate	EFFECTIVE DATE	Rate	EFFECTIVE DATE	Rate	EFFECTIVE DATE	Rate
1976: Jan. 19.....	5½	1979: July 20.....	10	1981: May 5.....	14	1984: April 9.....	9
Nov. 22.....	5¼	Aug. 17.....	10½	Nov. 2.....	13	Nov. 21.....	8½
1977: Aug. 31.....	5¼	Sept. 19.....	11	Dec. 4.....	12	Dec. 24.....	8
Oct. 26.....	6	Oct. 8.....	12	1982: July 20.....	11½	1985: May 20.....	7½
1978: Jan. 9.....	6½	1980: 1 Feb. 15.....	13	Aug. 2.....	11	1986: March 7.....	7
May 11.....	7	May 30.....	12	Aug. 16.....	10½	April 21.....	6½
July 3.....	7¼	June 13.....	11	Aug. 27.....	10	July 11.....	8
Aug. 21.....	7¾	July 28.....	10	Oct. 12.....	9½	Aug. 21.....	5½
Sept. 22.....	8	Sept. 26.....	11	Nov. 22.....	9		
Oct. 16.....	8½	Nov. 17.....	12	Dec. 15.....	8½		
Nov. 1.....	9½	Dec. 5.....	13			In effect, June 30, 1987.....	5½

<sup>1</sup> See table 803, footnote 5.

## NO. 803. MONEY MARKET INTEREST RATES AND MORTGAGE RATES: 1970 TO 1986

[Percent per year. Annual averages of monthly data, except as indicated. See also *Historical Statistics, Colonial Times to 1970*, series X 444-453]

TYPE	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Federal funds, effective rate	7.18	5.82	5.54	7.93	11.19	13.36	16.38	12.26	9.09	10.23	8.10	6.80
Commercial paper, 3-month <sup>1 2</sup>	(NA)	6.25	5.55	7.94	10.87	12.56	15.33	11.89	8.88	10.10	7.95	6.49
Prime rate charged by banks	7.91	7.86	6.82	9.06	12.87	15.27	18.67	14.86	10.79	12.04	9.93	8.33
Eurodollar deposits, 3-month	8.52	7.03	6.03	8.78	11.96	14.00	16.79	13.12	9.57	10.75	8.27	6.70
Finance paper, 3-month <sup>2 3</sup>	7.18	6.15	5.49	7.80	10.47	11.49	14.08	11.23	8.70	9.73	7.77	6.38
Bankers acceptances, 90-day <sup>2 4</sup>	7.31	6.29	5.54	8.06	10.99	12.72	15.32	11.89	8.90	10.14	7.92	6.39
Large negotiable certificates of deposit, 3-month, secondary market	7.56	6.44	5.64	8.22	11.22	13.07	15.91	12.27	9.07	10.37	8.05	6.52
Federal Reserve discount rate <sup>5</sup>	6½-6	6-7¼	5¼-6	6-9¼	9¼-12	10-13	12-14	8½-12	8½	8-9	7½-8	5½-7½
U.S. Government securities: <sup>6</sup>												
3-month Treasury bill	6.39	5.78	5.27	7.19	10.07	11.43	14.03	10.61	8.61	9.52	7.48	5.98
6-month Treasury bill	6.51	6.09	5.53	7.58	10.06	11.37	13.80	11.07	8.73	9.76	7.65	6.03
1-year Treasury bill	6.48	6.28	5.71	7.74	9.75	10.89	13.14	11.07	8.80	9.92	7.81	6.08
Prime 1-year municipals <sup>7</sup>	4.35	3.91	2.91	4.15	5.34	6.25	7.92	7.88	5.29	6.05	5.12	4.33
Home mortgages (HUD series <sup>8</sup> ):												
FHA insured, secondary market <sup>9</sup>	9.03	9.19	8.68	9.70	10.87	13.44	16.31	15.31	13.11	13.82	12.24	9.91
Conventional, new-home <sup>10 11</sup>	8.52	9.10	8.95	9.68	11.15	13.95	16.52	15.79	13.43	13.80	12.28	10.07
Conventional, existing-home <sup>10</sup>	8.56	9.14	9.00	9.70	11.16	13.95	16.55	15.82	13.45	13.81	12.29	10.08

NA Not available. <sup>1</sup> Based on daily offering rates of dealers. <sup>2</sup> Yields are quoted on a bank-discount basis, rather than an investment yield basis (which would give a higher figure). <sup>3</sup> Placed directly; averages of daily offering rates quoted by finance companies. <sup>4</sup> Based on the most representative daily offering rates of dealers. Beginning Aug. 15, 1974, closing rates were used, and from Jan. 1, 1981, rates of top-rated banks only. <sup>5</sup> Federal Reserve Bank of New York, low and high. The discount rates for 1980 and 1981 do not include the surcharge applied to frequent borrowings by large institutions. The surcharge reached 3 percent in 1980 and 4 percent in 1981. Surcharge was eliminated in Nov. 1981. <sup>6</sup> Averages based on daily closing bid yields in secondary market, bank discount basis. <sup>7</sup> Averages based on quotations for one day each month. Source: Salomon Brothers, Inc., New York, NY, *An Analytical Record of Yields and Yield Spreads*. <sup>8</sup> HUD=Housing and Urban Development. <sup>9</sup> Averages based on quotations for 1 day each month as compiled by FHA. <sup>10</sup> Primary market. <sup>11</sup> Average contract rates on new commitments.

Source: Except as noted, Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly, and *Annual Statistical Digest*.

NO. 804. SELECTED TIME DEPOSITS AND OTHER ACCOUNTS AT INSURED COMMERCIAL BANKS—  
DEPOSITS AND INTEREST RATES: 1983 TO 1987

[Estimates based on data collected from a sample of about 550 banks]

TYPE OF DEPOSIT	AMOUNT OUTSTANDING (mil. dol.)					AVERAGE RATE PAID (percent)				
	1983, Dec.	1984, Dec.	1985, Dec.	1986, Dec.	1987, Mar.	1983, Dec.	1984, Dec.	1985, Dec.	1986, Dec.	1987, Mar.
"Super NOW" accounts <sup>1</sup>	28,769	34,686	44,545	164,247	162,976	7.30	7.01	5.99	5.00	4.89
Money market deposit accounts <sup>2</sup>	231,593	271,180	330,077	379,998	374,642	8.36	8.10	6.71	5.19	5.12
Money market certificates: <sup>3</sup>										
7-31 day	4,815	5,354	5,318	6,101	6,177	8.50	8.01	6.85	5.45	5.41
32-182 day	14,653	17,953	20,966	21,601	21,233	8.61	8.07	7.16	5.62	5.48
183 day-1 year	177,543	185,349	147,777	131,483	128,728	8.42	8.77	7.50	5.70	5.71
1-2½ year	22,720	59,429	66,131	72,227	75,257	8.56	9.11	7.77	5.93	5.99
2½ year or more	111,409	107,119	115,355	83,761	84,828	10.07	9.73	8.24	6.22	6.25
All IRA and Keogh Plan deposits	30,144	44,033	59,352	120,599	119,222	10.48	10.18	8.73	6.61	6.64
Retail repurchase agreements <sup>4</sup>	1,342	1,228	1,294	1,062	1,056	(NA)	(NA)	(NA)	(NA)	(NA)
						8.19	7.49	6.77	5.37	5.10

NA Not available. <sup>1</sup> Negotiable order of withdrawal accounts containing an agreement between depositor and depository such that some or all funds deposited are eligible to earn more than 5.25 percent. As of January 1, 1986 interest rate ceilings were removed from all NOW accounts. Beginning with the December 1986 data the "Super NOW" accounts category includes all NOW accounts, including those accounts which were subject to a 5.25 percent regulatory interest rate restriction prior to January 1, 1986. Estimates for NOW accounts beginning in December 1986 are based on reports of depositories. <sup>2</sup> Deposits with no minimum balance requirement and no required minimum maturity but institutions must reserve the right to require at least seven days' notice prior to withdrawal, no restrictions on depositor eligibility, or limitations on the amount of interest that may be paid; such accounts may allow up to six transfers per month, no more than three of which may be draft and may permit unlimited withdrawals by mail, messenger, or in person. Estimates based on reports of depositories. <sup>3</sup> All interest-bearing time certificates and open account time deposits with balances of less than \$100,000, including those held in IRAs and Keogh Plan deposits. <sup>4</sup> Retail repurchase agreements are in denominations of less than \$100,000 with maturities of less than 90 days that arise from the transfer of direct obligations of, or obligations fully-guaranteed as to principal and interest by, the U.S. Government or an agency thereof.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Statistical Release H6*, monthly.

NO. 805. BOND AND STOCK YIELDS: 1970 TO 1986

[Percent per year. Annual averages of monthly data, except as indicated. See also *Historical Statistics, Colonial Times to 1970*, series X 474-491]

TYPE	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986
U.S. Treasury, constant maturities: <sup>1 2</sup>											
3-year	7.29	7.49	8.29	9.72	11.55	14.44	12.92	10.45	11.89	9.64	7.07
5-year	7.38	7.77	8.32	9.52	11.48	14.24	13.01	10.80	12.24	10.13	7.31
10-year	7.35	7.99	8.41	8.44	11.46	13.71	13.00	11.11	12.44	10.62	7.68
20-year	6.86	8.19	8.48	9.35	11.39	13.72	12.92	11.34	12.48	10.97	7.85
U.S. Govt. long-term bonds <sup>3 9</sup>	6.58	6.98	7.89	8.74	10.81	12.87	12.23	10.84	11.99	10.75	8.14
State and local govt. bonds, Aaa <sup>4</sup>	6.12	6.42	5.52	5.92	7.86	10.42	10.86	8.80	9.61	8.60	6.95
State and local govt. bonds, Baa <sup>4</sup>	6.75	7.62	6.27	6.73	9.02	11.78	12.46	10.17	10.38	9.58	7.78
High-graded municipal bonds (Standard & Poor's) <sup>5</sup>	6.51	6.89	5.90	6.39	8.51	11.23	11.57	9.47	10.15	9.18	7.38
Municipal (Bond Buyer, 20 bonds)	6.35	7.05	6.03	6.52	8.59	11.33	11.66	9.51	10.10	9.11	7.32
Corporate Aaa seasoned <sup>4</sup>	8.04	8.83	8.73	9.63	11.94	14.17	13.79	12.04	12.71	11.37	9.02
Corporate Baa seasoned <sup>4</sup>	9.11	10.61	9.49	10.69	13.67	16.04	16.11	13.55	14.19	12.72	10.39
Corporate Aaa utility bonds <sup>6</sup>	8.72	9.17	8.90	9.92	12.88	15.65	14.71	12.25	13.40	11.67	9.09
Corporate, by years to maturity: <sup>7</sup>											
5 years	8.10	7.70	7.75	9.40	12.80	13.25	13.78	9.90	10.20	10.40	7.35
10 years	8.00	8.00	7.98	9.35	12.40	13.00	13.99	10.55	11.80	11.60	8.05
20 years	7.60	8.35	8.20	9.08	12.30	13.00	14.00	11.00	12.60	12.50	8.50
30 years	7.60	8.35	8.25	9.10	12.30	13.00	14.00	11.00	12.60	12.75	8.50
Corporate (Moody's) <sup>4</sup>	8.51	9.57	9.07	10.12	12.75	15.06	14.94	12.78	13.49	12.05	9.71
Industrials (38 bonds) <sup>8</sup>	8.26	9.25	8.90	9.85	12.35	14.58	14.54	12.25	13.21	11.80	9.96
Railroads (13 bonds) <sup>10</sup>	8.77	9.39	8.64	9.80	11.48	13.22	13.68	12.08	13.07	11.94	8.86
Public utilities (40 bonds) <sup>11</sup>	8.68	9.88	9.22	10.39	13.15	15.52	15.33	13.31	14.03	12.29	9.46
Stocks (Standard & Poor's): <sup>5</sup>											
Preferred (10 stocks) <sup>11</sup>	7.22	8.36	8.25	9.11	10.60	12.36	12.53	11.02	11.59	10.44	8.76
Common; Composite (500 stocks)	3.83	4.31	5.28	5.47	5.28	5.20	5.81	4.40	4.64	4.25	3.49
Industrials (400 stocks)	3.62	3.98	5.06	5.20	4.95	4.90	5.48	4.04	4.05	3.76	3.09

<sup>1</sup> Yields on the more actively traded issues adjusted to constant maturities by the U.S. Treasury. <sup>2</sup> Yields are based on closing bid prices quoted by at least five dealers. <sup>3</sup> Averages (to maturity or call) for all outstanding bonds neither due nor callable in less than 10 years, including several very low yielding "flower" bonds. <sup>4</sup> Source: Moody's Investors Service, New York, NY. <sup>5</sup> Source: Standard & Poor's Corp., New York, NY. <sup>6</sup> Standard & Poor's Outlook, weekly. <sup>7</sup> Based on first trading day of each month, deferred call, new issue estimate. Source: Salomon Brothers, Inc., New York, NY. <sup>8</sup> An Analytical Record of Yields and Yield Spreads. <sup>9</sup> Source: Soudter, Stevens & Clark, New York, NY, unpublished data. <sup>10</sup> The Aaa public utility average was suspended on Jan. 17, 1984 because of a lack of appropriate issues. The average corporate does not include Aaa utilities from Jan. 17 to Oct. 12. The Aaa utility average was reinstated on Oct. 12. Thirty public utility bonds were used during the period Jan. 17-Oct. 12, 1984. <sup>11</sup> Covers 40 bonds for period 1970-1983. <sup>12</sup> Covers 23 bonds for period 1970-1981, 15 bonds for 1982, and 17 bonds for 1983. <sup>13</sup> Yields based on 10 stocks, 4 yields. Issues converted to a price equivalent to \$100 par and a 7 percent annual dividend before averaging.

Source: Except as noted, Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

NO. 806. SALES OF STOCKS AND OPTIONS ON REGISTERED EXCHANGES: 1970 TO 1986

[Excludes over-the-counter trading. See also *Historical Statistics, Colonial Times to 1970*, series X 517-530]

EXCHANGE	Unit	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986
Market value of all sales, all exchanges <sup>1 2</sup>	Bil. dol.	136	173	324	522	532	657	1,023	1,004	1,260	1,794
New York	Bil. dol.	108	143	252	396	418	515	816	815	1,024	1,451
American	Bil. dol.	15	6	27	47	40	34	48	32	38	63
Midwest	Bil. dol.	5	7	12	21	25	35	60	62	79	102
Chicago	Bil. dol.	—	6	14	28	22	32	39	35	38	56
Pacific	Bil. dol.	5	5	9	13	13	21	31	31	40	55
Philadelphia	Bil. dol.	3	3	7	11	11	14	20	19	23	35
STOCKS <sup>3</sup>											
Shares sold, all exchanges <sup>2</sup>	Million	4,539	6,226	10,850	15,488	15,910	22,414	30,148	30,456	37,046	48,229
New York	Million	3,213	5,066	8,675	12,390	12,843	18,211	24,253	25,150	30,222	39,150
American	Million	879	541	1,161	1,659	1,472	1,550	2,209	1,984	2,115	2,989
Midwest	Million	149	252	362	598	735	1,144	1,662	1,843	2,274	2,784
Pacific	Million	165	199	355	435	457	910	1,070	1,006	1,352	1,750
Market value, all exchanges <sup>2</sup>	Bil. dol.	131	157	300	476	491	603	957	951	1,200	1,702
New York	Bil. dol.	103	134	251	398	416	514	815	814	1,023	1,446
American	Bil. dol.	14	6	21	35	26	20	31	21	26	43
Midwest	Bil. dol.	5	7	12	21	25	35	60	62	79	102
Pacific	Bil. dol.	5	5	8	11	11	18	27	28	37	51
OPTIONS <sup>4</sup>											
Contracts traded, all exchanges <sup>2</sup>	Million	(NA)	18	69	97	109	137	149	197	233	289
Chicago	Million	(NA)	14	35	53	58	76	82	123	149	180
American	Million	(NA)	4	19	29	35	39	39	40	49	65
Market value of contracts traded, all exchanges <sup>2</sup>	Bil. dol.	(NA)	6.4	23.2	45.8	41.7	53.7	64.2	53.0	59.1	87.9
Chicago	Bil. dol.	(NA)	6.3	13.8	27.9	22.4	32.3	39.4	34.9	38.4	55.9
American	Bil. dol.	(NA)	(NA)	6.4	12.5	13.8	14.3	15.8	10.5	11.6	19.0
Options exercised:											
Number of contracts	Million	(NA)	3	2.5	4.9	7.4	9.2	13.6	11.9	8.9	14.5
Value	Bil. dol.	(NA)	1.3	10.9	20.4	34.6	37.1	65.1	55.6	49.2	72.8

— Represents zero. NA Not available. <sup>1</sup> Includes market value of rights and warrants and, through 1975, bond sales. Excludes the value of options exercised. <sup>2</sup> Includes other registered exchanges, not shown separately. <sup>3</sup> Includes voting trust certificates, American Depository Receipts, and certificate of deposit for stocks. <sup>4</sup> Includes non-equity options as of October 1982.

Source: U.S. Securities and Exchange Commission, *SEC Monthly Statistical Review*.

## No. 807. SECURITY PRICES: 1970 TO 1986

[Annual averages of monthly figures, except as noted. See also *Historical Statistics, Colonial Times to 1970*, series X 492-498]

CLASS OR ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986
<b>Bond prices (dollars per \$100 bond):</b>										
Standard & Poor's: Municipal <sup>1</sup> .....	72.3	68.9	73.4	57.4	43.2	41.8	51.4	48.0	53.0	65.1
Dow Jones and Co., Inc.: <sup>2</sup>										
Yearly high.....	69.7	69.7	86.1	76.6	65.8	71.5	77.8	72.9	83.7	83.7
Yearly low.....	64.4	66.2	73.4	61.0	55.0	55.7	69.4	64.8	72.3	83.7
<b>Stock prices:</b>										
Standard & Poor's common index (500 stocks) (1941-43=10) <sup>3</sup> .....	83.2	86.2	103.0	118.7	128.0	119.7	160.4	160.5	186.8	236.3
Industrial.....	91.3	96.6	114.8	134.5	144.2	133.6	180.5	181.3	207.8	262.2
<b>N.Y. Stock Exchange common stock index (Dec. 31, 1965=50):</b>										
Composite.....	45.7	45.7	58.3	68.1	74.0	68.9	92.6	92.5	108.1	136.0
Yearly high <sup>4</sup> .....	52.4	51.2	63.4	81.0	79.1	82.4	99.6	98.1	121.9	145.8
Yearly low <sup>4</sup> .....	37.7	37.1	53.9	55.3	65.0	58.8	79.8	85.1	94.6	117.8
Industrial.....	48.0	50.5	64.8	78.6	85.4	78.2	107.5	108.0	123.8	155.9
Transportation.....	32.1	31.1	47.3	60.5	72.6	60.4	89.4	85.6	104.1	119.9
Utility.....	37.2	31.5	38.2	37.3	38.9	39.8	47.0	46.4	56.8	71.4
Finance.....	54.6	47.1	61.4	64.3	73.5	72.0	95.3	89.3	114.2	147.2
<b>American Stock Exchange Market Value Index (Aug. 31, 1973=50):</b>										
NASDAQ OTC composite <sup>5</sup> .....	48.3	41.8	97.8	150.6	171.8	141.3	216.5	208.0	229.1	264.4
Industrial.....	(NA)	77.6	151.1	202.3	195.9	232.4	278.6	247.4	324.9	348.8
Insurance.....	(NA)	81.0	175.2	261.4	229.3	273.6	323.7	260.7	330.2	349.3
Banks.....	(NA)	80.9	162.0	166.8	194.3	226.4	257.6	283.1	382.1	404.1
Banks.....	(NA)	72.4	108.2	118.4	143.1	156.4	203.8	229.8	349.4	412.5
<b>Dow Jones and Co., Inc., total (65 stocks) <sup>6</sup>.....</b>										
Industrial (30 stocks).....	243.9	247.3	293.5	328.2	364.6	345.4	472.2	463.1	541.6	702.5
Transportation (20 stocks).....	753.2	802.8	844.4	891.4	932.9	884.4	1,190.3	1,178.5	1,328.2	1,792.8
Public utility (15 stocks).....	152.4	163.4	237.8	307.2	398.6	359.8	544.6	513.8	645.1	785.4
Public utility (15 stocks).....	108.8	79.8	104.6	110.4	108.6	112.0	130.0	131.8	157.6	195.2
<b>Wilshire 5000 equity index <sup>7</sup> (Dec. 31, 1980=1404.596).....</b>										
Standard & Poor's:	830.3	763.8	1,028.9	1,220.7	1,343.7	1,233.7	1,691.5	1,644.6	1,923.8	2,418.8
Dividend-price ratio (percent).....	3.83	4.31	5.47	5.26	5.20	5.81	4.40	4.64	4.25	3.48
Earnings-price ratio (percent).....	6.45	9.14	13.46	12.66	11.87	11.30	8.02	10.02	8.04	6.10

NA Not available. <sup>1</sup> Derived from average yields on basis of assumed 4 percent, 20-year bond; Wednesday closing prices. <sup>2</sup> Source: Dow Jones and Co., Inc., New York, NY, Effective June 30, 1976, the Dow Jones averages of 20 income railroad bonds were discontinued. With the dropping of the rail averages, which had been part of the Dow-Jones 40-bond average, the 40-bond average became a 20-bond average consisting of 10 utility bonds and 10 industrial bonds. <sup>3</sup> Effective July 1976, the index includes 400 industrial stocks (formerly 425), 20 transportation (formerly 15 rail), 40 public utility (formerly 60), and 40 financial stocks, not previously covered. <sup>4</sup> Source: New York Stock Exchange, Inc., New York, NY, *Fact Book*, annual. <sup>5</sup> Source: National Association of Securities Dealers, Washington, DC, *Fact Book*, annual. OTC=over-the-counter. <sup>6</sup> Source: U.S. Bureau of Economic Analysis. Based on stocks listed on the New York Stock Exchange. <sup>7</sup> Represents return on the market value of all common equity securities for which daily pricing is available. For 1970-1978, annual average of end of month figures; thereafter, annual average of daily figures. Source: Wilshire Associates, Santa Monica, CA, releases. <sup>8</sup> Represents Dec. 31, 1970.

Source: Except as noted, Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

## No. 808. VOLUME OF TRADING ON NEW YORK STOCK EXCHANGE: 1970 TO 1986

[Round lot: A unit of trading or a multiple thereof. On the NYSE the unit of trading is generally 100 shares in stocks. For some inactive stocks, the unit of trading is 10 shares. Odd lot: An amount of stock less than the established 100-share unit or 10-share unit of trading]

ITEM	Unit	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986
<b>Shares traded.....</b>												
Round lots.....	Million.....	3,124	4,839	7,371	8,336	11,562	12,049	16,669	21,846	23,309	27,774	36,009
Average daily shares.....	Million.....	2,937	4,693	7,205	8,156	11,352	11,854	16,458	21,590	23,071	27,511	35,680
High day.....	Million.....	11.6	18.6	28.6	32.2	44.9	46.9	65.1	85.3	91.2	109.2	141.0
Low day.....	Million.....	21.3	35.2	66.4	81.6	84.3	92.9	149.4	129.4	236.6	181.0	244.3
By size: <sup>1</sup>												
At 100-900 shares.....	Percent.....	(NA)	42.1	30.2	27.5	24.7	21.1	16.2	14.6	11.3	10.6	10.8
At 1,000-4,900 shares.....	Percent.....	(NA)	31.4	33.9	33.7	32.2	31.0	28.5	26.7	25.1	24.1	25.7
At 5,000-9,900 shares.....	Percent.....	(NA)	8.7	10.9	11.4	11.4	12.1	12.8	12.7	13.8	13.8	13.9
At 10,000 shares over <sup>2</sup> .....	Percent.....	(NA)	17.9	25.0	27.4	31.7	35.8	42.5	46.0	49.8	51.5	49.6
Odd lots.....	Million.....	186	146	166	180	209	196	211	256	236	263	329
<b>Value of shares traded.....</b>												
Round lots.....	Bill. dol.....	102.5	131.7	205.6	244.5	382.4	398.1	495.1	775.3	773.4	980.8	1,388.8
Round lots.....	Bill. dol.....	95.3	126.7	199.9	238.2	374.9	389.2	488.4	765.3	764.7	970.5	1,374.3
Odd lots.....	Bill. dol.....	7.2	5.0	5.7	6.3	7.5	6.9	6.7	10.1	8.7	10.3	14.5
<b>Bond volume <sup>3</sup>.....</b>												
Daily average.....	Mill. dol.....	4,495	5,178	4,554	4,088	5,190	5,733	7,155	7,572	6,982	9,046	10,464
Daily average.....	Mill. dol.....	17.7	20.5	18.1	16.2	20.5	22.7	28.3	29.9	27.6	35.9	41.4

NA Not available. <sup>1</sup> Share volume of reported trades by size (percent of total) on New York Stock Exchange. <sup>2</sup> Includes bunched orders at the opening and re-opening of trading. <sup>3</sup> Par value.

Source: New York Stock Exchange, Inc., New York, NY, *Fact Book*, annual.

**No. 809. SECURITIES LISTED ON N.Y. STOCK EXCHANGE: 1970 TO 1986**

[As of December 31, except cash dividends are for calendar year]

ITEM	Unit	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986
<b>Bonds:</b>												
Number of issuers.....	Number.....	843	1,066	1,045	1,043	1,045	1,049	1,031	1,034	1,024	1,010	951
Number of issues.....	Number.....	1,729	2,632	2,895	2,939	3,057	3,110	3,233	3,800	3,751	3,856	3,611
Face value.....	Bil. dol.....	135	334	509	526	602	681	793	965	1,084	1,321	1,380
Market value.....	Bil. dol.....	113	315	465	460	508	574	766	899	1,022	1,359	1,458
Average price.....	Percent.....	83.60	91.89	91.37	87.38	84.41	84.24	96.67	93.04	94.29	100.90	105.66
<b>Stocks:</b>												
Number of companies.....	Number.....	1,351	1,557	1,581	1,565	1,570	1,565	1,526	1,550	1,543	1,541	1,575
Number of issues.....	Number.....	1,640	2,111	2,194	2,192	2,228	2,220	2,225	2,307	2,319	2,296	2,257
Shares listed.....	Billion.....	16.1	22.5	27.6	30.0	33.7	38.3	39.5	45.1	49.1	52.4	59.6
Market value.....	Bil. dol.....	636	685	823	961	1,243	1,144	1,305	1,584	1,586	1,950	2,199
Average price.....	Dollars.....	39.61	30.48	29.84	31.99	36.87	29.87	33.03	35.11	32.31	37.20	36.89
Cash dividends on common stock.....	Bil. dol.....	19.8	26.9	41.2	46.9	53.1	60.6	62.2	67.1	68.2	74.2	76.2

Source: New York Stock Exchange, Inc., New York, NY, *Fact Book*, annual.

**No. 810. NASDAQ—SECURITIES LISTED AND VOLUME OF TRADING: 1975 TO 1986**

ITEM	Unit	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986
Companies listed.....	Number.....	2,467	2,475	2,543	2,894	3,353	3,264	3,901	4,097	4,196	4,417
Issues.....	Number.....	2,579	2,582	2,670	3,050	3,687	3,564	4,467	4,723	4,784	5,189
Shares traded.....	Million.....	1,390	2,762	3,651	6,692	7,623	8,432	15,909	15,159	20,699	28,737
Average daily volume.....	Million.....	5.5	11.0	14.4	26.5	30.9	33.3	62.8	59.9	82.1	113.6
Value of shares traded.....	Bil. dol.....	21.2	36.1	44.3	68.7	71.1	84.2	188.3	153.5	233.5	378.2

Source: National Association of Securities Dealers, Washington, DC, *Fact Book*, annual.

**No. 811. STOCK OWNERSHIP—CHARACTERISTICS OF SHAREOWNERS: 1970 TO 1985**

[In thousands. Represents all publicly owned issues of common and preferred stocks including stock mutual funds. Based on national probability samples; see source for detailed explanation]

CHARACTERISTIC	1970	1975	1980	1983	1985	CHARACTERISTIC	1970	1975	1980	1983	1985
<b>Total</b> <sup>1</sup> .....	<b>30,850</b>	<b>25,270</b>	<b>30,200</b>	<b>42,360</b>	<b>47,040</b>	<b>Education:</b>					
<b>Male</b> .....	15,689	12,698	15,666	20,864	23,699	High school: <sup>2</sup>					
<b>Female</b> .....	15,161	12,508	14,534	21,496	23,341	3 years or less.....	3,566	1,621	1,746	2,356	2,513
<b>Age:</b>						4 years.....	6,590	5,737	6,788	7,869	
Under 21 years.....	2,221	1,818	2,308	2,749	2,260	College: <sup>2</sup>					
21-34 years.....	4,500	2,838	6,407	10,552	11,083	1-3 years.....	5,867	5,301	9,353	13,529	13,937
35-44 years.....	5,801	3,976	5,925	8,346	10,982	4 years or more.....	9,999	9,886	10,613	14,375	19,854
45-54 years.....	7,556	5,675	5,456	6,596	7,899	Minors <sup>3</sup> .....	2,221	1,818	2,308	2,749	2,260
55-64 years.....	6,084	5,099	5,144	6,850	8,217	<b>Income:</b> <sup>4</sup>					
65 years and over.....	4,330	5,800	4,589	7,277	6,589	Under \$10,000.....	8,168	3,416	1,742	1,480	2,151
						\$10,000-\$14,999.....	8,346	4,552	3,180	2,596	1,193
						\$15,000-\$24,999.....	7,670	8,778	6,930	6,579	7,116
						\$25,000-\$49,999.....		5,426	11,623	17,168	21,369
						\$50,000 and over.....	4,114	1,216	3,982	7,918	11,321

<sup>1</sup> Includes small number of shareowners not distributed by breakdown. <sup>2</sup> Persons 21 years old and over. <sup>3</sup> Shareowners whose stockholdings are registered in accordance with the Gifts to Minors Statutes. <sup>4</sup> Adult shareowners only.

Source: New York Stock Exchange, Inc., New York, NY, *Shareownership*, periodic.

**No. 812. COMMODITY FUTURES TRADING ON U.S. EXCHANGES—VOLUME OF TRADING: 1970 TO 1986**

[In thousands. 1970 for year ending June 30; thereafter, for years ending Sept. 30]

COMMODITY	1970	1980	1981	1982	1983	1984	1985	1986
<b>Number of contracts traded</b> .....	<b>12,398</b>	<b>82,691</b>	<b>101,124</b>	<b>107,644</b>	<b>136,077</b>	<b>148,822</b>	<b>152,590</b>	<b>183,098</b>
Grain.....	2,162	18,287	19,808	14,885	17,794	15,889	10,726	10,915
Oilseeds/products.....	3,677	15,692	20,315	15,763	19,823	23,489	14,883	13,799
Livestock/products.....	3,432	11,808	9,804	10,968	11,063	8,429	7,926	8,571
Other agriculturals.....	2,017	7,787	4,578	4,885	6,324	5,958	5,141	6,700
Energy products.....	-	1,087	3,261	2,301	3,204	4,946	7,025	11,531
Metals.....	1,110	14,099	17,870	19,307	26,316	22,447	18,383	16,234
Financial instruments.....	-	10,213	20,091	31,251	40,155	51,003	72,127	96,887
Currencies.....	-	3,719	5,398	6,284	11,398	16,661	16,377	19,061

- Represents zero.

Source: U.S. Commodity Futures Trading Commission, *Annual Report*.

## NO. 813. MUTUAL FUNDS—NET ASSETS, SALES, AND REDEMPTIONS: 1970 TO 1986

[In billions of dollars, except number of funds. See also *Historical Statistics, Colonial Times to 1970*, series X 536-539]

TYPE OF FUND	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Number of funds.....	361	426	477	505	524	564	669	857	1,026	1,352	1,531	1,843
<b>Assets.....</b>	<b>47.6</b>	<b>45.8</b>	<b>48.5</b>	<b>55.8</b>	<b>94.5</b>	<b>134.7</b>	<b>241.4</b>	<b>296.6</b>	<b>292.9</b>	<b>370.7</b>	<b>495.5</b>	<b>716.3</b>
Money market funds.....	(x)	3.6	3.5	10.9	45.2	74.4	181.9	206.6	162.5	209.7	207.5	228.3
Equity funds.....	(x)	45.1	37.5	34.1	32.7	35.9	44.4	41.2	53.6	77.0	78.1	109.6
Income and bond funds.....	(x)	2.5	4.7	8.4	9.3	10.1	11.1	11.0	15.8	22.0	38.3	102.7
Municipal bond funds.....	(x)	(x)	2.3	2.6	3.0	2.9	3.1	7.4	14.6	20.8	39.4	75.7
Limited maturity municipal bonds <sup>1</sup> .....	(x)	(x)	(x)	(x)	(x)	1.9	4.2	13.2	16.8	23.8	36.3	63.8
<b>Sales.....</b>	<b>4.6</b>	<b>10.1</b>	<b>17.1</b>	<b>37.2</b>	<b>119.3</b>	<b>247.5</b>	<b>472.2</b>	<b>627.0</b>	<b>547.8</b>	<b>690.7</b>	<b>953.9</b>	<b>1,205.7</b>
Money market funds.....	(x)	6.8	10.7	30.5	111.9	232.2	451.9	581.8	463.0	572.0	730.1	792.3
Equity funds.....	(x)	4.2	2.6	2.4	2.8	3.1	5.6	6.0	8.3	22.4	18.2	26.8
Income and bond funds.....	(x)	4	7	1.8	2.0	2.0	2.6	2.9	4.0	8.8	17.8	68.1
Municipal bond funds.....	(x)	(x)	2.1	1.8	1.7	1.8	1.5	3.5	9.1	9.8	19.4	39.9
Limited maturity municipal bonds <sup>1</sup> .....	(x)	(x)	(x)	(x)	(x)	5.3	10.5	29.4	44.5	62.3	109.4	197.5
<b>Redemptions.....</b>	<b>3.0</b>	<b>9.8</b>	<b>16.7</b>	<b>31.5</b>	<b>86.8</b>	<b>216.5</b>	<b>362.8</b>	<b>588.4</b>	<b>565.8</b>	<b>607.0</b>	<b>864.9</b>	<b>1,015.6</b>
Money market funds.....	(x)	5.6	10.7	24.3	78.4	204.5	346.7	559.6	508.7	531.0	732.3	776.3
Equity funds.....	(x)	2.8	3.3	4.7	5.1	5.7	5.7	5.1	5.2	9.3	10.4	17.3
Income and bond funds.....	(x)	2	4	8	1.0	1.4	1.5	1.6	1.7	3.1	5.6	12.2
Municipal bond funds.....	(x)	(x)	5	1.1	9	1.0	8	7	2.3	4.1	4.3	9.1
Limited maturity municipal bonds <sup>1</sup> .....	(x)	(x)	(x)	(x)	(x)	3.8	8.3	21.2	42.4	55.9	98.8	172.3

X Not applicable. <sup>1</sup> The average maturity of the portfolio is generally less than two years.Source: Investment Company Institute, Washington, DC, *Mutual Fund Fact Book*, annual.

## NO. 814. U.S. LIFE INSURANCE COMPANIES—SUMMARY: 1970 TO 1986

[As of December 31 or calendar year, as applicable. Covers domestic and foreign business of U.S. companies. See also *Historical Statistics, Colonial Times to 1970*, series X 879 and X 890-917]

ITEM	Unit	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986
<b>U.S. companies.....</b>	<b>Number</b>	<b>1,780</b>	<b>1,746</b>	<b>1,895</b>	<b>1,958</b>	<b>1,991</b>	<b>2,060</b>	<b>2,117</b>	<b>2,193</b>	<b>2,261</b>	<b>2,321</b>
<b>Sales<sup>1</sup>.....</b>	<b>Bil. dol.</b>	<b>207</b>	<b>317</b>	<b>527</b>	<b>655</b>	<b>1,139</b>	<b>920</b>	<b>1,279</b>	<b>1,390</b>	<b>1,530</b>	<b>1,578</b>
Ordinary.....	Bil. dol.	135	207	359	462	700	661	972	1,074	1,187	1,178
Group <sup>1</sup> .....	Bil. dol.	65	103	162	190	436	257	306	315	342	400
Industrial.....	Bil. dol.	7	7	5	4	3	2	2	1	1	(z)
<b>Income.....</b>	<b>Bil. dol.</b>	<b>49.1</b>	<b>78.0</b>	<b>119.1</b>	<b>130.9</b>	<b>151.9</b>	<b>170.0</b>	<b>176.0</b>	<b>206.1</b>	<b>234.0</b>	<b>282.3</b>
Life insurance premiums.....	Bil. dol.	21.7	29.3	39.1	40.8	46.3	50.8	50.3	51.3	60.1	66.2
Percent of total.....	Percent	44.2	37.6	32.8	31.2	30.5	29.9	28.6	24.9	25.7	23.5
Annuity considerations.....	Bil. dol.	3.7	10.2	17.9	22.4	27.6	34.6	30.5	42.8	53.9	83.7
Health insurance premiums.....	Bil. dol.	11.4	19.1	27.9	29.4	31.8	35.0	38.2	40.7	41.8	44.2
Investment and other.....	Bil. dol.	12.3	19.4	34.2	38.3	46.2	49.6	57.0	71.3	78.2	88.2
<b>Disbursements.....</b>	<b>Bil. dol.</b>	<b>39.0</b>	<b>58.2</b>	<b>81.1</b>	<b>88.2</b>	<b>101.8</b>	<b>113.3</b>	<b>123.5</b>	<b>138.5</b>	<b>151.8</b>	<b>186.5</b>
Payments to policyholders.....	Bil. dol.	25.6	38.1	53.7	59.0	65.1	71.2	80.9	89.8	95.7	131.4
Percent of total.....	Percent	65.6	65.5	66.2	66.9	63.9	62.8	65.5	64.8	63.0	70.5
Death payments.....	Bil. dol.	7.2	9.3	11.8	12.9	13.6	14.5	16.8	17.8	18.5	19.6
Matured endowments.....	Bil. dol.	1.0	1.0	1.9	8	7	6	6	7	8	8
Annuity payments.....	Bil. dol.	1.7	3.2	6.6	7.4	9.6	10.3	12.7	18.0	19.7	17.8
Policy dividends.....	Bil. dol.	3.8	5.1	7.6	8.1	9.3	9.6	10.8	11.4	12.4	12.4
Surrender values.....	Bil. dol.	2.9	3.8	5.5	6.4	7.1	9.8	12.5	14.5	15.9	14.6
Disability benefits.....	Bil. dol.	2	4	5	5	6	5	5	4	5	5
Commissions, expenses, etc.....	Bil. dol.	12.9	19.4	25.9	27.8	35.1	40.3	40.7	46.0	53.1	51.4
Dividends to stockholders.....	Bil. dol.	5	7	1.5	1.4	1.6	1.8	1.9	2.7	3.0	3.7
Taxes, licenses and fees.....	Bil. dol.	2.2	3.5	5.5	4.8	4.2	4.4	4.3	6.1	7.8	8.7
Federal income taxes.....	Bil. dol.	1.2	1.9	3.3	2.6	1.8	1.6	1.2	2.8	4.1	4.7
<b>BALANCE SHEET</b>											
<b>Assets.....</b>	<b>Bil. dol.</b>	<b>207.3</b>	<b>289.3</b>	<b>432.2</b>	<b>479.2</b>	<b>525.8</b>	<b>588.2</b>	<b>654.9</b>	<b>723.0</b>	<b>825.9</b>	<b>937.6</b>
Government securities.....	Bil. dol.	11.1	15.2	29.7	33.0	39.5	55.5	76.6	99.8	126.4	144.6
Corporate securities.....	Bil. dol.	88.5	133.9	208.8	227.0	241.5	268.5	297.0	322.5	374.3	432.9
Percent of total assets.....	Percent	42.7	46.3	48.3	47.4	45.9	45.7	45.3	44.6	45.3	46.2
Bonds.....	Bil. dol.	73.1	105.8	169.0	179.6	193.8	212.8	232.1	259.1	296.8	342.0
Stocks.....	Bil. dol.	15.4	28.1	39.8	47.4	47.7	55.7	64.9	63.4	77.5	90.9
Mortgages.....	Bil. dol.	74.4	98.2	118.4	131.1	137.7	142.0	151.0	156.7	171.8	193.8
Real estate.....	Bil. dol.	6.3	9.6	13.0	15.0	18.3	20.6	22.2	25.7	28.8	31.6
Policy loans.....	Bil. dol.	18.1	24.5	34.8	41.4	48.7	53.0	54.1	54.5	54.4	54.1
Other.....	Bil. dol.	10.9	16.9	27.6	31.7	40.1	48.6	54.0	63.9	72.0	80.6
Interest earned on assets <sup>4</sup> .....	Percent	5.30	6.36	7.73	8.02	8.57	8.91	8.98	9.45	9.83	9.35
<b>Liabilities<sup>5</sup>.....</b>	<b>Bil. dol.</b>	<b>189.9</b>	<b>268.7</b>	<b>402.3</b>	<b>444.8</b>	<b>488.4</b>	<b>546.7</b>	<b>608.5</b>	<b>672.6</b>	<b>769.1</b>	<b>873.4</b>
<b>Policy reserves<sup>2</sup>.....</b>	<b>Bil. dol.</b>	<b>167.8</b>	<b>237.1</b>	<b>351.6</b>	<b>390.4</b>	<b>428.0</b>	<b>479.4</b>	<b>532.4</b>	<b>584.2</b>	<b>663.3</b>	<b>761.9</b>
Annuities.....	Bil. dol.	48.9	80.8	153.0	181.5	209.1	252.4	286.5	341.7	410.6	488.6
Group.....	Bil. dol.	34.0	59.9	116.4	140.4	161.0	191.9	221.7	254.6	303.0	355.8
Individual <sup>6</sup> .....	Bil. dol.	14.9	20.9	36.6	41.0	48.1	60.5	74.8	87.1	107.6	132.8
Life insurance.....	Bil. dol.	115.4	150.1	188.2	197.9	207.0	213.8	221.0	225.9	235.9	252.0
Health insurance.....	Bil. dol.	3.5	6.3	10.4	11.0	11.9	13.2	15.0	16.8	18.8	21.3
Capital and surplus <sup>3</sup> .....	Bil. dol.	17.3	20.6	30.0	34.4	37.4	41.5	46.4	50.4	56.8	64.1

Z Less than \$500 million. <sup>1</sup> Includes Servicemen's Group Life Insurance: \$16.8 billion in 1970, \$1.7 billion in 1975, \$44.5 billion in 1981, and \$50.8 billion in 1986; as well as Federal Employees' Group Life Insurance: \$81.5 billion in 1981 and \$10.8 billion in 1986. <sup>2</sup> Includes operations of accident and health departments of life insurance companies. <sup>3</sup> Data not comparable to prior years due to change in accounting method. <sup>4</sup> Net rate. <sup>5</sup> Includes other obligations not shown separately. <sup>6</sup> Includes reserves for supplementary contracts with and without life contingencies.

Source: American Council of Life Insurance, Washington, DC, *Life Insurance Fact Book*, and unpublished data.

NO. 815. U.S. LIFE INSURANCE COMPANIES—NEW LONG-TERM INVESTMENTS: 1970 TO 1986

[In billions of dollars, except percent. Long-term investments are investments of over 1 year in length. Minus sign (-) indicates decrease]

ITEM	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Total.....	23.9	42.5	55.4	66.6	68.8	72.8	77.9	83.7	110.5	169.9	202.5	295.3	421.9
Annual percent change <sup>1</sup> .....	-3	19.7	30.2	20.3	3.2	5.6	7.3	7.4	32.1	53.7	19.2	45.8	42.9
Government securities.....	.8	3.7	7.3	7.5	6.5	6.9	7.0	10.6	24.3	49.1	62.9	99.9	154.3
Corporate securities.....	10.9	22.5	31.7	37.8	36.0	33.5	36.4	42.5	58.8	86.9	104.0	144.6	205.4
Bonds.....	6.8	16.6	24.0	30.2	28.0	23.1	22.3	33.0	50.8	58.8	68.7	98.3	137.5
Stocks.....	4.1	5.9	7.7	7.6	8.0	10.4	14.1	19.5	25.8	36.1	35.3	46.3	67.9
Mortgages.....	7.2	9.6	9.8	14.2	17.8	20.7	19.7	13.5	11.5	20.1	20.1	35.1	45.4
Real estate.....	.9	2.1	1.8	2.0	2.2	2.6	3.3	4.5	4.5	4.3	6.0	6.0	7.1
Policy loans.....	4.1	4.6	4.8	5.1	6.3	8.7	11.5	12.6	11.4	9.5	9.5	9.7	9.7

<sup>1</sup> Change from immediate prior year.

NO. 816. LIFE INSURANCE IN FORCE IN THE U.S.—SUMMARY: 1970 TO 1986

[As of December 31 or calendar year, as applicable. Covers life insurance with life insurance companies only. Includes all life insurance in force on lives of U.S. residents whether issued by U.S. or foreign companies. "Families" includes families, subfamilies, and unrelated individuals; see definitions, text, section 1. See also *Historical Statistics, Colonial Times to 1970*, series X 679-889]

YEAR	LIFE INSURANCE IN FORCE					AVERAGE SIZE POLICY IN FORCE (dollars)					AVERAGE AMOUNT (\$1,000)		Disposable personal income per family (\$1,000)
	Number of policies, total (mil.)	Value (bil. dol.)				Ordinary	Group	Industrial	Credit <sup>1</sup>	Per family	Per insured family		
		Total	Ordinary	Group	Industrial							Credit <sup>1</sup>	
1970.....	355	1,402	731	545	38.6	87.9	6,110	6,910	500	1,000	20.7	24.4	10.3
1972.....	365	1,628	849	631	40.0	108.8	6,790	7,730	530	1,190	22.9	26.9	11.4
1973.....	369	1,778	928	708	40.6	101.2	7,230	8,010	540	1,300	24.4	28.8	12.6
1974.....	380	1,985	1,009	827	39.4	109.6	7,690	8,840	550	1,310	26.5	31.2	13.3
1975.....	382	2,140	1,083	905	39.4	112.0	8,090	9,360	570	1,410	28.1	33.0	14.4
1976.....	382	2,343	1,178	1,003	39.2	123.6	8,610	10,010	580	1,580	30.1	35.0	15.3
1977.....	390	2,583	1,289	1,115	39.0	138.4	9,240	10,550	590	1,760	32.4	37.7	16.5
1978.....	401	2,870	1,425	1,244	38.1	163.1	10,010	11,260	600	1,950	35.1	40.8	17.9
1979.....	407	3,222	1,586	1,419	37.8	179.3	10,890	12,350	610	2,120	38.5	44.8	19.6
1980.....	402	3,541	1,761	1,579	38.0	185.2	11,920	13,410	620	2,110	41.5	48.3	21.4
1981.....	400	4,064	1,978	1,889	34.5	182.4	13,310	15,400	630	2,220	45.7	53.2	22.7
1982.....	390	4,477	2,217	2,066	32.8	161.1	15,140	16,630	630	2,410	49.3	57.3	23.9
1983.....	387	4,966	2,544	2,220	31.4	170.7	17,380	17,550	630	2,650	54.2	63.0	25.5
1984.....	385	5,500	2,988	2,322	30.1	190.0	19,970	18,760	630	2,980	58.7	69.3	27.5
1985.....	386	6,053	3,247	2,522	28.2	216.0	22,780	19,720	640	3,100	63.4	74.6	29.8
1986.....	391	6,720	3,658	2,801	27.2	233.9	25,540	20,720	650	3,310	69.1	81.2	31.1

<sup>1</sup> Insures borrower to cover consumer loan in case of death.

Source of tables 815 and 816: American Council of Life Insurance, Washington, DC, *Life Insurance Fact Book*, annual.

NO. 817. LIFE INSURANCE OWNERSHIP BY HOUSEHOLDS AND ADULTS: 1984

["All types" includes coverage with legal reserve life insurance companies, veterans life insurance, and life insurance issued by savings banks, fraternal organizations, mutual aid and burial societies, and similar types of coverage. "Individual life" comprises ordinary and/or industrial life insurance. Based on a survey conducted for the source and the Life Insurance Marketing and Research Association]

TYPE OF HOUSEHOLD AND HOUSEHOLD INCOME	PERCENT OF HOUSEHOLDS IN WHICH AT LEAST ONE MEMBER OWNS LIFE INSURANCE			MEDIAN COVERAGE <sup>2</sup> (\$1,000)			AGE	PERCENT OF ADULTS OWNING LIFE INSURANCE		
	All types	Individual life <sup>1</sup>	Employee group life	All types	Individual life <sup>1</sup>	Employee group life		Total, 18 yrs. and over	Male	Female
Total.....	81	57	54	35.0	16.5	20.0		75	65	
Family households <sup>3</sup> .....	85	63	58	40.0	20.0	20.0	18-24 yrs. old.....	61	50	
Married couples.....	88	66	60	45.0	23.0	21.5	25-29 yrs. old.....	63	64	
Female householder <sup>4</sup> .....	74	47	49	20.0	11.0	20.0	30-34 yrs. old.....	79	70	
Nonfamily households.....	70	42	41	11.5	5.0	16.5	35-44 yrs. old.....	84	70	
Male householder.....	70	41	48	40.0	11.4	30.0	45-54 yrs. old.....	86	72	
Female householder.....	70	43	37	6.0	2.0	10.0	55-64 yrs. old.....	86	71	
Under \$10,000.....	63	46	27	10.0	5.1	10.0	65 yrs. old and over.....	69	57	
\$10,000-\$17,499.....	78	49	46	16.5	8.5	12.0				
\$17,500-\$24,999.....	87	64	60	30.0	16.4	15.0				
\$25,000-\$34,999.....	92	66	70	56.5	25.0	28.0				
\$35,000 and over.....	92	66	74	87.0	40.0	45.0				

<sup>1</sup> Purchased from an agent, company, or fraternal society. <sup>2</sup> Among those households with this type of coverage. Includes coverage of dependents. <sup>3</sup> Includes male householder with no spouse present. <sup>4</sup> With no spouse present.

Source: American Council of Life Insurance, Washington, DC, *Life Insurance Fact-Book Update, 1985*.

## No. 818. LIFE INSURANCE—INSURANCE IN FORCE AND BENEFIT PAYMENTS BY STATE: 1986

[Applies to policyholders and payments in the U.S. For composition of regions, see fig. 1, inside front cover]

REGION, DIVISION, AND STATE	INSURANCE IN FORCE			Benefit pay- ments <sup>1</sup> (mil. dol.)	REGION, DIVISION, AND STATE	INSURANCE IN FORCE			Benefit pay- ments <sup>1</sup> (mil. dol.)
	Policies (1,000)	Value (bil. dol.)	Avg. per family (dol.)			Policies (1,000)	Value (bil. dol.)	Avg. per family (dol.)	
<b>U.S.</b> .....	<b>390,719</b>	<b>6,720</b>	<b>69,100</b>	<b>68,305</b>	Maryland.....	8,055	138	78,700	1,432
<b>Region:</b>					District of Columbia.....	2,179	44	138,000	424
Northeast.....	82,159	1,508	75,000	17,494	Virginia.....	12,853	179	79,900	1,532
Midwest.....	97,011	1,685	71,300	18,617	West Virginia.....	3,022	38	51,200	476
South.....	151,915	2,237	68,100	20,412	North Carolina.....	12,813	167	66,100	1,540
West.....	59,634	1,290	62,400	11,782	South Carolina.....	8,107	89	68,800	656
<b>New England</b> .....	<b>20,844</b>	<b>398</b>	<b>76,000</b>	<b>4,230</b>	Georgia.....	12,434	182	77,500	1,300
Maine.....	1,893	27	56,400	284	Florida.....	16,994	279	54,700	3,116
New Hampshire.....	1,677	29	68,700	282	<b>East South</b>				
Vermont.....	856	14	58,500	147	Central.....	32,025	371	64,100	3,247
Massachusetts.....	8,744	179	73,600	1,895	Kentucky.....	6,145	79	55,300	793
Rhode Island.....	1,901	29	72,800	343	Tennessee.....	9,830	107	70,300	1,230
Connecticut.....	5,773	120	94,800	1,279	Alabama.....	11,877	131	69,500	844
<b>Middle Atlantic</b> .....	<b>61,315</b>	<b>1,110</b>	<b>74,600</b>	<b>13,264</b>	Mississippi.....	4,173	54	56,300	380
New York.....	27,592	534	74,200	6,155	<b>West South</b>				
New Jersey.....	11,516	250	84,600	3,171	Central.....	42,018	724	68,700	6,408
Pennsylvania.....	22,207	326	69,000	3,938	Arkansas.....	2,804	44	47,300	392
<b>East North</b>					Louisiana.....	9,219	119	69,900	1,017
Central.....	69,110	1,177	71,500	13,496	Oklahoma.....	4,446	81	59,900	965
Ohio.....	18,480	299	71,100	3,450	Texas.....	25,549	480	73,200	4,034
Indiana.....	9,286	146	66,200	1,591	<b>Mountain</b> .....	<b>18,890</b>	<b>343</b>	<b>64,900</b>	<b>3,171</b>
Illinois.....	19,620	347	75,500	4,001	Montana.....	1,132	19	54,700	209
Michigan.....	14,069	262	73,300	2,934	Idaho.....	1,304	22	56,900	230
Wisconsin.....	7,655	123	65,200	1,520	Wyoming.....	658	13	63,200	123
<b>West North</b>					Colorado.....	5,164	104	73,600	905
Central.....	27,901	508	70,700	5,121	New Mexico.....	1,831	34	59,700	304
Minnesota.....	6,318	127	74,900	1,170	Arizona.....	4,940	86	64,000	852
Iowa.....	4,595	80	68,800	951	Utah.....	2,408	42	71,000	346
Missouri.....	8,447	141	67,800	1,414	Nevada.....	1,452	23	54,000	202
North Dakota.....	925	19	67,400	158	<b>Pacific</b>	<b>40,744</b>	<b>947</b>	<b>61,500</b>	<b>8,611</b>
South Dakota.....	952	19	65,000	173	Washington.....	5,239	113	58,600	1,081
Nebraska.....	2,564	49	75,000	532	Oregon.....	3,094	62	51,800	705
Kansas.....	4,100	73	71,400	723	California.....	29,740	723	62,100	6,402
<b>South Atlantic</b>	<b>77,872</b>	<b>1,142</b>	<b>69,000</b>	<b>10,757</b>	Alaska.....	866	15	66,200	118
Delaware.....	1,415	26	103,300	281	Hawaii.....	1,805	34	83,500	908

<sup>1</sup> Comprises death payments, matured endowments, disability and annuity payments, surrender values, and policy dividends.Source: American Council of Life Insurance, Washington, DC, *Life Insurance Fact Book*, annual.

## No. 819. PROPERTY AND LIABILITY INSURANCE: 1970 TO 1986

[In millions of dollars. Premiums written represent total premiums on all insurance policies written by companies, with inception dates in years shown. Minus sign (-) indicates loss. See also *Historical Statistics, Colonial Times to 1970*, series X 918, 923, 928, 933, and 940]

ITEM	1970	1975	1980	1981	1982	1983	1984	1985	1986
<b>Premiums written<sup>1</sup></b> .....	<b>32,867</b>	<b>49,967</b>	<b>95,569</b>	<b>99,276</b>	<b>103,968</b>	<b>108,983</b>	<b>118,166</b>	<b>144,186</b>	<b>176,552</b>
Auto liability.....	8,958	13,315	23,319	24,395	26,226	28,080	30,217	36,087	44,081
Physical damage, auto.....	4,824	7,623	15,833	16,748	18,005	19,748	21,786	25,247	29,306
Liability, other than auto.....	2,140	3,981	7,692	7,385	7,159	7,247	8,254	14,313	22,857
Medical malpractice.....	(NA)	895	1,276	1,338	1,490	1,568	1,775	2,769	3,492
Fire <sup>2</sup> .....	3,147	3,691	4,784	4,817	4,836	4,608	4,853	6,173	6,933
Homeowners multiple peril.....	2,565	4,729	9,821	10,780	11,747	12,512	13,213	14,086	15,222
Commercial multiple peril.....	1,331	3,176	6,886	6,870	7,009	7,293	8,287	12,097	16,190
Workers' compensation.....	3,492	6,186	14,239	14,616	13,945	14,005	15,108	17,048	20,431
Inland marine.....	812	1,266	2,291	2,428	2,510	2,649	3,017	3,672	3,899
Ocean marine.....	465	861	1,065	1,127	1,101	1,096	1,155	1,177	1,225
Surety and fidelity <sup>3</sup> .....	562	789	1,248	1,351	1,454	1,649	1,997	2,853	2,116
Financial guaranty <sup>3</sup> .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	575
Burglary and theft.....	135	120	136	128	115	106	109	122	121
Crop-hail.....	125	312	417	504	532	444	509	447	379
Boiler and machinery.....	115	173	293	298	293	356	439	618	531
Glass.....	40	32	32	31	29	27	28	25	27
Statutory underwriting gain/loss.....	77	-3,594	-1,712	-4,464	-8,303	-11,088	-19,379	-22,597	-13,748
Policyholders' dividends.....	504	633	1,822	1,824	1,987	2,234	2,098	2,196	2,165
Net underwriting gain/loss.....	-426	-4,227	-3,334	-6,288	-10,290	-13,322	-21,477	-24,794	-15,913
Net investment income.....	2,005	4,150	11,063	13,248	14,907	15,973	17,660	19,508	21,924
Net income/loss before taxes.....	1,579	-77	7,730	6,961	4,617	2,651	-3,817	-5,286	6,012
<b>Assets</b> .....	<b>58,594</b>	<b>94,118</b>	<b>197,661</b>	<b>212,302</b>	<b>231,693</b>	<b>249,121</b>	<b>264,734</b>	<b>311,365</b>	<b>374,088</b>
Policyholders' surplus.....	18,520	25,303	52,196	53,604	60,395	65,606	63,809	75,511	94,286

NA Not available. <sup>1</sup> Total includes all property, liability, and allied lines; other data are for principal lines only.<sup>2</sup> Includes extended coverage and allied lines. <sup>3</sup> Prior to 1986, financial guaranty was included in surety.Source: Insurance Information Institute, New York, NY, *Insurance Facts*, annual. Data from A. M. Best Company, Oldwick, NJ.

No. 820. AUTOMOBILE INSURANCE: 1970 TO 1986

[In billions of dollars, except as indicated. Premiums earned basis. See also *Historical Statistics, Colonial Times to 1970*, series Q 163-174]

ITEM	1970	1975	1980	1981	1982	1983	1984	1985	1986			
									Total	Private passenger	Commercial	
<b>Companies reporting</b> .....	925	1,275	1,470	1,507	1,531	1,571	1,587	1,564	1,558			
<b>Total insurance:</b>												
Premiums earned.....	14.8	23.9	37.6	39.8	42.6	48.2	50.5	57.1	70.3	58.3	12.0	
Losses paid <sup>1</sup> .....	11.2	19.7	27.9	30.6	35.1	39.2	42.2	49.2	56.9	47.7	8.2	
Percent of premiums.....	76.6	82.4	74.1	77.0	82.4	81.3	83.6	86.1	81.0	81.9	76.7	
<b>Bodily injury liability:</b> <sup>2</sup>												
Premiums earned.....	9.8	15.2	22.5	23.6	25.4	28.6	29.5	33.5	42.1	33.9	8.3	
Losses paid <sup>1</sup> .....	7.5	12.3	17.2	19.2	21.8	24.9	28.5	31.9	37.9	30.8	7.2	
Percent of premiums.....	79.0	81.0	76.6	81.1	85.9	87.0	89.9	95.0	90.1	90.9	86.7	
<b>Physical damage:</b> <sup>3</sup>												
Premiums earned.....	5.1	8.7	15.1	16.1	17.2	19.6	21.0	23.5	28.2	24.4	3.8	
Losses paid <sup>1</sup> .....	3.7	7.4	10.7	11.5	13.1	14.3	15.7	17.3	19.0	16.9	2.1	
Percent of premiums.....	72.9	84.7	70.4	71.0	76.3	72.9	74.7	73.5	67.5	69.4	55.2	

<sup>1</sup> Includes adjusting expenses. <sup>2</sup> Includes property damage. <sup>3</sup> Covers auto fire, theft, collision, and comprehensive.  
Source: The National Underwriter Co., Cincinnati, OH, *Argus F. C. & S. Chart*, annual (copyright).

No. 821. PRIVATE HEALTH INSURANCE ORGANIZATIONS—INCOME AND EXPENSES: 1970 TO 1985

[In millions of dollars, except percent. Minus sign (–) indicates loss. Expenses are on incurred basis. See also *Historical Statistics, Colonial Times to 1970*, series X 957-962]

ITEM	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985
<b>All organizations:</b>											
Total premium income.....	16,871	33,178	48,016	53,577	62,011	72,595	84,419	98,679	109,684	121,464	130,139
Claims expense.....	15,320	31,223	42,959	49,078	56,905	67,504	79,400	89,929	97,990	104,863	113,000
Percent of premium income.....	90.8	94.1	89.5	91.6	91.8	93.0	92.9	91.1	89.3	86.3	86.8
Operating expense.....	2,269	3,969	5,227	5,874	6,740	7,938	9,378	11,242	12,808	14,271	16,252
Net underwriting gain.....	-716	-2,014	-169	-1,375	-1,834	-2,848	-3,359	-2,492	-1,114	2,330	886
<b>Blue Cross-Blue Shield:</b>											
Premium income.....	7,371	14,446	19,553	21,547	23,471	26,334	30,447	34,338	37,811	39,954	41,508
Claims expense.....	7,060	14,192	17,826	19,465	21,724	25,467	29,209	32,144	34,398	35,522	37,540
Operating expense.....	534	1,063	1,330	1,502	1,716	1,951	2,250	2,476	2,710	3,159	3,728
Net underwriting gain.....	-224	-809	397	580	31	-1,083	-1,012	-282	503	1,273	240
<b>Insurance companies:</b> <sup>1</sup>											
Premium income.....	8,304	14,075	19,060	21,059	24,386	28,913	33,966	41,434	46,972	50,878	53,089
Claims expense.....	7,104	12,826	16,435	19,058	21,830	25,774	30,271	36,424	40,109	41,298	43,112
Net underwriting gain.....	-447	-1,374	-758	-1,760	-1,698	-1,846	-2,256	-2,997	-1,689	445	-128
<b>Other plans:</b>											
Premium income.....	1,196	4,657	9,403	10,971	14,154	17,347	20,006	22,907	25,201	30,632	35,542

<sup>1</sup> Excludes administrative service agreements and hospital indemnity. Hospital indemnity is a form of health insurance which provides a stipulated daily, weekly, or monthly indemnity during hospital confinement. Indemnity is payable on an unallocated basis without regard to actual expense of hospital confinement.

Source: U.S. Health Care Financing Administration, *Health Care Financing Notes*, Sept. 1987, and unpublished data.

No. 822. HEALTH INSURANCE—PREMIUM INCOME AND BENEFIT PAYMENTS OF INSURANCE COMPANIES: 1970 TO 1985

[In billions of dollars. Beginning 1975, includes Puerto Rico and other U.S. outlying areas. Represents premium income of and benefits paid by insurance companies only. Excludes Blue Cross-Blue Shield plans, medical-society sponsored plans, and all other independent plans]

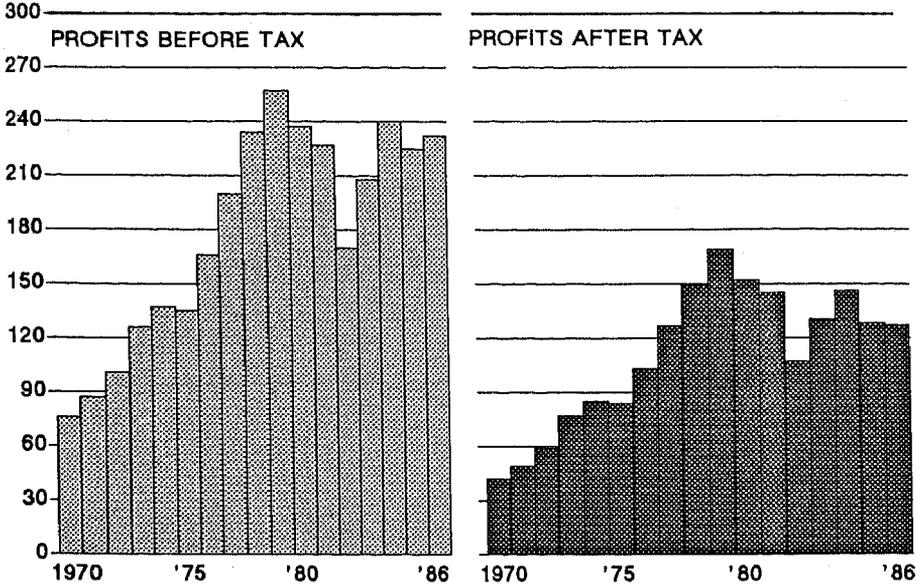
ITEM	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
<b>Premiums</b> <sup>1</sup> .....	11.5	20.8	24.5	28.7	32.7	37.9	43.7	49.0	58.3	63.2	70.4	75.2
Group policies <sup>2</sup> .....	8.1	15.9	19.4	23.2	26.9	31.7	36.8	42.5	50.0	54.9	60.8	64.4
Individual and family policies.....	3.4	4.9	5.1	5.4	5.8	6.2	6.9	6.5	8.3	8.3	9.6	10.8
<b>Benefit payments</b> <sup>3</sup>	9.1	16.5	20.2	22.1	24.6	31.7	37.0	41.6	49.2	51.7	56.0	60.0
Group policies <sup>2</sup> .....	7.5	14.2	17.8	19.5	22.9	27.9	33.0	37.7	44.2	46.9	50.3	53.7
Individual and family policies.....	1.6	2.3	2.4	2.6	2.5	3.8	4.0	3.9	4.9	4.8	5.7	6.3
<b>Type of coverage:</b>												
Loss of income.....	1.8	2.7	2.9	3.1	3.4	4.7	5.3	5.2	5.5	4.9	5.2	5.6
Medical expense.....	7.1	13.2	16.1	17.6	21.2	24.8	28.9	33.0	39.6	42.4	45.9	49.0
Dental.....	.1	.6	1.2	1.5	1.8	2.2	2.8	3.5	4.0	4.4	4.9	5.3

<sup>1</sup> 1970 refers to written premiums; thereafter, refers to earned premiums. <sup>2</sup> Beginning 1975, insurance company group premiums and benefit payments include administrative service agreements and minimum premium plans. Amounts for 1970 contain only a portion of these data. <sup>3</sup> Beginning 1975, excludes accidental death and dismemberment benefits and accident medical reimbursement benefits.

Source: Health Insurance Association of America, Washington, DC, *Source Book of Health Insurance Data*, annual.

**Figure 17.1**  
**Corporate Profits: 1970 to 1986**

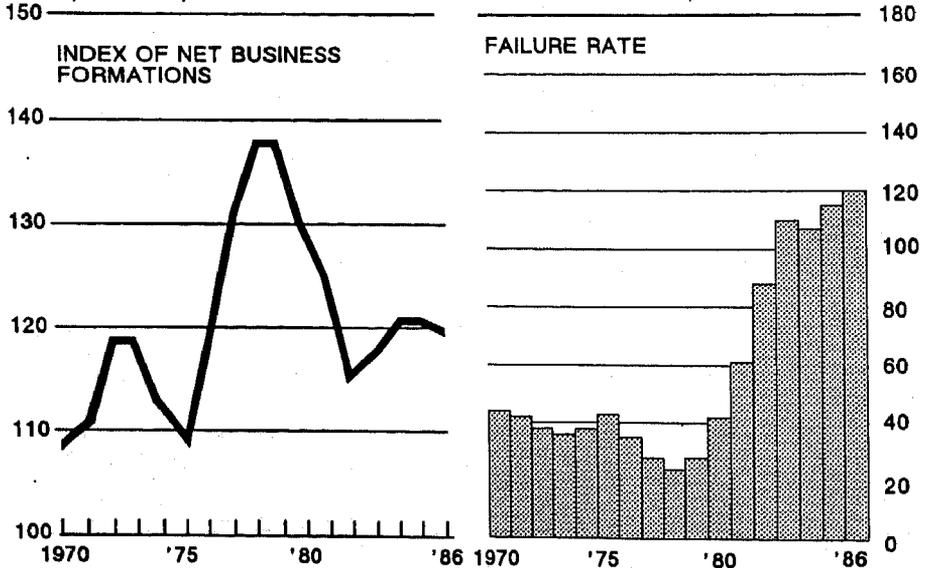
Billions of dollars



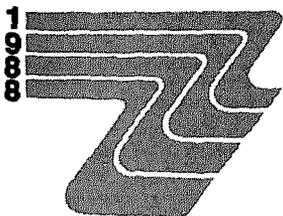
Source: Chart prepared by U.S. Bureau of the Census. For data see table 862.

**Figure 17.2**  
**Index of Net Business Formations and Business Failure Rates:**  
**1970 to 1986**

Index (1967=100)



Source: Chart prepared by U.S. Bureau of the Census. For data see table 834.



## Section 17

# Business Enterprise

This section relates to the place and behavior of the business firm, and to business initiative in the American economy. It includes data on the number, type, and size of businesses; financial data of domestic and multinational U.S. corporations and their foreign affiliates; business investment, expenditures, and profits; business sales and inventories; consumer cooperatives; and business failures. Additional business data may be found in other sections, particularly 27 and 28.

The principal sources of these data are the *Survey of Current Business*, published by the Bureau of Economic Analysis (BEA); the *Federal Reserve Bulletin*, issued by the Board of Governors of the Federal Reserve System; the annual *Statistics of Income* reports of the Internal Revenue Service (IRS); *The Failure Record Through 1986*, issued by the Dun & Bradstreet Corporation, New York; and *Fortune* and *The Fortune Directory*, issued by Time, Inc., New York. Other sources are publications of the Securities and Exchange Commission (SEC), the Bureau of the Census, and the Administrative Office of the United States Courts.

**Business firms.**—A firm is generally defined as a business organization under a single management and may include one or more establishments (i.e., a single physical location at which business is conducted). The terms firm, business, company, and enterprise are used interchangeably throughout this section. A firm doing business in more than one industry is classified by industry according to the major activity of the firm as a whole. The industrial classification is based on the *Standard Industrial Classification (SIC) Manual* (see text, section 13).

The IRS concept of a business firm relates primarily to the legal entity used for tax reporting purposes. The IRS *Statistics of Income* reports present data, based on a sample of tax returns before audit, separately for sole proprietorships, partnerships, and active corporations. A *sole proprietorship* is an unincorporated business owned by one person including large enterprises with many employees and hired managers to the part-time operations in which the owner is the only person involved. A *partnership* is an unincorporated business owned by two or more persons, each of whom has a financial interest in the business. The "persons" could be individuals, estates, trusts, other partnerships or corporations. A *corporation* is a business that is legally incorporated under State laws. The IRS recognizes many types of businesses as corporations, including joint-stock companies; mutual and other insurance companies; and unincorporated associations such as business trusts, etc. While many corporations file consolidated tax returns, most corporate tax returns represent individual corporations, some of which are affiliated through common ownership or control with other corporations filing separate returns.

**Assets and liabilities.**—In its annual report, *Statistics of Income, Corporation Income Tax Returns*, the IRS presents balance sheet and income estimates for all active U.S. corporations. The Bureau of the Census issues the *Quarterly Financial Report for Manufacturing, Mining and Trade Corporations (QFR)*, which presents quarterly income account and balance sheet data for manufacturing, mining, and trade industries. The Federal Reserve Board issues *Working Capital of U.S. Nonfinancial Corporations*, which presents data on components of current assets and liabilities of all nonfinancial U.S. corporations. Both of these reports were prepared by the Federal Trade Commission until responsibilities for QFR were transferred to Census beginning with the 4th quarter 1982 report.

One of the most comprehensive measures of the investment position of the business sector (and the only measure adjusted to current replacement cost) is the BEA capital stock series. See *Survey of Current Business*, August 1987.

**Income, profits, dividends, and taxes.**—Several agencies, among them IRS and BEA, compile corporate income account data. These data, however, are not comparable because of differing methods of compilation. A reconciliation of the two can be found in table 8.13 of *National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business* (normally the July issue), published by BEA. The IRS publishes financial data for all business enterprises. These data appear in *Statistics of Income—Corporation Income Tax Returns* and the *Statistics of Income*

*Bulletin Partnership and Sole Proprietorships Returns.* Supplemental reports published periodically present data on international income and taxes reported by U.S. corporations.

Corporate data issued by BEA are a part of its national income and product accounts (see text, section 14). The primary sources for BEA estimates of profits, taxes, dividends, and undistributed profits are the original corporate tax returns submitted to IRS. Various adjustments of IRS data are required by the national income treatment—particularly with respect to profits which would be disclosed if all tax returns were audited; depletion; capital gain or loss; treatment of bad debts; measurement of income received from abroad; and intercorporate dividends—to make the figures comparable with other entries in the national income accounts. For a discussion of two types of adjustments (inventory valuation and capital consumption), see text, section 14. The BEA's corporate profits data also include net earnings of Federal Reserve banks, credit unions, private noninsured pension funds, and several quasi-government credit agencies not included in IRS data.

**Sources and uses of corporate funds.**—These data (table 861) show capital requirements of corporations and the manner in which they are financed. Sources of funds should be equal to their uses. Certain discrepancies, however, interfere with this equality due to omission of (1) money accruing to corporations from an excess of sales over purchases of used plant and equipment, (2) transactions in securities held as permanent investments except public offerings, and (3) net purchases of land. Also, the balance sheet data upon which many of the financial flow estimates are based are not fully comparable with the tax-return based estimates of internal sources, or the establishment series underlying the figures on inventory change.

**Plant and equipment expenditures.**—Estimates of actual and planned expenditures for new plant and equipment in the United States by most private nonagricultural business firms are based on quarterly sample surveys conducted by the Bureau of Economic Analysis.

For quarterly data, see current issues of the *Survey of Current Business*. For a discussion of coverage, concepts, and methodology, see the February 1985 issue of the *Survey*.

**Sales and inventories.**—Sales are estimated aggregate values, and inventories are book values at the end of the period. Sales signifies sales or shipments for retail and wholesale trade and billings or shipments for manufacturing. Trade inventories are valued at cost of merchandise on hand, while manufacturers' inventories are valued at approximate current costs or at book values, as reported by the manufacturer. Inventories (see table 857) are based on data from censuses (conducted every five years, for years ending in "2" and "7") and annual surveys. Monthly data for manufacturing appear in the Bureau of the Census Current Industrial Reports, *Manufacturers' Shipments, Inventories, and Orders*, series M3-1; for data on retail and wholesale trade, see section 28.

**Sales, assets, net income, stockholder's equity, and total returns to investors.**—Sales include service and rental revenues but exclude dividends, interest, and other non-operating revenues. All companies on the list must have derived more than 50 percent of their sales from manufacturing and/or mining. Sales of subsidiaries are included when they are consolidated. **Assets** are those shown at the company's year-end. **Net income** is shown after taxes and after extraordinary credits or charges when any are shown on the income statement. **Stockholder's equity** is the sum of capital stock, surplus and retained earnings at the company's year-end. Redeemable preferred stock is excluded when its redemption is either mandatory or outside the control of the company, except in the case of cooperatives. **Total returns to investors** include both price appreciation and dividend yield. Returns are adjusted for stock splits, stock dividends, recapitalizations, and corporate reorganizations as they occur. For further discussion, see Time, Inc., New York, NY, *The Fortune Directory*, May and June issues.

**Economic censuses.**—The economic censuses constitute comprehensive and periodic canvasses of the Nation's industrial and business activities. The first economic census of the United States was conducted as part of the 1810 decennial census, when inquiries on manufacturing were included with the census of population. Minerals data were collected in 1840. The first censuses of construction and business were taken for 1929. An integrated economic census program was begun for 1954. In that year, the censuses covered the retail and wholesale trades, selected service industries, manufactures, and mineral industries. The economic censuses are taken at 5-year intervals covering years ending in "2" and "7".

**Statistical reliability.**—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability applicable to Census Bureau data, see Appendix III.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

**Statistics for States and metropolitan statistical areas (MSAs).**—Data for States and MSAs may also be found in *State and Metropolitan Area Data Book 1986*. For cross-references, see Appendix V.

**No. 823. NUMBER OF RETURNS, RECEIPTS, AND NET INCOME, BY TYPE OF BUSINESS: 1970 TO 1984**

[Figures are estimates based on samples; see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series V 1-12. For further information regarding corporations, see table 846]

ITEM	Unit	1970	1975	1978	1979	1980	1981	1982	1983	1984
Number.....	1,000.....	12,001	13,979	15,629	16,187	16,783	13,858	14,546	15,245	16,077
Receipts.....	Bil. dol.....	2,082	3,685	5,377	6,345	7,159	7,725	7,755	7,891	8,752
Net income (less deficit) <sup>1</sup> .....	Bil. dol.....	109	196	320	361	302	264	198	245	301
Proprietorships, number <sup>2</sup> .....	1,000.....	9,400	10,882	12,018	12,330	12,702	9,585	10,108	10,704	11,262
Business receipts <sup>3</sup> .....	Bil. dol.....	238	339	443	488	508	427	434	465	516
Net income (less deficit) <sup>1</sup> .....	Bil. dol.....	33	45	59	61	55	53	51	60	71
Partnerships, number.....	1,000.....	936	1,073	1,234	1,300	1,380	1,461	1,514	1,542	1,644
Total receipts <sup>4</sup> .....	Bil. dol.....	93	147	219	258	292	272	297	291	375
Net income (less deficit) <sup>1</sup> .....	Bil. dol.....	10	8	14	15	8	-3	-7	-3	-3
Corporations, number.....	1,000.....	1,565	2,024	2,377	2,557	2,711	2,812	2,928	2,999	3,171
Total receipts <sup>4</sup> .....	Bil. dol.....	1,751	3,199	4,715	5,599	6,361	7,026	7,024	7,135	7,861
Net income (less deficit) <sup>1</sup> .....	Bil. dol.....	66	143	247	285	239	214	154	188	233

<sup>1</sup> Net income (less deficit) is defined differently by form of organization, basically as follows: (a) Proprietorships: Total taxable receipts less total deductions, including cost of sales and operations; investment and other income are excluded; (b) Partnerships: Total taxable receipts less total deductions, including cost of sales and operations; investment and other income, except capital gains, are included; (c) Corporations: Total taxable receipts less total deductions, including cost of sales and operations; investment and other income, such as capital gains and income from foreign corporations considered received for tax purposes only, are included; net income is before income tax. <sup>2</sup> Through 1980, includes both individually owned businesses and farms; beginning 1981, includes only nonfarm businesses. <sup>3</sup> Receipts from sales and services less allowances, rebates, and returns; excludes capital gains and losses, and investment income not associated with taxpayer's business. <sup>4</sup> Gross taxable receipts from all sources before deduction of cost of goods sold, cost of operations, and net loss from sales of noncapital assets.

Source: U.S. Internal Revenue Service, *Statistics of Income*, and various publications.

**No. 824. NUMBER OF RETURNS AND BUSINESS RECEIPTS, BY SIZE OF RECEIPTS AND TYPE OF BUSINESS: 1970 TO 1984**

[See headnote, table 825. See also *Historical Statistics, Colonial Times to 1970*, series V 1-12. For further information regarding corporations, see table 846]

SIZE-CLASS OF RECEIPTS	1970		1975		1980		1982		1983		1984	
	Returns (1,000)	Receipts (bil. dol.)										
Corporate returns <sup>1</sup> .....	1,666	1,621	2,024	2,962	2,712	5,732	2,926	6,157	2,999	6,335	3,171	6,948
Under \$25,000 <sup>2</sup> .....	452	2	469	2	557	3	620	3	629	3	666	3
\$25,000-\$49,999.....	171	5	186	5	208	6	218	7	213	7	213	7
\$50,000-\$99,999.....	220	14	261	17	323	21	325	22	330	22	339	23
\$100,000-\$499,999.....	517	116	674	155	926	215	1,021	242	1,043	250	1,084	261
\$500,000-\$999,999.....	141	95	184	125	280	192	298	203	316	217	345	238
\$1,000,000 or more.....	165	1,391	250	2,658	418	5,294	446	5,680	468	5,835	505	6,417
Partnership returns <sup>1</sup> .....	936	90	1,073	146	1,380	286	1,514	332	1,541	243	1,643	318
Under \$25,000 <sup>2</sup> .....	502	3	550	4	638	4	778	5	781	2	820	2
\$25,000-\$49,999.....	125	4	140	5	182	7	182	7	177	3	197	4
\$50,000-\$99,999.....	120	8	133	10	184	13	187	13	204	8	200	8
\$100,000-\$499,999.....	162	33	204	44	290	64	278	61	282	42	313	46
\$500,000-\$999,999.....	17	12	26	17	48	33	50	35	54	25	61	27
\$1,000,000 or more.....	10	30	18	68	37	164	39	211	44	163	52	232
Non-farm proprietorship returns <sup>2</sup> .....	6,494	199	7,780	274	9,730	411	10,106	434	10,704	465	11,262	516
Under \$25,000.....	4,738	30	5,627	35	6,816	44	7,203	45	7,581	49	7,832	52
\$25,000-\$49,999.....	746	27	850	30	1,079	39	1,117	40	1,187	42	1,281	45
\$50,000-\$99,999.....	562	40	645	45	836	59	844	59	910	65	1,061	74
\$100,000-\$499,999.....	420	76	590	113	796	159	838	166	889	178	984	203
\$500,000-\$999,999.....	21	14	35	24	74	50	68	47	83	57	86	61
\$1,000,000 or more.....	7	12	13	26	29	61	36	76	35	74	37	81

<sup>1</sup> Includes firms with no receipts. <sup>2</sup> Business receipts. Active firms only. <sup>3</sup> Number of businesses. Number of non-farm sole proprietorship returns is not available prior to 1981. However, the number of returns and the number of businesses are very closely related. Since 1970, the ratio of number of returns to the number of businesses has remained approximately 1 to 1.1.

Source: U.S. Internal Revenue Service, *Statistics of Income*, and unpublished data.

**No. 825. NUMBER OF RETURNS, RECEIPTS, AND NET INCOME, BY INDUSTRY AND TYPE OF BUSINESS:**  
1984

[Figures are estimates based on sample of unaudited tax returns; see Appendix III. Due to minor variations in estimating techniques, totals differ slightly from those shown in other IRS tables in this section. For further information regarding corporations, see table 846. See *Historical Statistics, Colonial Times to 1970*, series V 42-53, for number of active corporations. Minus sign (-) indicates net loss]

INDUSTRY	NUMBER OF RETURNS (1,000)			BUSINESS RECEIPTS <sup>1</sup> (bil. dol.)			NET INCOME (less deficit) <sup>2</sup> (bil. dol.)		
	Nonfarm proprietor- ships	Active partner- ships	Active corporations	Nonfarm proprietor- ships	Active partner- ships	Active corporations	Nonfarm proprietor- ships	Active partner- ships	Active corporations
<b>Total</b> <sup>3</sup> .....	<b>11,262</b>	<b>1,644</b>	<b>3,171</b>	<b>516.0</b>	<b>318.3</b>	<b>6,948.5</b>	<b>70.8</b>	<b>-3.5</b>	<b>232.9</b>
Agriculture, forestry, and fishing.....	323	139	98	10.7	5.9	62.1	.9	-.7	.2
Mining.....	153	57	41	13.2	18.6	111.0	.4	.1	-.4
Construction.....	1,386	65	307	66.3	23.2	326.8	10.1	2.2	2.9
Manufacturing.....	320	30	272	18.2	18.3	2,609.0	1.4	-1.1	121.2
Transportation, public utilities <sup>4</sup> .....	572	21	128	29.1	10.7	693.1	3.3	-2.0	28.9
Wholesale and retail trade <sup>5</sup> .....	2,381	185	897	196.0	72.3	2,250.8	7.7	1.7	42.0
Wholesale.....	225	21	304	29.8	28.2	1,130.1	1.6	.4	24.3
Retail.....	2,012	163	588	160.6	44.1	1,116.4	5.4	1.3	17.6
Finance, insurance, real estate.....	984	791	497	30.0	<sup>6</sup> 94.4	<sup>6</sup> 431.1	9.5	-19.2	32.7
Services.....	4,990	331	899	147.4	90.2	458.0	36.8	15.6	5.5

<sup>1</sup> See footnote 4, table 823.

<sup>2</sup> See footnote 2, table 823.

<sup>3</sup> Includes business not specifically allocated to industries below.

See also exception in footnote 6.

<sup>4</sup> Includes sanitary services.

<sup>5</sup> Includes trade business not identified as wholesale or retail.

<sup>6</sup> Includes total receipts from all sources (including investment income) for businesses in this category; therefore, the industry detail in this column exceeds the total.

Source: U.S. Internal Revenue Service, *Statistics of Income*, various publications.

**No. 826. NUMBER OF RETURNS, RECEIPTS, AND NET INCOME, BY INDUSTRY, BY TYPE OF BUSINESS,  
AND BY SIZE OF BUSINESS RECEIPTS: 1984**

[Number in thousands; receipts and net income in millions of dollars. See headline, table 825. See *Historical Statistics, Colonial Times to 1970*, series V 42-53, for number of active corporations. Minus sign (-) indicates net loss]

INDUSTRY	Non- farm pro- prietor- ships, <sup>1</sup> total	ACTIVE PARTNERSHIPS			ACTIVE CORPORATIONS				
		Under \$100,000 <sup>2</sup>	\$100,000- \$499,999	\$500,000 or more	Under \$1,000,000	\$1,000,000- \$4,999,999	\$5,000,000- \$9,999,999	\$10,000,000- \$49,999,999	\$50,000,000 or more
<b>All industrial divisions:<sup>3</sup></b>									
Number.....	11,262	1,198	327	119	2,666	383	61	50	10
Business receipts <sup>4</sup> .....	516,037	13,409	45,683	259,250	531,963	783,416	399,133	922,098	4,311,872
Net income <sup>5</sup> .....	70,767	-18,947	1,555	13,882	-746	14,595	8,109	24,610	186,331
<b>Agriculture, forestry, and fishing:</b>									
Number.....	322	130	8	1	90	7	1	1	(z)
Business receipts <sup>4</sup> .....	10,700	534	1,673	3,679	62,093	14,140	5,977	11,606	13,860
<b>Mining:</b>									
Number.....	153	43	9	5	34	5	1	1	(z)
Business receipts <sup>4</sup> .....	13,180	537	1,998	16,103	5,387	10,796	4,459	12,743	77,645
<b>Construction:</b>									
Number.....	1,386	34	25	5	250	47	6	3	(z)
Business receipts <sup>4</sup> .....	66,311	1,215	5,191	16,791	61,972	96,758	40,250	65,145	62,626
<b>Manufacturing:</b>									
Number.....	320	21	5	3	185	59	13	12	3
Business receipts <sup>4</sup> .....	18,176	478	1,149	16,700	49,840	133,379	91,434	241,416	2,092,903
<b>Transportation, public utilities:<sup>6</sup></b>									
Number.....	572	18	3	2	108	16	2	2	1
Business receipts <sup>4</sup> .....	29,088	598	812	9,323	21,545	34,333	15,797	31,363	590,066
<b>Wholesale and retail trade:</b>									
Number.....	2,381	102	61	22	671	170	28	24	3
Business receipts <sup>4</sup> .....	195,961	3,133	14,371	54,832	184,411	363,749	198,661	468,173	1,035,780
<b>Finance, insurance, real estate:</b>									
Number.....	984	603	135	53	461	25	5	5	2
Business receipts <sup>4</sup> .....	29,977	1,094	3,590	50,219	32,581	24,531	9,022	33,546	331,478
<b>Services:</b>									
Number.....	4,990	226	77	29	838	53	5	3	1
Business receipts <sup>4</sup> .....	147,438	5,394	16,391	68,459	157,611	103,246	33,061	56,705	107,416

z Less than 500 returns. <sup>1</sup> Individually owned businesses. <sup>2</sup> Includes businesses without receipts. <sup>3</sup> Includes busi-

nesses not allocable to individual industries. <sup>4</sup> See footnote 4, table 823. <sup>5</sup> Less deficit. See footnote 2, table 823.

<sup>6</sup> Includes sanitary services.

Source: U.S. Internal Revenue Service, *Statistics of Income*, various publications and unpublished data.

**NO. 827. NONFARM SOLE PROPRIETORSHIP RETURNS—SELECTED INCOME AND DEDUCTION ITEMS:  
1970 TO 1985**

[In millions of dollars, except as indicated. All figures are estimates based on sample. Tax law changes have affected the comparability of the data over time. See *Statistics of Income* reports for a description of appropriate years tax law changes; see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series V 4-6]

ITEM	1970	1975	1980	1981	1982	1983	1984	1985
Number of returns, total (1,000).....	5,770	7,221	8,932	9,585	10,106	10,704	11,262	11,929
Number with net business income (1,000).....	(NA)	(NA)	(NA)	6,535	6,761	7,390	8,003	8,641
Inventory, end of year.....	11,061	15,576	21,996	22,922	21,805	(NA)	23,233	24,970
Business receipts, total.....	198,582	273,955	411,206	427,083	433,665	465,169	516,037	540,045
Income from sales and operations.....	(NA)	272,349	407,169	421,700	428,312	455,382	507,234	(NA)
Deductions, total.....	168,045	234,318	356,258	373,991	383,092	404,809	445,270	461,273
Cost of goods sold/operations.....	109,149	146,261	209,890	209,724	205,471	212,631	229,906	232,294
Purchases.....	88,586	117,722	168,302	167,751	161,295	(NA)	(NA)	(NA)
Labor costs.....	7,704	8,791	10,922	10,923	11,425	9,871	13,009	14,504
Materials and supplies.....	6,216	9,091	12,909	12,081	12,736	(NA)	(NA)	(NA)
Commissions.....	1,274	2,226	3,333	3,540	4,464	(NA)	(NA)	(NA)
Salaries and wages (net).....	15,107	20,228	26,561	28,749	30,403	31,866	34,686	38,286
Car and truck expenses.....	(NA)	(NA)	13,378	12,358	(NA)	14,758	17,524	(NA)
Rent paid.....	4,637	6,676	9,636	10,715	11,797	11,831	14,278	15,259
Repairs.....	2,445	3,044	5,032	5,414	6,006	(NA)	(NA)	(NA)
Taxes paid.....	3,776	5,424	7,672	6,661	7,748	(NA)	(NA)	(NA)
Utilities.....	(NA)	(NA)	4,790	5,276	(NA)	(NA)	(NA)	(NA)
Insurance.....	2,310	3,504	6,003	6,239	6,448	(NA)	(NA)	(NA)
Interest paid.....	1,784	3,397	7,190	9,052	10,143	9,926	11,025	11,914
Depreciation.....	5,452	7,958	13,953	15,855	19,122	22,070	23,900	26,291
Pension and profit sharing plans.....	73	125	141	153	136	123	256	311
Net income (less loss).....	30,537	39,637	54,947	53,072	50,573	60,359	70,767	78,773
Businesses with profit.....	39,736	45,825	68,010	68,553	68,647	78,618	89,849	98,776

NA Not available. <sup>1</sup> Includes brokeneven businesses.

Source: U.S. Internal Revenue Service, *Statistics of Income Bulletin*, Summer, 1987.

**NO. 828. PARTNERSHIP RETURNS—SELECTED INCOME STATEMENT AND BALANCE SHEET ITEMS:  
1970 TO 1984**

[In millions of dollars, except as indicated. All figures are estimates based on samples. See headline, table 827. See also Appendix III and *Historical Statistics, Colonial Times to 1970*, Series V 7-9]

ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984
Active partnerships, number (1,000).....	936	1,073	1,234	1,300	1,380	1,461	1,514	1,542	1,644
Number with net income (1,000).....	640	661	762	766	774	749	791	784	845
Number with balance sheets (1,000).....	556	783	1,024	(NA)	1,194	1,198	1,223	1,191	1,215
Number of partners (1,000).....	3,698	4,951	6,121	6,955	8,420	9,448	9,765	10,589	12,427
Assets, total <sup>1</sup> .....	116,753	235,468	353,696	447,130	597,504	715,233	845,281	886,993	1,030,849
Buildings/depreciable assets (net).....	(NA)	113,125	158,728	(NA)	239,140	367,270	310,846	345,897	581,643
Inventories, end of year.....	(NA)	11,985	17,203	(NA)	33,218	59,650	100,729	77,059	81,756
Land.....	(NA)	36,732	46,442	(NA)	70,241	76,333	87,820	98,427	122,037
Liabilities, total.....	(NA)	193,876	293,050	(NA)	488,734	580,034	701,830	745,153	855,373
Accounts payable.....	(NA)	12,302	20,843	(NA)	33,899	29,092	37,255	34,725	32,780
Short-term debt <sup>2</sup> .....	(NA)	22,709	27,811	(NA)	48,002	55,892	73,278	67,295	66,626
Long-term debt <sup>3</sup> .....	(NA)	136,297	114,943	(NA)	178,044	196,509	236,218	268,268	322,327
Nonrecourse loans.....	(NA)	(*)	83,747	(NA)	118,910	138,134	154,509	194,829	260,167
Partner's capital accounts.....	(NA)	41,593	60,846	(NA)	108,770	135,199	143,651	141,840	175,476
Total receipts.....	93,349	148,418	219,192	258,198	291,998	272,130	296,690	291,319	375,193
Business receipts.....	90,209	142,506	207,731	242,654	271,109	230,027	251,609	243,248	318,342
Interest received <sup>4</sup> .....	342	2,447	4,347	7,246	10,869	13,773	15,260	15,006	16,651
Deductions, total.....	83,558	140,680	204,745	242,992	283,749	274,865	304,005	293,929	378,693
Cost of goods sold/operations.....	46,041	64,673	87,217	102,097	113,886	130,044	144,595	125,331	180,858
Salaries and wages.....	8,129	12,489	16,585	19,393	22,396	21,953	23,205	24,734	28,523
Taxes paid.....	3,159	5,771	7,365	8,329	9,553	5,040	5,289	5,910	6,673
Interest paid.....	4,470	12,097	16,023	21,276	28,362	19,586	21,517	22,384	25,438
Depreciation.....	4,579	10,109	14,520	17,683	21,576	27,263	32,362	37,340	49,782
Net income (less loss).....	9,790	7,738	14,447	15,206	8,249	-2,735	-7,315	-6,610	-3,500
Businesses with profit.....	14,419	22,432	33,689	40,001	45,082	50,587	53,557	60,308	69,697

NA Not available. <sup>1</sup> Total assets, total liabilities, and partner's capital accounts are somewhat understated because not all partnership returns filed contained a complete balance sheet. <sup>2</sup> Represents mortgages, notes, and bonds payable in less than one year. <sup>3</sup> Represents mortgages, notes, and bonds payable in one year or more. <sup>4</sup> Tax year 1975 long term debt included nonrecourse loans. <sup>5</sup> Beginning 1982, includes both interest and dividends.

Source: U.S. Internal Revenue Service, *Statistics of Income Bulletin*, Summer 1984 and Fall 1986.

## NO. 829. PARTNERSHIPS—SELECTED ITEMS BY INDUSTRIAL DIVISION: 1980 TO 1985

[In millions of dollars, except partners and partnerships in thousands. Includes partnership not allocable by nature of business. Figures are estimates based on samples. See Appendix III]

INDUSTRY AND YEAR	NUMBER OF PARTNERSHIPS			Number of partners	Total assets	Business receipts <sup>1,2</sup>	Total deductions <sup>2</sup>	Net income less loss <sup>2</sup>	Net income	Net loss
	Total	With net income	With net losses							
<b>All industries:</b>										
1980.....	1,380	774	605	8,420	597,504	285,967	283,749	8,249	45,082	36,813
1981.....	1,461	749	711	9,085	715,233	262,498	274,865	-2,735	50,567	53,302
1982.....	1,514	781	723	9,765	845,281	284,037	304,005	-7,315	53,557	60,871
1983.....	1,542	845	758	10,589	886,993	278,347	293,299	-2,610	60,308	62,918
1984.....	1,644	884	799	12,427	1,030,849	318,342	378,693	-3,500	69,697	73,197
1985.....	1,714	876	638	14,190	1,269,434	302,793	376,170	-7,814	78,114	85,928
<b>Agriculture, forestry, and fishing:</b>										
1980.....	126	72	54	381	24,595	21,611	22,859	472	2,539	2,067
1981.....	125	64	61	406	23,130	4,993	8,069	-704	2,133	2,837
1982.....	133	68	65	450	24,814	5,004	8,403	-701	2,452	3,153
1983.....	137	73	63	466	24,717	5,949	8,772	-145	2,626	2,771
1984.....	139	73	66	494	26,739	5,896	9,242	-749	2,478	3,227
1985.....	136	76	60	585	27,027	6,529	10,495	-1,049	2,977	3,946
<b>Mining:</b>										
1980.....	35	15	20	722	24,742	13,201	18,248	-4,208	3,920	8,128
1981.....	51	20	32	1,475	34,345	15,329	27,113	-10,109	4,832	14,842
1982.....	56	23	33	1,574	45,550	17,563	28,628	-8,930	5,795	14,825
1983.....	60	24	36	2,083	49,775	17,077	23,586	-4,110	6,368	10,479
1984.....	57	31	26	2,007	52,415	16,638	21,985	69	7,857	7,788
1985.....	63	33	30	4,153	66,930	19,922	22,089	2,551	6,954	6,402
<b>Oil and gas extraction:</b>										
1980.....	31	14	17	686	18,881	9,252	13,859	-3,694	3,577	7,271
1981.....	47	19	28	1,441	27,315	11,009	21,954	-9,386	4,485	13,872
1982.....	51	22	29	1,512	38,048	13,717	23,525	-7,727	5,493	13,220
1983.....	56	23	33	1,988	41,087	13,226	19,048	-3,546	5,917	9,463
1984.....	51	27	24	1,893	41,266	14,777	16,674	787	7,349	6,561
1985.....	56	31	25	4,076	55,760	15,577	16,648	3,343	8,350	5,008
<b>Construction:</b>										
1980.....	67	51	16	160	9,811	18,407	17,202	1,560	2,119	559
1981.....	70	50	20	165	11,008	16,554	15,810	1,209	1,848	639
1982.....	66	47	19	152	11,654	18,052	17,181	1,419	2,061	642
1983.....	64	46	18	149	14,965	21,623	20,758	2,168	3,087	919
1984.....	65	47	18	173	13,783	23,198	21,655	2,193	2,966	773
1985.....	57	41	16	134	15,008	21,476	20,080	2,207	2,743	536
<b>Manufacturing:</b>										
1980.....	30	20	10	92	11,252	15,327	16,142	-472	1,199	1,671
1981.....	29	19	12	91	10,988	14,234	15,026	-441	1,100	1,540
1982.....	23	14	9	77	13,022	14,824	15,960	-816	940	1,766
1983.....	26	12	14	91	13,966	14,179	15,291	-744	890	1,634
1984.....	30	15	15	94	19,574	18,326	20,046	-1,101	1,165	2,265
1985.....	30	12	18	105	24,838	22,568	24,225	-1,095	1,228	2,314
<b>Transportation and public utilities:</b>										
1980.....	20	11	10	73	9,291	5,868	5,821	248	1,092	844
1981.....	22	10	11	73	11,827	6,240	6,654	-228	1,103	1,331
1982.....	18	8	10	93	17,671	6,570	7,577	-761	1,098	1,859
1983.....	20	9	11	103	19,809	7,155	8,194	-703	1,128	1,831
1984.....	21	14	7	142	21,109	10,793	13,332	-2,007	1,280	3,288
1985.....	25	15	10	186	26,468	11,253	14,814	-3,066	1,360	4,426
<b>Wholesale and retail trade:</b>										
1980.....	200	123	77	487	17,727	65,793	63,988	2,475	3,374	900
1981.....	217	118	99	528	20,253	70,442	69,853	1,317	2,939	1,622
1982.....	205	118	87	491	19,279	69,736	68,980	1,601	3,043	1,442
1983.....	194	102	92	479	19,804	59,880	59,140	1,540	3,012	1,472
1984.....	185	98	87	444	21,222	72,335	71,707	1,666	3,238	1,572
1985.....	201	113	88	493	20,568	69,079	68,119	1,977	3,467	1,490
<b>Finance, insurance, and real estate:</b>										
1980.....	637	313	325	5,566	454,531	87,133	91,382	-4,249	15,189	19,418
1981.....	682	300	382	5,326	550,143	73,574	78,934	-5,360	19,771	25,131
1982.....	726	334	392	5,767	647,465	85,905	97,061	-11,156	19,485	30,621
1983.....	730	327	403	5,927	670,225	76,784	89,889	-13,105	22,542	35,647
1984.....	791	350	441	7,408	770,457	94,362	113,606	-19,244	25,646	44,880
1985.....	844	369	475	7,755	979,787	45,873	118,237	-25,229	30,383	56,311
<b>Real estate:</b>										
1980.....	464	211	253	3,212	275,895	60,637	63,924	-3,287	8,125	11,412
1981.....	522	216	307	3,133	337,368	30,526	38,433	-7,907	9,852	17,760
1982.....	568	245	323	3,798	394,968	39,989	45,089	-11,100	11,940	23,039
1983.....	585	245	341	4,328	465,891	41,355	56,234	-14,879	14,601	29,480
1984.....	637	262	375	5,131	598,425	26,011	74,922	-21,204	18,548	39,752
1985.....	694	285	409	5,992	724,342	28,609	89,505	-29,759	21,007	50,766
<b>Services:</b>										
1980.....	263	169	94	938	45,510	58,627	48,106	12,424	15,649	3,224
1981.....	263	168	95	1,025	53,559	60,997	52,232	11,618	16,804	5,186
1982.....	279	175	104	1,147	64,798	65,835	59,627	11,902	18,556	6,656
1983.....	306	188	118	1,275	73,186	75,069	67,639	12,457	20,570	8,113
1984.....	331	204	127	1,578	87,964	90,244	82,239	15,593	24,800	9,217
1985.....	341	207	134	1,713	106,597	104,197	96,202	16,541	26,942	10,400

<sup>1</sup> Total receipts for partnerships in finance, insurance, and real estate, and business receipts for all other industries.  
<sup>2</sup> Beginning 1981, the agriculture, forestry, and fishing industries are based on revised collection procedure. See source for detail.

Source: U.S. Internal Revenue Service, *Statistics of Income, Partnership Returns—1978-1982*, and *Statistics of Income Bulletin*.

**NO. 830. EMPLOYEES AND PAYROLL, BY INDUSTRY: 1975 TO 1985**

INDUSTRY	EMPLOYEES (1,000)					PAYROLL (bil. dol.)				
	1975	1980	1983	1984	1985	1975	1980	1983	1984	1985
<b>All Industries <sup>1</sup></b> .....	<b>60,564</b>	<b>74,836</b>	<b>72,971</b>	<b>77,996</b>	<b>81,119</b>	<b>596</b>	<b>1,039</b>	<b>1,269</b>	<b>1,407</b>	<b>1,514</b>
Agricultural services <sup>2</sup> .....	195	290	325	354	382	2	3	4	5	5
Mining.....	717	996	972	975	843	10	22	27	28	28
Contract construction.....	3,321	4,474	3,765	4,172	4,480	44	76	80	90	98
Manufacturing <sup>3</sup> .....	18,374	21,152	18,232	19,325	19,434	213	357	398	439	458
Transportation <sup>3</sup> .....	3,935	4,631	4,551	4,675	4,816	51	88	108	115	123
Wholesale trade.....	4,353	5,218	5,122	5,388	5,625	52	89	107	120	130
Retail trade.....	12,271	15,045	15,232	16,081	16,852	76	124	151	166	179
Finance and insurance <sup>4</sup> .....	4,263	5,278	5,545	5,783	6,004	42	77	108	118	132
Services.....	12,658	17,195	18,832	20,349	21,543	102	198	277	311	346

<sup>1</sup> Includes nonclassifiable establishments, not shown separately. <sup>2</sup> Includes forestry and fisheries. <sup>3</sup> Includes other public utilities. <sup>4</sup> Includes real estate.

Source: U.S. Bureau of the Census, *County Business Patterns*, annual.

**NO. 831. EMPLOYEES AND PAYROLL, BY EMPLOYMENT-SIZE CLASS: 1975 TO 1985**

[See headnote, table 832]

EMPLOYMENT-SIZE CLASS	Unit	1975	1978	1979	1980	1981	1982	1983	1984	1985
<b>Employees, total</b> .....	<b>1,000</b> .....	<b>80,564</b>	<b>70,289</b>	<b>74,681</b>	<b>74,836</b>	<b>74,850</b>	<b>74,297</b>	<b>72,971</b>	<b>77,996</b>	<b>81,119</b>
Under 20 employees.....	1,000.....	16,393	18,723	19,406	19,423	19,515	19,898	20,136	21,171	21,810
20 to 99 employees.....	1,000.....	16,272	19,612	20,992	21,168	21,231	21,143	20,806	22,449	23,539
100 to 499 employees.....	1,000.....	13,713	16,327	17,527	17,840	17,977	17,444	16,794	18,348	19,410
500 to 999 employees.....	1,000.....	4,872	5,537	5,780	5,689	5,497	5,436	5,186	5,614	5,718
1,000 or more employees.....	1,000.....	9,315	10,090	10,976	10,716	10,830	10,376	10,050	10,413	10,645
<b>Annual payroll</b> .....	<b>Bil. dol</b> .....	<b>596</b>	<b>841</b>	<b>952</b>	<b>1,039</b>	<b>1,150</b>	<b>1,199</b>	<b>1,269</b>	<b>1,407</b>	<b>1,514</b>
Under 20 employees.....	Bil. dol.....	138	190	210	231	254	272	298	326	352
20 to 99 employees.....	Bil. dol.....	147	211	239	261	288	303	319	358	388
100 to 499 employees.....	Bil. dol.....	135	196	224	249	279	286	297	334	362
500 to 999 employees.....	Bil. dol.....	53	74	84	91	99	104	107	120	126
1,000 or more employees.....	Bil. dol.....	123	170	196	208	229	234	248	269	286

Source: U.S. Bureau of the Census, *County Business Patterns*, annual.

**NO. 832. EMPLOYEES AND PAYROLL, BY EMPLOYMENT-SIZE CLASS AND INDUSTRY: 1985**

[Excludes government employees, railroad employees, self-employed persons, etc. See "General Explanation" in source for definitions and statement on reliability of data]

EMPLOYMENT SIZE-CLASS	Unit	All Industries <sup>1</sup>	Agricultural services <sup>2</sup>	Mining	Contract construction	Manufacturing	Transportation <sup>3</sup>	Wholesale trade	Retail trade	Finance and insurance <sup>4</sup>	Services
<b>Employees, total</b> .....	<b>1,000</b> .....	<b>81,119</b>	<b>382</b>	<b>943</b>	<b>4,480</b>	<b>19,434</b>	<b>4,816</b>	<b>5,625</b>	<b>16,852</b>	<b>6,004</b>	<b>21,543</b>
Under 20 employees.....	1,000.....	21,810	220	148	1,803	1,432	804	2,057	6,293	1,774	6,396
20 to 99 employees.....	1,000.....	23,539	100	263	1,530	3,935	1,292	2,199	7,054	1,704	5,307
100 to 499 employees.....	1,000.....	19,410	47	317	781	6,574	1,305	1,036	2,941	1,318	5,092
500 to 999 employees.....	1,000.....	5,716	10	113	136	2,473	439	183	350	408	1,603
1,000 or more employees.....	1,000.....	10,645	5	101	231	5,020	976	151	214	800	3,146
<b>Annual payroll</b> .....	<b>Bil. dol</b> .....	<b>1,514</b>	<b>5.2</b>	<b>28.2</b>	<b>97.8</b>	<b>457.8</b>	<b>122.8</b>	<b>130.5</b>	<b>179.2</b>	<b>131.7</b>	<b>346.2</b>
Under 20 employees.....	Bil. dol.....	352	3.0	3.8	34.1	27.1	15.7	44.4	63.5	34.8	112.6
20 to 99 employees.....	Bil. dol.....	388	1.3	7.0	34.4	77.1	28.9	49.7	72.0	37.0	78.9
100 to 499 employees.....	Bil. dol.....	362	.6	9.9	19.2	137.4	33.8	26.7	34.1	29.5	71.3
500 to 999 employees.....	Bil. dol.....	126	(2)	4.0	3.6	59.2	12.8	5.4	5.3	9.4	25.8
1,000 or more employees.....	Bil. dol.....	286	(2)	3.5	6.6	157.0	31.6	4.4	4.3	21.1	57.7

<sup>2</sup> Less than \$500 million. <sup>1</sup> Includes nonclassifiable establishments not shown separately. <sup>3</sup> Includes forestry and fisheries. <sup>4</sup> Includes other public utilities. <sup>5</sup> Includes real estate.

Source: U.S. Bureau of the Census, *County Business Patterns*, annual.

**No. 833. CONSUMER AND FARMER COOPERATIVES, BY TYPE OF ASSOCIATION: 1970 TO 1985**

[Members in thousands; business in millions of dollars. Business refers to loans outstanding]

TYPE OF ASSOCIATION	1970			1981			1985		
	Associa-tions	Mem-bers	Busi-ness	Associa-tions	Mem-bers	Busi-ness	Associa-tions	Mem-bers	Busi-ness
Credit unions <sup>1</sup> .....	23,658	22,819	14,106	20,697	45,069	50,394	15,045	45,265	74,409
Electric power cooperatives <sup>2</sup> .....	875	5,789	1,195	869	9,028	7,440	868	10,032	11,032
Rural telephone cooperatives <sup>3</sup> .....	235	609	86	264	962	391	250	1,047	607
Independent prepaid and self-insured health plans <sup>4</sup> .....	<sup>a</sup> 482	<sup>a</sup> 12,204	1,068	(NA)	<sup>b</sup> 29,107	<sup>b</sup> 9,353	(NA)	(NA)	(NA)
Farmer cooperatives selling producer and consumer goods <sup>7</sup> .....	6,209	(NA)	3,871	5,009	(NA)	17,059	4,288	(NA)	16,641

NA Not available. <sup>1</sup> Beginning 1985, covers federally insured credit unions. Source: National Credit Union Administration, *Annual Report of the National Credit Union Administration and State Chartered Credit Unions*. <sup>2</sup> Source: U.S. Rural Electrification Administration, *Statistical Report—Rural Electric Borrowers*. <sup>3</sup> Source: U.S. Rural Electrification Administration, *Statistical Report—Rural Telephone Borrowers*. <sup>4</sup> Source: U.S. Health Care Financing Administration, *Health Care Financing Review*, September 1982, and unpublished data. <sup>a</sup> 1968 data. <sup>b</sup> 1979 data. <sup>7</sup> Data for fiscal years ending June 30 or earlier in years shown.

Source: Except as noted, U.S. Dept. of Agriculture, Agricultural Cooperative Service, unpublished data.

**No. 834. INDUSTRIAL AND COMMERCIAL STARTS AND FAILURES—NUMBER AND LIABILITIES:**

1970 TO 1986

[Excludes Hawaii prior to 1975, Alaska prior to 1976. Commercial and industrial failures only through 1983, excluding failures of banks, railroads, real estate, insurance, holding, and financial companies, steamship lines, travel agencies, etc. Data for 1984-86 based on expanded coverage and new methodology and are therefore not generally comparable with earlier data. See also *Historical Statistics, Colonial Times to 1970*, series V 20-30]

YEAR	Total concerns in business <sup>1</sup> (1,000)	Index of net business formations <sup>2</sup> (1967 = 100)	New incorporations <sup>2</sup> (1,000)	FAILURES <sup>3</sup>			YEAR	Total concerns in business <sup>1</sup> (1,000)	Index of net business formations <sup>2</sup> (1967 = 100)	New incorporations <sup>2</sup> (1,000)	FAILURES <sup>3</sup>		
				Number	Rate per 10,000 concerns	Current liabilities <sup>4</sup> (mil. dol.)					Number	Rate per 10,000 concerns	Current liabilities <sup>4</sup> (mil. dol.)
1970.....	2,442	108.8	264	10,748	44	1,888	1982.....	2,806	116.4	567	24,908	88	15,611
1975.....	2,679	109.9	326	11,432	43	4,380	1983.....	2,851	117.5	600	31,334	110	16,073
1980.....	2,780	129.9	534	11,742	42	4,635	1984.....	4,885	121.3	635	52,078	107	29,269
1981.....	2,745	124.8	581	16,794	61	6,955	1985.....	4,990	120.9	662	57,078	115	36,937
							1986, prel.....	5,119	120.4	702	61,232	120	44,046

<sup>1</sup> Data through 1983 represent number of names listed in July issue of *Dun & Bradstreet Reference Book*. Data for 1984-86 represent the number of establishments listed in the Dun's Census of American Business. The base has been changed due to expanded business failure coverage. <sup>2</sup> Source: U.S. Bureau of Economic Analysis, *Business Conditions Digest*, June issues.

<sup>3</sup> Includes concerns discontinued following assignment, voluntary or involuntary petition in bankruptcy, attachment, execution, foreclosure, etc.; voluntary withdrawals from business with known loss to creditors; also enterprises involved in court action, such as receivership and reorganization or arrangement which may or may not lead to discontinuance; and businesses making voluntary compromise with creditors out of court. <sup>4</sup> Liabilities exclude long-term publicly held obligations; offsetting assets are not taken into account.

**No. 835. NEW BUSINESS INCORPORATIONS AND NUMBER OF FAILURES, BY STATE: 1985 AND 1986**

[1986 preliminary. Business incorporations in thousands. See headnote, table 834]

DIVISION AND STATE	NEW BUSINESS INCORPORATIONS		NUMBER OF FAILURES		DIVISION AND STATE	NEW BUSINESS INCORPORATIONS		NUMBER OF FAILURES		DIVISION AND STATE	NEW BUSINESS INCORPORATIONS		NUMBER OF FAILURES	
	1985	1986	1985	1986		1985	1986	1985	1986		1985	1986	1985	1986
U.S.....	662.0	702.1	57,253	61,232	W.N.C.-									
					Con.									
N.E.....	37.9	42.0	1,228	1,115	MO.....	10.2	11.2	1,247	1,622	W.S.C.-	66.2	63.9	7,943	12,704
ME.....	2.6	3.1	80	59	ND.....	.9	.9	94	98	AR.....	5.3	5.8	622	372
NH.....	3.5	3.9	61	54	SD.....	.9	1.0	145	150	LA.....	11.4	11.7	1,383	1,824
VT.....	1.7	1.8	38	30	NE.....	2.6	2.6	487	365	OK.....	8.1	7.6	1,030	2,834
MA.....	15.8	17.3	683	733	KS.....	4.8	4.4	1,583	1,672	TX.....	41.4	38.8	4,908	7,674
RI.....	3.1	3.5	60	37	S.A.....	168.3	183.1	6,555	6,255	Mt.....	46.4	48.5	5,359	5,894
CT.....	11.2	12.5	308	202	DE.....	26.6	31.5	46	46	MT.....	1.4	1.5	194	184
M.A.....	120.3	130.2	4,498	3,980	MD.....	14.2	16.0	450	462	ID.....	1.6	1.8	203	311
NY.....	72.1	76.9	1,851	1,510	DC.....	2.2	2.3	60	69	WY.....	1.0	1.0	274	281
NJ.....	30.5	33.1	990	907	VA.....	15.0	16.7	991	684	CO.....	14.2	15.9	2,694	3,254
PA.....	17.7	20.2	1,657	1,563	WV.....	2.5	2.6	367	225	NM.....	2.8	2.5	358	269
E.N.C.-	81.5	85.4	9,995	9,589	NC.....	11.8	12.7	665	583	AZ.....	12.9	12.5	693	664
OH.....	17.2	18.4	2,456	2,057	SC.....	7.1	6.2	230	284	UT.....	3.7	3.9	576	571
IN.....	9.9	10.7	1,245	1,095	GA.....	17.3	17.6	952	606	NV.....	8.7	9.5	967	260
IL.....	26.1	27.0	3,402	3,277	FL.....	71.6	77.6	2,794	3,016	Pac.....	82.8	88.0	13,507	13,507
MI.....	21.9	22.9	1,465	1,609	E.S.C.-	25.9	27.0	3,278	2,983	WA.....	8.4	9.0	1,837	1,774
WI.....	6.4	6.5	1,427	1,561	KY.....	7.9	7.7	983	947	OR.....	7.2	7.3	1,151	1,001
W.N.C.-	32.7	34.0	4,892	5,205	TN.....	8.7	9.3	1,217	1,166	CA.....	61.2	67.2	10,286	10,160
MN.....	9.2	9.7	506	635	AL.....	6.1	6.8	608	369	AK.....	2.1	1.7	173	289
IA.....	4.1	4.2	830	663	MS.....	3.2	3.1	468	501	HI.....	3.0	2.8	250	283

Source of tables 834 and 835: Except as noted, Dun & Bradstreet Corporation, New York, NY, *The Failure Record Through 1986 and Monthly Failure Report*.

**NO. 836. BUSINESS FAILURES BY INDUSTRY SECTOR: 1984 TO 1986**

[Data based on expanded coverage and new methodology and are therefore not directly comparable with data prior to 1984. See section 16 for bank failures]

INDUSTRY	1984	1985	1986, prel.	INDUSTRY	1984	1985	1986, prel.
<b>Total</b> .....	<b>52,078</b>	<b>57,253</b>	<b>61,232</b>	Wholesale trade.....	4,882	4,836	4,815
Agricultural, forestry and fishing.....	1,988	2,699	2,622	Retail trade.....	13,787	13,494	13,524
Mining.....	744	796	911	Finance, insurance, real estate.....	2,392	2,676	2,771
Construction.....	6,936	7,005	7,037	Services.....	12,787	16,649	20,912
Manufacturing.....	5,015	4,869	4,740	Public administration.....	16	12	20
Transportation and public utilities.....	2,285	2,536	2,552	Unclassifiable establishments.....	1,246	1,681	1,328

Source: Dun & Bradstreet Corporation, New York, NY, *Monthly Failure Report*.

**NO. 837. BANKRUPTCY PETITIONS FILED, BY TYPE AND CHAPTER: 1975 TO 1986**

[For years ending June 30]

ITEM	1975	1978	1979	1980 <sup>1</sup>	1981	1982	1983	1984	1985	1986
<b>Total</b> .....	<b>254,484</b>	<b>202,951</b>	<b>226,476</b>	<b>277,880</b>	<b>360,329</b>	<b>367,866</b>	<b>374,734</b>	<b>344,275</b>	<b>384,536</b>	<b>477,856</b>
Business.....	30,130	30,528	29,500	36,449	47,415	56,423	69,818	62,170	66,651	76,281
Non-business.....	224,354	172,423	196,976	241,431	312,914	311,443	304,916	282,105	297,885	401,575
Voluntary.....	253,198	201,944	228,549	276,681	359,997	366,331	373,064	342,828	362,939	476,214
Involuntary.....	1,286	1,007	927	1,189	1,332	1,535	1,870	1,447	1,597	1,642
Chapter 7 <sup>3</sup> .....	209,330	168,771	183,259	214,357	265,721	255,098	251,322	232,994	244,650	332,679
Chapter 9 <sup>4</sup> .....	-	2	1	-	1	4	9	4	3	7
Chapter 11 <sup>5</sup> .....	3,506	3,266	3,042	5,302	7,828	14,059	21,207	19,913	21,425	24,443
Chapter 13 <sup>6</sup> .....	41,178	30,185	39,442	58,216	66,778	98,705	102,201	81,358	98,452	120,726
Section 304 <sup>7</sup> .....	(X)	(X)	(X)	5	1	-	1	6	6	1

- Represents zero. X Not applicable. <sup>1</sup> For the first three months of 1980 the judiciary operated under the Bankruptcy Act and for the last nine months under the new bankruptcy code established by the Bankruptcy Reform Act of 1978. Includes only those petitions filed under the new bankruptcy code. <sup>2</sup> Includes five Section 304 cases filed under the Reform Act in 1980 and 1 in 1981 which are not included in the subcategories of voluntary/involuntary. <sup>3</sup> Chapter 7, liquidation of non-exempt assets of businesses or individuals. <sup>4</sup> Chapter 9, adjustment of debts of a municipality. <sup>5</sup> Chapter 11, individual or business reorganization. <sup>6</sup> Chapter 13, adjustment of debts of an individual with regular income. <sup>7</sup> 11 U.S.C., Section 304, cases ancillary to foreign proceedings.

**NO. 838. BANKRUPTCY PETITIONS FILED AND PENDING: 1905 TO 1986**

[In thousands. For fiscal years ending in year shown; see text, section 9. Covers all U.S. bankruptcy courts. Bankruptcy petitions "Filed" means the commencement of a proceeding through the presentation of a petition to the clerk of the bankruptcy court; "Pending" is a proceeding in which the administration has not been completed]

YEAR	Filed	Pending									
1905.....	17	28	1935.....	69	65	1965.....	180	162	1983.....	375	537
1910.....	18	28	1940.....	53	55	1970.....	194	191	1984.....	344	578
1915.....	28	44	1945.....	13	21	1975.....	254	202	1985.....	365	609
1920.....	14	30	1950.....	33	38	1980.....	278	346	1986.....	478	729
1925.....	46	60	1955.....	59	56	1981.....	360	362			
1930.....	63	61	1960.....	110	95	1982.....	368	461			

Source of tables 837 and 838: Administrative Office of the U.S. Court, *Annual Report of the Director*.

**NO. 839. SMALL BUSINESS BIRTH, DEATH, AND NET GROWTH RATES: 1976 TO 1984**

[Represents any concern which, including its affiliates, is independently owned and operated, not dominant in the industry in which the procurement is classified, and can further qualify under the criteria set forth in Small Business Administration's Rules and Regulations, see source for details]

ITEM	Birth rate <sup>1</sup>	Death rate <sup>2</sup>	Net growth	ITEM	Birth rate <sup>1</sup>	Death rate <sup>2</sup>	Net growth
<b>All Industries: 1976-1978</b> .....	13.0	9.6	3.3	Wholesale trade: 1976-1978.....	11.0	8.0	3.0
1978-1980.....	10.6	10.8	-2.2	1978-1980.....	9.6	8.5	1.1
1980-1982.....	11.1	9.6	1.6	1980-1982.....	10.4	8.3	2.1
1982-1984.....	11.2	9.3	2.4	1982-1984.....	10.9	8.4	2.6
<b>Construction: 1976-1978</b> .....	12.8	10.2	2.6	Retail trade: 1976-1978.....	11.3	11.9	-0.6
1978-1980.....	10.1	11.5	-1.4	1978-1980.....	9.7	11.4	-1.7
1980-1982.....	10.1	9.9	.3	1980-1982.....	10.1	10.3	-0.2
1982-1984.....	12.5	10.4	2.0	1982-1984.....	10.5	10.2	.3
<b>Manufacturing: 1976-1978</b> .....	9.9	8.2	1.7	Services: 1976-1978.....	17.1	7.9	9.3
1978-1980.....	9.5	8.2	1.3	1978-1980.....	12.7	11.5	1.2
1980-1982.....	9.0	8.2	.8	1980-1982.....	13.8	9.5	4.4
1982-1984.....	9.6	8.1	1.5	1982-1984.....	13.8	8.9	4.9

<sup>1</sup> Business births represents the number of establishments formed during a specified period; also, the appearance of a new establishment or enterprise in the Small Business Data Base (SBDB). <sup>2</sup> Business deaths represent the disappearance of an establishment or enterprise from the SBDB for financial or nonfinancial reasons.

Source: U.S. Small Business Administration, Office of Advocacy, Small Business Data Base, USELM file, version 6, March 1987.

**NO. 840. WOMEN-OWNED AND MINORITY-OWNED FIRMS—NUMBER AND RECEIPTS FOR TEN LARGEST SMSA'S AND INDUSTRIES BY TYPE OF OWNERSHIP: 1982**  
 [Represents standard metropolitan statistical areas (SMSA's) established by the Office of Management and Budget, as of January 1, 1982. See Appendix II for newly defined metropolitan statistical areas and definition. The number enclosed within parentheses is the 2 digit Standard Industrial Classification for that industry]

SMSA AND INDUSTRY GROUP	WOMEN-OWNED		BLACK-OWNED		SMSA AND INDUSTRY GROUP		HISPANIC-OWNED		ASIAN- AND OTHER-OWNED	
	Num-ber of firms	Re-ceipts (mil. dol.)	Num-ber of firms	Re-ceipts (mil. dol.)	SMSA AND INDUSTRY GROUP	Num-ber of firms	Re-ceipts (mil. dol.)	Num-ber of firms	Re-ceipts (mil. dol.)	
Los Angeles-Long Beach, CA.....	117,468	3,789	23,520	775	Los Angeles-Long Beach, CA.....	29,992	1,717	38,371	2,956	
New York, NY-NJ.....	101,223	5,321	20,242	725	Miami, FL.....	21,998	2,236	21,676	2,158	
Chicago, IL.....	88,277	2,958	18,805	556	New York, NY-NJ.....	12,292	882	19,556	1,456	
San Francisco-Oakland, CA.....	64,413	1,940	13,660	334	San Antonio, TX.....	1,341	552	15,885	916	
Dallas-Fort Worth, TX.....	56,448	1,956	12,206	328	Houston, TX.....	9,276	441	8,553	491	
Washington, DC-MD-VA.....	51,015	1,305	9,368	390	San Francisco-Oakland, CA.....	7,649	418	8,096	441	
Houston, TX.....	48,694	1,710	8,731	369	El Paso, TX.....	5,994	402	7,370	393	
Philadelphia, PA-NJ.....	42,630	1,654	8,581	354	McAllen-Pharr-Edinburg, TX.....	5,766	692	6,569	397	
Detroit, MI.....	40,176	1,300	7,825	210	Anaheim-Santa Ana-Garden Grove, CA.....	5,317	306	5,679	289	
Denver-Boulder, CO.....	37,916	1,053	7,077	336	Riverside-San Bernardino-Ontario, CA.....	5,218	272	4,482	216	
INDUSTRY					INDUSTRY					
Eating and drinking places (58).....	66,811	6,684	3,448	1,307	Automotive dealers and service stations (55).....	3,746	1,309	10,281	2,504	
Food stores (54).....	37,635	6,047	53,981	393	Wholesale trade—nondurable goods (51).....	2,279	1,286	17,028	1,922	
Personal services (72).....	419,113	5,500	9,187	883	Food stores (54).....	10,791	1,076	36,577	1,467	
Wholesale trade—nondurable goods (50).....	22,231	5,297	11,629	675	Eating and drinking places (58).....	22,017	1,042	20,063	1,446	
Automotive dealers and service stations (55).....	14,353	4,754	17,195	595	Special trade contractors (17).....	8,401	579	2,459	1,004	
Real estate (65).....	225,551	4,733	18,399	578	Health services (80).....	1,343	531	4,925	643	
Health services (80).....	128,389	3,989	40,394	561	Wholesale trade—durable goods (50).....	9,201	419	2,660	638	
Wholesale trade—durable goods (50).....	12,021	3,893	2,441	550	Trucking and warehousing (42).....	22,382	410	20,129	498	
Special trade contractors (17).....	47,219	2,497	13,028	500	Auto repair, services, and garages (75).....	6,873	363	9,915	490	
Apparel and accessory stores (56).....	29,130	2,446	1,210	309	Wholesale trade—durable goods (50).....			1,574	365	

Source: Bureau of the Census, 1982 Survey of Minority-Owned Business Enterprises, series MB82-1, MB82-2, MB82-3, and 1982 Survey of Women-Owned Businesses, series WB82-1.

**NO. 841. SMALL AND MINORITY-OWNED BUSINESS—FEDERAL CONTRACT AWARDS, BY STATE:  
1984 AND 1985**

[In millions of dollars, except percent. Excludes Guam and Puerto Rico. Represents contract awards of \$10,000 or more. Minus sign (-) indicates decrease]

REGION, DIVISION, AND STATE	TOTAL CONTRACTS AWARDED			SMALL BUSINESS SHARE				MINORITY-OWNED SHARE			
	1984	1985	Per- cent change 1984- 1985	1984	1985		Per- cent change 1984- 1985	1984	1985		Per- cent change 1984- 1985
					Amount	Per- cent of total			Amount	Per- cent of total	
<b>U.S.</b> .....	<b>157,226</b>	<b>176,526</b>	<b>22.9</b>	<b>24,643</b>	<b>26,494</b>	<b>15.0</b>	<b>6.7</b>	<b>3,665</b>	<b>3,718</b>	<b>2.1</b>	<b>-3.8</b>
<b>Region:</b>											
Northwest.....	34,379	37,279	8.4	4,380	4,705	12.6	7.4	494	471	1.3	-4.7
Midwest.....	26,307	31,603	20.1	4,272	4,739	15.0	10.9	462	548	1.7	18.6
South.....	47,362	54,703	15.5	10,163	10,563	19.3	3.9	1,898	1,583	2.9	-16.6
West.....	49,178	52,941	7.7	6,027	6,487	12.3	7.6	1,012	1,116	2.1	10.3
<b>New England.....</b>	<b>15,309</b>	<b>16,688</b>	<b>9.0</b>	<b>1,253</b>	<b>1,512</b>	<b>9.1</b>	<b>20.7</b>	<b>126</b>	<b>122</b>	<b>2.7</b>	<b>-3.2</b>
Maine.....	587	701	76.5	119	105	10.5	-11.8	20	8	.8	-80.0
New Hampshire.....	699	747	6.8	49	88	11.8	79.6	2	3	.4	50.0
Vermont.....	188	179	-4.8	29	18	10.1	-21.7	1	1	.6	-
Massachusetts.....	7,507	8,277	10.3	662	730	8.8	10.3	82	70	2.7	-14.5
Rhode Island.....	427	462	8.2	108	154	33.3	42.6	2	2	.4	-
Connecticut.....	5,922	6,022	1.7	293	417	6.9	42.3	19	38	6	100.0
<b>Middle Atlantic.....</b>	<b>19,071</b>	<b>20,591</b>	<b>8.0</b>	<b>3,127</b>	<b>3,193</b>	<b>15.5</b>	<b>2.1</b>	<b>368</b>	<b>349</b>	<b>1.7</b>	<b>-5.2</b>
New York.....	10,742	11,216	4.4	1,379	1,287	11.6	-6.0	179	171	1.5	-4.5
New Jersey.....	4,090	4,441	8.6	809	883	19.9	9.2	82	77	1.7	-6.1
Pennsylvania.....	4,239	4,934	16.4	939	1,013	20.5	7.9	107	101	2.0	-5.6
<b>East North Central ...</b>	<b>13,091</b>	<b>16,750</b>	<b>28.0</b>	<b>2,929</b>	<b>3,357</b>	<b>20.0</b>	<b>14.6</b>	<b>229</b>	<b>300</b>	<b>2.0</b>	<b>44.1</b>
Ohio.....	4,141	5,895	42.4	792	878	14.9	10.9	97	159	2.7	63.9
Indiana.....	2,651	3,428	29.3	330	413	12.0	25.2	34	24	.7	-29.4
Illinois.....	2,318	2,670	15.2	590	719	26.9	21.9	69	107	4.0	55.1
Michigan.....	2,708	3,265	20.6	437	492	15.1	12.6	13	31	9	138.5
Wisconsin.....	1,273	1,492	17.2	781	855	57.3	9.5	15	9	.6	-40.0
<b>West North Central ..</b>	<b>13,215</b>	<b>14,853</b>	<b>12.4</b>	<b>1,343</b>	<b>1,382</b>	<b>9.3</b>	<b>2.9</b>	<b>232</b>	<b>216</b>	<b>1.5</b>	<b>-6.0</b>
Minnesota.....	2,211	2,572	16.3	172	180	7.0	4.7	6	12	.5	100.0
Iowa.....	521	696	33.6	85	74	10.6	-12.9	12	11	1.6	-8.3
Missouri.....	7,321	8,535	16.6	485	514	6.0	3.8	44	45	.5	2.3
North Dakota.....	235	260	10.7	167	137	52.7	-18.0	108	62	31.5	-24.1
South Dakota.....	124	145	16.9	63	71	49.0	12.7	21	20	1.8	-4.8
Nebraska.....	344	376	9.9	146	139	36.8	-4.8	7	10	2.6	42.9
Kansas.....	2,460	2,267	-7.9	215	267	11.8	24.2	34	38	1.7	11.8
<b>South Atlantic.....</b>	<b>24,979</b>	<b>31,023</b>	<b>24.2</b>	<b>5,528</b>	<b>6,506</b>	<b>21.0</b>	<b>17.7</b>	<b>1,144</b>	<b>1,094</b>	<b>3.5</b>	<b>-4.4</b>
Delaware.....	242	285	17.8	29	45	15.8	55.2	3	3	1.1	-
Maryland.....	5,515	6,856	24.3	1,046	1,253	18.3	19.8	372	301	4.4	-19.1
District of Columbia.....	1,942	2,146	10.5	499	640	29.8	28.3	184	243	11.3	32.1
Virginia.....	5,848	7,747	32.5	1,722	1,903	24.6	10.5	379	333	4.3	-12.1
West Virginia.....	217	208	-4.2	76	72	34.6	-5.3	3	6	3.8	166.7
North Carolina.....	1,126	1,357	20.5	430	474	34.9	10.2	43	34	2.5	-20.9
South Carolina.....	1,588	1,907	20.0	303	365	19.1	20.5	35	45	2.4	28.6
Georgia.....	3,304	3,832	16.0	450	633	16.5	40.7	55	52	1.4	-5.5
Florida.....	5,198	6,685	28.6	973	1,121	16.8	15.2	70	75	1.1	7.1
<b>East South Central...</b>	<b>8,344</b>	<b>7,180</b>	<b>-14.0</b>	<b>2,072</b>	<b>1,465</b>	<b>20.4</b>	<b>-29.3</b>	<b>404</b>	<b>175</b>	<b>2.4</b>	<b>-56.7</b>
Kentucky.....	1,003	1,023	2.0	604	304	29.7	-49.7	189	44	4.3	-76.7
Tennessee.....	3,324	2,767	-16.8	702	217	7.8	-69.1	98	-5	(x)	(x)
Alabama.....	1,622	1,935	19.3	557	647	33.4	16.2	93	103	5.3	10.8
Mississippi.....	2,396	1,455	-39.3	209	297	20.4	42.1	25	33	2.3	32.0
<b>West South Central...</b>	<b>14,039</b>	<b>16,500</b>	<b>17.5</b>	<b>2,564</b>	<b>2,592</b>	<b>15.7</b>	<b>1.1</b>	<b>350</b>	<b>314</b>	<b>1.9</b>	<b>-10.3</b>
Arkansas.....	775	896	14.2	142	165	18.6	16.2	15	10	1.1	-23.1
Louisiana.....	2,502	2,871	14.8	482	444	15.5	-7.9	28	53	1.8	69.3
Oklahoma.....	689	764	10.9	360	340	44.5	-5.6	60	71	9.3	18.3
Texas.....	10,071	11,979	19.0	1,580	1,643	13.7	4.0	250	180	1.5	-28.0
<b>Mountain.....</b>	<b>9,593</b>	<b>10,875</b>	<b>13.4</b>	<b>1,404</b>	<b>1,669</b>	<b>15.3</b>	<b>18.9</b>	<b>252</b>	<b>329</b>	<b>3.0</b>	<b>30.6</b>
Montana.....	157	184	17.2	117	139	75.5	18.8	37	37	20.1	-
Idaho.....	440	509	15.7	74	74	14.5	-	8	7	1.4	-12.5
Wyoming.....	145	199	37.2	62	108	54.3	107.7	3	2	1.0	-33.3
Colorado.....	2,073	2,750	32.7	339	481	17.5	41.9	45	95	3.5	111.1
New Mexico.....	2,375	2,576	8.5	231	270	10.5	16.9	50	90	3.5	80.0
Arizona.....	2,237	2,488	11.2	321	303	12.2	-5.6	61	54	2.2	-11.5
Utah.....	1,375	1,267	-7.9	197	217	17.1	10.2	26	26	2.1	-
Nevada.....	792	902	13.9	72	77	8.5	6.9	22	18	2.0	-18.2
<b>Pacific.....</b>	<b>39,585</b>	<b>42,066</b>	<b>6.3</b>	<b>4,623</b>	<b>4,818</b>	<b>11.5</b>	<b>4.2</b>	<b>760</b>	<b>787</b>	<b>1.9</b>	<b>3.6</b>
Washington.....	4,104	5,036	22.7	498	479	9.5	-3.8	81	70	1.4	-13.6
Oregon.....	406	441	8.6	200	213	48.3	6.5	16	20	4.5	25.0
California.....	33,816	35,213	3.8	3,405	3,503	9.9	2.9	515	537	1.5	4.3
Alaska.....	588	718	22.1	246	350	48.7	42.3	24	25	3.5	4.2
Hawaii.....	571	658	15.2	274	273	41.5	-4	124	135	20.5	8.9

- Represents zero. X Not applicable.

Source: U.S. Small Business Administration, *The State of Small Business: A Report of the President*, annual. Data from Federal Procurement Data Center, "Special Report J6374A," May 16, 1985.

## NO. 842. MERGERS AND ACQUISITIONS—HISTORICAL SUMMARY: 1965 TO 1986

ITEM	Unit	1965	1970	1980	1981	1982	1983	1984	1985	1986
Mergers and acquisitions, net <sup>1</sup>	Number	2,125	5,152	1,889	2,395	2,346	2,533	2,543	3,001	3,336
Dollar value paid	Bil. dol.	(NA)	16.4	44.3	82.6	53.8	73.1	122.2	179.8	173.1
\$100 million-plus deals	Number	(NA)	10	94	113	116	138	200	270	346
Method of payment:										
Cash	Percent	67	29	47	42	38	32	43	51	42
Stock	Percent	30	52	31	34	29	35	26	23	32
Combination	Percent	3	16	21	23	31	33	30	26	26
Debt	Percent	( <sup>2</sup> )	3	1	1	2	-	1	-	-
Divestitures	Number	191	1,401	666	830	875	932	900	1,218	1,259
Acquisitions of publicly traded sellers	Number	(NA)	(NA)	173	168	180	190	211	336	386
Acquisitions of privately held sellers	Number	(NA)	(NA)	988	1,330	1,222	1,316	1,351	1,358	1,598
Foreign sellers, total	Number	(NA)	(NA)	102	101	121	146	147	175	180
Foreign buyers, total	Number	(NA)	(NA)	187	294	154	125	151	197	264
Average P/E paid	Percent	19.4	23.1	15.2	15.6	13.9	12.7	16.7	17.2	18.0
Average premium paid over market	Percent	(NA)	33.4	49.9	48.0	47.4	37.7	37.9	37.1	38.2
Cancelled transactions	Number	(NA)	527	178	163	189	162	218	236	199

- Represents zero. NA Not available. <sup>1</sup> Represents announcement. <sup>2</sup> A separate count for debt payments began in 1970.

## NO. 843. MERGER AND ACQUISITION TRANSACTIONS—NUMBER AND VALUE, BY INDUSTRY: 1982 TO 1986

[Represents transactions for which valuation data are publicly reported]

INDUSTRY CLASSIFICATION OF SELLER	NUMBER OF MERGERS					NOMINAL VALUE (mil. dol.)				
	1982	1983	1984	1985	1986	1982	1983	1984	1985	1986
<b>Total</b>	<b>2,346</b>	<b>2,533</b>	<b>2,543</b>	<b>3,001</b>	<b>3,336</b>	<b>53,755</b>	<b>73,081</b>	<b>122,224</b>	<b>179,768</b>	<b>173,137</b>
Oil and gas	80	111	102	86	58	9,166	12,076	42,982	23,160	3,247
Banking and finance	426	331	251	381	415	5,605	13,628	5,846	14,037	19,442
Insurance	31	67	66	67	94	5,718	2,966	3,006	2,694	5,413
Mining and minerals	31	18	12	16	14	3,075	1,164	7,093	11,838	4,707
Food processing	52	74	58	82	101	3,974	2,745	6,983	16,302	15,307
Conglomerate	14	13	18	14	20	3,974	2,745	6,983	16,302	15,307
Transportation	40	36	36	48	58	1,074	5,255	1,262	2,877	6,829
Broadcasting	47	60	83	93	123	797	3,747	1,918	15,013	8,107
Retail	86	90	130	136	147	1,948	1,489	6,673	10,030	13,683
Brokerage and investment firms	56	63	88	49	47	861	1,455	1,460	579	1,710
Other	1,433	1,670	1,701	2,029	2,259	21,191	25,609	44,662	82,882	94,544

Source of tables 842 and 843: W.T. Grimm & Co., Chicago, IL, *Mergerstat Review, 1986*. (Copyright.)

## NO. 844. WORKING CAPITAL OF NONFINANCIAL CORPORATIONS: 1975 TO 1985

[In billions of dollars, except ratios. As of December 31. Covers all nonfinancial U.S. corporations]

ITEM	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
<b>Current assets</b>	<b>756.3</b>	<b>823.1</b>	<b>900.9</b>	<b>1,028.1</b>	<b>1,200.9</b>	<b>1,281.6</b>	<b>1,374.5</b>	<b>1,425.4</b>	<b>1,557.3</b>	<b>1,703.0</b>	<b>1,778.5</b>
Cash on hand and in banks <sup>1</sup>	80.0	86.8	94.3	103.7	116.1	121.0	126.6	144.1	165.8	173.6	188.0
U.S. Government securities	19.6	26.0	18.7	17.8	15.6	17.3	19.2	22.4	30.6	36.2	32.3
Receivables, total <sup>2</sup>	272.1	292.4	325.0	381.9	456.8	491.2	526.0	511.0	577.8	633.1	671.2
Inventories	314.7	341.4	375.6	428.3	501.7	525.4	560.2	575.2	599.3	656.9	663.9
Other current assets	69.9	76.4	67.3	96.3	110.7	126.7	140.5	172.7	183.7	203.2	223.2
<b>Current liabilities</b>	<b>446.9</b>	<b>487.5</b>	<b>546.8</b>	<b>661.9</b>	<b>809.1</b>	<b>877.2</b>	<b>923.2</b>	<b>977.8</b>	<b>1,043.0</b>	<b>1,163.6</b>	<b>1,232.7</b>
Payables	281.2	273.2	313.7	375.1	456.3	498.3	520.4	552.8	577.9	647.8	683.1
Other current liabilities	185.7	214.2	233.1	286.8	352.8	378.9	402.9	425.0	465.1	515.8	549.7
<b>Net working capital</b>	<b>309.5</b>	<b>335.6</b>	<b>354.1</b>	<b>366.2</b>	<b>391.8</b>	<b>404.4</b>	<b>451.3</b>	<b>447.6</b>	<b>514.3</b>	<b>539.5</b>	<b>545.7</b>
Liquidity ratio <sup>3</sup>	.379	.368	.366	.329	.300	.302	.310	.347	.365	.355	.360
Current ratio <sup>4</sup>	1.693	1.688	1.648	1.553	1.464	1.461	1.489	1.458	1.493	1.464	1.443

<sup>1</sup> Includes time certificates of deposits. <sup>2</sup> Includes U.S. Government receivables. <sup>3</sup> Cash plus U.S. Government securities plus "other current assets," divided by "current liabilities." <sup>4</sup> "Current assets" divided by "current liabilities."

Source: Through 1981, U.S. Federal Trade Commission, thereafter, U.S. Bureau of the Census. Published quarterly in Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*.

## No. 845. NONFINANCIAL CORPORATE BUSINESS-SECTOR BALANCE SHEET: 1970 to 1986

[In billions of dollars. Represents year-end outstandings]

ITEM	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986, prel.
<b>Total assets</b> .....	<b>1,305</b>	<b>2,209</b>	<b>2,676</b>	<b>3,075</b>	<b>3,507</b>	<b>3,983</b>	<b>4,424</b>	<b>4,582</b>	<b>4,839</b>	<b>5,160</b>	<b>5,407</b>	<b>5,604</b>
Tangible assets (current cost).....	935	1,652	2,004	2,311	2,618	2,988	3,362	3,505	3,645	3,876	4,030	4,138
Reproducible.....	823	1,487	1,803	2,076	2,352	2,671	2,993	3,107	3,220	3,413	3,536	3,609
Land.....	112	164	201	235	287	318	370	399	425	463	494	529
Financial assets.....	370	558	672	764	889	994	1,061	1,077	1,194	1,285	1,376	1,456
Liquid assets.....	69	125	143	159	178	196	214	248	303	324	340	389
Demand deposits and currency.....	44	54	59	58	60	63	58	65	69	74	78	82
Time deposits.....	5	22	29	31	36	40	55	65	82	92	99	112
Consumer credit.....	11	16	19	21	22	22	24	24	28	31	35	36
Trade credit.....	195	256	311	367	437	486	509	499	555	602	637	643
Miscellaneous assets.....	94	160	198	217	251	290	314	311	308	327	365	399
<b>Total liabilities</b> .....	<b>541</b>	<b>787</b>	<b>925</b>	<b>1,071</b>	<b>1,234</b>	<b>1,379</b>	<b>1,534</b>	<b>1,610</b>	<b>1,732</b>	<b>1,988</b>	<b>2,206</b>	<b>2,405</b>
Credit market instruments.....	354	545	657	740	835	914	1,019	1,089	1,151	1,345	1,514	1,686
Profit taxes payable.....	11	14	20	25	27	25	19	4	10	11	9	10
Trade debt.....	162	180	213	264	317	356	387	392	433	467	500	501
Foreign direct investment in U.S.....	13	28	35	42	54	83	109	125	137	165	183	198
<b>Net worth</b> .....	<b>764</b>	<b>1,442</b>	<b>1,751</b>	<b>2,004</b>	<b>2,273</b>	<b>2,604</b>	<b>2,890</b>	<b>2,972</b>	<b>3,107</b>	<b>3,173</b>	<b>3,200</b>	<b>3,199</b>

Source: Board of Governors of the Federal Reserve System, *Balance Sheets for U.S. Economy*.

## No. 846. CORPORATION INCOME TAX RETURNS—SELECTED BALANCE SHEET, INCOME STATEMENT, AND TAX ITEMS: 1970 TO 1984

[In billions of dollars, except number of returns. Federal returns and active corporations only. All corporations are required to file returns except those specifically exempt. See source for changes in law affecting comparability of historical data. Based on samples; see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series Y 381-392]

ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984	
<b>Number of returns, total (1,000)</b> .....	<b>1,665</b>	<b>2,024</b>	<b>2,377</b>	<b>2,578</b>	<b>2,711</b>	<b>2,812</b>	<b>2,926</b>	<b>2,999</b>	<b>3,171</b>	
Number with net income (1,000).....	1,008	1,226	1,524	1,599	1,597	1,597	1,608	1,676	1,778	
Small Business Corporation returns (1,000).....	257	358	479	519	545	541	564	648	701	
<b>BALANCE SHEET</b>										
<b>Assets, total</b> <sup>1</sup> .....	<b>2,635</b>	<b>4,287</b>	<b>6,014</b>	<b>6,845</b>	<b>7,617</b>	<b>8,547</b>	<b>9,358</b>	<b>10,201</b>	<b>11,107</b>	
Depreciable assets.....	869	1,277	1,696	1,897	2,107	2,353	2,583	2,730	2,913	
Notes and accounts receivable.....	615	1,052	1,589	1,817	1,995	2,240	2,420	2,677	2,897	
Mortgage and real estate.....	328	548	762	841	894	934	942	982	1,127	
Investments in Government obligations.....	197	316	404	421	472	515	606	685	726	
Inventories.....	190	318	443	504	535	588	581	599	664	
Cash.....	177	280	413	462	529	533	541	590	596	
Land.....	47	67	80	85	93	102	110	119	128	
Depletable assets.....	19	39	45	58	72	84	95	108	115	
<b>Liabilities</b> <sup>1</sup> .....	<b>2,635</b>	<b>4,287</b>	<b>6,014</b>	<b>6,835</b>	<b>7,617</b>	<b>8,547</b>	<b>9,358</b>	<b>10,201</b>	<b>11,107</b>	
Mortgages, notes, and bonds <sup>2</sup> .....	363	587	780	885	987	1,058	1,224	1,323	1,494	
Retained earnings <sup>3</sup> .....	386	568	836	959	1,070	1,170	1,228	1,274	1,308	
Paid-in or capital surplus.....	197	299	382	448	532	671	782	874	1,066	
Capital stock.....	201	252	309	353	417	533	658	787	839	
Mortgages, notes, and bonds <sup>4</sup> .....	171	272	381	452	505	586	667	780	867	
Accounts payable.....	149	263	404	483	542	620	679	671	741	
<b>Net worth</b> .....	<b>752</b>	<b>1,097</b>	<b>1,495</b>	<b>1,720</b>	<b>1,944</b>	<b>2,244</b>	<b>2,470</b>	<b>2,645</b>	<b>2,884</b>	
<b>INCOME STATEMENT</b>										
<b>Receipts, total</b> <sup>1</sup> .....	<b>1,751</b>	<b>3,199</b>	<b>4,715</b>	<b>5,616</b>	<b>6,361</b>	<b>7,026</b>	<b>7,024</b>	<b>7,135</b>	<b>7,861</b>	
Business receipts.....	1,621	2,962	4,354	5,153	5,732	6,245	6,157	6,335	6,948	
Interest <sup>5</sup> .....	72	143	220	289	367	494	530	511	580	
Rents and royalties.....	17	27	38	40	54	68	83	83	90	
<b>Deductions, total</b> <sup>1</sup> .....	<b>1,683</b>	<b>3,053</b>	<b>4,467</b>	<b>5,332</b>	<b>6,125</b>	<b>6,814</b>	<b>6,669</b>	<b>6,945</b>	<b>7,629</b>	
Cost of sales and operations.....	1,146	2,130	3,113	3,722	4,205	4,509	4,281	4,308	4,693	
Interest paid.....	62	129	192	262	345	477	515	475	536	
Depreciation.....	53	86	121	138	157	186	213	241	265	
Taxes paid.....	50	82	116	128	163	170	166	173	192	
Compensation of officers.....	33	58	85	97	109	120	129	105	117	
Rent paid on business property.....	24	41	58	64	72	82	95	103	119	
Repairs.....	14	23	34	39	42	70	73	75	76	
Advertising.....	18	27	41	46	52	60	65	72	82	
Employee benefit programs.....	7	16	27	34	40	46	52	54	65	
Pension, profit-sharing, stock bonus, and annuity plans.....	12	27	42	47	52	53	54	54	53	
<b>Net income (less deficit), total</b> .....	<b>66</b>	<b>143</b>	<b>247</b>	<b>285</b>	<b>239</b>	<b>214</b>	<b>154</b>	<b>188</b>	<b>233</b>	
Net income.....	84	169	275	322	297	301	274	297	349	
Deficit.....	18	26	28	37	58	87	120	109	116	
<b>TAX ITEMS</b>										
Income subject to tax.....	72	147	240	280	247	240	205	219	257	
Income tax before credits <sup>6</sup> .....	33	66	107	119	104	101	85	92	108	
<b>Tax credits, total</b> <sup>1</sup> .....	<b>5</b>	<b>26</b>	<b>44</b>	<b>54</b>	<b>42</b>	<b>44</b>	<b>40</b>	<b>40</b>	<b>44</b>	
Foreign tax credit.....	5	20	26	37	25	22	19	20	21	
Investment credit.....	1	6	13	15	15	19	17	16	(NA)	
<b>Income tax after credits</b> <sup>6</sup> .....	<b>28</b>	<b>39</b>	<b>63</b>	<b>65</b>	<b>62</b>	<b>57</b>	<b>45</b>	<b>52</b>	<b>64</b>	

NA Not available. <sup>1</sup>Includes items not shown separately. <sup>2</sup>Payable in one year or more. <sup>3</sup>Appropriated and unappropriated. <sup>4</sup>Payable in less than one year. <sup>5</sup>Includes interest on Government obligations issued by U.S. State and local governments. <sup>6</sup>Consists of normal tax, surtax and alternative tax for tax years 1970 through 1979 and beginning 1980, regular tax and alternative tax. Tax year 1970 includes surcharge of \$784 million.

Source: U.S. Internal Revenue Service, *Statistics of Income, Corporations Income Tax Returns*, annual.

NO. 847. CORPORATION INCOME TAX RETURNS—FINANCIAL SUMMARY BY INDUSTRIAL DIVISION: 1970  
TO 1984

[In billions of dollars, except number of returns and percent change]

ITEM	1970	1975	1979	1980	1981	1982	1983	1984
<b>Agriculture, forestry, and fishing returns (1,000)</b> .....	37	56	83	81	85	91	92	98
Assets.....	11.9	21.2	38.0	40.7	46.1	50.4	50.3	50.7
Liabilities <sup>1</sup> .....	7.9	14.3	26.0	29.3	32.5	36.3	36.7	36.4
Receipts.....	14.3	28.1	53.3	52.1	65.1	65.4	59.2	66.6
Deductions.....	14.2	27.4	52.1	51.4	64.7	65.4	59.4	66.4
Net income (less loss).....	60.1	.7	1.3	.7	.3	(-2)	-.2	.2
<b>Mining returns (1,000)</b> .....	14	14	24	26	33	37	37	41
Assets.....	24.0	64.5	115.5	126.9	168.9	192.4	194.4	209.0
Liabilities <sup>1</sup> .....	10.6	31.7	64.0	72.9	98.4	112.5	108.8	114.7
Receipts.....	17.7	65.9	132.5	176.7	200.2	203.1	132.4	123.5
Deductions.....	15.9	42.3	89.6	169.1	195.0	203.0	134.3	124.6
Net income (less loss).....	1.8	23.6	43.1	7.8	5.8	.5	-1.6	-.4
<b>Construction returns (1,000)</b> .....	139	191	250	272	276	282	284	307
Assets.....	42.7	76.7	123.3	132.9	150.8	153.1	161.4	195.3
Liabilities <sup>1</sup> .....	30.9	57.7	93.8	100.1	113.7	114.2	119.8	144.9
Receipts.....	90.6	147.0	252.9	267.2	280.2	281.7	290.8	338.5
Deductions.....	89.1	144.7	247.0	262.1	276.7	279.6	288.6	335.7
Net income (less loss).....	1.5	2.2	6.0	5.3	3.5	2.3	2.3	2.9
<b>Manufacturing returns (1,000)</b> .....	198	217	237	243	251	259	262	272
Assets.....	612.9	944.6	1,528.6	1,709.5	1,933.7	2,060.7	2,233.0	2,417.6
Liabilities <sup>1</sup> .....	304.0	562.0	853.2	960.3	1,085.5	1,163.8	1,279.9	1,392.6
Receipts.....	723.0	1,296.4	2,152.7	2,404.3	2,613.5	2,488.3	2,552.8	2,768.2
Deductions.....	692.5	1,230.7	2,032.1	2,290.6	2,509.1	2,423.3	2,469.3	2,661.2
Net income (less loss).....	31.8	66.4	130.4	125.7	116.8	75.8	95.3	121.2
<b>Transportation, and public utilities returns (1,000)</b> .....	67	81	104	111	109	115	123	128
Assets.....	287.7	443.2	674.5	759.4	837.3	919.8	998.9	1,084.9
Liabilities <sup>1</sup> .....	166.5	266.8	410.3	467.7	516.4	567.0	604.6	660.9
Receipts.....	135.5	243.5	448.0	523.8	598.5	632.3	657.4	725.6
Deductions.....	127.9	233.4	427.8	504.0	579.2	614.4	638.2	697.2
Net income (less loss).....	7.5	10.1	18.4	20.0	19.6	18.3	19.5	28.0
<b>Wholesale and retail trade returns (1,000)</b> .....	518	615	773	800	817	840	852	897
Assets.....	192.2	323.5	573.3	646.9	708.1	753.4	804.2	899.0
Liabilities <sup>1</sup> .....	115.2	260.8	376.7	424.6	472.3	501.9	539.0	609.7
Receipts.....	522.5	989.9	1,752.7	1,955.5	2,039.6	2,017.7	2,119.4	2,307.6
Deductions.....	512.9	947.5	1,713.7	1,919.5	2,006.9	1,989.7	2,084.5	2,265.8
Net income (less loss).....	9.7	22.5	40.2	35.8	33.3	28.4	35.3	42.0
<b>Finance, insurance, and real estate returns (1,000)</b> .....	406	412	471	493	470	462	480	497
Assets.....	1,401.2	2,322.0	3,826.9	4,022.2	4,486.2	4,987.5	5,487.2	5,899.0
Liabilities <sup>1</sup> .....	1,204.7	2,052.2	3,185.4	3,491.7	3,830.0	4,220.5	4,670.4	5,037.3
Receipts.....	177.3	315.8	561.1	697.5	877.8	949.9	902.8	1,033.1
Deductions.....	161.6	298.0	514.3	652.6	838.8	915.2	856.7	985.7
Net income (less loss).....	12.2	11.7	37.0	33.1	26.3	21.8	31.7	32.7
<b>Services returns (1,000)</b> .....	281	436	603	671	753	820	848	899
Assets.....	61.9	90.5	154.0	178.2	213.7	237.9	269.8	307.9
Liabilities <sup>1</sup> .....	42.9	63.7	108.8	125.3	152.7	170.1	198.1	223.1
Receipts.....	69.8	131.4	245.1	279.9	346.8	380.8	416.5	490.3
Deductions.....	68.4	128.0	238.9	271.8	338.8	373.7	410.5	485.0
Net income (less loss).....	1.2	3.4	8.3	8.2	8.2	7.2	6.0	5.5
<b>ANNUAL PERCENT CHANGE</b>								
<b>Receipts:</b>								
Agriculture, forestry, and fishing.....	17.7	10.5	28.8	-2.4	24.9	.5	-9.4	12.5
Mining.....	9.3	1.7	40.0	33.3	13.3	1.5	-34.8	-6.7
Construction.....	8.0	7.2	16.7	5.7	4.9	.8	3.2	16.4
Manufacturing.....	1.8	(-2)	17.2	11.7	8.7	-4.8	2.6	8.4
Transportation and public utilities.....	8.2	9.6	19.8	17.5	14.3	5.6	4.0	10.3
Wholesale and retail.....	2.8	5.0	19.9	11.6	4.3	-1.1	5.0	8.9
Finance, insurance, and real estate.....	7.9	4.2	18.2	24.3	25.9	8.2	-5.0	14.4
Services.....	15.9	13.7	16.4	14.2	23.9	9.8	9.4	17.7

Z Less than half the measure. <sup>1</sup> Liabilities does not include net worth.

Source: U.S. Internal Revenue Service, *Statistics of Income, Corporations Income Tax Returns*, annual.

**NO. 848. ACTIVE CORPORATIONS—INCOME TAX RETURNS, BY ASSET SIZE-CLASS, AND BY INDUSTRY, 1984**

[In millions of dollars, except returns and percents. Detail may not add to total because of rounding and the exclusion of data to prevent disclosure of individual taxpayer's identity. See table 846. See also *Historical Statistics, Colonial Times to 1970*, series V 167-183 and V 193-196]

INDUSTRY AND ITEM	Total	ASSET SIZE-CLASS					
		Under 10 mil. dol. <sup>1</sup>	10-24.9 mil. dol.	25-49.9 mil. dol.	50-99.9 mil. dol.	100-249.9 mil. dol.	250 mil. dol. and over
<b>Agriculture, forestry, and fishing returns</b> .....	98,386	98,032	220	61	31	10	6
Assets or liabilities.....	50,700	38,682	3,246	2,075	2,367	1,423	2,907
Receipts.....	66,645	48,965	3,791	2,451	4,310	2,115	5,612
Deductions.....	66,436	48,562	3,761	2,461	4,234	2,053	5,365
Net income (less loss).....	202	-206	29	-10	76	62	251
<b>Mining returns</b> .....	40,564	39,453	569	250	131	79	82
Assets or liabilities.....	209,036	20,714	9,087	8,716	9,063	15,522	145,934
Receipts.....	123,499	26,519	6,009	7,447	4,798	9,729	69,009
Deductions.....	124,627	27,075	6,400	7,657	5,169	9,827	68,499
Net income (less loss).....	-358	-556	-366	-216	-373	-104	1,257
<b>Construction returns</b> .....	306,905	305,176	1,209	325	107	53	35
Assets or liabilities.....	195,273	101,538	18,079	11,165	7,578	8,540	48,373
Receipts.....	338,566	245,844	26,062	16,540	7,566	11,102	31,452
Deductions.....	335,696	243,215	283	162	7,436	11,773	31,668
Net income (less loss).....	2,907	2,600	178	208	124	-71	-132
<b>Manufacturing returns</b> .....	272,037	263,296	4,774	1,803	860	594	710
Assets or liabilities.....	2,417,630	171,589	73,694	62,859	62,425	108,412	1,938,651
Receipts.....	2,769,248	411,493	130,817	98,173	92,108	145,560	1,886,413
Deductions.....	2,661,154	402,978	126,772	94,430	88,093	139,627	1,197,652
Net income (less loss).....	121,359	8,487	4,029	3,747	4,063	6,160	94,873
<b>Transportation and public utilities returns</b> .....	128,183	126,532	798	316	119	120	298
Assets or liabilities.....	1,084,873	41,626	12,306	11,354	8,896	24,120	966,571
Receipts.....	725,631	90,731	16,347	11,859	9,926	19,872	576,896
Deductions.....	697,240	90,249	15,988	11,398	5,445	9,539	296,697
Net income (less loss).....	34,379	491	357	454	433	950	31,694
<b>Wholesale and retail trade returns</b> .....	896,524	928	4,219	1,233	467	332	243
Assets or liabilities.....	1,374,028	815,912	63,368	43,164	33,866	56,502	361,216
Receipts.....	2,307,612	1,213,201	182,123	108,501	83,290	133,646	566,652
Deductions.....	2,265,843	1,198,628	178,277	106,241	81,325	130,094	571,276
Net income (less loss).....	42,011	14,435	3,852	2,255	1,973	3,754	15,742
<b>Finance, insurance, and real estate returns</b> .....	497,360	475,593	7,541	5,542	4,013	2,478	2,193
Assets or liabilities.....	5,938,985	173,540	122,760	198,346	280,998	378,237	4,785,104
Receipts.....	1,033,139	123,215	27,011	40,448	42,474	60,220	739,771
Deductions.....	985,667	120,078	25,510	36,509	40,457	57,028	704,087
Net income (less loss).....	32,628	2,765	1,151	1,216	970	2,075	24,514
<b>Services returns</b> .....	899,369	896,931	1,432	517	235	159	95
Assets or liabilities.....	307,895	139,291	22,410	18,013	17,215	24,837	86,129
Receipts.....	490,332	333,716	27,197	21,064	17,706	24,710	60,319
Deductions.....	484,988	335,170	26,698	20,757	17,383	24,588	60,192
Net income (less loss).....	4,934	4,140	308	312	2	40	132
<b>PERCENT DISTRIBUTION</b>							
<b>Receipts:</b>							
Agriculture, forestry, and fishing.....	100.0	72.6	5.7	3.7	6.5	3.2	8.4
Mining.....	100.0	21.5	4.9	6.0	3.9	7.9	55.9
Construction.....	100.0	72.6	7.7	4.9	2.2	3.3	9.3
Manufacturing.....	100.0	14.9	4.7	3.8	3.5	5.3	68.2
Transportation, and public utilities.....	100.0	12.5	2.3	1.8	1.4	2.7	79.5
Wholesale and retail trade.....	100.0	52.6	7.9	4.7	3.6	5.8	25.4
Finance, insurance, and real estate.....	100.0	11.9	2.6	3.9	4.1	5.8	71.6
Services.....	100.0	68.8	5.6	4.3	3.7	5.1	12.4
<b>Deductions:</b>							
Agriculture, forestry, and fishing.....	100.0	73.1	5.7	3.7	6.4	3.1	8.1
Mining.....	100.0	21.7	5.1	6.1	4.1	7.9	55.0
Construction.....	100.0	82.6	.1	.1	2.5	4.0	10.8
Manufacturing.....	100.0	19.7	6.2	4.6	4.3	6.8	58.4
Transportation, and public utilities.....	100.0	21.0	3.7	2.7	1.3	2.2	69.1
Wholesale and retail trade.....	100.0	52.9	7.9	4.7	3.6	5.7	25.2
Finance, insurance, and real estate.....	100.0	12.2	2.6	3.9	4.1	5.8	71.4
Services.....	100.0	69.1	5.5	4.3	3.6	5.1	12.4

<sup>1</sup> Includes returns with zero assets.

Source: U.S. Internal Revenue Service, *Statistics of Income, Corporation Income Tax Return*, annual.

## NO. 849. FIXED NONRESIDENTIAL PRIVATE CAPITAL VALUED IN CURRENT AND CONSTANT (1982)

DOLLARS: 1970 TO 1986

[In billions of dollars. Stocks as of Dec. 31; depreciation over entire calendar year. Data refer to privately owned assets and are based on the fixed capital formation components of the gross national product. Excludes residential capital and government enterprises; includes nonprofit institutions. Gross stocks allow for retirement; net stocks allow for retirement and depreciation. Net stock and depreciation estimates are based on the straight-line depreciation formula]

ITEM	CURRENT DOLLARS					CONSTANT (1982) DOLLARS				
	1970	1975	1980	1985	1986	1970	1975	1980	1985	1986
<b>All industries:</b>										
Gross stocks.....	1,453.4	2,661.7	4,844.4	6,698.3	7,004.2	3,737.8	4,513.3	5,420.0	6,340.4	6,529.7
Equipment.....	679.3	1,252.2	2,353.3	3,282.7	3,439.0	1,620.0	2,084.4	2,651.1	3,146.8	3,271.9
Structures.....	774.1	1,409.5	2,491.1	3,415.6	3,565.1	2,117.8	2,428.8	2,768.9	3,193.6	3,257.8
Net stocks.....	865.1	1,571.0	2,807.4	3,768.7	3,922.3	2,212.2	2,654.6	3,137.7	3,569.1	3,657.1
Equipment.....	395.0	718.7	1,336.8	1,794.4	1,876.7	939.8	1,192.7	1,505.5	1,731.2	1,798.6
Structures.....	470.2	852.3	1,470.6	1,972.3	2,045.6	1,272.4	1,461.9	1,632.2	1,837.9	1,858.5
Depreciation.....	68.4	125.4	233.9	341.2	355.9	174.7	220.4	277.8	337.0	351.5
Equipment.....	46.7	84.7	159.4	234.2	245.1	107.9	145.5	188.8	229.4	241.4
Structures.....	21.7	40.7	74.5	107.0	110.8	65.1	74.9	89.0	107.6	110.1
<b>Manufacturing:</b>										
Gross stocks.....	340.6	601.0	1,108.1	1,498.1	1,557.0	856.8	1,023.9	1,236.4	1,392.8	1,417.7
Equipment.....	218.1	391.7	741.5	998.0	1,035.2	540.4	664.4	832.0	954.1	975.7
Structures.....	122.5	209.3	366.6	500.0	521.8	316.4	359.5	404.4	438.6	441.9
Net stocks.....	203.8	351.3	633.9	812.2	835.4	513.3	597.2	707.2	757.3	763.2
Equipment.....	126.8	226.3	424.9	542.1	557.5	314.3	382.5	476.6	520.3	527.6
Structures.....	77.0	125.0	209.0	270.1	277.9	199.0	214.7	230.6	237.0	235.4
Depreciation.....	16.5	28.7	53.1	74.6	77.4	40.8	49.8	62.0	72.1	74.3
Equipment.....	12.7	22.0	41.8	58.8	60.9	30.6	38.1	48.9	58.0	60.1
Structures.....	3.8	6.7	11.3	15.9	16.5	10.2	11.7	13.1	14.1	14.3

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, August 1987.

## NO. 850. FIXED NONRESIDENTIAL BUSINESS CAPITAL—AVERAGE AGE OF GROSS STOCKS, USING CONSTANT (1982) COST VALUATION: 1970 TO 1986

[Age in years. As of Dec. 31. See headnote, table 849]

ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986
<b>All industries: Gross stocks</b> .....	11.8	11.4	11.4	11.3	11.2	11.2	11.3	11.4	11.4	11.4	11.4
Equipment.....	7.5	7.5	7.5	7.4	7.4	7.4	7.6	7.6	7.6	7.6	7.6
Structures.....	15.1	14.8	15.0	15.0	14.9	14.9	14.9	15.0	15.0	15.1	15.2
<b>Manufacturing: Gross stocks</b> .....	9.7	10.0	10.2	10.2	10.2	10.2	10.3	10.5	10.7	10.7	10.9
Equipment.....	8.4	8.5	8.5	8.4	8.4	8.4	8.5	8.7	8.8	8.9	8.9
Structures.....	11.9	12.9	13.5	13.6	13.6	13.9	14.1	14.4	14.6	14.8	15.1
<b>Nonfarm nonmfg: Gross stocks</b> .....	12.6	12.0	11.9	11.8	11.7	11.6	11.7	11.7	11.6	11.5	11.5
Equipment.....	7.2	7.2	7.1	7.0	7.1	7.1	7.2	7.2	7.1	7.0	6.9
Structures.....	15.7	15.1	15.2	15.2	15.1	15.0	15.0	15.0	15.0	15.0	15.1
<b>Farm: Gross stocks</b> .....	9.9	9.7	9.7	9.7	9.9	10.2	10.6	11.1	11.5	12.0	12.6
Equipment.....	5.7	5.6	5.8	5.8	6.0	6.2	6.5	6.8	7.1	7.5	7.7
Structures.....	15.1	15.1	14.9	14.9	15.0	15.2	15.6	16.0	16.4	17.0	17.5

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, January 1987.

## NO. 851. GROSS PRIVATE DOMESTIC INVESTMENT: 1970 TO 1986

[In billions of dollars]

YEAR	CURRENT DOLLARS					CONSTANT (1982) DOLLARS						
	Gross private domestic investment				Less: capital consumption allowances <sup>2</sup>	Equals: Net private domestic investment	Gross private domestic investment			Less: capital consumption allowances <sup>2</sup>	Equals: Net private domestic investment	
	Total <sup>1</sup>	Fixed investment	Nonresidential	Residential			Total <sup>1</sup>	Fixed investment	Nonresidential			Residential
1970.....	148.8	145.7	105.2	40.5	88.6	60.0	381.5	373.3	264.0	109.3	229.8	151.8
1975.....	219.6	225.2	162.9	62.3	161.8	57.8	383.3	396.1	281.2	114.9	287.0	96.3
1976.....	277.7	261.7	180.0	81.7	179.2	98.4	453.5	431.4	290.6	140.8	297.3	156.2
1977.....	344.1	322.8	214.2	108.6	201.5	142.5	521.3	492.2	324.0	168.1	309.6	211.7
1978.....	416.8	388.2	259.0	129.2	229.9	186.9	576.9	540.2	362.1	178.0	323.7	253.3
1979.....	454.8	441.9	302.8	139.1	265.8	189.1	575.2	560.2	389.4	208.3	341.3	234.0
1980.....	437.0	445.3	322.8	122.5	303.8	133.1	509.3	516.2	379.2	137.0	356.1	153.2
1981.....	515.5	491.5	389.2	122.3	347.8	167.7	545.5	521.7	395.2	126.5	369.7	175.8
1982.....	447.3	471.8	366.7	105.1	383.2	64.1	447.3	471.8	366.7	105.1	383.2	64.1
1983.....	502.3	509.4	356.9	152.5	396.6	105.7	504.0	510.4	361.2	149.3	394.4	109.6
1984.....	664.8	597.1	416.0	181.1	415.5	249.4	658.4	596.7	425.2	170.9	407.2	251.2
1985.....	641.8	631.6	442.6	189.0	437.6	204.0	636.1	628.7	454.1	174.6	426.3	209.8
1986.....	671.0	655.2	439.9	218.3	456.7	214.3	654.0	640.2	443.8	196.4	442.0	212.0

<sup>1</sup> Includes change in inventories, not shown separately. <sup>2</sup> With capital consumption adjustment.Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July 1987.

**NO. 852. GROSS STOCK OF FIXED PRIVATE CAPITAL, NONRESIDENTIAL AND RESIDENTIAL, BY  
INDUSTRY: 1980 TO 1986**

[In billions of dollars. Estimates as of the end of the year]

INDUSTRY	CURRENT DOLLARS				CONSTANT (1982) DOLLARS			
	1980	1984	1985	1986	1980	1984	1985	1986
<b>Fixed private capital.....</b>	<b>8,942.8</b>	<b>11,565.9</b>	<b>12,103.2</b>	<b>12,798.4</b>	<b>9,813.2</b>	<b>10,903.8</b>	<b>11,246.6</b>	<b>11,585.2</b>
<b>Nonresidential.....</b>	<b>4,844.4</b>	<b>6,432.9</b>	<b>6,898.3</b>	<b>7,004.2</b>	<b>5,420.0</b>	<b>6,127.5</b>	<b>6,340.4</b>	<b>6,529.7</b>
<b>Agriculture, forestry and fisheries.....</b>	<b>319.2</b>	<b>386.5</b>	<b>384.5</b>	<b>381.0</b>	<b>357.4</b>	<b>351.8</b>	<b>343.8</b>	<b>334.7</b>
Farms.....	295.2	354.8	351.2	346.8	330.6	321.7	312.9	303.3
Agr. serv., forestry, and fisheries.....	24.0	31.8	33.3	34.2	26.7	30.1	30.9	31.4
<b>Mining.....</b>	<b>358.0</b>	<b>444.6</b>	<b>447.2</b>	<b>428.5</b>	<b>441.2</b>	<b>537.4</b>	<b>549.2</b>	<b>542.7</b>
Metal mining.....	26.4	34.5	35.1	35.4	30.0	32.0	32.0	31.5
Coal mining.....	31.7	45.6	46.4	46.6	36.5	43.7	43.7	43.5
Oil and gas extraction.....	282.5	342.3	343.6	324.7	354.8	441.0	453.1	448.5
Nonmetallic minerals, exc. fuels.....	17.4	22.2	22.1	21.8	19.9	20.7	20.3	18.5
<b>Construction.....</b>	<b>100.3</b>	<b>110.3</b>	<b>109.3</b>	<b>110.0</b>	<b>113.1</b>	<b>103.0</b>	<b>100.5</b>	<b>98.7</b>
<b>Manufacturing.....</b>	<b>1,108.1</b>	<b>1,444.0</b>	<b>1,498.1</b>	<b>1,857.0</b>	<b>1,236.4</b>	<b>1,360.2</b>	<b>1,392.8</b>	<b>1,417.7</b>
Durable goods.....	604.9	790.2	822.3	856.0	674.1	750.1	772.9	790.8
Lumber and wood products.....	28.8	33.7	34.2	35.1	32.9	31.1	30.7	30.6
Furniture and fixtures.....	8.9	11.4	12.0	12.8	9.9	10.6	11.0	11.4
Stone, clay, glass products.....	47.4	55.6	58.1	57.8	52.7	52.9	52.8	52.5
Primary metal industries.....	141.8	173.2	175.9	178.9	159.1	162.8	162.4	161.0
Fabricated metal products.....	68.6	87.6	91.5	95.9	78.3	82.9	84.9	87.2
Machinery, exc. electrical.....	94.9	130.9	135.8	141.5	105.0	128.1	134.4	139.2
Elec. and elec. equipment.....	70.2	110.2	119.5	128.6	78.8	103.8	112.1	118.8
Motor vehicles and equipment.....	72.5	88.2	91.6	94.6	80.5	84.3	86.0	87.2
Other transp. equipment.....	40.9	56.1	60.0	64.2	44.9	52.7	55.8	58.6
Instruments, related products.....	19.9	28.8	30.9	33.0	22.0	27.4	29.3	30.7
Misc. mfg. industries.....	11.6	14.4	14.7	15.3	12.9	13.5	13.5	13.7
Nondurable goods.....	503.2	653.8	675.8	701.0	562.3	610.1	619.8	626.8
Food and kindred products.....	100.4	129.5	134.4	140.0	112.0	120.1	122.0	123.6
Tobacco manufacturers.....	5.2	8.8	9.5	10.3	5.9	8.3	8.9	9.3
Textile mill products.....	33.9	40.6	41.5	42.3	38.0	37.3	37.1	36.6
Apparel; other textile products.....	11.1	13.4	13.5	13.7	12.4	12.5	12.3	12.2
Paper and allied products.....	68.5	90.6	94.7	99.5	77.2	84.8	87.3	89.6
Printing and publishing.....	35.7	48.7	52.0	56.2	39.7	45.6	48.1	50.9
Chemicals, allied products.....	141.9	179.8	183.3	188.3	158.6	168.9	169.0	170.4
Petroleum and coal products.....	68.6	95.9	98.2	100.0	76.3	89.0	89.6	86.8
Rubber; misc. plastic products.....	35.2	43.3	45.4	47.5	39.2	40.6	41.7	42.6
Leather and leather products.....	2.7	3.2	3.2	3.3	3.0	3.0	3.0	2.9
<b>Transportation and public utilities.....</b>	<b>1,464.5</b>	<b>1,887.4</b>	<b>1,939.2</b>	<b>2,012.8</b>	<b>1,621.9</b>	<b>1,755.3</b>	<b>1,795.5</b>	<b>1,832.9</b>
Transportation.....	501.2	575.7	584.8	583.7	551.1	546.2	541.1	535.2
Railroad transportation.....	237.6	249.4	254.9	248.6	258.3	236.9	232.1	226.6
Local, interurban pass. transit.....	9.3	9.8	9.6	9.7	10.2	9.0	8.8	8.6
Trucking and warehousing.....	75.7	100.8	104.7	107.8	84.7	92.7	93.3	93.3
Water transportation.....	50.9	68.0	68.3	67.3	57.3	63.7	63.8	63.7
Transportation by air.....	60.4	75.1	74.4	75.4	69.1	72.6	71.6	71.6
Pipelines, exc. natural gas.....	34.8	38.0	38.5	38.7	36.8	36.8	36.9	36.8
Transportation services.....	32.4	35.8	36.4	36.3	34.9	34.4	34.5	34.4
Communication.....	346.4	539.1	550.7	591.4	392.2	476.4	497.9	520.5
Telephone and telegraph.....	327.2	510.1	519.9	558.5	370.3	450.2	470.5	491.9
Radio and TV broadcasting.....	19.2	28.9	30.7	32.9	21.8	26.3	27.4	28.6
Elec., gas, and sanitary services.....	616.8	772.6	803.8	837.8	678.6	732.7	758.5	777.2
Electric services.....	467.9	601.4	627.6	657.7	521.0	567.2	585.5	606.4
Gas services.....	132.2	151.2	154.4	157.0	140.5	146.2	147.7	149.1
Sanitary services.....	16.7	20.1	21.7	23.0	17.2	19.3	20.3	21.7
<b>Wholesale trade.....</b>	<b>152.3</b>	<b>228.0</b>	<b>248.2</b>	<b>272.4</b>	<b>167.6</b>	<b>220.2</b>	<b>241.9</b>	<b>263.4</b>
<b>Retail trade.....</b>	<b>258.1</b>	<b>370.8</b>	<b>399.1</b>	<b>432.3</b>	<b>285.1</b>	<b>339.6</b>	<b>357.9</b>	<b>377.1</b>
<b>Finance, insurance, real estate.....</b>	<b>716.1</b>	<b>1,031.8</b>	<b>1,106.7</b>	<b>1,199.7</b>	<b>789.2</b>	<b>962.1</b>	<b>1,030.9</b>	<b>1,103.7</b>
Banking.....	78.3	122.1	132.8	149.1	86.3	121.0	137.3	155.8
Credit agencies other than banks.....	59.9	87.4	94.2	102.9	65.5	85.9	95.0	104.0
Security, commodity brokers, and services.....	2.9	4.8	5.5	6.5	3.2	5.0	6.2	7.8
Insurance carriers.....	16.9	26.2	32.0	41.3	18.3	27.3	37.1	50.7
Ins. agents brokers, and services.....	4.3	5.3	5.2	5.4	4.6	5.4	5.5	5.7
Real estate.....	546.4	773.1	822.6	877.3	603.3	704.6	733.8	759.6
Holding, other investment co.....	7.3	12.6	14.4	17.2	7.9	13.0	16.0	20.0
<b>Services.....</b>	<b>367.8</b>	<b>529.8</b>	<b>566.0</b>	<b>610.5</b>	<b>408.2</b>	<b>497.9</b>	<b>527.9</b>	<b>562.7</b>
Hotels, other lodging places.....	63.2	93.6	102.1	111.9	68.8	84.9	96.8	106.6
Personal services.....	21.3	25.9	26.5	27.3	23.5	24.1	24.1	24.2
Business services.....	82.7	126.9	134.8	146.1	92.3	124.0	134.2	144.3
Auto repair; serv., garages.....	61.5	90.4	98.0	107.1	66.7	95.3	90.5	96.5
Misc. repair services.....	9.8	13.0	13.7	14.4	11.0	12.3	12.7	13.1
Motion pictures.....	8.7	10.7	11.1	11.7	9.3	10.4	10.8	11.2
Amusement, recreation services.....	30.1	38.9	40.9	42.9	33.6	36.4	37.8	38.9
Other services.....	90.4	130.3	138.9	149.0	100.0	120.7	127.0	133.8
Health services.....	49.6	78.2	85.7	92.7	55.1	73.3	78.1	82.9
Legal services.....	6.5	8.0	10.0	11.2	7.1	8.4	9.4	10.4
Educational services.....	2.3	2.6	2.6	2.8	2.5	2.7	2.9	3.2
Other.....	32.1	39.5	40.6	42.3	35.3	36.2	36.7	37.3
<b>Residential.....</b>	<b>4,098.4</b>	<b>5,133.0</b>	<b>5,404.9</b>	<b>5,794.3</b>	<b>4,393.1</b>	<b>4,776.2</b>	<b>4,906.4</b>	<b>5,055.6</b>
Farms.....	127.4	143.5	145.5	149.1	137.3	133.1	131.8	130.3
Real estate.....	3,971.0	4,989.4	5,259.4	5,645.1	4,255.8	4,643.1	4,774.6	4,925.2

<sup>1</sup> Includes social services, membership organizations, and miscellaneous professional services.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, August 1987.

## NO. 853. BUSINESS EXPENDITURES FOR NEW PLANT AND EQUIPMENT: 1970 TO 1987

[In billions of dollars. Based on sample and subject to sampling variability; see text, section 17. Represents expenditures for new facilities and for expansion or replacement of existing facilities that are chargeable to fixed asset accounts and for which depreciation or amortization accounts are ordinarily maintained. Excludes expenditures for land and mineral rights; maintenance and repair; used plant and equipment, including that purchased or acquired through mergers or acquisitions; assets located in foreign countries; residential structures; etc. They also differ from the nonresidential fixed investment data in type of detail, data sources, coverage, and timing. For further information, see the February 1985 *Survey of Current Business*]

INDUSTRY	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987 <sup>1</sup>
<b>CURRENT DOLLARS</b>											
All Industries <sup>2</sup> .....	91.9	142.4	255.0	282.8	315.2	310.6	304.8	354.4	387.1	379.3	390.9
Manufacturing .....	37.0	53.7	95.9	112.3	126.5	120.7	116.2	138.8	153.5	142.7	145.9
Durable goods <sup>3</sup> .....	19.8	29.4	48.5	55.4	59.8	55.4	53.1	66.2	73.3	69.1	70.9
Primary metals .....	3.2	5.4	8.1	6.8	7.4	6.9	6.0	7.1	7.8	7.2	8.5
Fabricated metals .....	1.2	2.0	3.2	3.3	3.6	3.1	2.8	3.4	3.6	4.0	3.9
Electrical machinery .....	3.5	3.1	7.5	9.8	10.6	11.0	11.4	14.6	15.5	14.1	15.6
Machinery, except electrical .....	3.8	4.9	10.2	11.4	13.7	13.4	13.5	15.4	16.0	13.6	13.1
Transportation equipment <sup>4</sup> .....	4.6	5.5	13.0	15.0	15.4	12.6	11.3	16.2	19.5	18.9	17.5
Motor vehicles .....	3.0	3.3	8.3	9.0	9.8	7.8	7.3	11.2	14.6	14.0	12.7
Aircraft .....	.9	1.2	2.7	3.6	3.4	3.4	2.9	3.6	3.5	3.8	3.7
Stone, clay, and glass .....	1.1	1.7	4.0	4.0	3.4	2.9	2.8	3.1	3.4	3.1	3.4
Nondurable goods <sup>3</sup> .....	17.2	28.3	47.4	57.0	66.7	65.3	63.1	72.6	80.2	73.6	75.0
Food and beverage .....	3.3	4.4	7.3	8.2	8.5	8.7	7.8	8.8	10.2	10.6	11.3
Paper .....	1.7	2.9	5.2	6.5	6.1	5.6	5.9	7.2	8.6	8.8	8.5
Chemicals .....	3.4	7.1	9.8	11.6	13.1	12.7	13.0	15.3	16.4	16.7	16.6
Petroleum .....	5.2	9.1	15.2	19.6	26.0	26.4	23.1	25.5	26.7	18.1	17.3
Rubber .....	.8	1.2	2.5	2.0	2.2	2.2	2.5	3.1	3.9	3.9	3.5
Nonmanufacturing <sup>2</sup> .....	54.9	88.8	159.0	170.5	188.7	189.9	188.6	215.6	233.7	236.5	245.0
Mining .....	2.0	6.1	12.8	16.0	21.4	20.0	15.2	16.9	15.9	11.2	10.5
Public utilities .....	13.0	20.2	35.6	37.7	41.2	45.4	45.0	47.5	48.8	46.4	45.6
Transportation .....	7.2	9.8	16.0	16.6	15.8	14.8	14.0	16.5	18.0	18.8	19.4
Commercial and other .....	32.7	52.5	94.6	100.1	110.2	109.6	114.5	134.8	150.9	160.1	169.5
Wholesale and retail trade .....	8.8	14.8	28.7	28.4	30.2	30.4	37.0	44.9	50.8	55.4	(NA)
Finance and insurance .....	3.9	10.0	17.5	21.2	26.0	27.2	28.4	33.9	39.4	43.6	(NA)
Personal and business serv. <sup>4</sup> .....	9.6	14.8	25.8	25.6	27.2	25.9	25.0	28.7	28.7	28.2	(NA)
Communication .....	10.4	12.9	22.5	24.9	26.9	26.1	24.0	27.2	32.0	32.9	(NA)
Addenda: <sup>5</sup>											
Total nonfarm business <sup>6</sup> .....	106.1	162.6	284.9	314.5	349.3	347.5	343.3	399.0	431.9	427.0	441.6
Manufacturing .....	37.0	53.7	95.9	112.3	126.5	120.7	116.2	138.8	153.5	142.7	144.9
Nonmanufacturing .....	69.2	108.9	189.0	202.1	222.7	226.8	227.1	260.2	278.5	284.3	296.7
Surveyed quarterly .....	54.9	88.8	159.0	170.5	188.7	189.9	188.6	215.6	233.7	236.5	245.9
Surveyed annually <sup>7</sup> .....	14.2	20.2	30.0	31.7	34.0	36.9	38.6	44.6	44.8	47.8	50.8
<b>CONSTANT (1982) DOLLARS<sup>8</sup></b>											
All Industries <sup>2</sup> .....	229.9	246.1	327.1	332.7	337.1	310.8	307.0	355.4	386.3	374.2	384.8
Manufacturing .....	97.2	97.7	125.5	133.9	136.1	120.7	119.7	143.6	158.1	144.9	147.6
Durable goods <sup>3</sup> .....	48.5	43.8	62.0	64.4	63.6	55.4	53.0	65.8	72.7	68.7	70.3
Primary metals .....	8.3	9.6	7.8	7.9	7.9	6.9	6.0	7.0	7.5	6.9	(NA)
Fabricated metals .....	3.0	3.4	4.1	3.9	3.8	3.1	2.8	3.4	3.5	3.9	(NA)
Electrical machinery .....	8.0	5.0	9.5	11.3	11.3	11.0	11.3	14.3	15.2	13.9	(NA)
Machinery, except electrical .....	9.1	8.2	12.8	13.1	14.4	13.4	13.5	15.4	16.1	13.8	(NA)
Transportation equipment <sup>4</sup> .....	11.6	9.8	16.9	17.6	16.5	12.6	11.5	16.4	19.7	19.1	(NA)
Motor vehicles .....	7.5	5.9	10.7	10.5	10.4	7.8	7.3	11.1	14.5	13.8	(NA)
Aircraft .....	2.2	2.9	3.5	4.2	3.6	3.4	3.1	3.8	3.7	4.1	(NA)
Stone, clay, and glass .....	2.7	2.9	5.2	4.7	3.6	2.9	2.8	3.0	3.3	3.0	(NA)
Nondurable goods <sup>3</sup> .....	48.7	53.9	63.5	69.5	72.5	65.3	66.6	77.8	85.3	76.3	77.3
Food and beverage .....	8.2	7.5	9.3	9.5	10.1	8.7	7.7	8.6	10.0	10.1	(NA)
Paper .....	4.5	5.1	6.8	7.6	6.5	5.6	5.8	7.0	8.3	8.4	(NA)
Chemicals .....	8.8	12.5	12.7	13.7	14.0	12.7	13.1	15.4	16.5	16.7	(NA)
Petroleum .....	18.4	20.6	22.3	25.9	29.2	26.4	26.8	31.4	32.9	22.1	(NA)
Rubber .....	2.3	2.1	3.1	2.4	2.3	2.2	2.4	3.0	3.7	3.8	(NA)
Nonmanufacturing <sup>2</sup> .....	132.7	148.4	201.6	198.8	201.0	189.9	187.4	211.8	228.3	229.2	237.0
Mining .....	7.0	13.7	18.7	21.2	24.1	20.0	17.3	20.2	18.9	12.9	11.9
Public utilities .....	34.6	34.2	45.4	43.7	43.5	45.4	43.7	45.3	46.2	43.6	42.5
Transportation .....	18.4	17.3	20.6	19.2	16.8	14.8	13.6	15.7	16.9	17.4	17.8
Commercial and other .....	72.8	83.3	116.8	114.7	116.7	109.6	112.7	130.7	146.3	155.4	164.8
Wholesale and retail trade .....	20.0	24.3	35.6	32.3	31.5	30.4	35.3	43.1	48.1	51.8	(NA)
Finance and insurance .....	7.9	14.8	20.6	23.9	26.8	27.2	28.9	34.9	41.6	47.0	(NA)
Personal and business serv. <sup>4</sup> .....	24.4	25.2	32.6	29.5	28.8	25.9	24.7	27.8	27.8	27.0	(NA)
Communication .....	21.4	19.1	28.0	29.6	29.4	26.1	22.7	24.9	28.9	29.3	(NA)
Addenda: <sup>5</sup>											
Total nonfarm business <sup>6</sup> .....	261.3	277.8	363.6	368.3	372.8	347.5	345.5	399.6	431.2	422.6	432.5
Manufacturing .....	97.2	97.7	125.5	133.9	136.1	120.7	119.7	143.6	158.1	144.9	145.2
Nonmanufacturing .....	164.1	180.1	238.2	234.4	236.7	226.8	225.8	256.1	273.1	277.6	287.3
Surveyed quarterly .....	132.7	148.4	201.6	198.8	201.0	189.9	187.4	211.8	228.3	229.3	235.8
Surveyed annually <sup>7</sup> .....	31.4	31.7	36.6	35.7	35.7	36.9	36.5	44.2	44.8	48.3	51.5

NA Not available.

<sup>1</sup> Estimates based on planned capital expenditures as reported by business in April and May 1987.

<sup>2</sup> Surveyed quarterly. <sup>3</sup> Includes industries not shown separately. <sup>4</sup> Includes construction.

<sup>5</sup> Quarterly estimates for selected nonmanufacturing industries were discontinued effective with the April-May 1984 survey. Annual estimates for these industries are based on capital expenditures reported by business in January through March each year.

<sup>6</sup> "All industries" plus the part of nonmanufacturing that is surveyed annually.

<sup>7</sup> Consists of real estate; professional services; membership organizations and social services; and forestry, fishery, and agricultural services.

<sup>8</sup> Procedures for preparing constant-dollar estimates are described in the February 1985 *Survey of Current Business*. To estimate real spending plans, BEA adjusts the survey results for assumed price changes.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, monthly.

No. 854. COMPOSITE INDEXES OF ECONOMIC CYCLICAL INDICATORS: 1977 TO 1986

[1986 figures are preliminary. See source for discussion of composite indexes. Minus sign (-) indicates decrease. **Leading indicators** are economic time series that tend to reach their cyclical high and low points earlier than the corresponding peaks and troughs in the overall economy. **Coincident indicators** are economic time series that tend to reach their cyclical high and low points about the same time as the corresponding peaks and troughs in the overall economy. **Lagging indicators** are economic time series that tend to reach their cyclical high and low points later than the corresponding peaks and troughs in the overall economy]

ITEM	Unit	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
<b>LEADING INDICATORS</b>											
<b>Composite index</b> <sup>1</sup> .....	1967=100.....	139.4	145.8	145.1	138.2	140.9	136.8	156.0	165.3	168.6	179.2
Net business formation.....	1967=100.....	130.8	138.1	138.3	129.9	124.8	116.4	117.5	121.3	120.9	120.4
Building permits <sup>2</sup> .....	1967=100.....	144.9	145.4	123.6	96.7	80.0	80.7	131.1	134.8	138.1	141.3
Common stock prices, index <sup>3</sup> .....	1941=100.....	98.2	96.0	103.0	118.8	128.0	119.7	160.4	160.5	186.8	236.3
Initial claims, unemployment insurance.....	1,000.....	368	338	379	480	446	578	426	366	383	370
Change in sensitive prices <sup>4</sup> .....	Percent.....	4	1.3	.9	—	-6	-7	1.0	—	-4	.1
Change in credit outstanding <sup>5</sup> .....	Percent.....	15.0	14.5	13.2	6.0	6.9	1.5	6.5	15.2	10.2	6.6
Vendor performance, slower deliveries.....	Percent.....	55	64	63	40	45	37	54	61	45	52
Average workweek, manufacturing <sup>6</sup> .....	Hours.....	40.3	40.4	40.2	39.7	39.8	38.9	40.1	40.7	40.5	40.7
Change in inventories (1982 dol.) <sup>7</sup> .....	Bil. dol.....	29	45	19	-15	2	-33	2	48	1	3
Plant and equipment contracts and orders (1982 dol.).....	Bil. dol.....	328	381	408	362	352	308	318	382	400	400
New orders, manufacturing, consumer goods and materials (1982 dol.).....	Bil. dol.....	967	1,022	1,003	891	888	806	897	963	951	968
Money supply (M2) <sup>8</sup> (1982 dol.).....	Bil. dol.....	1,965	1,982	1,929	1,835	1,819	1,873	2,042	2,119	2,227	2,361
<b>COINCIDENT INDICATORS</b>											
<b>Composite index</b> .....	1967=100.....	133.6	144.0	150.2	144.8	146.0	136.3	139.9	154.5	160.3	164.5
Industrial production index.....	1977=100.....	100.0	108.5	110.7	108.6	111.0	103.1	108.2	121.4	123.8	125.1
Employees, nonagricultural payrolls.....	Million.....	82.5	86.7	89.8	90.4	91.2	89.6	90.2	94.5	97.5	98.6
Personal income less transfer payments (1982 dol.).....	Bil. dol.....	2,070	2,191	2,253	2,233	2,225	2,261	2,301	2,456	2,527	2,602
Sales, mfg. and trade (1982 dol.).....	Bil. dol.....	4,088	4,327	4,455	4,341	4,358	4,183	4,363	4,732	4,881	5,051
<b>LAGGING INDICATORS</b>											
<b>Composite index</b> .....	1967=100.....	106.4	114.0	122.6	124.6	122.4	123.0	111.7	117.3	127.0	132.1
Labor cost per unit of output, mfg. <sup>9</sup> .....	Percent.....	99.0	98.0	98.9	102.0	102.9	104.7	95.2	88.6	85.4	81.1
Ratio, consumer installment credit to personal income.....	Percent.....	12.8	13.4	13.9	13.2	12.1	11.9	12.2	13.3	14.7	15.9
Average prime rate charged by banks.....	Percent.....	8.8	9.1	12.7	15.3	18.3	14.9	10.8	12.0	9.9	8.3
Average duration of unemployment.....	Weeks.....	14.3	11.9	10.8	11.9	13.8	15.6	20.0	18.1	15.6	15.1
Ratio inventories to sales, mfg. and trade (1982 dol.).....	Ratio.....	1.6	1.6	1.6	1.6	1.6	1.7	1.6	1.6	1.6	1.5
Commercial and industrial loans outstanding (1982 dol.) <sup>10</sup> .....	Bil. dol.....	199	207	219	225	233	268	261	289	321	342

- Represents zero. <sup>1</sup> Beginning with data for January 1984, net business formation has been suspended from this index. <sup>2</sup> New private housing units authorized. <sup>3</sup> Standard and Poor, 500 stocks. <sup>4</sup> Producer price index of selected crude and intermediate materials and spot market price index of raw industrial materials. <sup>5</sup> Weighted 4-term moving average placed at the terminal month of the span. <sup>6</sup> Business and consumer borrowing. <sup>7</sup> Production workers. <sup>8</sup> See table 800. <sup>9</sup> Actual data as percent of trend. <sup>10</sup> Includes commercial paper issued by nonfinancial companies.

Source: U.S. Bureau of Economic Analysis, *Business Conditions Digest*, monthly.

No. 855. BUSINESS CYCLE EXPANSIONS AND CONTRACTIONS—MONTHS OF DURATION: 1919 TO 1986

[The lower turning point of a cycle is considered a trough, the upper turning point a peak. Business cycle reference dates are determined by the National Bureau of Economic Research, Inc.]

BUSINESS CYCLE REFERENCE DATE	Trough	Peak	Contraction (trough from previous peak)	Expansion (trough to peak)	LENGTH OF CYCLE	
					Trough from previous trough	Peak from previous peak
March 1919.....	January 1920.....		7	10	51	17
July 1921.....	May 1923.....		18	22	28	40
July 1924.....	October 1926.....		14	27	36	41
November 1927.....	August 1929.....		13	21	40	34
March 1933.....	May 1937.....		43	50	64	93
June 1938.....	February 1945.....		13	80	63	93
October 1945.....	November 1948.....		8	37	88	45
October 1949.....	July 1953.....		11	45	48	56
May 1954.....	August 1957.....		10	39	55	49
April 1958.....	April 1960.....		8	24	47	32
February 1961.....	December 1969.....		10	106	34	116
November 1970.....	November 1979.....		11	36	117	47
March 1975.....	January 1980.....		16	58	52	74
July 1980.....	July 1981.....		6	12	64	18
November 1982.....	(x).....		16	(x)	28	(x)
Average, all cycles:						
1919-1945 (6 cycles).....			18	35	53	53
1945-1982 (8 cycles).....			11	45	56	55
Average, peacetime cycles:						
1919-1945 (5 cycles).....			20	26	46	45
1945-1982 (6 cycles).....			11	34	46	44

X Not applicable.

Source: U.S. Bureau of Economic Analysis, *Business Conditions Digest*, January 1987.

**NO. 856. INTERNATIONAL ECONOMIC COMPOSITE INDEXES—AVERAGE ANNUAL PERCENT CHANGE:  
1974 TO 1986**

[The leading index changes are for years ending June 30 because they lead the coincident indexes by about six months, on average. The G-7 countries are United States, Canada, France, West Germany, Italy, United Kingdom and Japan. Average annual percent changes derived from indexes with base 1980=100. Minus sign (-) indicates decrease.]

COUNTRIES	1974-1975	1975-1976	1976-1977	1977-1978	1978-1979	1979-1980	1980-1981	1981-1982	1982-1983	1983-1984	1984-1985	1985-1986
<b>LEADING INDEX</b>												
Total, 9 countries.....	-9.6	5.8	5.4	2.8	5.7	1.7	-1.4	-1.1	.9	9.9	2.7	2.8
8 countries, excluding U.S.....	-10.2	2.6	4.6	.7	6.9	6.0	-2.9	.5	.1	6.0	4.6	2.9
G-7 countries.....	-9.5	5.8	5.5	2.8	5.7	1.6	-1.5	-1.1	.9	9.9	2.6	2.7
North America.....	-8.1	9.7	6.3	5.5	4.6	-3.5	.8	-3.7	1.8	15.3	.5	2.7
United States.....	-8.6	10.5	6.7	5.7	4.3	-4.1	.8	-3.4	1.9	15.6	.2	2.8
Canada.....	-2.9	1.9	1.8	2.9	8.6	3.3	1.1	-6.6	.9	11.3	3.7	3.7
4 European countries.....	-6.0	1.8	3.6	.2	4.3	2.9	-2.0	1.0	.9	4.1	2.6	2.7
France.....	-9.1	.3	3.0	-2.1	5.3	4.2	-1.5	2.2	-.5	3.4	2.8	2.9
West Germany.....	-5.1	5.1	3.4	2.0	5.8	2.9	-3.3	-.9	2.2	6.1	2.4	2.7
Italy.....	-3.4	1.8	2.4	-2.0	3.9	4.3	3.2	-.6	-.9	2.2	2.6	5.6
United Kingdom.....	-5.4	1.5	5.2	2.0	1.6	5.1	-4.3	3.4	2.0	3.4	2.4	.6
3 Pacific region countries.....	-10.2	4.5	7.2	11.3	11.6	12.4	-5.1	1.1	-1.4	8.3	8.1	2.9
Australia.....	-12.6	5.5	2.7	-3.9	9.3	4.0	.5	-4.4	-2.8	8.9	7.2	5.5
China: Taiwan.....	1.4	11.2	7.1	11.2	11.8	4.9	5.7	5.0	8.1	11.8	6.5	8.2
Japan.....	-20.5	4.2	7.8	1.3	11.9	13.8	-6.2	1.7	-1.8	8.1	8.3	2.4
<b>COINCIDENT INDEX</b>												
Total, 9 countries.....	-4.5	4.7	4.5	5.5	4.4	.3	.4	-2.4	1.7	6.1	3.7	3.1
8 countries, excluding U.S.....	-2.8	3.4	3.2	3.9	5.1	2.6	.4	.3	1.1	3.7	3.9	3.4
G-7 countries.....	-4.6	4.7	4.6	5.5	4.4	.2	.2	-2.4	1.9	6.0	3.6	3.0
North America.....	-6.3	6.6	6.1	7.4	3.7	-2.4	.7	-6.1	2.6	9.5	3.4	2.7
United States.....	-7.1	6.7	6.4	7.7	3.5	-2.8	.5	-6.2	2.7	9.9	3.3	2.6
Canada.....	1.7	5.5	2.6	4.1	5.2	2.3	3.7	-4.7	2.0	5.7	5.1	3.8
4 European countries.....	-3.9	2.8	2.6	3.4	4.3	1.5	-1.9	-.4	.6	2.2	3.1	3.6
France.....	-5.8	4.0	2.8	1.8	2.5	1.3	-.8	2.8	2.1	.7	1.4	3.8
West Germany.....	-3.2	3.1	2.8	3.4	4.6	2.5	-.9	-2.5	-.4	2.5	3.7	4.5
Italy.....	-3.5	4.2	2.3	2.7	5.1	5.4	-1.4	-.4	-1.4	3.7	2.9	2.0
United Kingdom.....	-2.9	.3	2.3	5.6	5.1	-2.0	-5.9	-1.2	1.5	2.5	4.2	3.4
3 Pacific region countries.....	-1.6	4.0	4.4	4.7	6.5	4.5	3.6	2.4	1.7	5.8	5.1	3.0
Australia.....	-3.2	2.1	-1.1	1.6	3.7	4.9	5.9	-2.1	-7.0	9.2	7.8	5.3
China: Taiwan.....	4.3	18.0	10.6	13.8	10.0	7.5	5.6	2.7	7.1	12.2	4.1	9.4
Japan.....	-1.5	4.0	5.0	4.8	6.8	4.4	3.2	2.9	2.6	5.2	4.8	2.5

- Represents zero.

Source: Center for International Business Cycle Research, Columbia Business School, New York, NY, *International Economic Indicators*, monthly.

**NO. 857. MANUFACTURING AND TRADE—SALES AND INVENTORIES IN CURRENT AND CONSTANT (1982)  
DOLLARS: 1970 TO 1986**

[In billions of dollars, except ratios]

ITEM	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
<b>CURRENT DOLLARS</b>												
<b>Sales, average monthly</b> .....	107	182	230	261	298	328	357	349	369	409	419	426
Manufacturing.....	59	87	113	127	144	154	168	163	171	188	190	189
Retail trade.....	31	49	60	67	75	80	87	89	98	107	115	121
Merchant wholesalers.....	24	47	56	67	79	93	102	96	100	113	115	115
<b>Inventories</b> <sup>1</sup> .....	178	289	351	400	451	494	528	582	574	620	645	654
Manufacturing.....	102	160	189	211	241	264	283	317	307	326	331	322
Retail trade.....	44	72	89	103	111	116	127	133	139	157	172	186
Merchant wholesalers.....	32	57	73	86	99	113	118	130	127	136	143	147
<b>Inventories-sales ratio</b> <sup>2</sup> .....	1.62	1.52	1.45	1.44	1.44	1.44	1.42	1.67	1.56	1.52	1.54	1.54
Manufacturing.....	1.91	1.77	1.58	1.55	1.61	1.61	1.74	1.94	1.80	1.73	1.74	1.70
Retail trade.....	1.39	1.38	1.43	1.44	1.42	1.40	1.46	1.49	1.42	1.47	1.50	1.54
Merchant wholesalers.....	1.30	1.19	1.22	1.22	1.16	1.10	1.20	1.35	1.27	1.20	1.24	1.28
<b>CONSTANT (1982) DOLLARS</b>												
<b>Sales, average monthly</b> <sup>3</sup> .....	260	306	351	373	373	372	357	346	383	403	414	431
Manufacturing.....	131	149	174	183	179	175	167	159	178	186	189	193
Retail trade.....	70	83	93	97	96	93	91	94	102	108	113	120
Merchant wholesalers.....	60	74	84	93	98	104	99	93	102	109	112	119
<b>Inventories</b> .....	428	496	547	578	589	591	602	582	584	631	638	643
Manufacturing.....	248	282	302	314	325	327	330	315	309	330	322	317
Retail trade.....	97	116	131	139	137	130	136	133	142	158	168	175
Merchant wholesalers.....	83	99	114	125	128	134	136	134	133	143	148	152
<b>Inventories-sales ratios</b> <sup>4</sup> .....	1.64	1.62	1.56	1.55	1.56	1.59	1.68	1.68	1.53	1.56	1.54	1.49
Manufacturing.....	1.90	1.90	1.73	1.71	1.81	1.87	1.98	1.98	1.74	1.77	1.70	1.64
Retail trade.....	1.39	1.39	1.42	1.44	1.42	1.40	1.48	1.41	1.39	1.46	1.50	1.46
Merchant wholesalers.....	1.39	1.34	1.36	1.34	1.30	1.29	1.37	1.44	1.30	1.31	1.32	1.28

<sup>1</sup> Book value; seasonally adjusted end-of-year data. See text, section 17.

<sup>2</sup> Average inventories to average sales. Average

inventories based on weighted averages of end-of-month figures. <sup>3</sup> Average monthly sales for fourth quarter. <sup>4</sup> End of fourth quarter inventories to average monthly sales for fourth quarter.

Source: Current dollars from U.S. Bureau of the Census, *Current Business Reports*, "Manufacturing and Trade Inventories and Sales" February 1987 and unpublished data; constant dollars from U.S. Bureau of Economic Analysis, 1970 and 1975 unpublished data; 1976-82, *Survey of Current Business*, February issues; 1983, *Survey of Current Business*, September 1986; and 1984-86, *Survey of Current Business*, September 1987.

## No. 858. MANUFACTURING CORPORATIONS, ASSETS, AND PROFITS, BY ASSET SIZE: 1970 TO 1986

[Corporations and assets as of end of 4th quarter; profit for entire year. Through 1979, corporations under \$10 million based on sample; \$10 million and over based on complete canvass, thereafter, under \$25 million based on sample and \$25 million and over based on complete canvass. For details regarding methodology, see source for first quarter, 1987]

YEAR AND ITEM	Unit	Total	ASSET-SIZE CLASS						
			Under \$10 mil.	\$10-\$25 mil.	\$25-\$50 mil.	\$50-\$100 mil.	\$100-\$250 mil.	\$250 mil.-\$1 bil.	\$1 bil. and over
<b>Corporations:</b>									
1970 <sup>1</sup>	Number	197,807	<sup>2</sup> 195,000	1,202	533	366	289	218	102
1975	Number	(NA)	(NA)	1,750	705	450	300	276	151
1976	Number	(NA)	(NA)	1,705	757	472	400	301	162
1977	Number	(NA)	(NA)	1,793	809	501	409	327	174
1978	Number	(NA)	(NA)	1,780	802	518	408	320	181
1979	Number	(NA)	(NA)	1,918	979	571	470	341	225
1980	Number	(NA)	(NA)	1,777	941	590	491	389	244
1981	Number	(NA)	(NA)	(NA)	845	603	520	376	259
1982	Number	(NA)	(NA)	(NA)	820	642	510	378	275
1983	Number	(NA)	(NA)	872	663	683	559	403	275
1984	Number	(NA)	(NA)	799	872	703	601	420	287
1985	Number	(NA)	(NA)	863	896	744	608	428	281
1986	Number	(NA)	(NA)	914	962	741	628	445	291
<b>Assets:</b>									
1970	Mil. dol.	578,234	69,101	20,471	20,138	25,946	47,783	112,475	282,320
1975	Mil. dol.	810,910	98,147	31,307	24,720	31,395	62,524	139,113	423,705
1976	Mil. dol.	883,860	98,355	32,244	26,538	32,970	62,633	149,412	481,709
1977	Mil. dol.	962,996	102,241	35,603	28,595	35,032	63,590	160,107	537,830
1978	Mil. dol.	1,098,433	114,006	38,358	30,813	37,428	68,907	164,958	633,963
1979	Mil. dol.	1,242,995	124,853	42,007	34,082	40,338	73,172	179,959	882,129
1980	Mil. dol.	1,384,474	128,839	43,569	34,930	41,363	75,284	179,959	1,011,105
1981	Mil. dol.	1,560,355	136,915	57,453	38,566	43,924	82,284	188,913	1,072,169
1982	Mil. dol.	1,614,018	141,363	55,327	38,333	48,013	78,786	180,047	1,072,169
1983	Mil. dol.	1,704,951	149,791	54,506	41,766	52,673	87,391	194,212	1,124,612
1984	Mil. dol.	1,853,457	156,871	59,449	49,419	53,517	96,745	206,698	1,233,288
1985	Mil. dol.	1,932,766	153,883	64,324	52,669	58,019	94,318	208,403	1,298,720
1986	Mil. dol.	2,022,158	<sup>3</sup> 140,778	70,269	50,892	62,411	102,849	221,704	1,373,255
<b>Net profit:<sup>4</sup></b>									
1970	Mil. dol.	28,572	2,812	811	836	1,101	2,315	5,862	14,832
1975	Mil. dol.	49,135	6,212	1,831	1,327	1,676	3,563	8,165	26,370
1976	Mil. dol.	64,519	7,799	2,238	1,714	2,070	3,945	10,422	36,330
1977	Mil. dol.	70,366	8,683	2,189	1,867	2,252	4,401	11,206	39,769
1978	Mil. dol.	81,185	9,417	2,487	2,284	2,602	4,712	12,311	47,391
1979	Mil. dol.	98,698	10,119	2,720	2,347	2,898	5,347	13,412	61,854
1980	Mil. dol.	92,443	7,770	2,235	1,904	2,479	4,532	11,485	62,041
1981	Mil. dol.	101,302	8,883	3,077	1,944	2,415	4,560	10,087	70,354
1982	Mil. dol.	171,028	5,193	2,278	1,196	1,421	2,643	6,892	51,405
1983	Mil. dol.	85,834	7,439	2,893	2,149	2,466	3,861	6,134	60,893
1984	Mil. dol.	107,648	10,037	3,417	2,527	2,877	4,864	9,278	74,648
1985	Mil. dol.	87,647	8,601	2,551	2,305	2,819	3,628	7,312	60,431
1986	Mil. dol.	83,122	<sup>5</sup> 6,659	2,988	2,129	2,514	3,884	7,572	57,376

NA Not available. <sup>1</sup> Source: U.S. Securities and Exchange Commission. <sup>2</sup> Data derived from U.S. Internal Revenue Service, *Statistics of Income*, annual. <sup>3</sup> 1986 data exclude estimates for corporations with less than \$250,000 in assets at time of sample selection. Prior periods include estimates for corporations in this size category. <sup>4</sup> After taxes.

Source: Except as noted, through 1981, U.S. Federal Trade Commission; thereafter, U.S. Bureau of the Census, *Quarterly Financial Report for Manufacturing, Mining and Trade Corporations*.

## No. 859. LARGEST INDUSTRIAL CORPORATIONS—SALES, ASSETS, NET INCOME, AND EMPLOYEES, BY SALES GROUP RANK: 1984 TO 1986

[Sales, assets, and net income in billions of dollars; employees in thousands, except percent. Excludes large privately owned companies that do not publish sales. Includes service and rental revenues, but companies must derive more than 50 percent of revenues from manufacturing or mining for years ending not later than Dec. 31 of year stated, sales exclude excise taxes collected by manufacturer and include discontinued operations]

RANK BY SALES GROUP	SALES			ASSETS <sup>1</sup>			NET INCOME <sup>2</sup>			EMPLOYEES <sup>3</sup>		
	1984	1985	1986	1984	1985	1986	1984	1985	1986	1984	1985	1986
<b>500 largest</b>	<b>1,758.7</b>	<b>1,807.1</b>	<b>1,723.8</b>	<b>1,409.4</b>	<b>1,519.4</b>	<b>1,560.8</b>	<b>86.9</b>	<b>69.6</b>	<b>64.1</b>	<b>14,195</b>	<b>14,065</b>	<b>13,362</b>
Top 100	1,223.0	1,284.1	1,193.7	985.5	1,088.6	1,114.7	63.0	53.5	48.0	8,792	8,789	8,529
101-200	282.5	285.5	262.4	210.7	224.8	219.6	12.4	7.0	8.4	2,486	2,465	2,302
201-300	139.6	140.7	131.9	110.1	114.0	107.1	6.1	4.9	3.6	1,449	1,390	1,233
301-400	81.1	83.6	82.2	65.3	72.9	75.5	3.2	2.5	2.4	892	886	792
401-500	52.3	53.2	53.5	37.8	39.9	43.9	2.2	1.7	1.7	573	525	512
<b>Percent of total:</b>												
Top 100	69.5	69.9	69.2	69.9	70.3	71.4	72.4	76.9	74.9	61.9	62.5	63.8
101-200	14.9	14.7	15.2	14.9	14.8	14.1	14.2	10.1	13.1	17.5	17.5	17.3
201-300	7.9	7.8	7.6	7.8	7.5	6.9	6.9	7.0	5.8	10.2	9.8	9.2
301-400	4.6	4.6	4.8	4.6	4.8	4.8	3.6	3.6	3.7	6.3	6.3	5.9
401-500	3.0	2.9	3.1	2.6	2.5	2.8	2.4	2.4	2.7	4.0	3.8	3.8

<sup>1</sup> Total assets employed in business at end of fiscal year, less depreciation and depletion. <sup>2</sup> After taxes, special charges, and credits. <sup>3</sup> As of year end, or yearly average.

Source: Time, Inc., New York, NY, *The Fortune Directories*. (Copyright.)

**NO. 860. 500 LARGEST INDUSTRIAL CORPORATIONS—SELECTED FINANCIAL ITEMS, BY INDUSTRY:  
1985 AND 1986**

[Data are medians and are ranked based on sales per employee for latest year shown. See headnote, table 859. Minus sign (–) indicates decrease. For definition of median, see Guide to Tabular Presentation]

INDUSTRY	SALES PER EMPLOYEE (\$1,000)		CHANGES IN PROFITS (percent)		SALES PER DOLLAR OF STOCKHOLDER'S EQUITY (dol.)		RETURN ON STOCKHOLDER'S EQUITY (percent)		RETURN ON SALES (percent)		TOTAL RETURN TO INVESTORS <sup>1</sup> (percent)	
	1985	1986	1985	1986	1985	1986	1985	1986	1985	1986	1985	1986
<b>Total.....</b>	<b>106.0</b>	<b>110.7</b>	<b>-4.1</b>	<b>(NA)</b>	<b>2.80</b>	<b>2.79</b>	<b>11.6</b>	<b>11.6</b>	<b>3.9</b>	<b>4.1</b>	<b>26.3</b>	<b>15.7</b>
Petroleum refining.....	486.3	405.9	-10.5	-45.7	3.49	2.93	9.9	5.8	2.7	2.4	26.2	12.3
Mining, crude-oil production.....	241.0	190.2	-19.8	30.7	1.86	1.85	11.0	7.7	4.8	3.8	10.7	8.5
Beverages.....	185.4	151.4	13.3	11.4	2.73	2.26	17.5	18.8	6.4	7.7	43.6	23.6
Food.....	155.2	167.3	4.6	14.2	5.73	5.42	15.0	15.8	3.0	2.8	54.4	20.4
Chemicals.....	124.1	164.4	-11.3	25.9	2.45	2.28	8.3	11.8	3.4	5.2	28.5	11.9
Soaps, cosmetics.....	123.6	163.0	-14.0	22.9	3.18	3.11	12.1	16.7	3.8	5.4	43.3	10.4
Metal manufacturing.....	128.7	134.3	-26.7	39.2	2.52	2.52	5.0	5.1	1.9	1.5	8.0	4.6
Paper, fiber, wood products.....	131.1	131.1	-5.6	19.4	2.98	2.30	8.3	11.8	3.8	4.9	24.6	16.2
Rubber, plastic products.....	98.9	94.2	-17.6	19.6	3.21	3.38	9.3	10.8	2.4	2.3	27.2	17.8
Glass, concrete, abrasives, gypsum.....	115.1	125.1	14.9	19.5	2.50	2.30	10.0	11.5	4.0	3.6	26.2	11.2
Pharmaceuticals.....	100.7	111.4	9.1	20.3	1.72	1.95	15.6	23.6	10.4	13.1	48.1	16.1
Publishing, printing.....	104.0	95.1	11.4	10.5	2.28	2.21	18.7	18.7	8.1	8.5	39.4	24.8
Shipbuilding, railroad and transportation equipment <sup>2</sup> .....	111.7	113.2	-25.6	-25.0	4.23	3.45	13.2	5.2	4.0	1.7	-6.1	17.0
Motor vehicles.....	97.5	105.5	-13.6	11.0	3.56	3.48	13.7	10.1	4.4	3.0	13.7	13.1
Metal products.....	87.5	94.9	4	10.8	2.80	2.93	12.7	13.3	4.6	4.4	31.0	17.5
Industrial and farm equipment.....	86.8	92.1	-13.2	18.6	2.52	2.59	5.8	3.7	2.3	1.2	13.3	7.4
Musical instruments, toys, sporting goods.....	135.4	131.8	60.8	-97.6	5.33	2.52	31.7	.3	7.8	.1	25.7	15.7
Aerospace.....	86.2	88.7	6.3	-4.3	3.85	4.01	13.1	12.4	4.2	4.1	24.7	20.1
Measuring, scientific, photo, equip.....	77.2	84.7	11.2	4.7	2.02	1.98	13.1	10.3	5.1	4.7	19.3	13.2
Electronics, appliances.....	72.7	81.6	-4.1	6.1	2.63	2.77	10.1	9.8	4.2	3.4	17.4	14.2
Office equipment (incl. computers).....	85.8	97.3	-6.2	25.6	2.01	1.97	11.0	10.8	4.3	5.5	14.1	14.2
Textiles, vinyl flooring.....	82.3	73.1	-19.9	33.1	3.42	3.24	5.6	8.1	1.8	3.0	34.6	17.2
Apparel.....	54.7	54.6	2.2	29.7	3.42	3.21	12.0	12.2	2.7	3.3	48.8	22.2

NA Not available. <sup>1</sup> Includes both price appreciation and dividend yield, i.e., to an investor in the company's stock.  
<sup>2</sup> Excludes motor vehicles and aircraft.

Source: Time, Inc., New York, NY, *The Fortune Directories*. (Copyright.)

**NO. 861. CORPORATE FUNDS—SOURCES AND USES: 1970 TO 1986**

[In billions of dollars, except percent. Covers nonfarm nonfinancial corporate business. See text, section 17]

SOURCE AND USE	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986
<b>Sources, total.....</b>	<b>102.2</b>	<b>158.4</b>	<b>352.6</b>	<b>347.6</b>	<b>382.5</b>	<b>327.6</b>	<b>431.3</b>	<b>503.4</b>	<b>483.1</b>	<b>486.8</b>
Internal.....	62.8	124.8	197.6	200.1	239.5	242.3	285.7	326.3	352.5	359.0
Domestic undistributed profits.....	7.6	36.4	71.5	53.7	50.2	11.6	22.2	31.5	17.9	6.1
IVA and CCA <sup>1</sup> .....	-1.6	-17.9	-57.2	-59.2	-38.0	-18.7	5.1	25.9	52.1	55.8
Capital consumption allowances.....	49.9	91.9	149.6	171.3	198.8	221.4	228.2	237.9	250.6	261.5
Foreign earnings <sup>2</sup> .....	6.9	14.4	33.7	34.4	28.5	28.1	30.2	31.0	31.9	35.5
External <sup>3</sup> .....	39.5	33.6	155.1	147.5	143.0	85.3	145.6	177.1	130.6	127.8
Percent of total.....	38.6	21.2	44.0	42.4	37.4	26.0	33.8	35.2	27.0	26.3
Credit market funds.....	34.2	27.1	87.8	84.3	93.7	80.6	87.6	116.4	82.1	87.2
Securities and mortgages.....	26.3	38.5	21.0	53.1	22.8	44.0	57.3	-10.0	15.3	26.6
Equity issues.....	5.7	9.9	-7.8	12.3	-11.5	11.4	28.3	-77.0	-81.6	-80.8
Bonds and mortgages <sup>4</sup> .....	20.6	28.6	28.8	40.3	34.2	32.6	29.0	67.0	96.9	107.3
Loans and short-term paper.....	7.9	-11.5	66.9	41.2	70.9	36.6	30.3	126.5	66.8	70.6
Other.....	5.3	6.5	67.3	53.2	49.3	4.7	58.0	60.7	48.5	30.6
Profit taxes payable.....	-3.7	-2.4	2.5	-1.7	-6.8	-14.1	5.8	.7	-1.8	1.0
Trade debt.....	7.5	6.3	52.9	39.6	30.8	5.0	40.8	34.4	33.0	4.2
Foreign direct investments in U.S.....	1.5	2.6	11.8	15.3	25.3	13.8	11.5	25.6	17.2	25.3
<b>Uses, total.....</b>	<b>98.0</b>	<b>153.4</b>	<b>362.8</b>	<b>343.2</b>	<b>349.2</b>	<b>292.0</b>	<b>399.1</b>	<b>469.1</b>	<b>438.5</b>	<b>437.2</b>
Capital expenditures.....	79.3	112.2	238.3	244.1	286.3	256.3	274.8	371.2	353.1	352.3
Increase in financial assets.....	18.7	41.2	124.5	99.1	62.8	35.7	124.3	97.9	85.4	84.9
Discrepancy (sources less uses).....	4.2	5.0	-10.1	4.4	33.3	35.6	32.2	34.3	44.6	49.6

<sup>1</sup> Inventory valuation and capital consumption adjustment. <sup>2</sup> Foreign branch profits, dividends, and subsidiaries earnings retained abroad. <sup>3</sup> Net increases in liability. <sup>4</sup> Includes industrial pollution control revenue bonds, issued by State and local governments.

Source: Board of Governors of the Federal Reserve System. Data derived from *Flow of Funds Accounts*, annual.

## NO. 862. CORPORATE PROFITS, TAXES, AND DIVIDENDS: 1970 TO 1986

[In billions of dollars. Covers corporations organized for profit. Represents profits to U.S. residents, without deduction of depletion charges and exclusive of capital gains and losses; intercorporate dividends from profits of domestic corporations are eliminated; net receipts of dividends, reinvested earnings of incorporated foreign affiliates, and earnings of unincorporated foreign affiliates are added]

ITEM	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Profits before taxes .....	76.0	134.8	200.4	233.5	257.2	237.1	226.5	169.6	207.6	240.0	224.8	231.9
Less: Income tax liability <sup>1</sup> .....	34.4	60.9	73.0	83.5	88.0	84.8	81.1	63.1	77.2	93.9	96.7	105.0
Equals: Profits after taxes .....	41.7	83.9	127.4	150.0	169.2	152.3	145.4	106.5	130.4	146.1	128.1	126.8
Less: Net dividends <sup>2</sup> .....	22.5	29.6	39.5	44.7	50.1	54.7	63.6	66.9	71.5	79.0	81.3	86.8
Equals: Undistributed profits .....	19.2	54.3	87.9	105.2	119.1	97.6	81.8	39.6	58.9	67.0	46.8	40.0
Capital consumption allowances <sup>3</sup> .....	57.2	90.2	111.5	126.3	144.3	164.6	196.3	225.8	259.7	287.2	322.7	328.8
Profits after tax plus capital consumption allowances <sup>3</sup> .....	98.9	174.1	238.9	276.3	313.5	316.9	341.7	332.3	390.1	433.3	450.8	455.7

<sup>1</sup> Federal, State and local. <sup>2</sup> Disbursements to U.S. residents, measured after eliminations of intercorporate dividends. <sup>3</sup> Without capital consumption adjustment. Includes depreciation and accidental damages.

## NO. 863. CORPORATE PROFITS—FINANCIAL AND NONFINANCIAL INDUSTRIES: 1970 TO 1986

[In billions of dollars. Minus sign (-) indicates loss. See headnote, table 862]

ITEM	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
<b>Corporate profits with IVA <sup>1</sup> and CCA <sup>2</sup></b> .....	<b>74.7</b>	<b>117.6</b>	<b>174.8</b>	<b>197.2</b>	<b>200.1</b>	<b>177.2</b>	<b>188.0</b>	<b>150.0</b>	<b>213.7</b>	<b>266.9</b>	<b>277.6</b>	<b>284.4</b>
Domestic Industries .....	67.8	103.2	156.5	175.0	186.4	142.8	159.4	121.9	183.6	236.0	247.1	253.2
Financial .....	12.3	11.6	21.6	29.1	27.3	19.7	15.2	10.1	18.0	13.6	19.4	27.5
Nonfinancial .....	55.4	91.6	134.9	146.0	139.1	123.1	144.2	111.9	165.6	222.4	227.7	225.8
Rest of the world .....	6.9	14.4	18.3	22.2	33.7	34.4	28.5	28.0	30.2	30.9	30.5	31.2
<b>Corporate profits with IVA <sup>1</sup></b> .....	<b>69.5</b>	<b>123.9</b>	<b>183.8</b>	<b>208.2</b>	<b>214.1</b>	<b>194.0</b>	<b>202.3</b>	<b>159.2</b>	<b>196.7</b>	<b>234.2</b>	<b>224.1</b>	<b>238.4</b>
Domestic Industries .....	62.6	109.5	165.5	186.0	190.4	159.6	173.8	131.2	166.6	203.3	193.6	207.2
Financial .....	12.2	11.2	21.6	29.1	27.8	21.0	16.5	11.8	18.1	13.0	18.4	26.1
Federal Reserve banks .....	3.6	5.7	6.2	7.7	9.6	11.9	14.5	15.4	14.8	16.7	16.8	16.0
Other .....	8.6	5.5	15.4	21.4	18.2	9.0	1.9	-3.8	3.3	-3.7	1.6	10.1
Nonfinancial .....	50.4	98.3	143.9	158.8	152.6	138.6	157.3	119.4	148.5	190.3	175.2	181.1
Manufacturing .....	26.7	53.6	80.6	88.7	87.5	77.1	88.5	58.0	70.1	88.8	72.2	69.4
Durable goods <sup>3</sup> .....	10.2	19.8	38.6	44.6	37.3	21.3	21.0	2.1	17.2	38.1	29.2	31.1
Primary metal industries .....	.8	2.7	1.3	3.5	3.6	2.5	3.1	-4.9	-4.9	-6	-2.5	-1.8
Fabricated metal products .....	1.1	3.1	4.4	4.9	5.2	4.3	4.4	2.4	3.0	4.7	4.0	4.1
Machinery, except electrical .....	3.0	4.8	8.9	9.6	9.1	7.7	8.6	4.1	3.1	6.2	4.2	3.9
Electrical and electronic equipment .....	1.2	2.4	5.8	6.7	5.2	4.7	4.1	1.7	3.7	5.5	4.5	4.3
Motor vehicles and equipment .....	1.2	2.0	9.4	8.9	4.7	-2.5	1.1	-8	5.1	9.0	6.5	5.9
Nondurable goods <sup>3</sup> .....	16.5	33.8	42.0	44.0	50.2	55.8	67.5	55.9	53.0	50.7	43.0	38.4
Food and kindred products .....	3.2	8.8	6.9	6.2	5.8	6.1	8.7	7.0	7.2	6.7	7.0	8.7
Chemicals and allied products .....	3.9	6.4	7.8	8.2	7.2	5.4	8.2	5.2	6.7	8.0	4.2	6.7
Petroleum and coal products .....	3.5	9.5	12.9	14.7	22.5	31.4	36.5	29.1	21.4	17.2	13.7	5.4
Transportation and public utilities .....	8.2	10.3	17.8	20.9	15.2	17.6	19.5	19.3	28.5	38.5	37.5	42.4
Wholesale and retail trade .....	9.6	22.2	27.5	27.3	28.7	21.6	32.5	34.6	38.9	51.2	51.4	52.1
Other .....	5.8	12.2	17.8	20.0	21.1	22.4	16.8	7.5	10.9	11.8	14.1	17.2

<sup>1</sup> Inventory valuation adjustments. <sup>2</sup> Capital consumption adjustment. <sup>3</sup> Includes other industries not shown separately.

## NO. 864. CORPORATE PROFITS, BY INDUSTRY: 1980 TO 1986

[In billions of dollars. Profits are without inventory valuation and capital consumption adjustments. Minus sign (-) indicates loss. See headnote, table 862]

INDUSTRY	BEFORE TAXES					AFTER TAXES						
	1980	1982	1983	1984	1985	1980	1982	1983	1984	1985	1986	
<b>Domestic Industries, total</b> .....	<b>202.7</b>	<b>141.5</b>	<b>177.5</b>	<b>209.0</b>	<b>194.3</b>	<b>200.7</b>	<b>117.9</b>	<b>78.5</b>	<b>100.2</b>	<b>115.1</b>	<b>97.8</b>	<b>95.6</b>
Agriculture <sup>1</sup> .....	.6	-1	-2	-1	-1	-1	-2	-2	-4	-2	-3	-3
Mining .....	6.5	-2.1	-1.8	-1.6	-1.4	-2.0	4.7	-2.7	-2.1	-2.4	-2.4	-3.1
Construction .....	6.5	3.1	3.4	4.3	3.9	4.6	4.4	1.8	2.1	3.0	2.9	3.2
Manufacturing .....	96.3	62.5	74.1	92.1	72.8	67.3	57.1	37.1	42.6	53.7	39.4	30.4
Transportation .....	3.7	.1	4.5	6.7	6.8	6.8	2.1	-9	2.7	4.8	4.7	4.1
Communications .....	7.5	7.9	9.1	11.7	11.6	13.3	5.6	6.4	7.2	8.1	7.6	8.0
Public utilities .....	9.7	12.9	14.6	20.1	18.3	18.2	7.1	10.3	10.6	14.6	12.7	11.9
Wholesale and retail trade .....	39.0	37.7	45.0	52.7	52.1	52.6	26.8	27.6	31.8	37.3	35.7	35.2
Finance, insurance <sup>2</sup> .....	22.9	9.2	17.4	11.4	17.1	26.0	3.1	-8.7	-2.4	-11.4	-12.1	-4.0
Services .....	9.9	10.3	11.5	11.3	13.1	14.1	6.9	7.9	8.2	7.7	9.3	10.1
Rest of world <sup>3</sup> .....	34.4	28.0	30.2	30.9	30.5	31.2	34.4	28.0	30.2	30.9	30.5	31.2

<sup>1</sup> Includes forestry and fisheries. <sup>2</sup> Includes real estate. <sup>3</sup> Consists of receipts by all U.S. residents, including both corporations and persons, of earnings of unincorporated foreign affiliates, dividends from their incorporated foreign affiliates, and their share of reinvested earnings of their incorporated foreign affiliates, net of corresponding outflows.

Source of tables 862-864: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July 1987 issue.

**NO. 865. MANUFACTURING CORPORATIONS—SALES, PROFITS, STOCKHOLDERS' EQUITY, AND DEBT:**  
1960 TO 1986

[In billions of dollars. Prior to 1970, excludes newspapers. Data are not necessarily comparable from year to year due to changes in accounting procedures, industry classifications, sampling procedures, etc.; for detail, see source. See also *Historical Statistics, Colonial Times to 1970*, series P 93-106]

YEAR	ALL MANUFACTURING CORPS.					DURABLE GOODS INDUSTRIES					NONDURABLE GOODS INDUSTRIES				
	Sales (net)	Profits		Stockholders' equity <sup>1</sup>	Debt <sup>1</sup>	Sales (net)	Profits		Stockholders' equity <sup>1</sup>	Debt <sup>1</sup>	Sales (net)	Profits		Stockholders' equity <sup>1</sup>	Debt <sup>1</sup>
		Be-fore taxes	After taxes				Be-fore taxes	After taxes				Be-fore taxes	After taxes		
1960.....	346	28	15	165	41	174	14	7	82	21	172	14	8	83	20
1965.....	492	47	28	212	58	257	26	15	105	28	235	20	13	106	30
1970.....	709	48	29	307	134	363	23	13	155	71	346	25	16	152	63
1972.....	850	63	37	343	149	436	34	18	171	77	414	30	18	172	72
1973.....	1,017	81	48	374	164	527	44	25	189	86	490	38	23	185	78
1974.....	1,061	82	59	395	167	529	41	25	196	87	532	51	34	199	80
1975.....	1,065	80	49	423	183	521	35	21	206	94	544	45	28	215	89
1978.....	1,203	105	65	463	188	590	51	31	224	91	614	54	34	238	97
1977.....	1,328	115	70	497	200	657	59	35	240	95	671	57	36	257	106
1978.....	1,496	133	81	541	222	761	70	42	263	106	736	63	39	278	117
1979.....	1,742	154	99	600	252	866	72	45	292	123	876	82	54	308	129
1980.....	1,897	145	92	665	292	883	57	36	316	143	1,014	88	57	349	149
1981.....	2,145	159	101	743	335	979	67	42	350	159	1,165	91	60	393	176
1982.....	2,039	108	71	770	371	913	35	22	356	177	1,126	74	49	415	193
1983.....	2,114	133	86	813	368	973	49	30	372	168	1,141	84	56	440	200
1984.....	2,335	166	108	864	405	1,108	76	49	396	166	1,228	90	59	469	239
1985.....	2,331	137	88	866	454	1,143	61	39	421	187	1,189	76	49	445	267
1986 <sup>2</sup> .....	2,221	129	83	875	501	1,126	52	33	436	203	1,096	78	51	438	298

<sup>1</sup> Annual data are average equity or debt for the year (using four end-of-quarter figures). <sup>2</sup> 1986 data exclude estimates for corporations with less than \$250,000 in assets at time of sample selection. Prior periods include estimates for corporations in this size category.

Source: Through 1981, U.S. Federal Trade Commission, thereafter, U.S. Bureau of the Census, *Quarterly Financial Report for Manufacturing, Mining and Trade Corporations*. In U.S. Council of Economic Advisers, *Economic Report of the President*, annual.

**NO. 866. CORPORATE PROFITS, STOCKHOLDERS' EQUITY, SALES, AND DEBT RATIOS, BY INDUSTRY GROUP: 1980 TO 1986**

[Averages of quarterly figures at annual rates. Based on sample; see source for discussion of methodology. Minus sign (—) indicates loss. See headnote, table 865]

INDUSTRY GROUP	RATIO OF PROFITS TO STOCKHOLDERS' EQUITY (percent)				PROFITS PER DOLLAR OF SALES (cents)				RATIO OF STOCKHOLDERS' EQUITY TO DEBT			
	1980	1984	1985	1986	1980	1984	1985	1986	1980	1984	1985	1986
<b>All manufacturing corporations<sup>1</sup></b> .....	13.9	12.5	10.1	9.5	4.9	4.6	3.8	3.8	2.3	2.1	1.9	1.9
<b>Durable goods industries</b> .....	11.2	12.4	9.2	7.5	4.0	4.4	3.4	2.9	2.2	2.4	2.2	2.2
Stone, clay, and glass products.....	10.9	9.4	7.9	10.5	4.2	3.6	3.1	3.9	1.9	1.7	1.7	1.5
Primary metal industries.....	11.7	-1.5	-7.9	-10.0	4.1	-8	-2.6	-3.0	1.7	1.2	1.2	1.1
Iron and steel.....	9.0	-2.7	-11.0	-38.5	2.9	-8	-2.6	-7.3	1.7	1.0	.8	.7
Nonferrous metals.....	15.8	-5	-5.7	4.3	5.8	-3	-2.5	2.0	1.8	1.5	1.8	1.6
Fabricated metal products.....	13.9	12.9	9.2	8.7	4.2	3.9	2.8	2.8	2.1	1.8	1.6	1.6
Machinery, exc. electrical.....	15.0	11.8	9.3	6.0	6.5	5.8	4.7	3.3	2.2	2.8	2.0	2.5
Electrical and electronic equipment.....	15.1	11.7	8.3	8.9	5.0	4.4	3.4	3.9	2.6	2.9	2.7	2.5
Transportation equipment.....	-6	20.4	15.4	12.4	-3	5.2	4.1	3.6	2.7	3.3	2.9	2.7
Motor vehicles and equipment.....	-9.3	24.8	18.2	14.4	-3.4	6.1	4.9	4.2	3.4	4.0	4.2	3.2
Aircraft, guided missiles and parts.....	16.0	14.1	11.1	9.4	4.3	4.1	3.1	2.9	2.6	3.7	2.6	2.8
Instruments and related products.....	17.5	12.5	10.1	3.1	9.3	7.0	5.7	1.8	4.3	4.1	3.5	3.0
<b>Nondurable goods industries</b> .....	16.4	12.6	11.5	11.5	5.8	4.8	4.1	4.5	2.3	2.0	1.7	1.5
Food and kindred products.....	13.3	15.3	15.3	16.2	3.4	3.3	4.1	4.2	1.9	1.5	1.4	1.1
Tobacco manufactures.....	19.6	20.4	(8)	(8)	11.7	12.0	(8)	(8)	1.8	2.3	(8)	(8)
Textile mill products.....	8.5	11.2	8.6	13.1	2.2	3.2	2.4	3.7	2.0	1.8	1.5	1.6
Paper and allied products.....	12.1	10.7	9.7	10.7	5.1	4.2	4.0	4.4	2.0	1.7	1.7	1.5
Printing and publishing.....	16.4	18.2	18.2	18.6	5.5	6.0	6.5	6.7	2.1	2.0	1.7	1.6
Chemicals and allied products.....	15.4	14.0	9.4	12.9	7.1	6.8	4.7	6.2	2.2	2.3	2.1	1.7
Industrial.....	11.9	11.6	4.2	12.5	5.4	5.4	2.2	6.0	1.9	2.1	1.8	1.5
Drugs.....	19.9	20.2	15.2	23.0	13.2	13.3	9.8	14.6	3.0	3.0	3.2	2.5
Petroleum and coal products.....	20.0	10.0	8.5	6.1	7.7	5.1	4.0	3.8	3.4	2.0	1.6	1.5
Rubber and misc. plastics products.....	6.7	13.6	9.5	11.9	2.0	3.8	2.6	3.4	1.6	2.0	1.6	1.5
<b>Mining corporations, total<sup>2</sup></b> .....	19.2	4.0	-4.0	-16.6	11.3	3.0	-3.2	-14.4	1.3	1.0	1.0	1.0
<b>Retail trade corporations, total<sup>2</sup></b> .....	13.2	14.8	12.5	12.3	1.7	2.6	2.2	2.3	1.2	1.5	1.4	1.3
<b>Wholesale trade corporations, total<sup>2</sup></b> .....	17.3	9.9	8.7	8.4	1.8	1.2	1.0	1.1	1.2	1.0	1.0	1.0

<sup>1</sup> Includes other industries not shown separately.

<sup>2</sup> Beginning 1985, tobacco included in food and kindred products.

<sup>3</sup> Beginning 1984, represents results of companies with assets over \$25 million.

Source: 1980, U.S. Federal Trade Commission, thereafter, U.S. Bureau of the Census, *Quarterly Financial Report for Manufacturing, Mining and Trade Corporations*. In U.S. Council of Economic Advisers, *Economic Report of the President*, annual.

**No. 867. U.S. LARGEST PUBLIC COMPANIES—RETURN ON EQUITY, DEBT EQUITY RATIO, SALES, AND EARNINGS PER SHARE—BY INDUSTRY: 1982 TO 1986**

[For year ending in September. Included in the Forbes Universe of 1,000 companies is every firm with revenue of over \$475 million in 1986. Represents industry medians; calculated by listing companies in rank order and selecting the midpoint. Where there is an even number of companies, an arithmetic average of the two middle companies is substituted]

INDUSTRY	PROFITABILITY					GROWTH					
	Return on equity <sup>1</sup>		1986			Sales <sup>4</sup>			Earnings per share		
	5-year rank	1982-86 average (per-cent)	1986 (per-cent)	Debt/equity ratio <sup>2</sup>	Net profit margin <sup>3</sup> (per-cent)	5-year rank	1982-86 average (per-cent)	1986 (per-cent)	5-year rank	1982-86 average (per-cent)	1986 (per-cent)
<b>All-Industry medians..</b>	(x)	12.6	13.0	46.0	3.9	(x)	7.1	3.9	(x)	-9	2.8
Beverage and tobacco.....	1	21.9	18.2	33.8	6.5	12	7.6	11.0	5	9.2	10.4
Health.....	2	19.3	15.6	31.3	8.3	11	8.3	13.6	3	10.5	10.5
Communications media.....	3	19.1	20.9	46.0	7.3	4	11.5	12.0	1	15.6	9.0
Food distributors.....	4	17.0	13.0	62.0	1.2	9	9.5	8.8	4	9.6	1.2
Electrical equipment.....	5	16.7	16.7	13.9	6.3	21	5.2	7.3	8	7.1	9.8
Financial services.....	6	16.5	13.8	120.3	3.9	1	15.8	9.2	16	-9	8.9
Retailing.....	6	16.5	13.0	52.4	2.7	3	12.6	8.8	2	11.6	7.5
Industrial, office services.....	8	15.3	14.5	24.5	4.0	12	7.6	14.2	6	8.8	5.2
Food processors.....	9	15.1	14.6	51.3	3.1	20	5.3	6.0	8	7.1	12.9
Banks and thrifts.....	10	15.0	15.5	41.9	7.8	2	13.7	5.4	7	7.8	12.0
Aerospace and defense.....	11	14.9	12.3	28.1	3.9	29	4.7	5.4	14	6	-7.9
Electric utilities.....	12	14.3	14.7	93.5	13.1	10	8.4	-6	10	6.8	2.8
Telecommunications.....	12	14.3	13.3	63.0	8.8	5	11.4	3.8	20	-3.0	3.0
Natural gas.....	14	14.0	11.3	81.9	4.8	14	7.5	-6.5	11	5.2	-8.5
Consumer products.....	15	12.7	13.6	41.7	4.4	26	3.9	7.4	17	-1.7	9.3
Insurance.....	16	12.6	14.6	17.2	5.8	6	11.1	16.3	12	3.4	48.2
Leisure and recreation.....	17	12.5	13.4	82.2	5.2	21	5.2	21.6	26	-10.9	7.7
Computers and electronics.....	18	12.2	6.3	20.5	3.0	7	10.9	1.8	22	-4.2	-35.3
Packaging.....	19	11.9	13.1	44.5	3.8	18	6.2	6.0	13	1.3	9.6
Surface transportation.....	19	11.9	10.4	81.2	3.1	15	7.2	2.9	14	6	-10.4
Chemicals.....	21	11.8	10.9	42.7	4.3	28	1.5	1.1	25	-10.2	1.1
Conglomerates.....	21	11.8	9.0	60.1	2.9	27	2.3	-2.3	19	-2.3	-20.1
Automotive.....	23	11.5	10.1	36.7	2.9	17	6.5	3.0	21	-3.8	-29.9
Apparel, shoes and textiles.....	24	11.3	8.7	35.5	2.8	19	5.5	-2.1	18	-2.0	39.6
Oil.....	25	10.9	( <sup>5</sup> )	63.1	( <sup>5</sup> )	29	5	-15.4	26	-34.0	(NS)
Construction.....	26	10.5	8.6	40.2	3.1	24	4.6	2.6	24	-5.1	-8.3
Paper.....	27	10.4	10.4	63.5	4.6	16	7.1	3.9	22	-4.2	-7
Coal.....	28	6.4	11.3	75.3	3.8	25	4.5	2.4	29	(NS)	-13.5
Air transport.....	29	6.1	2.3	83.8	.7	8	9.8	2.7	29	(NS)	-93.2
Heavy equipment.....	30	5.7	6.7	42.8	2.2	30	-2.9	1.0	27	-33.1	-37.6
Metals.....	31	( <sup>5</sup> )	( <sup>5</sup> )	50.7	( <sup>5</sup> )	31	-3.7	-3.0	28	(NS)	(NS)

NS Not significant. X Not applicable. <sup>1</sup> Represents net income divided by common shareholders' equity. Common shareholders' equity is total shareholders' equity including the stated value of all preferred stock at the beginning of each year minus the involuntary liquidating value of non-convertible preferred shares. <sup>2</sup> Long-term debt, including capitalized leases, divided by total equity, including preferred equity. <sup>3</sup> Net income divided by net sales, including other operating income. <sup>4</sup> Net sales plus other operating revenue. <sup>5</sup> Deficit.

Source: Forbes, Inc., New York, NY, *Forbes Annual Report on American Industry*. (Copyright.)

**No. 868. SMALL BUSINESS ADMINISTRATION LOANS TO ALL SMALL BUSINESSES: 1970 TO 1986**

[For fiscal year ending in year shown; see text, section 9. A small business must be independently owned and operated, must not be dominant in its particular industry, and must meet standards set by the Small Business Administration as to its annual receipts or number of employees. Loans include both direct and guaranteed loans]

LOANS APPROVED	Unit	1970-1986	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Loans, all businesses.....	1,000.....	24.7	31.8	31.7	30.2	31.7	28.7	15.4	19.2	21.3	19.3	16.8
Minority-owned businesses.....	1,000.....	5.4	6.2	6.1	5.5	6.0	5.2	2.5	2.7	3.1	2.8	2.0
Percent of all businesses.....	Percent.....	22	19	19	18	19	18	16	14	15	14	12
Value of total loans.....	Mill dol.....	2,602	3,049	3,314	3,407	3,858	3,668	2,038	3,007	3,450	3,217	3,013
Loans to minority-operated businesses.....	Mill dol.....	315	352	402	428	470	454	238	295	383	324	265
Percent of all loans.....	Percent.....	12	12	12	13	12	12	12	10	11	11	10

Source: U.S. Small Business Administration, unpublished data.

### No. 869. U.S. PARENT COMPANIES AND THEIR FOREIGN AFFILIATES—ASSETS, SALES, EMPLOYMENT, EMPLOYEE COMPENSATION, U.S. EXPORTS AND IMPORTS: 1985

[In millions of dollars, except as indicated]

INDUSTRY <sup>1</sup>	U.S. PARENTS				FOREIGN AFFILIATES					
	Total assets	Sales	Employment (1,000)	Employee compensation	Total assets	Sales	Employment (1,000)	Employee compensation	U.S. exports shipped to foreign affiliates	U.S. imports shipped from foreign affiliates
<b>All Industries</b> .....	<b>3,453,875</b>	<b>2,581,114</b>	<b>18,074.7</b>	<b>552,607</b>	<b>837,889</b>	<b>898,032</b>	<b>6,425.6</b>	<b>102,316</b>	<b>69,441</b>	<b>70,103</b>
Petroleum.....	544,625	440,875	1,009.7	39,819	183,389	281,037	334.9	9,811	2,470	15,256
Manufacturing.....	1,273,104	1,245,314	10,477.6	348,030	305,131	588,175	4,355.2	66,315	49,531	48,396
Food and kindred products.....	117,590	148,754	1,096.6	26,048	23,358	37,165	400.6	4,654	1,258	776
Chemical and allied products.....	188,424	172,765	1,239.0	41,247	67,493	73,111	581.9	9,505	5,505	2,904
Primary and fabricated metals.....	101,189	92,408	758.9	26,213	20,891	20,341	276.9	3,852	1,159	1,117
Machinery (except electrical).....	183,266	141,204	1,412.9	50,367	48,660	60,423	593.3	11,338	7,699	5,516
Electric and electronic equipment.....	157,340	148,691	1,566.0	51,875	27,478	33,807	684.5	8,003	6,246	7,532
Transportation equipment.....	324,218	317,282	2,186.4	89,431	80,315	98,507	928.8	16,527	22,778	25,860
Other.....	221,076	224,208	2,217.2	63,851	56,938	64,822	899.2	12,437	4,885	4,861
Wholesale trade.....	53,579	167,265	355.1	7,337	68,346	131,128	464.4	9,400	16,083	4,832
Finance (except banking), insurance, real estate.....	1,013,383	256,401	904.8	31,295	208,269	31,777	140.5	2,853	17	-
Services.....	76,832	65,985	1,177.0	23,072	20,848	19,613	308.4	5,364	222	24
Other industries.....	492,353	405,274	4,150.7	102,054	51,907	66,302	822.3	6,472	1,118	1,625

- Represents zero. <sup>1</sup> Represents industry of U.S. parent or industry of foreign affiliate.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, June 1987.

### No. 870. CORPORATE PHILANTHROPY AS A PERCENT OF PRETAX NET INCOME: 1983 TO 1985

[Data are based on a sample of 1,200 corporations. Corporation must have given at least \$100,000]

INDUSTRY CLASS	1983	1984	1985	INDUSTRY CLASS	1983	1984	1985
<b>All firms, average</b> .....	<b>.83</b>	<b>.93</b>	<b>.99</b>	<b>Manufacturing firms, average—Con.</b>			
<b>Manufacturing firms, average</b> .....	<b>.86</b>	<b>.90</b>	<b>1.05</b>	Pharmaceuticals.....	1.16	1.30	1.23
Chemicals.....	1.29	1.03	1.31	Primary metal industries.....	2.94	1.24	.56
Fabricated machinery and equipment.....	.94	.90	1.33	Printing and publishing.....	1.10	1.19	1.22
Fabricated metal products.....	.88	1.26	.94	Rubber, misc. plastic products.....	1.68	.80	1.25
Food, beverage and tobacco.....	.89	1.10	1.10	Stone, clay and glass products.....	1.45	1.04	1.89
Machinery, nonelectrical.....	1.09	.95	1.39	Textiles.....	1.29	2.89	4.97
Mining.....	.49	.88	1.69	Transportation equipment.....	.73	.88	.99
Paper and like products.....	1.68	1.15	1.23	<b>Nonmanufacturing firms, average</b> .....	<b>.76</b>	<b>1.01</b>	<b>.86</b>
Petroleum and gas.....	.84	.70	.76				

Source: Platzer, Linda Cardillo, *Annual Survey of Corporate Contributions*, The Conference Board, New York, NY. (Copyright.)

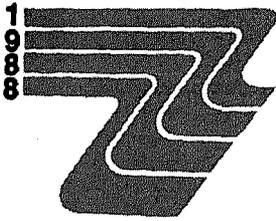
### No. 871. PATENTS AND TRADEMARKS: 1961 TO 1986

[In thousands. Calendar year data. Covers patents issued to citizens of the United States and residents of foreign countries. For information on copyrights, see table 895. See also *Historical Statistics, Colonial Times to 1970*, series W 96-108]

ITEM	1961-1970	1971-1980	1978	1979	1980	1981	1982	1983	1984	1985	1986
<b>Patent applications filed</b> .....	<b>967.8</b>	<b>1,091.5</b>	<b>109.3</b>	<b>108.9</b>	<b>113.0</b>	<b>114.5</b>	<b>118.4</b>	<b>112.4</b>	<b>120.6</b>	<b>127.1</b>	<b>133.0</b>
Inventions.....	912.3	1,019.4	100.9	100.5	104.3	107.4	109.6	103.7	111.3	117.0	122.4
Designs.....	51.6	65.8	7.5	7.5	7.8	7.4	8.2	8.1	8.7	9.6	9.9
Botanical plants.....	1.2	1.7	.2	.2	.2	.2	.2	.3	.3	.2	.3
Reissues.....	2.7	4.6	.7	.6	.6	.5	.4	.3	.3	.3	.3
<b>Patents issued</b> .....	<b>618.3</b>	<b>731.0</b>	<b>70.5</b>	<b>52.4</b>	<b>66.2</b>	<b>71.0</b>	<b>63.3</b>	<b>62.0</b>	<b>72.7</b>	<b>77.2</b>	<b>77.0</b>
Inventions.....	585.1	687.8	66.1	48.9	61.8	65.8	57.9	56.9	67.2	71.7	70.9
Individuals.....	143.3	152.0	14.3	9.3	13.3	14.1	11.9	10.5	12.3	12.9	13.3
Corporations: U.S.....	343.1	343.3	31.3	23.8	29.4	29.5	25.8	25.7	30.1	31.3	29.8
Foreign <sup>1</sup> .....	83.8	176.4	19.3	14.8	16.2	21.0	19.2	19.6	23.6	26.4	27.0
U.S. Government.....	14.9	16.1	1.2	.9	1.0	1.1	1.0	1.0	1.2	1.1	1.0
Designs.....	30.2	36.1	3.9	3.1	3.9	4.7	4.9	4.6	4.9	5.1	5.5
Botanical plants.....	1.0	1.6	.2	.1	.1	.2	.2	.2	.2	.2	.2
Reissues.....	2.1	3.4	.4	.3	.4	.3	.4	.3	.3	.3	.3
Published applications <sup>2</sup> .....	.6	1.3	.1	.1	(?)	.1	(?)	(?)	(?)	(?)	(?)
Foreign country residents <sup>3</sup> .....	124.3	237.3	25.1	18.2	24.7	28.5	24.0	25.4	30.5	33.9	34.6
<b>Certificates of trademarks issued</b> .....	<b>235.1</b>	<b>309.0</b>	<b>35.1</b>	<b>25.9</b>	<b>24.7</b>	<b>48.6</b>	<b>48.4</b>	<b>46.8</b>	<b>54.0</b>	<b>71.7</b>	<b>84.5</b>
Trademarks.....	196.1	250.6	29.6	20.5	18.7	42.7	42.4	40.5	48.6	65.8	49.4
Trademark renewals.....	39.0	58.4	5.5	5.4	5.9	5.9	6.0	6.2	5.4	5.9	5.1

<sup>2</sup> Less than 50. <sup>1</sup> Includes patents to foreign governments. <sup>2</sup> Abstracts of technical disclosure of patent published at request of applicant or owner. The practice called "Defensive Publications" began Nov. 1968 and ended July 1986. The current practice, called "Statutory Invention Registrations," began May 1985. <sup>3</sup> Includes patent inventions and patents for designs, botanical plants and reissues. Beginning 1986, also includes published applications.

Source: U.S. Patent and Trademark Office. Fiscal-year figures are published in the *Commissioner of Patents and Trademarks Annual Report*.



# Communications

This section presents statistics on the usage, finances, and operations of the Postal Service and of the various communications media: Telephone, telegraph, radio, television, newspapers and periodicals. Expenditures data for advertising in the media are also included.

**Postal Service.**—The Postal Service provides mail processing and delivery services within the United States. The Postal Reorganization Act of 1970 created the Postal Service, effective July 1971, as an independent establishment of the Federal Executive Branch; it also placed restrictions on the private delivery of mail.

"Revenue and cost analysis" is the term used by the Postal Service to describe its system of attributing revenues and costs to classes of mail and service. This system draws primarily upon probability sampling techniques to develop estimates of revenues, volumes, and weights, as well as costs by class of mail and special service. The costs attributed to classes of mail and special services are primarily incremental costs which vary in response to changes in volume; they account for roughly 60 percent of the total costs of the Postal Service. The balance represents "institutional costs" which includes funds for research and development, portions of personnel and office supplies, etc. Statistics on revenues, volume of mail, and distribution of expenditures are presented in the Postal Service's annual report, *Revenue and Cost Analysis*, and its *Annual Report of the Postmaster General*.

**Communication media.**—The Federal Communications Commission (FCC), established in 1934, regulates wire and radio communications and licenses radio and television stations. Only the largest carriers and controlling companies file annual or monthly financial reports. Jurisdiction of the FCC applies to domestic and overseas telegraph carriers and to the Communications Satellite Corporation (Comsat), but not to a large number of telephone carriers that are engaged in intrastate service. The gross operating revenues of the telephone carriers reporting annually to the FCC, however, are estimated to cover about 90 percent of the revenues of all U.S. telephone companies.

Reports filed by the broadcasting industry cover substantially all radio and television stations operating in the United States and its outlying areas. Statistics covering the private radio services represent the largest and most diverse group of licensees regulated by the FCC. These services primarily provide two-way radio communication for emergency and business purposes in the aviation, marine, land transportation, and other industries; police, fire, and other public safety programs; and amateur and personal operations. Principal sources of wire, radio, and television data are the FCC's *Annual Report*, and its annual *Statistics of Communications Common Carriers*.

Statistics on the printed media are available from the U.S. Bureau of the Census, as well as from various private agencies. The censuses of manufactures (conducted by the Census Bureau every five years, for the years ending in "2" and "7") provide statistics on the number and circulation of newspapers and periodicals and on sales of books and pamphlets. Editor & Publisher Co., Inc., New York, presents annual data on the number and circulation of daily and Sunday newspapers in its *International Year Book*. Monthly data on new books and new editions appear in *Publishers Weekly*, issued by R. R. Bowker Company, New York. (See table 368 for annual data.)

**Advertising.**—The statistics on advertising expenditures are compiled primarily by private organizations. McCann-Erickson, Inc., which compiles certain of the data shown (see tables 896-898), defines national advertising as the advertising done for companies whose products are distributed nationally, and for which national media rates are paid. Local advertising is defined as the advertising done for companies which market their products locally and which may pay special "local" media rates. Spot advertising is considered time bought by a national advertiser on a selective market basis. Monthly index figures of advertising in certain media are also published periodically by McCann-Erickson in *Advertising Age*.

The Broadcast Advertisers Reports (see tables 900-902) distinguished between spot and local advertising primarily on the basis of the type of advertiser to whom the time is sold, rather than how and by whom it is sold. In general, time purchased on be half of retail or service establishments in

the market is considered local, even though the establishments may be part of a national or regional chain. That is, spot advertising promotes a product, while local advertising promotes a given establishment. Network advertising, mutually exclusive of spot and local, is broadcast through the network system.

**Statistical reliability.**—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability applicable to Census Bureau data, see Appendix III.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

**Statistics for States and metropolitan statistical areas (MSAs).**—Data for States and MSAs may also be found in *State and Metropolitan Area Data Book 1986*. For cross-references, see Appendix V.

### NO. 872. U.S. POSTAL SERVICE—SUMMARY: 1900 TO 1986

[For fiscal years; see text section 9. Includes Puerto Rico and all outlying areas except Canal Zone. See text section 18. See also *Historical Statistics, Colonial Times to 1970*, series R 163- 171]

YEAR	Number of Post Offices	FINANCES <sup>1</sup>				Revenue per capita <sup>2</sup> (dol.)	Sales of stamps and stamped paper (mil. dol.)	Postage paid under permit and meter (mil. dol.)	Money orders issued, total (mil. dol.)	PIECES OF MAIL HANDLED (est.)			
		Revenues (mil. dol.)	Expenditures <sup>3</sup> (mil. dol.)	Deficit (mil. dol.)	Total <sup>4</sup> (bil.)					First-class <sup>5</sup>		Second-class <sup>6</sup> (bil.)	
										Number (bil.)	Percent		
1900.....	76,688	102	108	5	1.34	94	( <sup>7</sup> )	256	7.1	(NA)	(NA)	(NA)	
1910.....	59,580	224	230	6	2.43	202	4	638	14.9	(NA)	(NA)	(NA)	
1920.....	52,841	437	454	17	4.11	380	13	1,356	(NA)	(NA)	(NA)	(NA)	
1930.....	49,063	705	804	98	5.75	575	74	1,767	27.9	16.9	60.6	5.0	
1940.....	44,024	767	808	41	5.84	522	177	2,108	27.7	15.2	54.9	4.8	
1950.....	41,464	1,677	2,223	545	11.14	862	678	<sup>8</sup> 5,138	45.1	24.5	54.3	6.3	
1955.....	38,316	2,349	2,712	363	14.93	999	1,136	5,883	55.2	28.7	52.0	6.7	
1960.....	35,238	3,277	3,874	597	18.27	1,245	1,699	5,058	63.7	33.2	52.1	7.5	
1965.....	33,624	4,483	5,276	793	23.17	1,528	2,529	4,540	71.9	38.1	53.0	8.6	
1970.....	32,002	7,702	7,867	165	31.05	1,936	3,883	4,709	84.9	48.6	57.2	9.4	
1971.....	31,947	8,751	8,955	204	32.24	1,999	4,126	4,728	87.0	50.0	57.5	9.6	
1972.....	31,688	9,347	9,522	175	37.89	2,371	4,861	4,731	87.2	48.9	58.1	9.5	
1973.....	31,385	9,913	9,926	13	39.77	2,399	5,141	4,700	89.7	51.0	56.9	9.0	
1974.....	31,000	10,657	11,295	438	42.85	2,504	5,623	5,194	90.1	51.6	57.3	8.8	
1975.....	30,754	11,590	12,578	888	47.08	2,819	6,241	5,856	89.3	51.4	57.6	9.1	
1976.....	30,521	12,747	13,923	1,176	52.21	3,155	6,883	6,243	89.8	52.1	58.0	8.9	
1976,TQ <sup>9</sup>	30,521	3,402	3,387	<sup>10</sup> 15	14.11	815	1,895	1,839	21.5	12.5	58.1	2.1	
1977.....	30,521	14,822	15,310	688	60.18	3,658	7,951	5,636	92.2	63.7	58.2	8.7	
1978.....	30,518	15,841	16,220	379	64.91	3,943	8,668	5,587	98.9	56.0	57.8	8.7	
1979.....	30,449	17,999	17,529	<sup>10</sup> 470	73.37	4,382	10,062	5,631	99.9	58.0	58.1	8.4	
1980.....	30,326	19,106	19,412	306	77.32	4,287	10,828	6,112	106.3	60.3	56.7	8.4	
1981.....	30,242	20,781	21,369	588	83.62	4,625	11,891	6,692	110.1	61.5	55.8	10.0	
1982.....	30,155	23,628	22,826	<sup>10</sup> 802	97.83	5,559	13,984	6,920	114.0	62.3	54.5	9.5	
1983.....	29,990	24,899	24,083	<sup>10</sup> 616	101.08	5,709	14,755	7,355	119.4	64.3	53.8	9.2	
1984.....	29,750	26,474	26,357	<sup>10</sup> 117	107.77	6,023	16,067	8,121	131.5	68.4	52.0	9.5	
1985.....	29,557	28,956	29,207	251	116.60	6,520	17,747	9,036	140.1	72.4	51.7	10.4	
1986.....	29,344	31,021	30,716	<sup>10</sup> 305	125.46	6,969	19,294	10,687	147.4	78.2	51.7	10.6	

NA Not available. <sup>1</sup> After allowance for reimbursements, embossed envelope purchases, indemnity claims, and miscellaneous revenue and expenditure offsets. Through 1950, includes some payments and receipts applicable to services in prior years; beginning 1955, expenditures are shown in year in which obligation was incurred, and revenues in year which gave rise to the earnings, whether collected or accrued. In 1954, the Postal Service began receiving reimbursement for penalty and franked mail, and discontinued payment of subsidies to airlines. Revenues for 1980 include \$37.4 million reimbursement from the Treasury General Fund for statutory public services. These and other changes affect comparability of figures. See also footnote 2, table 873. <sup>2</sup> Includes capital expenditures for plant and equipment and cost of materials and supplies, but no provision for depreciation. Also includes costs of certain services rendered to other agencies without reimbursement but excludes costs of certain services rendered to the Postal Service by other agencies. Beginning 1955, represents obligations incurred; beginning 1965, represents accrued expenses, including depreciation on fixed assets, reimbursable work for others, and expenses paid by certain other agencies without reimbursement by the Postal Service. <sup>3</sup> Operating revenue only; based on Bureau of the Census estimated total population as of Jan. 1, including Armed Forces abroad. <sup>4</sup> Includes other classes of mail not shown separately. See table 875. <sup>5</sup> Items mailed at 1st-class rates and weighing 12 ounces or less. Beginning 1977, includes air mail which was discontinued as a separate class of mail. Includes items wholly or partially in writing or typewriting, cards or bills and statements of account, items closed against postal inspection, etc. <sup>6</sup> Includes mail paid at other than bulk rates. See footnote 7, table 873. <sup>7</sup> Service not inaugurated. <sup>8</sup> Includes postal notes issued under act of Congress. <sup>9</sup> Transition quarter, July-Sept. <sup>10</sup> Net income.

Source: U.S. Postal Service, *Annual Report of the Postmaster General*.

No. 873. U.S. POSTAL SERVICE REVENUES: 1970 TO 1986

[In millions of dollars, except percent. For fiscal years; see text, section 9. Includes Puerto Rico and all outlying areas except Canal Zone. See text, section 18]

ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986
<b>Total revenue <sup>1</sup></b> .....	<b>7,702</b>	<b>11,590</b>	<b>15,841</b>	<b>17,999</b>	<b>19,106</b>	<b>20,781</b>	<b>23,628</b>	<b>24,699</b>	<b>26,474</b>	<b>28,956</b>	<b>31,021</b>
<b>SOURCE</b>											
Operating postal revenue <sup>2</sup> .....	6,347	10,015	14,133	16,106	17,143	19,133	22,800	23,582	25,314	27,736	30,102
Stamps, postal cards, etc. ....	1,936	2,819	3,943	4,382	4,287	4,625	5,559	5,709	6,023	6,520	6,969
Second-class postage paid in money (pound rates) <sup>3</sup> .....	192	284	551	755	881	911	996	991	1,056	1,339	1,271
Other postage paid under permit and meter .....	3,883	6,241	8,668	10,062	10,828	11,891	13,984	14,755	16,067	17,747	19,294
Box rents .....	44	67	124	153	160	169	169	202	189	230	259
Miscellaneous .....	236	566	758	683	392	1,427	1,771	1,801	1,947	1,774	2,174
Money-order revenues .....	56	53	89	91	95	111	122	124	132	126	135
Government appropriations .....	1,355	1,533	1,722	1,720	1,610	1,275	707	789	879	970	716
Percent of total revenue .....	17.6	13.2	10.9	9.6	8.4	6.1	3.0	3.2	3.3	3.3	2.3
Investment income, net .....	-	37	4 - 14	173	353	373	321	328	282	250	203
<b>MAIL AND SERVICE</b>											
First-class mail <sup>5</sup> .....	3,291	5,798	8,575	9,733	10,146	11,457	13,747	14,255	15,216	16,740	18,035
Priority mail <sup>6</sup> .....	282	411	497	561	612	758	823	849	928	960	1,011
Second-class publishers' mail <sup>7</sup> .....	190	277	539	739	864	885	961	958	1,025	1,093	1,222
Third-class mail <sup>8</sup> .....	827	1,348	1,987	2,216	2,412	2,643	3,303	3,677	4,241	4,887	5,606
Bulk rate .....	(NA)	1,167	1,745	1,967	2,168	2,405	3,092	3,482	4,039	4,697	5,414
Single piece rate and fees .....	(NA)	181	242	249	244	238	211	195	202	190	193
Fourth-class mail <sup>9</sup> .....	778	718	673	747	805	786	788	753	774	763	814
Zone rate mail (parcels, catalogs, etc.) .....	(NA)	577	460	484	500	499	507	500	519	524	550
Special fourth-class rate .....	(NA)	130	187	237	272	251	237	206	210	199	213
Library rate and fees .....	(NA)	11	27	27	33	36	44	47	45	40	51
Government mail <sup>10</sup> .....	199	484	626	673	745	781	919	913	901	934	992
International mail <sup>11</sup> .....	270	390	499	550	596	735	882	874	859	882	934
Special services .....	236	251	439	506	518	823	823	868	868	918	979
Express mail .....	(X)	(X)	89	134	184	270	339	422	490	544	491
Mailgrams .....	(X)	(X)	11	15	15	16	16	14	13	15	17
Other <sup>12</sup> .....	1,629	1,913	1,905	2,120	2,205	1,647	1,028	1,118	1,159	1,220	919

- Represents zero. NA Not available. X Not applicable. <sup>1</sup> Net revenue after refunds of postage. Includes operating reimbursements. <sup>2</sup> The U.S. Postal Service was established July 1, 1971. Revenues for 1970 are those of the Post Office Department. Revenues for 1970 have been restated to be consistent with subsequent years. See also footnote 1, table 872. <sup>3</sup> Includes controlled circulation publications. <sup>4</sup> Interest expense on loans exceeded interest income received from investments. <sup>5</sup> See footnote 5, table 872. <sup>6</sup> Items otherwise qualified as 1st-class or airmail that exceed 12 ounces and 8 ounces, respectively. <sup>7</sup> Includes mail paid at other than bulk rates. Publishers' mail includes printed publications periodically issued and mailed at a known post office to paid subscribers. These include regular rate newspapers and magazines, and classroom and nonprofit rate publications. Outside-the-county publications are those mailed to destinations outside the county of publication. In addition, includes publications of at least 24 pages and containing at least 25 percent nonadvertising content issued quarterly or more frequently for mainly free distribution. This latter group, formerly known as "controlled circulation publications" was discontinued as a separate class of mail in March 1982. <sup>8</sup> Items less than 16 ounces in weight not mailed at either 1st- or 2d-class rates. <sup>9</sup> Items not mailed at 1st-, 2d-, or 3d-class rates, except government and international mail. May include parcel post, catalogs weighing 16 ounces or more, books, films, and records. <sup>10</sup> Penalty and franked mail. <sup>11</sup> Mail from U.S. to foreign countries paid at international mail rates. <sup>12</sup> Consists of unassignable revenues; 1970 and 1975 include domestic airmail.

Source: U.S. Postal Service, *Annual Report of the Postmaster General*.

No. 874. U.S. POSTAL SERVICE EMPLOYEES, BY TYPE: 1970 TO 1986

[In thousands, except as indicated. For fiscal years; see text, section 9. Includes Puerto Rico, and all outlying areas except Canal Zone. See *Historical Statistics, Colonial Times to 1970*, series R 187, for total employees]

ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986
<b>Total employees</b> .....	<b>741</b>	<b>702</b>	<b>663</b>	<b>687</b>	<b>670</b>	<b>675</b>	<b>679</b>	<b>702</b>	<b>744</b>	<b>785</b>
Regular .....	549	559	534	536	544	547	547	561	586	606
Postmasters .....	30	30	28	29	29	29	28	28	28	27
Office supervisors and tech. personnel .....	37	37	36	36	37	38	39	45	46	49
Office clerks and mail handlers <sup>1</sup> .....	243	239	230	229	232	232	229	235	249	260
City carriers and vehicle drivers .....	165	167	160	160	164	165	166	171	179	187
Rural carriers .....	31	31	32	33	33	34	34	35	35	36
Other .....	42	55	46	49	49	49	51	47	48	47
Substitute (part-time) .....	193	143	129	130	126	128	132	141	159	179
<b>Compensation and employee benefits (mil. dol.)</b>										
Avg. salary per employee (dol.) <sup>2</sup> .....	6,462	10,805	15,162	16,541	18,018	19,094	20,070	22,157	24,349	25,576
Pieces of mail per employee, average .....	8,721	15,392	22,859	24,739	26,893	28,283	29,565	31,562	32,727	32,581
	115	127	151	159	164	169	176	187	188	179

<sup>1</sup> Includes mobile unit employees. <sup>2</sup> Includes fringe benefits.

Source: U.S. Postal Service, *Annual Report of the Postmaster General*.

**NO. 875. U.S. POSTAL SERVICE—VOLUME OF MAIL, BY CLASS: 1970 TO 1986**

[In millions, except per capita. For fiscal years: see text section 9. Includes Puerto Rico and all outlying areas except Canal Zone. For definition of classes of mail, see footnotes, table 901. See also *Historical Statistics, Colonial Times to 1970, series R 172-186*]

CLASS OF MAIL	PIECES OF MAIL					WEIGHT OF MAIL (lb.)				
	1970	1975	1980	1985	1986	1970	1975	1980	1985	1986
<b>Total</b> .....	<b>84,882</b>	<b>89,266</b>	<b>106,311</b>	<b>140,098</b>	<b>147,376</b>	<b>13,281</b>	<b>12,025</b>	<b>12,958</b>	<b>16,783</b>	<b>17,182</b>
Domestic.....	83,986	88,334	105,348	139,289	146,578	13,055	11,824	12,742	16,564	16,934
1st class and airmail <sup>1</sup> .....	50,174	52,482	60,332	72,517	76,252	1,636	1,746	2,213	2,807	2,937
Priority mail.....	185	207	248	308	330	371	440	591	672	704
2d class <sup>2</sup> .....	9,814	9,713	10,221	10,380	10,588	3,641	3,024	3,478	3,966	3,972
3d class.....	19,974	21,867	30,381	52,170	55,049	2,032	2,283	3,240	6,453	6,544
4th class.....	977	801	633	576	602	4,786	3,754	2,661	2,156	2,254
Penalty.....	2,544	2,928	2,992	2,808	2,970	540	527	503	470	469
Franked and free for blind.....	218	336	540	710	787	49	50	56	40	54
International.....	896	932	963	829	798	226	201	216	219	218
Per capita: <sup>3</sup>										
Total, all domestic mail <sup>4</sup> .....	411	411	464	585	611	64	55	56	70	71
1st class and airmail.....	245	244	268	304	318	8	8	10	12	12
2d class <sup>2</sup> .....	49	45	45	44	44	18	14	15	17	17
3d class.....	98	102	134	219	229	10	11	14	27	27
4th class.....	5	4	3	2	3	23	17	12	9	9

<sup>1</sup> Beginning 1980, includes express mail established as a class of mail on October 9, 1977, and mailgrams. <sup>2</sup> See footnote 7, table 873. <sup>3</sup> 1970 and 1980, based on April 1 population, including Armed Forces abroad; otherwise, based on estimated total population as of Jan. 1, including Armed Forces abroad. <sup>4</sup> Includes types of mail not shown separately.

Source: U.S. Postal Service, *Annual Report of the Postmaster General*.

**NO. 876. U.S. POSTAL SERVICE RATES FOR LETTERS AND POST CARDS: 1958 TO 1987**

[See also *Historical Statistics, Colonial Times to 1970, series R 188-191*]

DATE OF RATE CHANGE	SURFACE MAIL				Domestic airmail letters <sup>1</sup>	DATE OF RATE CHANGE	SURFACE MAIL				Domestic airmail letters	Express mail <sup>2</sup>
	Letters			Postal and post cards			Letters			Postal and post cards		
	Each ounce	First ounce	Each added ounce				Each ounce	First ounce	Each added ounce			
1958 (Aug. 1).....	4¢	(x)	(x)	3¢	7¢	1975 (Dec. 31)....	<sup>3</sup> (x)	<sup>3</sup> 13¢	<sup>3</sup> 11¢	<sup>3</sup> 9¢	( <sup>4</sup> )	(x)
1963 (Jan. 7).....	5¢	(x)	(x)	4¢	8¢	1978 (May 29)....	(x)	<sup>3</sup> 15¢	13¢	10¢	( <sup>5</sup> )	(x)
1966 (Jan. 7).....	6¢	(x)	(x)	5¢	10¢	1981 (Mar. 22)....	(x)	18¢	14¢	12¢	( <sup>6</sup> )	(x)
1971 (May 16).....	8¢	(x)	(x)	6¢	11¢	1981 (Nov. 1).....	(x)	20¢	17¢	13¢	( <sup>6</sup> )	(x)
1974 (Mar. 2).....	10¢	(x)	(x)	8¢	13¢	1985 (Feb. 17)....	(x)	22¢	17¢	14¢	( <sup>6</sup> )	\$9.35
1975 (Sept. 14)...	(x)	10¢	9¢	7¢	(x)	In effect, Oct. 1987.....	(x)	22¢	17¢	14¢	( <sup>6</sup> )	\$10.75

X Not applicable. <sup>1</sup> Each ounce, except as noted. <sup>2</sup> Post Office to addressee rates. Rates shown are for weights up to 2 pounds, all zones. Beginning Feb. 17, 1985, for weights between 2 and 5 lbs., \$12.85 is charged. Prior to Nov. 1, 1981, rate varied by weight and distances. Over 5 pounds still varies by distance. <sup>3</sup> As of October 11, 1975, surface mail service upgraded to level of airmail. <sup>4</sup> 17¢ for first ounce; 15¢ for each added ounce. <sup>5</sup> As of May 1, 1977, domestic airmail service, as a separate class of mail, was discontinued.

Source: U.S. Postal Service, "United States Domestic Postage Rates: Recent History," and unpublished data.

**NO. 877. INTERNATIONAL AIR MAIL RATES FROM THE U.S.: 1961 TO 1987**

[Excludes Canada and Mexico]

DATE OF RATE CHANGE	ZONE 1 <sup>1</sup>		ZONE 2 <sup>2</sup>		ZONE 3 <sup>3</sup>		Postal and post cards	Aero-grammes
	Each ½ ounce up to two ounces	Each added ½ ounce	Each ½ ounce up to two ounces	Each added ½ ounce	Each ½ ounce up to two ounces	Each added ½ ounce		
July 1, 1961.....	.13	.13	.15	.15	.25	.25	.11	.11
May 1, 1967.....	.15	.15	.20	.20	.25	.25	.13	.13
July 1, 1971.....	.17	.17	.21	.21	.21	.21	.13	.13
Mar. 2, 1974.....	.21	.17	.25	.21	.25	.21	.18	.18
Jan. 3, 1976.....	.25	.21	.31	.28	.31	.26	.21	.22
Jan. 1, 1981.....	.35	.40	.40	.35	.40	.35	.28	.30
Feb. 17, 1985.....	.39	.44	.44	.39	.44	.39	.33	.36
In effect, Oct. 1987.....	.39	.44	.44	.39	.44	.39	.33	.36

<sup>1</sup> Caribbean, Central and South America. The airmail letter rate to South America, 1961 to 1967, was the same as that to Europe. Beginning January 9, 1976, the airmail letter rate to all South American countries except Colombia and Venezuela is the same as Europe; Colombia and Venezuela are included in the first zone. <sup>2</sup> Europe and Mediterranean Africa. <sup>3</sup> Rest of world. <sup>4</sup> Up to 32 oz.; 30 cents per additional ounce over 32. <sup>5</sup> Up to 32 oz.; 35 cents per additional ounce over 32. <sup>6</sup> Up to 32 oz.; 33 cents per additional ounce over 32. <sup>7</sup> Up to 32 oz.; 39 cents per additional ounce over 32.

Source: U.S. Postal Service, unpublished data.

## No. 878. UTILIZATION OF SELECTED MEDIA: 1950 TO 1987

ITEM	Unit	1950	1960	1970	1975	1980	1982	1983	1984	1985	1986	1987
Households with—												
Telephone service <sup>1</sup> .....	Percent.....	(NA)	78.5	87.0	(NA)	93.0	(NA)	(NA)	91.8	91.8	92.2	92.5
Radio sets <sup>2</sup> .....	Percent.....	92.6	96.3	98.6	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0
Average number of sets.....	Number.....	2.1	3.7	5.1	5.6	5.5	5.5	5.5	5.5	5.5	5.4	5.4
Television sets <sup>3</sup> .....	Millions.....	3.9	45.8	58.5	68.5	76.3	81.5	83.3	83.8	84.9	85.9	87.4
Television sets <sup>3</sup> .....	Percent.....	9	87	95	97	98	98	98	98	98	98	98
Color set households <sup>3</sup> .....	Millions.....	-	.3	20.9	46.9	63.4	71.4	73.9	75.8	77.7	80.1	82.7
Average viewing per day <sup>4</sup> .....	Hours.....	4.6	5.1	5.9	6.1	6.6	6.8	7.0	7.1	7.1	(NA)	7.2
Average number of sets <sup>6</sup> .....	Number.....	1.01	1.13	1.39	1.54	1.68	1.75	1.79	1.78	1.83	1.83	1.86
Cable TV <sup>6</sup> .....	Percent.....	(NA)	(NA)	(NA)	(NA)	19.8	29.0	37.2	41.2	44.6	46.8	48.7
VCR's <sup>7</sup> .....	Percent.....	(NA)	(NA)	(NA)	(NA)	1.1	3.1	5.5	10.6	20.8	36.0	48.7
Commercial radio stations: <sup>2</sup>												
AM.....	Number.....	2,292	3,539	4,323	4,463	4,589	4,668	4,733	4,754	<sup>8</sup> 4,718	4,863	(NA)
FM.....	Number.....	676	815	2,196	2,767	3,232	3,380	3,527	3,716	<sup>8</sup> 3,875	3,944	(NA)
Television stations: <sup>9</sup> Total.....	Number.....	99	559	862	953	1,011	1,065	1,106	1,136	1,182	1,235	1,280
Commercial.....	Number.....	(NA)	515	677	706	734	777	813	841	893	919	968
Cable television: <sup>9</sup>												
Systems.....	Number.....	<sup>10</sup> 70	640	2,490	3,506	4,225	4,825	5,600	6,200	6,844	7,600	7,900
Subscribers served.....	Millions.....	<sup>10</sup> 0.1	.65	4.5	9.8	15.5	21.0	25.0	30.0	31.3	37.5	39.7
Daily newspaper circulation: <sup>11</sup>												
Number.....	Millions.....	53.8	58.9	62.1	60.7	62.2	62.5	62.6	63.1	62.8	62.7	(NA)
Per capita <sup>12</sup> .....	Number.....	.354	.327	.305	.282	.275	.269	.267	.267	.263	.263	(NA)

- Represents zero. NA Not available. <sup>1</sup> For occupied housing units, 1950 through 1980, as of April 1; thereafter, as of March. Source: U.S. Bureau of the Census, *Census of Housing: 1960, 1970, and 1980*, vol. 1, and unpublished data. <sup>2</sup> As of Dec. 31, except as noted. Source: Radio Advertising Bureau, New York, NY, *Radio Facts*, annual (copyright). Number of stations on the air compiled from Federal Communications Commission reports. <sup>3</sup> 1970-1975, as of Sept. of prior year; all other years as of Jan. of year shown. Source: 1950-1985, National Broadcasting Company, New York, NY, thereafter, A.C. Nielsen Company, Northbrook, IL, *Nielsen Report on Television* (copyright). <sup>4</sup> Calendar year data. Source: A.C. Nielsen Company, Northbrook, IL, *Nielsen Report on Television* (copyright). <sup>5</sup> 1970 and 1975, as of Sept; all other years, as of Jan. Excludes Alaska and Hawaii. Source: Television Bureau of Advertising, Inc., New York, NY, "Trends in Television 1950 to Date", March 1986. <sup>6</sup> As of February. Source: See footnote 4. <sup>7</sup> As of February. Excludes Alaska and Hawaii. Source: A.C. Nielsen Company, Northbrook, IL, *VCR Trends* (copyright). <sup>8</sup> As of February 1986. <sup>9</sup> As of Jan. 1. Source: Television Digest, Inc., Washington, DC, *Television and Cable Factbook*, annual (copyright). Number of television stations on the air. <sup>10</sup> Data for 1952. <sup>11</sup> As of Sept. 30, except 1950 and 1960, as of Oct. 1. Source: Editor & Publisher, Inc., New York, NY, *Editor & Publisher International Year Book*, annual (copyright). <sup>12</sup> Per capita based on total resident population enumerated as of April 1, 1970 and 1980, and estimated as of July 1 for other years.

Source: Compiled from sources listed in footnotes.

## No. 879. MULTIMEDIA AUDIENCES—SUMMARY: 1983 AND 1987

[In percent, except as indicated. As of spring. For persons 18 years old and over. Based on sample and subject to sampling error; see source for details]

ITEM	Total population (1,000)	TELEVISION WATCHERS		RADIO LISTENERS				NEWSPAPER READERS	
		Cable	Pay	Week-day	Week-end	Religious	News/talk	Daily	Sunday
Total, 1983.....	164,662	30.4	19.0	81.5	69.2	(NA)	(NA)	61.5	64.7
<b>Total, 1987.....</b>	<b>172,957</b>	<b>48.2</b>	<b>27.2</b>	<b>80.6</b>	<b>66.8</b>	<b>2.7</b>	<b>7.6</b>	<b>60.1</b>	<b>63.8</b>
18-24 years old.....	27,409	48.3	32.2	92.3	83.5	3.0	3.9	48.3	58.8
25-34 years old.....	41,340	48.7	31.9	88.6	72.5	2.9	5.2	54.4	60.4
35-44 years old.....	31,803	49.8	32.6	83.7	64.5	3.0	7.0	62.0	66.7
45-54 years old.....	22,672	54.0	30.9	81.3	62.5	3.5	9.6	68.1	70.7
55-64 years old.....	22,564	47.6	21.3	70.9	60.0	2.1	11.1	68.0	68.1
65 years old and over.....	27,170	41.2	10.3	60.1	53.2	1.8	10.8	65.6	61.6
Male.....	82,458	48.9	28.3	83.6	68.5	2.5	8.4	62.4	64.8
Female.....	90,499	47.6	26.1	77.8	65.2	3.0	6.8	58.1	63.0
White.....	150,344	50.3	28.1	81.1	66.5	2.6	7.7	61.7	64.9
Black.....	19,088	33.3	20.6	77.1	69.4	4.3	6.6	51.1	58.8
Other.....	3,524	39.2	21.9	75.4	64.6	2.6	5.2	42.3	44.4
Spanish speaking.....	8,373	38.9	24.2	66.4	70.5	3.7	7.5	50.0	52.9
College graduate.....	30,178	53.5	31.7	84.8	66.1	2.6	10.8	71.9	78.0
Attended college.....	31,384	55.8	33.3	86.5	70.2	3.0	8.1	66.2	72.1
High school graduate.....	67,356	48.0	28.5	82.7	69.5	2.8	7.0	59.7	64.2
Not high school graduate.....	44,039	38.5	17.7	70.1	60.8	2.7	5.8	48.4	47.7
Employed: Full-time.....	95,802	51.4	32.7	87.3	70.2	2.7	7.5	60.9	66.3
Part-time.....	11,463	52.8	32.7	85.2	70.2	4.9	5.7	59.9	69.3
Not employed.....	65,692	42.8	18.1	70.0	61.3	2.4	8.0	59.0	59.4
Household income:									
Less than \$10,000.....	18,587	31.8	9.9	65.9	61.8	2.7	5.8	43.1	44.4
\$10,000 to \$19,999.....	30,529	37.3	14.7	75.4	65.3	2.7	6.6	49.0	50.8
\$20,000 to \$29,999.....	32,638	47.5	25.4	80.3	67.9	3.3	6.1	58.1	59.8
\$30,000 to \$34,999.....	16,414	49.3	29.2	83.0	69.4	3.4	7.7	63.2	65.3
\$35,000 to \$39,999.....	14,270	54.1	33.9	81.9	68.4	2.3	8.7	63.7	66.0
\$40,000 to \$49,999.....	24,286	53.3	33.6	86.5	68.2	2.9	8.2	67.3	75.0
\$50,000 or more.....	36,223	60.2	40.3	87.1	69.0	2.2	9.6	72.5	79.6

NA Not available.

Source: Mediarmk Research Inc., New York, NY, *Multimedia Audiences*, Spring 1987. (Copyright)

## No. 880. COMMUNICATIONS EQUIPMENT—FACTORY SHIPMENTS: 1980 TO 1985

[In millions of dollars, except percent change. Minus sign (—) indicates decrease. N.e.c. = Not elsewhere classified]

ITEM	1980	1981	1982	1983	1984	1985	PERCENT CHANGE				
							1980-81	1981-82	1982-83	1983-84	1984-85
<b>Shipments, total</b> .....	<b>19,825</b>	<b>23,795</b>	<b>27,702</b>	<b>30,676</b>	<b>33,813</b>	<b>37,215</b>	<b>21.3</b>	<b>16.4</b>	<b>10.7</b>	<b>10.2</b>	<b>10.1</b>
Search, detection, navigation and guidance systems and equip. <sup>1</sup> .....	12,139	15,040	17,733	19,982	21,973	24,200	23.9	17.9	12.7	10.0	10.1
Radar systems and equipment.....	1,619	1,900	2,442	3,344	3,359	3,400	17.4	28.5	36.9	4	1.2
Missiles-borne and space-vehicle-borne equipment.....	1,218	1,583	1,867	1,856	2,651	3,000	30.0	17.9	-6	42.8	13.2
Navigation systems and equip. <sup>2</sup> .....	2,151	2,578	2,689	2,712	2,708	2,780	19.9	4.3	9	-2	2.0
Counter measures equipment.....	754	1,004	1,284	1,596	1,958	2,400	33.2	27.9	24.3	22.7	22.6
Tracking radar.....	1,135	1,702	1,779	2,088	2,163	2,250	50.0	4.5	17.4	3.6	4.0
Search, detection, identification, and tracking system n.e.c.....	814	893	1,048	1,189	1,461	1,800	9.7	17.4	13.5	22.9	23.2
Sonar search, detection and tracking systems and equipment.....	800	978	1,156	1,374	1,579	1,800	22.3	18.2	18.9	14.9	14.0
Specialized electronic and comm. intelligence equipment.....	845	1,051	1,346	1,349	1,580	1,750	24.4	28.1	2	17.1	10.8
<b>Commercial, industrial, and military communications equipment</b> <sup>1</sup> .....	<b>5,106</b>	<b>5,722</b>	<b>6,854</b>	<b>7,694</b>	<b>8,798</b>	<b>9,765</b>	<b>12.1</b>	<b>19.8</b>	<b>12.3</b>	<b>14.3</b>	<b>11.0</b>
Space satellite communications systems.....	898	1,095	1,614	1,780	2,036	2,260	21.9	47.4	9.0	15.7	11.0
Receivers, radio communications.....	782	1,086	1,290	1,391	1,565	1,700	38.9	18.8	7.8	12.5	8.6
Intercommunications systems <sup>3</sup> .....	1,193	1,586	1,572	1,537	1,593	1,700	32.9	-9	-2.2	3.6	6.7
Broadcast audio and related electronic equipment <sup>4</sup> .....	1,187	1,447	1,544	1,464	1,449	1,550	21.9	6.7	-5.2	-1.0	7.0

<sup>1</sup> Includes shipments not shown separately. <sup>2</sup> For aircraft, ship, and ground navigation. Represents autopilots, beacons, collision warning devices, direction finders equipment, etc. <sup>3</sup> Includes alarm systems and traffic control shipment. <sup>4</sup> Includes video, cable TV, and audio equipment.

Source: Electronic Industries Association, Washington, DC, *Electronic Market Data Book*, annual.

## No. 881. TELEPHONE AND TELEGRAPH SYSTEMS: 1960 TO 1985

[Covers principal carriers filing annual reports with Federal Communications Commission. See *Historical Statistics, Colonial Times to 1970*, series R 46-70 and R 75-88, for data on telegraph systems]

ITEM	Unit	1960	1970	1975	1979	1980	1981	1982	1983	1984	1985
<b>Domestic telephone:</b> <sup>1</sup>											
Carriers <sup>2</sup> .....	Number.....	52	56	62	61	59	60	61	62	61	39
Telephones <sup>3</sup> .....	Million.....	86	105	130	153	157	158	151	(NA)	(NA)	(NA)
Access lines.....	Million.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	100
Miles of wire.....	Million.....	316	628	872	1,081	1,131	1,189	1,223	1,260	1,290	1,313
Gross book cost of plant.....	Bill. dol.....	25.7	59.9	95.5	134.9	147.4	161.5	174.0	184.2	183.0	195.1
Depreciation reserves <sup>4</sup> .....	Bill. dol.....	5.8	13.2	18.8	24.9	26.5	30.0	34.0	39.7	42.9	50.0
Ratio to book cost.....	Percent.....	21.7	22.1	19.7	18.5	18.0	18.6	19.6	21.5	23.5	25.6
Capital stock and premium.....	Bill. dol.....	10.7	16.4	21.6	28.8	31.3	34.5	38.8	43.4	46.9	48.1
Operating revenues.....	Bill. dol.....	8.4	18.2	31.3	49.8	55.6	63.7	70.7	75.0	98.9	104.8
Operating expenses <sup>5</sup> .....	Bill. dol.....	5.0	11.7	20.2	33.0	37.3	42.8	49.1	50.9	74.7	78.6
Net operating income <sup>6</sup> .....	Bill. dol.....	1.4	3.1	5.6	8.9	10.0	11.4	11.4	12.4	12.4	13.4
Net income.....	Bill. dol.....	1.3	2.3	3.8	6.0	6.6	7.5	7.3	7.6	8.5	9.5
Employees.....	1,000.....	627	839	840	928	938	945	909	858	742	(NA)
Compensation of employees.....	Bill. dol.....	3.4	7.0	11.7	18.4	20.2	22.2	24.8	25.1	22.7	(NA)
<b>Overseas telephone:</b>											
Number of overseas calls.....	Million.....	3.3	23.4	62.2	168.3	199.8	265.5	310.8	369.5	427.6	412.0
Revenue from overseas calls.....	Mill. dol.....	16	252	562	1,106	1,535	1,654	1,461	1,697	1,772	1,799
Ocean cable systems.....	Number.....	5	17	21	22	24	24	26	26	26	26
Communications satellites <sup>7</sup> .....	Number.....	-	4	5	5	5	5	6	6	6	6
<b>Domestic telegraph:</b>											
Carriers.....	Number.....	1	1	1	1	1	1	1	1	1	1
Revenue messages transmitted.....	Million.....	124	70	42	55	55	56	50	42	39	35
Message revenues <sup>8</sup> .....	Mill. dol.....	190	234	197	271	286	320	320	316	321	304
Total operating revenues.....	Mill. dol.....	262	402	505	636	697	779	809	722	738	715
Operating revenue deductions.....	Mill. dol.....	247	368	455	561	603	669	726	654	712	654
Operating income <sup>9</sup> .....	Mill. dol.....	11	34	70	75	94	110	84	68	26	61
Typewriter messages.....	Million.....	33	46	54	59	68	63	(NA)	(NA)	(NA)	(NA)
<b>Overseas telegraph:</b> <sup>10</sup>											
Carriers.....	Number.....	9	6	6	7	7	7	7	6	6	6
Revenue messages transmitted.....	Million.....	28	32	26	21	20	18	15	11	9	7
Message revenues <sup>8</sup> .....	Mill. dol.....	71	124	217	355	380	405	411	395	411	404
Total operating revenues.....	Mill. dol.....	87	194	316	497	535	578	613	616	644	652
Operating revenue deductions.....	Mill. dol.....	77	156	245	362	405	468	532	560	611	638
Operating income <sup>9</sup> .....	Mill. dol.....	6	26	48	85	79	70	58	47	33	15
<b>Return on investment:</b> <sup>11</sup>											
Telephone.....	Percent.....	7.3	7.1	7.6	8.5	8.7	9.0	8.4	8.7	8.7	9.4
Domestic telegraph.....	Percent.....	5.0	5.0	6.1	5.5	6.8	7.4	5.3	3.9	1.5	3.5
Overseas telegraph.....	Percent.....	7.2	10.6	12.0	17.9	15.9	12.5	9.1	6.8	3.3	6.7

- Represents zero. NA Not available. <sup>1</sup> Includes Puerto Rico and, beginning 1970, Virgin Islands. Excludes intercompany duplications. Gross operating revenues of carriers reporting since 1970 estimated at 90 percent of all carriers. <sup>2</sup> Beginning 1985, number of carriers changed due to change in dollar requirement of reporting carriers from \$1,000,000 to \$100,000,000. <sup>3</sup> Includes company, service, and private. <sup>4</sup> Includes amortization reserves. <sup>5</sup> Excludes taxes. <sup>6</sup> After tax deductions. <sup>7</sup> Excludes contingency and retired satellites. <sup>8</sup> Includes telex service; for domestic telegraph, excludes TWX. <sup>9</sup> After Federal income taxes. <sup>10</sup> Beginning 1970, excludes South American and most Caribbean operations of All America Cables and Radio, Inc. <sup>11</sup> Ratio of net operating income (after taxes) to average net book cost of communications plant.

Source: U.S. Federal Communications Commission, *Statistics of Communications Common Carriers*, annual, and unpublished data.

No. 882. TELEPHONE COMPANIES—SUMMARY: 1970 TO 1986

[As of Dec. 31 or calendar year, as applicable. See also *Historical Statistics, Colonial Times to 1970*, series R 31-45]

ITEM	Unit	INDEPENDENT COMPANIES <sup>1</sup>						TOTAL <sup>2</sup>			
		1970	1975	1980	1983	1984	1985	1986	1984	1985	1986
<b>All companies</b> .....	<b>Number</b> ..	<b>1,841</b>	<b>1,618</b>	<b>1,483</b>	<b>1,429</b>	<b>1,416</b>	<b>1,402</b>	<b>1,380</b>	<b>1,440</b>	<b>1,426</b>	<b>1,404</b>
Telephones.....	1,000	20,312	26,823	34,865	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Access lines.....	1,000	(NA)	16,855	20,808	22,331	23,020	24,330	25,196	114,474	118,275	122,203
Total telephone plant.....	Mil. dol.	12,390	21,200	35,300	44,500	45,850	49,069	50,682	193,779	207,289	218,701
Operating revenues.....	Mil. dol.	2,953	5,500	10,475	14,875	16,000	17,245	18,469	73,868	78,425	82,366
Average daily conversations, total.....	Millions	109	146	192	209	210	223	243	1,199	1,264	1,327
Local calls.....	Millions	104	138	177	188	190	203	210	1,111	1,162	1,206
Toll calls.....	Millions	5	8	15	21	20	20	33	88	102	121
<b>Reporting companies</b> <sup>3</sup> .....	<b>Number</b> ..	<b>884</b>	<b>731</b>	<b>765</b>	<b>678</b>	<b>631</b>	<b>653</b>	<b>630</b>	<b>655</b>	<b>677</b>	<b>654</b>
Telephones.....	1,000	19,182	25,548	33,748	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Access lines.....	1,000	(NA)	(NA)	19,412	21,077	22,669	23,430	24,164	113,556	117,375	121,172
Telephone plant in service.....	Mil. dol.	11,175	19,520	32,491	40,463	42,093	45,501	47,732	188,151	198,978	212,366
Depreciation reserves.....	Mil. dol.	2,203	4,120	7,820	11,553	12,664	14,310	15,515	45,748	52,872	61,053
Operating revenues.....	Mil. dol.	2,791	5,294	10,177	14,309	15,403	16,684	17,555	73,270	77,864	81,452
Operating expenses <sup>4</sup> .....	Mil. dol.	1,953	3,639	7,279	11,432	12,305	13,323	12,548	59,768	63,679	59,292
Net income.....	Mil. dol.	356	711	1,268	1,968	2,199	2,434	2,617	9,313	10,063	10,964
Common stock and surplus.....	Mil. dol.	3,733	6,181	9,623	12,060	12,781	13,940	14,033	63,147	66,510	66,603
Net income to common stock and surplus.....	Percent	9.5	11.5	13.2	16.3	17.2	17.5	18.7	14.7	15.1	16.5
Employees.....	1,000	142	152	169	175	168	170	165	724	695	672
Wages and salaries.....	Mil. dol.	1,001	1,737	3,373	4,223	4,429	4,558	4,736	22,112	21,443	22,127

NA Not available. <sup>1</sup> Companies independent of the Bell System, prior to divestiture of January 1984. <sup>2</sup> All telephone companies. <sup>3</sup> Comprises only companies submitting operating information to source cited below. <sup>4</sup> Excludes Federal income tax.

Source: United States Telephone Association, Washington, DC, *Statistics of the Telephone Industry*, annual. (Copyright.)

No. 883. REA AND RURAL TELEPHONE BANK PROGRAM—SUMMARY: 1970 TO 1986

ITEM	Unit	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986
Loans and guarantees approved, Dec. 31: <sup>1</sup>											
Borrowers.....	Number	862	921	981	990	1,010	1,029	1,037	1,035	1,034	1,037
REA amount.....	Mil. dol.	1,816	2,576	3,606	3,845	4,076	4,327	4,540	4,742	4,937	5,119
Guaranteed amount.....	Mil. dol.	-	237	392	418	553	626	672	701	679	679
Rural Telephone Bank amount.....	Mil. dol.	-	618	1,262	1,398	1,529	1,726	1,872	2,000	2,131	2,248
Route miles of line, <sup>2</sup> Dec. 31.....	1,000	547	653	772	798	805	831	847	868	872	869
Subscribers, Dec. 31.....	1,000	2,335	3,045	4,073	4,292	4,375	4,545	4,629	4,747	4,782	4,833
Telephones in service.....	1,000	2,859	4,355	6,395	6,770	6,953	7,147	(NA)	(NA)	(NA)	(NA)
Total operating revenues.....	Mil. dol.	363	753	1,758	2,042	2,389	2,643	2,910	3,108	3,161	
Total telephone plant.....	Mil. dol.	2,085	3,850	6,558	7,388	8,034	8,897	9,532	10,195	10,671	10,917
Employees.....	1,000	15.4	20.0	27.9	28.4	28.7	28.8	28.9	28.7	28.3	27.8

- Represents zero. NA Not available. <sup>1</sup> Cumulative net loans (cancellations deducted). <sup>2</sup> Line in service.

Source: U.S. Rural Electrification Administration, *Statistical Report—Rural Telephone Borrowers*, annual.

No. 884. PRIVATE RADIO STATIONS AUTHORIZED BY CLASS: 1980 TO 1986

[In thousands. As of Sept. 30. Includes Puerto Rico and Virgin Islands. See also *Historical Statistics, Colonial Times to 1970*, series R 140-148]

CLASS	1980	1985	1986	CLASS	1980	1985	1986
<b>Private radio services</b> <sup>1</sup> .....	<b>16,357.3</b>	<b>2,419.5</b>	<b>2,573.7</b>	Land transportation.....	28.0	37.7	39.8
Personal.....	14,580.2	(X)	459.4	Railroad.....	10.0	13.8	14.9
Citizens Band.....	14,308.4	(X)	-	Taxicab.....	4.8	6.1	6.2
General mobile.....	20.2	33.8	35.7	Interurban property.....	3.1	4.4	4.9
Radio control.....	231.7	(X)	-	Other.....	9.9	13.4	13.8
Amateur and disaster.....	389.9	415.4	423.7	Marine.....	398.3	525.3	561.2
Aviation.....	231.6	245.7	244.3	Ship.....	386.6	510.4	545.3
Aircraft.....	196.8	207.3	205.4	Alaskan.....	2.6	2.7	2.8
Aeronautical and fixed.....	9.5	10.9	11.1	Coastal and other.....	9.1	12.2	13.1
Civil air patrol.....	21.6	23.0	23.3	Public safety.....	137.1	194.5	207.1
Other.....	3.7	4.5	4.5	Police.....	42.3	42.3	45.0
Industrial.....	504.9	811.3	864.4	Fire.....	20.6	36.8	38.7
Power.....	23.1	34.4	37.7	Forestry conservation.....	7.6	9.6	10.2
Business.....	370.4	593.5	635.6	Highway maintenance.....	9.7	12.7	13.4
Petroleum.....	17.9	25.2	26.6	Special emergency.....	22.4	37.4	39.4
Forest products.....	6.4	8.8	10.6	Other.....	34.2	55.9	60.4
Special industrial.....	72.1	115.0	119.2	Operational fixed services <sup>2</sup> .....	18.0	23.1	25.6
Other.....	14.7	33.4	34.7				

- Represents zero. X Not applicable. <sup>1</sup> Includes items not shown separately. Each license, construction permit, or combination construction permit and license is counted as one station; therefore, a station might include a transmitter and many mobile units. <sup>2</sup> Includes microwave operations.

Source: U.S. Federal Communications Commission, *Annual Report*, and unpublished data.

## NO. 885. PUBLIC TELEVISION STATIONS: 1968 TO 1984

[Based on a "typical" broadcast week through 1972; calendar year data for 1974 and 1976; fiscal year data thereafter. General programming is directed at the general community. Instructional programming is directed at students in the classroom or otherwise in the general context of formal education]

ITEM	1968	1970	1972	1974	1976	1978	1980	1982	1984
Stations broadcasting.....	<sup>1</sup> 153	<sup>1</sup> 190	220	<sup>2</sup> 238	<sup>3</sup> 253	272	281	291	303
<b>Total weekly broadcast hours.....</b>	<b><sup>1</sup> 8,534</b>	<b><sup>1</sup> 12,217</b>	<b>15,587</b>	<b>18,321</b>	<b>22,096</b>	<b>26,064</b>	<b>27,643</b>	<b>30,337</b>	<b>32,293</b>
General programs.....	4,571	7,597	7,904	10,868	14,329	17,929	19,508	21,418	23,154
Percent of total hours.....	54.7	63.0	50.7	59.3	64.8	68.8	69.6	70.6	71.7
Instructional programs <sup>4</sup> .....	3,863	4,520	7,683	7,453	7,766	8,135	8,135	8,919	9,139
<b>Average weekly broadcast hours per station.....</b>	<b>56.1</b>	<b>65.3</b>	<b>70.9</b>	<b>80.7</b>	<b>90.9</b>	<b>95.8</b>	<b>99.8</b>	<b>104.3</b>	<b>106.6</b>
General programming.....	30.7	41.1	36.0	47.9	59.0	65.9	69.4	73.6	76.4
Instructional programming <sup>4</sup> .....	25.4	24.2	34.9	32.8	31.9	29.9	30.4	30.7	30.2

<sup>1</sup> 152 stations reported in 1968 and 197 in 1970; details include data for reporting stations only. <sup>2</sup> Includes data for 227 stations only, representing 147 primary broadcasters; does not include secondary broadcasters. <sup>3</sup> Includes data for 243 stations only, representing 151 primary broadcasters. <sup>4</sup> Beginning 1974, includes material from Children's Television Workshops.

Source: Through 1970, National Instructional Television Center, Bloomington, IN, *One Week of Educational Television, 1970* (copyright); 1972, Corporation for Public Broadcasting, *One Week of Public TV*, April 1972, and unpublished data; 1974-1984, Corporation for Public Broadcasting, *PTV Programming Content by Category Report Series*, and unpublished data.

## NO. 886. PUBLIC BROADCASTING SYSTEMS—INCOME BY SOURCE: 1975 TO 1985

[In millions of dollars, except as indicated. Stations as of Dec. 31; fiscal year data for income. Beginning 1979, includes nonbroadcast income]

NUMBER OF STATIONS AND INCOME SOURCE	1975	1979	1980	1981	1982	1983	1984	1985, prel.	PERCENT DISTRIBUTION		
									1975	1980	1985, prel.
Number of CPB-qualified public radio stations.....	169	210	217	238	255	286	275	288	(x)	(x)	(x)
Public television stations.....	260	281	290	293	299	300	304	316	(x)	(x)	(x)
<b>Total income.....</b>	<b>364.8</b>	<b>603.5</b>	<b>704.9</b>	<b>788.9</b>	<b>845.2</b>	<b>899.2</b>	<b>974.2</b>	<b>1,101.3</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Federal government.....	92.3	163.2	192.5	193.7	197.6	163.7	167.0	179.6	25.3	27.3	16.3
State and local government <sup>1</sup> .....	156.6	245.5	271.6	277.5	301.0	318.3	334.5	363.0	42.9	38.5	33.0
Subscribers and auction/marathon.....	42.3	1,275	102.3	130.8	162.5	196.4	215.2	246.7	11.6	14.5	22.4
Business and industry.....	25.1	57.9	72.4	86.8	100.5	119.8	144.7	170.8	6.9	10.3	15.6
Foundation.....	28.7	20.4	23.5	19.3	22.1	24.9	27.8	43.7	7.9	3.3	4.0
Other.....	19.8	30.4	42.6	60.8	61.5	76.0	85.0	97.5	5.4	6.0	8.8

X Not applicable. <sup>1</sup> Includes income received from State colleges and universities, and, beginning 1979 from other tax supported colleges and universities.

Source: Corporation for Public Broadcasting (CPB), Washington, DC, *Public Broadcasting Income, Fiscal Year, 1985*, and unpublished data.

## NO. 887. CABLE TELEVISION—SYSTEMS AND SUBSCRIBERS: 1952 TO 1987

[Subscribers in thousands, except percent. Estimated]

YEAR (As of Jan. 1)	Sys-tems	Sub-scribers	YEAR (As of Jan. 1)	Sys-tems	Sub-scribers	SUBSCRIBER SIZE-GROUP	Number of— <sup>1</sup>		Percent of— <sup>1</sup>	
							Sys-tems	Sub-scribers	Sys-tems	Sub-scribers
1952.....	70	14	1977.....	3,832	11,900	1987, total <sup>2</sup> .....	7,325	38,762	100.00	100.00
1955.....	400	150	1978.....	3,875	13,000	50,000 and over.....	138	11,642	1.88	30.03
1960.....	640	650	1979.....	4,150	14,100	20,000-49,999.....	326	9,950	4.45	25.67
1965.....	1,325	1,275	1980.....	4,225	16,000	10,000-19,999.....	467	6,554	6.38	16.91
1969.....	2,260	3,600	1981.....	4,375	18,300	5,000-9,999.....	628	4,398	8.57	11.35
1970.....	2,490	4,500	1982.....	4,825	21,000	3,500-4,999.....	362	1,603	5.22	4.14
1871.....	2,639	5,300	1983.....	5,600	25,000	1,000-3,499.....	1,659	3,200	22.65	8.25
1872.....	2,841	6,000	1984.....	6,200	30,000	500-999.....	1,128	801	15.40	2.07
1873.....	2,991	7,300	1985.....	6,600	32,000	250-499.....	1,117	404	15.25	1.04
1874.....	3,158	8,700	1986.....	7,600	37,500	Less than 250.....	1,480	209	20.20	.54
1875.....	3,506	8,800	1987.....	7,900	39,700					
1876.....	3,681	10,800								

<sup>1</sup> As of April 1, 1987. <sup>2</sup> Excludes 511 systems not available by subscriber size-group.

Source: Television Digest, Inc., Washington, DC, *Television & Cable Factbook*, annual. (Copyright.)

## NO. 888. CABLE AND PAY TV—SUMMARY, 1955 TO 1985, AND PROJECTIONS, 1990 AND 1995

[Cable TV for calendar year. Pay TV as of Dec. 31 of year shown]

YEAR	CABLE TV				PAY TV					
	Avg. basic sub-scribers (1,000)	Avg. monthly basic rate (dol.)	Revenue <sup>1</sup> (mil. dol.)		Units <sup>2</sup> (1,000)		Monthly rate (dol.)		Pay cable units per 1,000	
			Total	Basic	Total	Pay cable	Total	Pay-cable	Home passed	Basic cable sub-scribers
1955.....	250	5.00	20	20	(x)	(x)	(x)	(x)	(x)	(x)
1960.....	750	5.00	50	50	(x)	(x)	(x)	(x)	(x)	(x)
1965.....	1,500	5.00	95	95	(x)	(x)	(x)	(x)	(x)	(x)
1970.....	5,100	5.50	345	345	(x)	(x)	(x)	(x)	(x)	(x)
1975.....	9,800	6.50	804	774	469	469	(x)	7.85	111	236
1976.....	11,000	6.75	972	901	1,021	978	(NA)	7.87	106	223
1977.....	12,200	7.00	1,163	1,034	1,733	1,642	8.12	7.92	122	253
1978.....	13,400	7.25	1,424	1,176	3,580	3,289	8.62	8.09	179	350
1979.....	15,000	7.50	1,814	1,362	6,409	5,732	9.37	8.44	223	413
1980.....	17,500	7.75	2,436	1,647	10,389	9,144	9.78	8.80	279	506
1981.....	21,500	7.95	3,480	2,091	17,521	15,450	10.13	9.02	376	688
1982.....	25,400	8.25	4,705	2,564	23,179	20,791	10.36	9.57	462	840
1983.....	29,450	8.74	6,042	3,144	28,115	26,418	10.25	9.84	479	843
1984.....	32,800	9.20	7,396	3,628	31,027	29,966	10.32	10.08	495	875
1985.....	35,444	10.25	8,655	4,508	31,056	30,596	10.53	10.42	473	835
1990, proj.....	45,680	12.87	13,376	7,053	(NA)	42,520	(NA)	11.37	532	910
1995, proj.....	54,780	17.22	20,982	11,317	(NA)	55,470	(NA)	12.56	648	1,000

NA Not available. X Not applicable. <sup>1</sup> Includes installation revenue. <sup>2</sup> Individual program services sold to subscribers.

Source: Paul Kagan Associates, Inc., Carmel, CA, *The Cable TV Financial Databook*, annual. (Copyright.)

## NO. 889. RADIO AND TELEVISION STATIONS OWNED BY NEWSPAPERS AND/OR MAGAZINES: 1961 TO 1986

DATE	AM radio	FM radio	TV	DATE	AM radio	FM radio	TV	DATE	AM radio	FM radio	TV
1961, Sept. 1.....	412	147	161	1973, Dec. 1.....	304	211	179	1980, Dec. 1.....	315	264	230
1965, Oct. 31.....	391	170	174	1974, Dec. 1.....	321	236	193	1981, Dec. 1.....	311	277	246
1966, Dec. 4.....	381	191	183	1975, Dec. 1.....	320	238	197	1982, Dec. 1.....	300	263	251
1969, Dec. 1.....	394	245	189	1976, Dec. 1.....	322	238	209	1983, Dec. 1.....	288	257	248
1971, Feb. 1.....	402	248	191	1977, Dec. 1.....	314	238	211	1984, Dec. 1.....	288	256	255
1971, Dec. 1.....	318	209	176	1978, Dec. 1.....	319	252	221	1985, Dec. 1.....	264	255	253
1972, Dec. 1.....	325	171	178	1979, Dec. 1.....	318	257	226	1986, Dec. 1.....	232	226	272

Source: Broadcasting Publications Inc., Washington, DC, *Broadcasting Cablecasting Yearbook*. (Copyright.)

## NO. 890. PUBLISHING INDUSTRY—SUMMARY: 1977 TO 1985

[In millions of dollars, except as noted. Number in parentheses represents Standard Industrial Classification code; see text, section 13. Based on the censuses of manufactures and the 1985 Survey of Manufactures; for details, see source and Appendix III]

ITEM	NEWSPAPERS (271)			PERIODICALS (272)			BOOKS (273)		
	1977	1982	1985	1977	1982	1985	1977	1982	1985
Establishments, number.....	8,867	8,846	(NA)	2,994	3,328	(NA)	1,744	2,130	(NA)
With 20 or more employees.....	2,147	2,555	(NA)	525	690	(NA)	346	420	(NA)
Employees <sup>1</sup> (1,000).....	350	402	411	70	94	96	60	67	71
Payroll.....	4,306	6,555	7,905	1,020	1,986	2,555	830	1,327	1,672
Value of receipts.....	13,056	21,276	27,015	6,057	11,478	15,246	4,794	7,740	10,196
Cost of materials.....	3,539	6,006	6,585	2,289	4,568	5,580	1,544	2,420	3,021
Value added by manufacture <sup>2</sup> .....	9,519	15,275	20,426	3,763	6,911	9,678	3,262	5,292	7,396
New capital expenditures.....	478	1,029	1,430	79	195	340	80	174	232
Fixed assets, gross value.....	5,026	8,701	11,378	725	1,370	2,052	680	1,109	1,432
Inventories, yearend.....	382	755	834	350	724	818	992	1,380	1,895

NA Not available. <sup>1</sup> Represents the average number of production workers plus the number of other employees in mid-March. <sup>2</sup> Derived by subtracting the cost of materials, supplies, containers, fuel, purchased electricity, and contract work from the value of shipments. This result is then adjusted by the addition of value added by merchandising operations, plus the net change in finished goods and work-in-process inventories between the beginning and the end of the year.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1982*, Industry Reports, series MC82-1-27A, and *1985 Annual Survey of Manufactures*, M85(A5)-1.

### NO. 891. NEWSPAPERS AND PERIODICALS—NUMBER, BY TYPE: 1960 TO 1987

[Data refer to year of compilation of the Directory cited as the source, i.e., generally to year preceding year shown. See also *Historical Statistics, Colonial Times to 1970*, series R 232-243]

TYPE	1960	1965	1970	1975	1980	1982	1983	1984	1985	1986	1987
<b>Newspapers<sup>1</sup></b> .....	<b>11,315</b>	<b>11,383</b>	<b>11,383</b>	<b>11,400</b>	<b>9,620</b>	<b>9,183</b>	<b>9,205</b>	<b>9,151</b>	<b>9,134</b>	<b>9,144</b>	<b>9,031</b>
Semiweekly.....	324	357	423	506	537	498	508	525	517	495	510
Weekly.....	6,879	6,989	6,903	6,824	7,159	6,806	6,855	6,798	6,811	6,857	6,750
Daily.....	1,854	1,843	1,838	1,819	1,744	1,740	1,735	1,711	1,701	1,651	1,646
<b>Periodicals<sup>1</sup></b> .....	<b>8,422</b>	<b>8,990</b>	<b>9,573</b>	<b>9,657</b>	<b>10,236</b>	<b>10,688</b>	<b>10,952</b>	<b>10,809</b>	<b>11,090</b>	<b>11,328</b>	<b>11,593</b>
Weekly.....	1,580	1,716	1,856	1,918	1,716	1,672	1,626	1,376	1,367	1,383	1,400
Semi-monthly <sup>2</sup> .....	527	550	589	537	645	689	724	658	801	789	858
Monthly.....	4,113	4,195	4,314	4,087	3,985	4,078	4,108	4,098	4,088	4,066	4,031
Bi-monthly.....	743	876	957	1,009	1,114	1,237	1,307	1,348	1,361	1,387	1,402
Quarterly.....	895	1,030	1,108	1,093	1,444	1,554	1,627	1,711	1,759	1,895	1,984

<sup>1</sup> Includes other not shown separately.

<sup>2</sup> Includes fortnightly (every two weeks).

Source: Gale Research Co., Ft. Lauderdale, FL, *Gale Directory of Publications, 1987*. (Copyright.)

### NO. 892. NUMBER AND CIRCULATION OF DAILY AND SUNDAY NEWSPAPERS: 1960 TO 1986

[Number of newspapers as of the following dates: 1960, Oct. 1; 1965, Jan. 1; 1970-1985, Feb. 1 of the following year. Circulation figures as of Sept. 30, except 1980 and 1985 as of Oct. 1. For English language newspapers only. See also *Historical Statistics, Colonial Times to 1970*, series R 224-231]

TYPE	1960	1965	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986
<b>NUMBER OF NEWSPAPERS</b>													
Daily: Total <sup>1</sup> .....	1,763	1,751	1,748	1,756	1,756	1,763	1,745	1,730	1,711	1,701	1,688	1,676	1,657
Morning.....	312	320	334	339	355	382	387	408	434	446	458	482	499
Evening.....	1,459	1,444	1,429	1,436	1,419	1,405	1,388	1,352	1,310	1,284	1,267	1,220	1,188
Sunday.....	563	562	586	639	696	720	736	755	768	772	783	798	802
<b>CIRCULATION (mil.)</b>													
Daily: Total <sup>1</sup> .....	58.9	60.4	62.1	60.7	62.0	62.2	61.4	62.5	62.6	63.1	62.8	62.5	62.5
Morning.....	24.0	24.1	25.9	25.5	27.7	28.6	29.4	30.6	33.2	33.8	35.4	36.4	37.4
Evening.....	34.9	36.3	36.2	35.2	34.3	33.6	32.8	30.9	29.3	28.8	27.7	26.4	25.1
Sunday.....	47.7	48.6	49.2	51.1	54.0	54.4	54.7	55.2	56.3	56.7	57.5	58.8	58.9

<sup>1</sup> All-day newspapers are counted in both morning and evening columns but only once in total. Circulation is divided equally between morning and evening.

Source: Editor & Publisher Co. Inc., New York, NY, *Editor & Publisher International Year Book*, annual. (Copyright.)

### NO. 893. NUMBER AND CIRCULATION OF DAILY NEWSPAPERS, BY POPULATION-SIZE CLASS OF CITY: 1970 TO 1986

[Number of newspapers as of Feb. 1 of the following year. Circulation as of Sept. 30. For English language newspapers only. See table 37 for number of cities by population size]

TYPE OF DAILY AND POPULATION-SIZE CLASS	NUMBER <sup>1</sup>						NET PAID CIRCULATION <sup>1</sup> (1,000)					
	1970	1975	1980	1984	1985	1986	1970	1975	1980	1984	1985	1986
<b>Morning dailies, total</b> .....	<b>334</b>	<b>339</b>	<b>387</b>	<b>458</b>	<b>482</b>	<b>499</b>	<b>25,934</b>	<b>25,491</b>	<b>29,413</b>	<b>35,424</b>	<b>36,361</b>	<b>37,441</b>
In cities of—												
1,000,001 or more.....	15	14	20	14	24	23	7,667	7,159	8,795	4,641	9,367	10,167
500,001 to 1,000,000.....	26	25	27	24	24	27	5,747	5,581	5,705	6,809	6,897	7,331
100,001 to 500,000.....	91	89	99	128	121	124	8,169	7,836	8,996	16,876	12,197	12,087
50,001 to 100,000.....	65	69	75	83	87	88	2,220	2,619	2,973	3,402	3,653	3,701
25,001 to 50,000.....	59	67	64	74	83	86	1,317	1,422	1,701	1,994	2,145	2,257
Less than 25,000.....	78	75	102	135	145	151	814	874	1,243	1,897	2,099	1,897
<b>Evening dailies, total</b> .....	<b>1,429</b>	<b>1,436</b>	<b>1,388</b>	<b>1,257</b>	<b>1,220</b>	<b>1,188</b>	<b>36,231</b>	<b>35,166</b>	<b>32,788</b>	<b>27,657</b>	<b>26,407</b>	<b>25,061</b>
In cities of—												
1,000,001 or more.....	12	12	11	7	8	9	4,716	4,156	2,984	1,794	2,169	1,977
500,001 to 1,000,000.....	24	24	23	15	14	14	4,807	4,573	4,101	1,949	1,626	1,628
100,001 to 500,000.....	129	127	123	112	102	98	10,034	8,918	8,178	7,857	6,987	6,428
50,001 to 100,000.....	178	175	156	133	127	122	5,221	5,379	4,896	4,177	3,942	3,767
25,001 to 50,000.....	250	248	246	236	229	225	4,766	4,898	5,106	4,789	4,606	4,542
Less than 25,000.....	836	850	629	754	740	720	6,687	7,242	7,523	7,087	7,075	6,719

<sup>1</sup> All-day newspapers are counted in both morning and evening columns; circulation is divided equally between morning and evening.

Source: Editor & Publisher Co. Inc., New York, NY, *Editor & Publisher International Year Book*, annual. (Copyright.)

**NO. 894. DAILY AND SUNDAY NEWSPAPERS—NUMBER AND CIRCULATION, BY STATE: 1986**

[Number of newspapers as of Feb. 1 of the following year. Circulation figures as of Sept. 30. For English language newspapers only]

STATE	DAILY			SUNDAY		STATE	DAILY			SUNDAY	
	Number	Circulation <sup>1</sup>		Number	Net paid circulation (1,000)		Number	Circulation <sup>1</sup>		Number	Net paid circulation (1,000)
		Net paid (1,000)	Per capita <sup>2</sup>					Net paid (1,000)	Per capita <sup>2</sup>		
<b>Total</b> .....	<b>1,657</b>	<b>62,502</b>	<b>.26</b>	<b>802</b>	<b>58,925</b>						
Alabama.....	28	758	.18	20	763	Missouri.....	48	1,253	.25	19	1,249
Alaska.....	8	131	.23	4	141	Montana.....	11	192	.23	7	190
Arizona.....	19	675	.20	11	714	Nebraska.....	19	472	.29	7	435
Arkansas.....	32	504	.21	16	535	Nevada.....	7	253	.25	4	304
California.....	117	6,221	.22	61	6,150	New Hampshire.....	9	215	.20	4	139
Colorado.....	27	941	.28	10	1,117	New Jersey.....	26	1,714	.23	17	1,846
Connecticut.....	24	896	.28	11	816	New Mexico.....	20	302	.20	13	272
Delaware.....	3	144	.22	2	162	New York.....	73	7,707	.44	33	5,747
District of Columbia.....	3	2,911	3.90	1	1,079	North Carolina.....	54	1,427	.22	29	1,328
Florida.....	49	2,888	.23	33	3,328	North Dakota.....	10	188	.27	6	173
Georgia.....	36	1,099	.18	16	1,184	Ohio.....	87	2,828	.27	31	2,774
Hawaii.....	6	237	.21	6	250	Oklahoma.....	51	795	.23	43	802
Idaho.....	12	205	.20	8	217	Oregon.....	20	654	.24	10	647
Illinois.....	70	2,652	.23	24	2,699	Pennsylvania.....	91	3,321	.28	23	2,907
Indiana.....	74	1,546	.28	20	1,286	Rhode Island.....	7	303	.31	3	302
Iowa.....	37	753	.27	11	751	South Carolina.....	19	639	.18	11	631
Kansas.....	46	545	.22	18	498	South Dakota.....	12	165	.23	4	129
Kentucky.....	25	711	.19	13	655	Tennessee.....	28	979	.20	15	1,050
Louisiana.....	27	792	.17	21	898	Texas.....	109	3,627	.21	96	4,333
Maine.....	9	291	.24	2	178	Utah.....	6	287	.17	6	326
Maryland.....	15	688	.15	4	570	Vermont.....	8	123	.22	3	90
Massachusetts.....	46	2,134	.37	11	1,727	Virginia.....	36	1,187	.20	15	939
Michigan.....	52	2,549	.28	15	2,468	Washington.....	26	1,145	.25	14	1,128
Minnesota.....	25	917	.22	12	1,046	West Virginia.....	23	446	.23	10	398
Mississippi.....	23	402	.15	12	334	Wisconsin.....	35	1,190	.25	13	1,044
						Wyoming.....	10	99	.19	4	75

<sup>1</sup> Circulation figures based on the principal community served by a newspaper which is not necessarily the same location as the publisher's office. <sup>2</sup> Per capita based on total resident population estimated as of Dec. 31, 1986.

Source: Editor & Publisher Co., Inc., New York, NY, *Editor & Publisher International Year Book*, annual (copyright).

**NO. 895. COPYRIGHT REGISTRATION, BY SUBJECT MATTER: 1980 TO 1986**

[In thousands. For years ending Sept. 30. Comprises claims to copyright registered for both U.S. and foreign works. See also *Historical Statistics, Colonial Times to 1970*, series W 82-95]

SUBJECT MATTER OF COPYRIGHT	1980	1985	1986	SUBJECT MATTER OF COPYRIGHT	1980	1985	1986
<b>Total</b> .....	<b>464.7</b>	<b>539.8</b>	<b>561.0</b>	Renewals.....	33.0	43.8	45.3
Monographs <sup>1</sup> .....	119.2	154.5	148.2	Musical works.....	120.2		
Machine readable works.....	1.9			Dramatic works, including any accompanying music.....	8.0	147.9	156.3
Semiconductor chip products.....	(x)	.9	1.0	Choreography and pantomimes.....	(2)		
Serials.....	117.9	120.0	130.0	Motion pictures and filmstrips.....	8.5		
Sound recordings.....	12.8	22.7	29.0	Works of the visual arts <sup>2</sup> .....	42.8	50.0	51.2

X Not applicable. Z Less than 50. <sup>1</sup> Includes computer software. <sup>2</sup> Two-dimensional works of fine and graphic art, including prints and art reproductions; sculptural works; technical drawings and models; photographs; commercial prints and labels; works of applied arts, cartographic works and multimedia works.

Source: The Library of Congress, *Annual Report*.

**NO. 896. ADVERTISING—ESTIMATED EXPENDITURES: 1950 TO 1986**

[In millions of dollars. See also *Historical Statistics, Colonial Times to 1970*, series T 444-446]

YEAR	Total	National	Local	YEAR	Total	National	Local	YEAR	Total	National	Local
1950.....	5,700	3,260	2,440	1973.....	24,980	13,700	11,280	1980.....	53,550	29,815	23,735
1955.....	9,150	5,380	3,770	1974.....	26,620	14,700	11,920	1981.....	60,430	33,890	26,540
1960.....	11,980	7,305	4,655	1975.....	27,900	15,200	12,700	1982.....	66,580	37,785	28,795
1965.....	15,250	9,340	5,910	1976.....	33,300	18,355	14,945	1983.....	75,850	42,525	33,325
1970.....	19,550	11,350	8,200	1977.....	37,440	20,595	16,845	1984.....	87,820	49,690	38,130
1971.....	20,700	11,755	8,945	1978.....	43,330	23,720	19,610	1985.....	94,750	53,355	41,395
1972.....	23,210	12,980	10,230	1979.....	48,780	26,695	22,085	1986.....	102,140	56,650	45,290

Source: McCann-Erickson, Inc., New York, NY. Compiled for Crain Communications, Inc. in *Advertising Age* (copyright).

**NO. 897. ADVERTISING—INDEXES OF NATIONAL ADVERTISING EXPENDITURES, BY MEDIUM:  
1960 TO 1986**

[1967=100. Based on the average monthly expenditure for those major media which give national coverage. See also *Historical Statistics, Colonial Times to 1970*, series T 472-484]

MEDIUM	1960	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986
<b>General Index.....</b>	<b>67</b>	<b>112</b>	<b>143</b>	<b>236</b>	<b>269</b>	<b>298</b>	<b>333</b>	<b>369</b>	<b>414</b>	<b>486</b>	<b>503</b>	<b>526</b>
Network television.....	56	114	158	273	316	353	383	427	482	586	569	589
Spot television.....	53	125	184	281	291	330	378	441	485	555	608	665
Magazines.....	73	104	118	209	236	253	284	298	340	396	414	427
Weeklies.....	81	95	94	178	204	218	245	255	294	342	353	357
Women's.....	65	107	130	238	259	277	302	321	374	429	459	488
Monthlies.....	64	120	155	246	280	304	347	368	404	480	501	517
Newspapers.....	92	105	131	182	209	232	267	290	323	364	396	399

Source: McCann-Erickson, Inc., New York, NY. Compiled for Crain Communications, Inc. In *Advertising Age* (copyright).

**NO. 898. ADVERTISING—ESTIMATED EXPENDITURES, BY MEDIUM: 1970 TO 1986**

[In millions of dollars, except percent. See text, section 18 for a discussion of types of advertising. See also *Historical Statistics, Colonial Times to 1970*, series R 106-109, R 123-126, and T 444-471]

MEDIUM	EXPENDITURES								PERCENT			
	1970	1980	1981	1982	1983	1984	1985	1986	1970	1980	1985	1986
<b>Total.....</b>	<b>19,550</b>	<b>53,550</b>	<b>60,430</b>	<b>66,580</b>	<b>75,850</b>	<b>87,820</b>	<b>94,750</b>	<b>102,140</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
National.....	11,350	29,815	33,890	37,785	42,525	49,690	53,355	56,850	58.1	55.7	56.3	55.7
Local.....	8,200	23,735	26,540	28,795	33,325	38,130	41,395	45,290	41.9	44.3	43.7	44.3
Newspapers.....	5,704	14,794	16,528	17,694	20,582	23,522	25,170	26,990	29.2	27.6	26.5	26.4
National.....	891	1,963	2,259	2,452	2,734	3,081	3,352	3,376	4.6	3.7	3.5	3.3
Local.....	4,813	12,831	14,269	15,242	17,848	20,441	21,818	23,614	24.6	24.0	23.0	23.1
Magazines.....	1,292	3,149	3,593	3,710	4,233	4,932	5,155	5,317	6.6	5.9	5.4	5.2
Weeklies.....	617	1,418	1,598	1,659	1,917	2,224	2,297	2,327	3.2	2.6	2.4	2.3
Women's.....	301	782	853	904	1,056	1,209	1,294	1,376	1.5	1.5	1.4	1.3
Monthlies.....	374	949	1,082	1,147	1,260	1,499	1,564	1,614	1.8	1.8	1.8	1.6
Farm publications.....	62	130	146	148	163	181	186	192	.3	.2	.2	.2
Television.....	3,596	11,424	12,811	14,566	16,542	19,670	20,770	22,585	18.4	21.3	21.9	22.1
Network.....	1,658	5,130	5,575	6,210	7,017	8,526	8,285	8,570	8.5	9.6	8.8	8.4
Spot.....	1,234	3,269	3,746	4,364	4,827	5,488	6,004	6,570	6.3	6.1	6.3	6.4
Cable (National).....	(NA)	50	105	195	303	492	637	752	(NA)	1	7	7
Local.....	704	2,967	3,368	3,765	4,345	5,084	5,714	6,514	3.6	5.5	6.0	6.4
Cable (Local).....	(NA)	8	17	32	50	80	130	179	(NA)	(Z)	.1	.2
Radio.....	1,308	3,702	4,230	4,670	5,210	5,817	6,490	6,949	6.7	6.9	6.9	6.8
Network.....	56	183	230	255	296	320	365	423	.3	.3	.4	.4
Spot.....	371	779	679	923	1,038	1,197	1,335	1,348	1.9	1.5	1.4	1.3
Local.....	881	2,740	3,121	3,492	3,876	4,300	4,790	5,178	4.5	5.1	5.1	5.1
Direct mail.....	2,766	7,596	8,944	10,319	11,795	13,800	15,500	17,145	14.1	14.2	16.4	16.8
Newspapers.....	740	1,674	1,841	1,876	1,990	2,270	2,375	2,382	3.8	3.1	2.5	2.3
Outdoor.....	234	578	650	721	794	872	945	985	1.2	1.1	1.0	1.0
Miscellaneous.....	3,648	10,503	11,747	12,876	14,541	16,756	18,159	19,955	19.7	19.6	19.2	19.2

NA Not available. Z Less than .05.

Source: McCann-Erickson, Inc., New York, NY. Compiled for Crain Communications, Inc. In *Advertising Age* (copyright). Percentages derived by U.S. Bureau of the Census.

**NO. 899. MAGAZINE ADVERTISING—EXPENDITURES, BY PRODUCT TYPE: 1970 TO 1986**

[In millions of dollars, except percent. Space cost based on one-line rate; special rates used where applicable. Year-to-year data not strictly comparable, as a few minor publications are added or deleted]

TYPE OF PRODUCT	1970	1980	1981	1982	1983	1984	1985	1986	PERCENT DISTRIBUTION		
									1970	1980	1986
<b>Expenditures.....</b>	<b>1,193</b>	<b>2,846</b>	<b>3,223</b>	<b>3,421</b>	<b>3,939</b>	<b>4,668</b>	<b>4,961</b>	<b>5,120</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Apparel, footwear, and accessories.....	51	112	141	154	206	240	251	281	4.3	3.9	5.7
Automotive.....	97	230	290	333	405	478	549	597	8.1	8.0	11.7
Beer, wine, and liquor.....	98	239	252	258	243	230	240	225	8.2	8.4	4.4
Computers, office equipment, stationery.....	32	78	103	141	194	321	250	218	2.7	2.8	4.3
Consumer services.....	74	190	206	233	329	411	463	484	6.2	6.7	9.5
Drugs and remedies.....	38	79	88	89	105	129	135	148	3.2	2.8	2.9
Food and food products.....	86	199	213	240	263	289	342	389	7.2	7.0	7.6
Household equipment and supplies.....	34	65	82	66	81	98	100	93	2.8	2.3	1.8
Household furnishings.....	38	73	83	81	94	94	87	103	3.2	2.0	2.0
Jewelry, optical goods, camera.....	30	79	89	80	95	107	101	113	2.5	2.8	2.2
Mail orders.....	(NA)	(NA)	(NA)	(NA)	(NA)	292	328	357	(NA)	(NA)	7.0
Publishing and media.....	38	146	149	156	182	159	188	180	3.2	5.1	3.5
Retail.....	53	(NA)	(NA)	(NA)	(NA)	128	121	146	4.4	(NA)	2.9
Smoking materials.....	65	290	314	358	398	423	383	322	5.4	10.2	6.3
Toiletries and toilet goods.....	119	206	230	241	279	334	365	390	10.0	7.2	7.6
Travel, hotels, and resorts.....	54	123	137	153	174	212	245	249	4.5	4.3	4.9
All other.....	288	736	844	838	891	728	793	815	24.2	25.9	15.9

NA Not available. <sup>1</sup> Includes accessories and equipment. <sup>2</sup> Includes business services.

Source: Magazine Publishers Association, Inc., New York, NY, from data compiled by Publishers Information Bureau, Inc.

**No. 900. TELEVISION—EXPENDITURES FOR NETWORK ADVERTISING: 1980 TO 1986**

[In millions of dollars. See text, section 18 for a definition of network advertising]

TYPE OF PRODUCT	1980	1984	1985	1986	TYPE OF PRODUCT	1980	1984	1985	1986
<b>Expenditures</b> .....	<b>5,147</b>	<b>8,555</b>	<b>8,313</b>	<b>8,600</b>	Horticulture.....	15	29	30	29
Apparel, footwear, and accessories.....	131	237	161	181	Household equipment, supplies, and furnishings.....	225	286	275	335
Automotive.....	529	808	848	927	Insurance.....	74	109	99	131
Beer and wine.....	242	448	428	535	Financial planning services.....	20	66	60	79
Building material, equipment, and fixtures.....	59	105	97	88	Jewelry and cameras <sup>1</sup> .....	119	140	129	139
Computers, office equipment, and stationery.....	57	374	249	222	Laundry soaps, cleansers, and polishes.....	306	367	397	396
Confectionery, soft drinks.....	291	393	388	359	Movies.....	103	167	138	143
Consumer services.....	178	369	303	379	Pet products.....	144	175	175	157
Dept. and discount stores.....	94	215	161	139	Proprietary medicines.....	430	670	700	761
Food and food products.....	844	1,365	1,502	1,513	Publishing and media.....	34	58	50	49
Freight and industrial development.....	7	59	40	27	Restaurants and drive-ins.....	132	352	416	439
Gas, lubricants, etc.....	71	56	49	45	Tobacco products and supplies.....	8	10	6	1
Home electronics equipment.....	50	79	36	40	Toiletries and toilet goods.....	765	978	955	874
					Toys and sporting goods.....	93	165	152	138
					Travel, hotels, and resorts.....	72	108	102	113
					All other.....	64	393	367	359

<sup>1</sup> Includes optical goods.

**No. 901. TELEVISION—ESTIMATED TIME CHARGES FOR SPOT ADVERTISING: 1980 TO 1986**

[In millions of dollars. Data represent activity in the top 75 markets monitored by Broadcast Advertisers Reports, Inc. (BAR), currently covering approximately 329 stations. See text, section 18 for a definition of types of advertising]

TYPE OF PRODUCT	1980	1984	1985	1986 <sup>1</sup>	TYPE OF PRODUCT	1980	1984	1985	1986 <sup>1</sup>
<b>Estimated time charges</b> .....	<b>2,496</b>	<b>4,164</b>	<b>4,504</b>	<b>4,929</b>	Home electronics equipment.....	73	76	67	79
Agriculture and farming.....	15	19	17	24	Horticulture.....	35	39	37	38
Apparel, footwear, and accessories.....	105	113	95	64	Household equipment, supplies, and furnishings.....	133	215	217	200
Automotive.....	228	563	683	934	Insurance.....	34	67	86	118
Beer and wine.....	156	204	218	243	Jewelry, optical goods, and cameras.....	55	70	68	58
Building material, equipment, and fixtures.....	47	56	58	68	Laundry soaps, polishes.....	111	144	175	160
Computers, office equipment, and stationery.....	15	63	25	34	Pet products.....	33	56	60	55
Confectionery, soft drinks.....	212	335	355	376	Proprietary medicines.....	93	148	148	144
Consumer services.....	83	222	262	304	Publishing and media.....	78	127	147	167
Food and food products.....	507	885	927	977	Tobacco products, supplies.....	8	14	14	15
Freight and industrial development.....	5	21	36	50	Toiletries and toilet goods.....	223	263	267	230
Gasoline, lubricants, etc.....	50	104	102	111	Toys and sporting goods.....	104	141	211	212
					Travel, hotels, and resorts.....	76	183	187	230
					All other.....	17	36	40	38

<sup>1</sup> Excludes National Syndicated activity; therefore, not completely comparable to prior years.

**No. 902. TELEVISION—EXPENDITURES FOR RETAIL/LOCAL ADVERTISING: 1980 TO 1986**

[In millions of dollars. See headnote, table 801]

TYPE OF PRODUCT	1980	1984	1985	1986	TYPE OF PRODUCT	1980	1984	1985	1986
<b>Expenditures</b> .....	<b>1,983</b>	<b>3,485</b>	<b>3,899</b>	<b>4,445</b>	Home building contractors building supplies.....	35	77	91	93
Amusements, entertainment.....	88	104	121	128	Hotels, resorts, U.S.....	18	58	62	73
Appliance stores, repair.....	38	89	122	142	Financial planning services.....	7	28	29	34
Auto repair, service stations.....	28	61	73	80	Jewelry stores.....	19	24	25	27
Auto supply, accessory stores.....	12	36	41	39	Legal services.....	5	28	38	47
Auto, truck dealers.....	99	257	311	339	Leisure time stores and services.....	42	84	107	118
Banks, S&L associations.....	141	198	195	210	Loan, mortgage companies.....	12	20	25	24
Builders, real estate.....	26	42	41	38	Mail order, catalog showrooms.....	13	22	23	16
					Medical, dental services.....	13	62	87	114
Carpet, floor covering stores.....	24	36	40	44	Movies.....	102	86	103	135
Clothing stores.....	46	73	82	112	Newspapers.....	15	28	32	33
Department stores.....	131	168	186	177	Optical services, supplies.....	14	19	28	47
Discount department stores.....	74	93	115	113	Political.....	70	104	22	161
Drug stores.....	26	57	67	78	Radio, cable TV.....	69	129	134	147
Education services.....	17	49	70	86	Rental services (non-auto).....	15	34	38	43
Food stores, supermarkets.....	149	244	259	303	Restaurants, drive-ins.....	288	578	672	745
Furniture stores.....	111	165	187	195	Shoe stores.....	27	38	37	43
Gas, electric, water companies.....	16	33	38	42	Shopping centers, ass'ns.....	13	20	20	21
Hardware stores.....	19	23	20	17	Sport, hobby, toy stores.....	23	44	41	40
Health clubs, reducing salons.....	21	32	39	42	All other.....	137	241	278	299

Source of tables 800-902: Television Bureau of Advertising, Inc., New York, NY. Data compiled by Broadcast Advertisers Reports, Inc., New York, NY in the top 75 markets.

Figure 19.1  
Energy Production, Consumption and Imports: 1970 to 1986

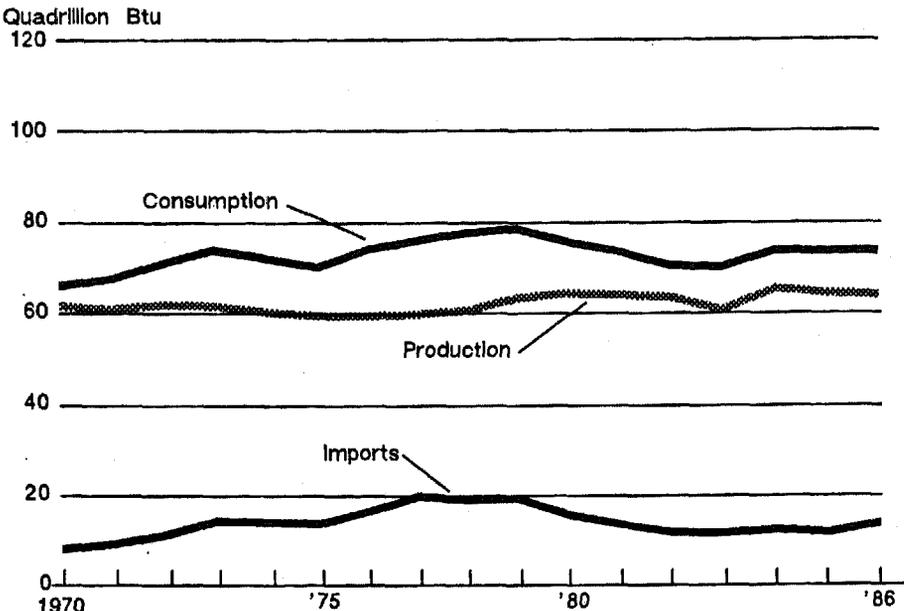
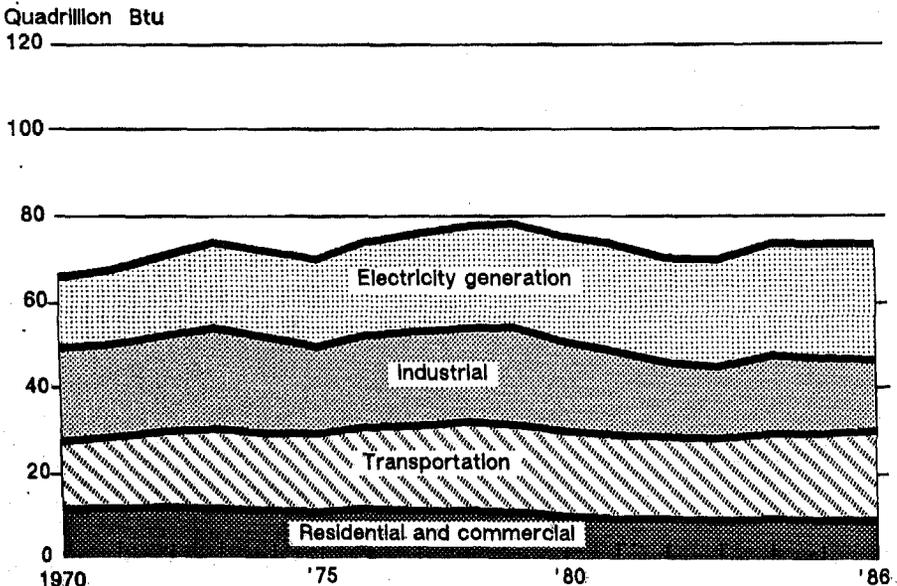
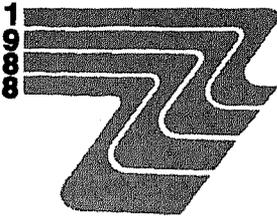


Figure 19.2  
Primary Energy Resources—Consumption by Major Consumer Group: 1970 to 1986





This section presents statistics on fuel resources, energy production and consumption, electric energy, hydroelectric power, nuclear power, solar energy, wood energy and the electric and gas utility industries. The principal sources are the U.S. Department of Energy's Energy Information Administration (EIA), the Edison Electric Institute, Washington, DC, and the American Gas Association, Arlington, VA. The Department of Energy was created in October 1977 and assumed and centralized the responsibilities of all or part of several agencies including the Federal Power Commission (FPC), the U.S. Bureau of Mines, the Federal Energy Administration, and the U.S. Energy Research and Development Administration. For additional data on transportation, see section 21; on fuels, see section 25; and on energy-related housing characteristics, see section 26.

The EIA, in its *Annual Energy Review*, provides statistics and trend data on energy supply, demand, and prices. Information is included on petroleum and natural gas, coal, electricity, hydroelectric power, nuclear power, and solar and geothermal energy. Among its annual reports are *Annual Energy Review*, *Electric Power Annual*, *Natural Gas Annual*, *Petroleum Supply Annual*, *State Energy Data Report*, *Energy Price and Expenditure Report*, *Financial Statistics of Selected Electric Utilities*, *Historical Capital Costs and Annual Production Expenses*, *Residential Energy Consumption Survey*, *Performance Profiles of Major Energy Producers*, *Typical Electric Bills*, *Annual Energy Outlook*, and *International Energy Annual*. These various publications contain State, national, and international data on production of electricity, net summer capability of generating plants, fuels used in energy production, energy sales and consumption, hydroelectric power, construction costs and production expenses of power plants, and depreciation practices. The EIA also issues the *Monthly Energy Review*, which presents current supply, disposition, and price data, and separate weekly and monthly publications on petroleum, coal, natural gas, and electric power. Data on residential energy consumption, expenditures, and conservation activities are available from EIA's Residential Energy Consumption Survey and are published in *Residential Energy Consumption Survey: Consumption and Expenditures*, and *Residential Energy Consumption Survey: Conservation*, and several other reports.

The Edison Electric Institute's monthly bulletin and annual *Statistical Year Book of the Electric Utility Industry for the Year* contain data on the distribution of electric energy by public utilities; information on the electric power supply, expansion of electric generating facilities, and the manufacture of heavy electric power equipment is presented in the annual *Year End Summary of the Electric Power Situation in the United States*. The American Gas Association, in its monthly and quarterly bulletins and its yearbook, *Gas Facts*, presents data on gas utilities, including sales, revenues, customers, prices, and other financial and operating statistics. A wide range of petroleum statistics are provided in the American Petroleum Institute publication *Basic Petroleum Data Book*.

**Btu conversion factors.**—Various energy sources are converted from original units (e.g., short tons, cubic feet, barrels, kilowatthours) to the thermal equivalent using British thermal units (Btu). A Btu is the amount of energy required to raise the temperature of 1 pound of water 1 degree Fahrenheit (F) at or near 39.2 degrees F. Factors are calculated annually from the latest final annual data available; some are revised as a result. The following list provides conversion factors used in 1985 for production and consumption, in that order, for various fuels: Petroleum, 5,800 and 5,387 mil. Btu per barrel; total coal, 21,874 and 21,370 mil. Btu per short ton; and natural gas (dry), 1,033 and 1,033 Btu per cubic foot. The factors for the production of nuclear power and geothermal power were 10,809 and 21,263 Btu per kilowatthour, respectively. The fossil fuel steam-electric power plant generation factor of 10,339 Btu per kilowatthour was used for hydroelectric power generation and for wood and waste, wind, photovoltaic, and solar thermal energy consumed at electric utilities.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

**Statistics for States and metropolitan statistical areas (MSAs).**—Data for States and MSAs may also be found in *State and Metropolitan Area Data Book 1986*. For cross-references, see Appendix V.

## NO. 903. TOTAL HORSEPOWER OF ALL PRIME MOVERS: 1950 TO 1986

[In millions, except percent. As of January, except as noted. Prior to 1960, excludes Alaska and Hawaii, except as noted. Prime movers are mechanical engines and turbines, and work animals, which originally convert fuels or force (as wind or falling water) into work and power. Electric motors, which obtain their power from prime movers, are excluded to avoid duplication. See also *Historical Statistics, Colonial Times to 1970*, series S 1-14]

YEAR	Total horsepower	AUTOMOTIVE <sup>1 2</sup>			NONAUTOMOTIVE						
		Total	Percent of total	Total	Factories <sup>3</sup>	Mines <sup>3</sup>	Railroads <sup>4</sup>	Merchant ships and sailing vessels	Farms	Electric central stations <sup>2</sup>	Aircraft <sup>5</sup>
1950	4,868	4,404	90.5	464	33	22	111	<sup>6</sup> 23	165	88	<sup>6</sup> 22
1955	7,158	6,632	92.7	526	36	31	60	<sup>6</sup> 24	212	138	<sup>6</sup> 26
1960	11,008	10,367	94.2	641	42	35	47	24	240	217	37
1965	15,086	14,306	94.8	790	48	40	44	24	272	307	55
1970	20,408	19,325	94.7	1,083	54	45	54	22	280	435	183
1972	22,913	21,736	94.9	1,175	57	46	57	21	305	508	181
1973	24,262	23,029	94.9	1,233	58	48	57	20	308	562	182
1974	24,516	23,224	94.7	1,292	59	46	61	21	315	605	185
1975	25,100	23,752	94.6	1,348	60	47	62	22	318	654	185
1976	25,732	24,339	94.6	1,393	61	47	64	22	324	692	184
1977	26,469	25,025	94.5	1,444	62	47	62	23	328	728	194
1978	27,379	25,892	94.6	1,487	63	48	64	25	335	754	198
1979	28,162	26,617	94.5	1,545	63	48	62	26	342	803	201
1980	28,922	27,362	94.6	1,564	64	48	63	28	345	806	210
1981	29,507	27,909	94.6	1,598	64	48	65	29	345	835	212
1982	30,485	28,852	94.6	1,643	64	48	64	29	352	854	232
1983	31,337	29,662	94.7	1,675	64	47	62	29	356	877	240
1984	31,819	30,117	94.7	1,702	65	47	61	30	359	886	254
1985	32,529	30,792	94.7	1,737	65	47	58	29	358	912	268
1986	33,660	31,893	94.8	1,767	65	47	56	29	358	942	270

<sup>1</sup> Includes passenger cars, trucks, buses, and motorcycles. <sup>2</sup> As of July 1. <sup>3</sup> Beginning 1965, data are estimates. <sup>4</sup> Beginning 1965, not strictly comparable with earlier years. <sup>5</sup> Includes private planes and commercial airlines. <sup>6</sup> Includes Alaska and Hawaii. <sup>7</sup> Includes estimates of about 3.0 million hp in work animals and 30,000 in windmills.

Source: 1950 and 1955, *The Twentieth Century Fund, New York, NY, J.F. Dewhurst and Associates, America's Needs and Resources, A New Survey*, and John A. Waring, *Transactions of Canadian Sectional Meeting, World Power Conference, 1958*. Beginning 1960, John A. Waring, Arlington, VA, unpublished estimates.

## NO. 904. ENERGY PRODUCTION AND CONSUMPTION, BY MAJOR SOURCE: 1960 TO 1986

[Btu=British thermal unit. For Btu conversion factors, see text, section 19. See also *Historical Statistics, Colonial Times to 1970*, series M 76-92]

YEAR	Total production (quad. Btu)	PERCENT OF PRODUCTION				Total consumption (quad. Btu)	PERCENT OF CONSUMPTION				Consumption/production ratio
		Coal	Petroleum <sup>1</sup>	Natural gas <sup>2</sup>	Other <sup>3</sup>		Coal	Petroleum <sup>1</sup>	Natural gas <sup>2</sup>	Other <sup>3</sup>	
1960	41.5	26.1	36.0	34.0	3.9	49.8	22.5	45.5	28.9	3.8	1.06
1961	42.0	24.9	36.2	34.9	4.0	44.5	21.6	45.5	29.1	3.8	1.06
1962	42.6	25.0	35.6	35.1	4.2	46.5	21.3	45.2	29.5	4.0	1.07
1963	45.9	25.8	34.8	35.4	4.0	48.3	21.5	44.9	29.8	3.7	1.05
1964	47.7	26.2	33.9	35.8	4.0	50.5	21.7	44.2	30.3	3.8	1.06
1965	49.3	26.5	33.5	35.8	4.3	52.7	22.0	44.1	29.9	4.0	1.07
1966	52.2	25.8	33.7	36.4	4.1	55.7	21.8	43.8	30.5	3.8	1.07
1967	55.0	25.1	33.9	36.5	4.4	57.6	20.7	43.9	31.2	4.2	1.05
1968	58.8	24.0	34.0	37.6	4.4	61.0	20.2	44.2	31.5	4.1	1.07
1969	59.1	23.5	33.1	38.7	4.8	64.2	19.3	44.1	32.2	4.4	1.09
1970	62.1	23.5	32.9	38.9	4.7	66.4	18.5	44.4	32.8	4.3	1.07
1971	61.3	21.5	32.7	40.5	5.3	67.9	17.1	45.0	33.1	4.8	1.11
1972	62.4	22.6	32.1	39.7	5.6	71.3	16.9	46.2	31.9	5.0	1.14
1973	62.1	22.5	31.4	38.9	6.2	74.3	17.5	46.9	30.3	5.3	1.20
1974	60.8	23.1	30.5	38.9	7.4	72.5	17.5	46.1	30.0	6.5	1.19
1975	59.9	25.0	29.6	36.8	8.6	70.5	17.9	46.4	28.3	7.4	1.18
1976	59.9	26.1	28.8	36.4	8.6	74.4	18.3	47.3	27.4	7.1	1.24
1977	60.2	26.2	29.0	36.4	8.5	76.3	18.2	48.7	26.1	7.0	1.27
1978	61.1	24.4	30.2	35.6	9.9	78.1	17.6	48.6	25.6	8.1	1.28
1979	63.8	27.5	28.4	35.0	9.1	78.9	19.1	47.1	26.2	7.7	1.24
1980	64.8	28.7	28.2	34.2	8.9	76.0	20.3	45.0	26.8	7.8	1.17
1981	64.4	28.5	28.2	34.2	9.1	74.0	21.5	43.2	26.9	8.4	1.15
1982	63.9	29.2	28.7	32.0	10.2	70.8	21.6	42.7	26.1	9.6	1.11
1983	61.2	28.2	30.1	30.6	11.2	70.5	22.6	42.6	24.6	10.2	1.15
1984	65.8	30.0	28.6	30.7	10.7	74.1	23.0	41.9	25.0	10.0	1.13
1985	64.8	30.0	29.3	29.6	11.3	74.0	23.6	41.8	24.1	10.4	1.14
1986	64.3	30.3	28.6	29.0	12.1	73.9	23.4	43.1	22.4	11.1	1.15

<sup>1</sup> Production includes crude oil and lease condensate. Consumption includes domestically produced crude oil, natural gas liquids, and lease condensate, plus imported crude oil and products. <sup>2</sup> Production includes natural gas liquids; consumption excludes natural gas liquids. <sup>3</sup> Comprised of hydropower, nuclear power, geothermal energy and other.

Source: U.S. Energy Information Administration, *Annual Energy Review*, and unpublished data.

## No. 905. ENERGY SUPPLY AND DISPOSITION, BY TYPE OF FUEL: 1960 TO 1986

[In quadrillion British thermal units (Btu), except percent. For Btu conversion factors, see text, section 19]

TYPE OF FUEL	1960	1970	1973	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986, prel.
Production.....	41.5	62.1	62.1	59.9	61.1	63.8	64.8	64.4	63.9	61.2	65.8	64.8	64.3
Crude oil <sup>1</sup> .....	14.9	20.4	19.5	17.7	18.4	18.1	18.2	18.1	18.3	18.4	18.9	18.0	18.4
Natural gas liquids.....	1.5	2.5	2.6	2.4	2.2	2.3	2.3	2.3	2.2	2.2	2.3	2.2	2.2
Natural gas <sup>2</sup> .....	12.7	21.7	22.2	19.6	19.5	20.1	19.9	19.7	18.3	16.5	17.8	16.9	16.5
Coal.....	10.8	14.6	14.0	15.0	14.9	17.5	18.8	18.4	18.6	17.3	17.3	17.3	17.3
Nuclear power.....	(z)	.2	.9	1.9	3.0	2.8	2.7	3.0	3.1	3.2	3.6	4.2	4.5
Hydropower.....	1.6	2.6	2.9	3.2	2.9	2.9	2.9	2.8	3.3	3.5	3.1	2.9	3.0
Geothermal and other.....	(z)	(z)	(z)	.1	.1	.1	.1	.1	.1	.1	.2	.2	.2
Net trade <sup>3</sup> .....	-2.7	-5.7	-12.7	-11.8	-17.3	-16.4	-12.2	-9.6	-7.5	-8.3	-9.0	-7.9	-10.1
Exports.....	1.5	2.7	2.1	2.4	1.9	2.9	3.7	4.3	4.6	3.7	3.8	4.2	4.0
Coal.....	1.0	1.9	1.4	1.8	1.1	1.8	2.4	2.9	2.8	2.0	2.2	2.4	2.3
Imports <sup>4</sup> .....	4.2	8.4	14.7	14.1	19.3	19.6	16.0	14.0	12.1	12.0	12.8	12.1	14.1
Crude oil.....	2.2	2.8	6.9	8.7	13.5	13.8	11.2	9.3	7.4	7.1	7.3	6.8	8.8
Consumption.....	43.8	66.4	74.3	70.6	78.1	78.9	76.0	74.0	70.8	70.5	74.1	74.0	73.9
Petroleum products.....	19.9	29.5	34.8	32.7	38.0	37.1	34.2	31.9	30.2	30.1	31.1	30.9	31.9
Natural gas <sup>2</sup> .....	12.4	21.8	22.5	19.9	20.0	20.7	20.4	19.9	18.5	17.4	18.5	17.9	16.5
Coal.....	9.8	12.3	13.0	12.7	13.8	15.0	15.4	15.9	15.3	15.9	17.1	17.5	17.3
Nuclear power.....	(z)	.2	.9	1.9	3.0	2.8	2.7	3.0	3.1	3.2	3.6	4.2	4.5
Hydropower <sup>5</sup> .....	1.7	2.7	3.0	3.2	3.1	3.1	3.1	3.1	3.6	3.9	3.7	3.4	3.5
Geothermal and other.....	(z)	(z)	(z)	.1	.1	.1	.1	.1	.1	.1	.2	.2	.2

Z Less than 50 trillion. <sup>1</sup> Includes lease condensate. <sup>2</sup> Dry marketed gas. <sup>3</sup> Exports minus imports. <sup>4</sup> Includes other types, not shown separately. <sup>5</sup> Includes industrial generation of hydropower and net electricity imports.

Source: U.S. Energy Information Administration, *Annual Energy Review*.

## No. 906. SELECTED ENERGY INDICATORS—SUMMARY: 1960 TO 1986

[Btu=British thermal unit. For Btu conversion factors, see text, section 19]

YEAR	ANNUAL AVERAGE PERCENT CHANGE <sup>1</sup>							PER CAPITA <sup>5</sup> (mil. Btu)		Consumption per dollar GNP <sup>4</sup> (1,000 Btu)		
	Energy production				Energy consumption			GNP <sup>4</sup>	Energy pro- duction		Energy con- sumption	
	Total <sup>2</sup>	Crude oil <sup>3</sup>	Natural gas	Coal	Total <sup>2</sup>	Petro- leum products	Natural gas (dry)					Coal
1960.....	1.4	.7	6.3	-2.8	2.4	2.9	6.6	-2.5	2.2	231	243	26.3
1965.....	3.5	2.0	4.5	-3.6	3.8	3.1	4.9	-3.3	4.6	255	272	25.2
1970.....	4.7	4.3	6.6	2.3	4.7	4.9	6.7	1.2	3.0	304	326	27.5
1971.....	-1.3	-1.8	2.8	-9.7	2.2	3.5	3.1	-5.4	2.8	296	328	27.3
1972.....	1.8	(z)	-3	-9.7	5.0	7.8	1.0	4.1	5.0	298	340	27.3
1973.....	-6	-2.7	-1	-7	4.2	5.7	-8	7.4	5.2	294	351	27.1
1974.....	-2.0	-4.7	-4.4	.6	-2.3	-4.0	-3.5	-2.4	-5	285	340	26.6
1975.....	-1.6	-4.5	-7.4	6.5	-2.8	-2.2	-8.2	(z)	-1.3	278	327	26.2
1976.....	.1	-2.7	-8	4.4	5.4	7.5	2.0	7.3	4.9	275	342	26.3
1977.....	.5	1.1	.5	.6	2.6	5.5	-2.1	2.5	4.7	274	347	25.8
1978.....	1.5	5.6	-4	-5.4	2.4	2.3	.4	-1.1	5.3	275	352	25.1
1979.....	4.4	-1.8	3.0	17.6	1.0	-2.2	3.3	9.3	2.5	284	351	24.7
1980.....	1.5	.8	-.9	6.0	-3.7	-7.9	-1.3	2.5	-2	285	394	23.8
1981.....	-.5	-.6	-1.1	-1.2	-2.6	-6.6	-2.3	3.1	1.9	281	322	22.8
1982.....	-.8	-.9	-7.4	1.4	-4.3	-5.3	-7.1	-3.7	2.5	275	305	22.4
1983.....	-4.2	.5	9.4	-7.5	-.5	-.8	-6.2	3.8	3.5	261	300	21.5
1984.....	7.6	2.5	8.5	14.3	5.1	3.3	6.6	7.4	6.4	278	312	21.2
1985.....	-1.6	-.7	-5.8	-2.0	-.1	-.4	-3.6	2.4	2.7	271	309	20.6
1986, prel.	-.8	-3.4	-2.5	.8	-.1	3.1	-7.4	-.9	2.5	267	307	20.1

Z Less than .05 percent. <sup>1</sup> Represents annual average for period of intervals shown; for 1960, change from 1955. Percent change derived from Btu values. Minus sign indicates decrease. For explanation of average annual percent change, see Guide to Tabular Presentation. <sup>2</sup> Includes types of fuel or power not shown separately. <sup>3</sup> Includes lease condensate. <sup>4</sup> Gross national product in constant (1982) dollars, see table 688. <sup>5</sup> Based on resident population estimated as of July 1.

Source: U.S. Energy Information Administration, *Annual Energy Review*.

## NO. 907. ENERGY CONSUMPTION—END-USE SECTOR AND SELECTED SOURCE, BY STATE: 1985

[In trillions of Btu, except as indicated. For Btu conversion factors, see text, section 19. For composition of regions, see fig. 1, inside front cover]

REGION, DIVISION, AND STATE	Total <sup>1</sup>	Per capita <sup>2</sup> (mil. Btu)	Percent change, 1984-1985	END-USE SECTOR				SOURCE				
				Residential	Commercial	Industrial	Transportation	Petroleum	Natural gas (dry)	Coal	Hydro-power	Nuclear power
U.S.....	74,023	310	(2)	15,263	11,582	27,056	20,123	30,925	17,869	17,520	3,363	4,147
<b>Region:</b>												
Northeast.....	11,523	231	.2	2,959	2,312	3,034	3,220	5,704	2,200	1,948	590	1,030
Midwest.....	18,868	319	-.2	4,402	2,982	7,035	4,451	6,548	4,524	6,270	257	1,028
South.....	30,079	367	-.3	5,205	4,021	12,983	7,872	12,645	7,950	7,393	399	1,706
West.....	13,588	284	.5	2,700	2,266	4,021	4,583	6,032	3,199	1,911	2,115	387
<b>New England.....</b>	<b>2,745</b>	<b>217</b>	<b>2.3</b>	<b>791</b>	<b>559</b>	<b>574</b>	<b>824</b>	<b>1,688</b>	<b>355</b>	<b>175</b>	<b>123</b>	<b>294</b>
Maine.....	304	261	2.3	73	41	96	94	193	3	2	35	58
New Hampshire.....	200	200	3.2	61	28	49	63	123	11	39	21	32
Vermont.....	115	215	2.4	36	18	24	37	64	5	2	47	66
Massachusetts.....	1,240	213	1.8	362	274	221	383	762	224	111	4	86
Rhode Island.....	195	202	6.8	60	38	48	51	109	31	(2)	4	—
Connecticut.....	691	218	1.6	199	160	136	198	437	81	21	3	138
<b>Middle Atlantic.....</b>	<b>8,778</b>	<b>236</b>	<b>-.4</b>	<b>2,168</b>	<b>1,753</b>	<b>2,460</b>	<b>2,398</b>	<b>4,016</b>	<b>1,845</b>	<b>1,771</b>	<b>467</b>	<b>736</b>
New York.....	3,373	190	-4.2	913	912	702	845	1,604	795	305	40	260
New Jersey.....	2,134	282	-6.8	464	379	501	790	1,215	392	102	-3	192
Pennsylvania.....	3,271	276	-4.7	791	462	1,257	761	1,197	658	1,364	10	284
<b>East North Central.....</b>	<b>13,250</b>	<b>318</b>	<b>-.2</b>	<b>3,063</b>	<b>2,070</b>	<b>5,193</b>	<b>2,924</b>	<b>4,325</b>	<b>3,245</b>	<b>4,537</b>	<b>47</b>	<b>706</b>
Ohio.....	3,588	334	-1.5	789	521	1,524	755	1,130	764	1,394	2	21
Indiana.....	2,289	416	-1.1	412	243	1,116	518	748	436	1,192	4	—
Illinois.....	3,469	301	-2.1	838	673	1,229	728	1,138	989	801	1	423
Michigan.....	2,612	287	-3.9	679	407	913	612	854	745	785	14	145
Wisconsin.....	1,292	271	2.1	344	226	411	311	455	311	365	26	119
<b>West North Central.....</b>	<b>5,618</b>	<b>320</b>	<b>1.1</b>	<b>1,339</b>	<b>912</b>	<b>1,842</b>	<b>1,527</b>	<b>2,223</b>	<b>1,279</b>	<b>1,733</b>	<b>210</b>	<b>320</b>
Minnesota.....	1,224	292	1.0	302	186	402	333	495	259	228	38	125
Iowa.....	920	319	-1.2	226	148	326	220	341	227	268	21	21
Missouri.....	1,477	293	-1.2	399	259	390	430	579	259	521	31	87
North Dakota.....	301	440	13.7	55	33	145	69	119	29	307	50	—
South Dakota.....	192	271	3.4	51	28	47	65	98	25	34	55	—
Nebraska.....	497	310	-1.0	125	105	127	141	195	125	115	15	45
Kansas.....	1,007	411	-1.8	161	153	405	269	398	355	260	(2)	42
<b>South Atlantic.....</b>	<b>10,829</b>	<b>269</b>	<b>1.4</b>	<b>2,411</b>	<b>1,825</b>	<b>3,243</b>	<b>3,351</b>	<b>4,608</b>	<b>1,331</b>	<b>3,533</b>	<b>129</b>	<b>1,265</b>
Delaware.....	205	330	-2.0	37	17	86	56	120	39	72	—	—
Maryland.....	1,129	257	-1.1	274	152	398	316	467	156	264	16	107
District of Columbia.....	165	265	-1.1	35	70	30	30	40	29	4	—	—
Virginia.....	1,586	280	3.1	366	310	419	500	671	145	304	9	241
West Virginia.....	795	379	-7.1	124	78	378	154	247	128	882	11	—
North Carolina.....	1,681	268	.5	382	264	542	492	665	139	555	42	208
South Carolina.....	994	298	.1	191	138	400	265	346	101	258	19	344
Georgia.....	1,771	296	2.2	355	253	574	589	754	290	727	29	110
Florida.....	2,553	225	5.4	647	533	425	949	1,298	303	467	3	254
<b>East South Central.....</b>	<b>5,040</b>	<b>333</b>	<b>-2.0</b>	<b>1,011</b>	<b>717</b>	<b>1,970</b>	<b>1,342</b>	<b>1,817</b>	<b>841</b>	<b>2,073</b>	<b>169</b>	<b>307</b>
Kentucky.....	1,192	320	-3.2	254	170	448	321	465	193	713	30	—
Tennessee.....	1,639	344	-1.7	350	271	585	432	562	197	588	69	105
Alabama.....	1,394	346	-1.2	252	173	633	335	453	228	669	71	155
Mississippi.....	815	312	-1.9	155	103	304	254	337	233	109	—	47
<b>West South Central.....</b>	<b>14,210</b>	<b>535</b>	<b>-1.0</b>	<b>1,783</b>	<b>1,479</b>	<b>7,770</b>	<b>3,179</b>	<b>6,220</b>	<b>5,778</b>	<b>1,787</b>	<b>101</b>	<b>134</b>
Arkansas.....	782	323	-1.9	155	104	299	204	303	189	220	46	107
Louisiana.....	3,185	710	-6.1	289	250	2,051	594	1,352	1,446	159	—	27
Oklahoma.....	1,339	405	-1.0	267	198	532	342	466	612	237	43	—
Texas.....	8,924	545	1.0	1,072	927	4,888	2,037	4,099	3,521	1,171	14	—
<b>Mountain.....</b>	<b>4,043</b>	<b>316</b>	<b>1.3</b>	<b>820</b>	<b>706</b>	<b>1,310</b>	<b>1,208</b>	<b>1,583</b>	<b>859</b>	<b>1,759</b>	<b>456</b>	<b>12</b>
Montana.....	347	420	4.8	64	55	145	82	160	47	99	106	—
Idaho.....	347	348	2.0	80	70	118	80	106	41	9	113	—
Wyoming.....	351	689	2.9	40	36	206	70	128	87	408	11	—
Colorado.....	884	273	.4	219	215	174	276	333	223	300	24	—
New Mexico.....	458	316	-5.0	67	70	159	162	217	159	268	1	—
Arizona.....	821	257	3.7	170	157	200	293	318	136	345	145	12
Utah.....	529	322	1.0	115	62	219	133	185	124	204	11	—
Nevada.....	306	327	1.2	65	41	89	112	136	42	126	45	—
<b>Pacific.....</b>	<b>9,525</b>	<b>272</b>	<b>.2</b>	<b>1,880</b>	<b>1,560</b>	<b>2,711</b>	<b>3,375</b>	<b>4,449</b>	<b>2,340</b>	<b>152</b>	<b>1,659</b>	<b>375</b>
Washington.....	1,682	382	1.5	400	310	552	421	566	140	94	806	87
Oregon.....	804	299	-1.7	197	142	220	246	316	86	10	474	75
California.....	6,359	241	-.2	1,219	1,036	1,682	2,409	3,086	1,896	43	370	213
Alaska.....	448	859	-4.8	43	51	200	154	221	215	5	8	—
Hawaii.....	232	221	6.7	21	15	47	145	228	3	—	1	—

- Represents zero. Z Less than 500 billion or .05 percent. <sup>1</sup> Sources of energy includes geothermal, wood and waste, and net interstate sales of electricity, including losses, not shown separately. <sup>2</sup> Based on estimated resident population as of July 1. <sup>3</sup> Includes -13.5 trillion Btu of net imports of coal not allocated by State. <sup>4</sup> Minus sign (-) indicates when amount of energy expended for pump storage hydropower exceeds amount of energy consumed.

NO. 908. PRIMARY ENERGY CONSUMPTION BY END-USE SECTOR: 1960 TO 1986

[For definition of Btu, see text, section 19]

SECTOR	1960	1970	1973	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986, prel.
<b>Total consumption (quad. Btu)</b> .....	<b>43.8</b>	<b>66.4</b>	<b>74.3</b>	<b>70.6</b>	<b>78.1</b>	<b>78.9</b>	<b>76.0</b>	<b>74.0</b>	<b>70.8</b>	<b>70.5</b>	<b>74.1</b>	<b>74.0</b>	<b>73.9</b>
Residential and commercial .....	8.7	12.1	12.3	11.6	11.9	11.5	10.7	10.0	10.1	9.7	10.1	9.8	9.7
Industrial and miscellaneous .....	16.3	21.9	23.6	20.4	21.9	22.8	21.0	19.7	17.4	16.7	18.2	17.5	16.7
Transportation .....	10.6	16.0	18.5	18.2	20.6	20.4	19.7	19.5	19.0	19.1	19.8	20.1	20.7
Electricity generation .....	8.2	16.3	19.9	20.3	23.7	24.1	24.5	24.8	24.3	24.9	26.0	26.5	26.8
<b>Percent of total:</b>													
Residential and commercial .....	20.0	18.3	16.5	16.4	15.3	14.6	14.1	13.6	14.2	13.8	13.6	13.2	13.1
Industrial and miscellaneous .....	37.1	32.9	31.7	28.9	28.0	28.9	27.7	26.6	24.6	23.7	24.5	23.7	22.6
Transportation.....	24.1	24.2	25.0	25.8	26.3	25.9	25.3	26.3	26.9	27.1	26.9	27.2	28.0
Electricity generation .....	18.7	24.5	26.7	28.8	30.4	30.6	32.3	33.5	34.2	35.4	35.1	35.8	36.3

Source: U.S. Energy Information Administration, *Annual Energy Review*.

NO. 909. ENERGY CONSUMPTION, BY SECTOR AND PRIMARY SOURCE: 1986

[In trillions of Btu. For definition of Btu, see text, section 19]

SECTOR	Total <sup>1</sup>	Coal <sup>2</sup>	Natural gas, dry	Petroleum <sup>3</sup>	Hydroelectric <sup>4</sup>	Nuclear power	Other <sup>5</sup>	Electricity distributed <sup>6</sup>	Electric energy loss <sup>7</sup>
Final consuming sectors.....	73,870	2,802	13,826	30,435	33	(x)	-17	8,110	18,673
Residential and commercial .....	27,244	179	6,968	2,573	(x)	(x)	-	5,306	12,217
Industrial.....	25,924	2,623	6,363	7,704	33	(x)	-17	2,791	6,426
Transportation.....	20,695	-	495	20,158	(x)	(x)	-	13	30
Electric utilities.....	26,784	14,462	2,701	1,452	3,462	4,475	232	(x)	(x)

- Represents zero. X Not applicable. <sup>1</sup>Total may not equal sum of components due to independent rounding of the components. <sup>2</sup>Represents anthracite, bituminous coal, and lignite. <sup>3</sup>Includes petroleum products, still gas, liquefied refinery gas, and natural gas liquids. <sup>4</sup>Industrial sector is hydroelectricity produced by the industrial sector. Electric utilities sector includes net imports of electricity. <sup>5</sup>Industrial sector includes net imports of coal coke. Electric utilities sector includes electricity produced from geothermal, wood, waste, wind, solar thermal, and photovoltaic sources. <sup>6</sup>Electrical energy used by railroads, and for street and highway lighting, is included in transportation sector. <sup>7</sup>Losses allocated by final end-use sector in proportion to their direct kilowatt hour usage.

Source: U.S. Energy Information Administration, *Monthly Energy Review*, January 1986.

NO. 910. ENERGY EXPENDITURES AND AVERAGE FUEL PRICES, BY SOURCE AND SECTOR: 1970 TO 1985

[For definition of Btu, see text, section 19. End-use sector and electric utilities exclude expenditures and prices on energy sources such as hydropower, solar, wind, and geothermal. Also excludes expenditures for reported amounts of energy consumed by the energy industry for production, transportation, and processing operations]

SOURCE AND SECTOR	1970	1975	1980	1981	1982	1983	1984	1985
<b>EXPENDITURES (mil. dol.)</b>								
<b>Total</b> <sup>1 2</sup> .....	<b>82,567</b>	<b>171,549</b>	<b>374,704</b>	<b>428,064</b>	<b>426,157</b>	<b>417,139</b>	<b>438,737</b>	<b>441,045</b>
Natural gas.....	10,891	20,059	51,016	60,498	68,203	71,923	77,048	72,901
Petroleum products <sup>2</sup> .....	46,074	103,626	239,262	266,782	243,637	222,896	225,714	223,572
Motor gasoline.....	31,588	59,447	124,404	138,139	130,309	118,096	114,444	118,308
Distillate fuel oil.....	6,255	15,683	40,793	48,200	44,118	40,403	42,984	41,505
Jet fuel.....	1,440	4,194	13,924	15,608	14,974	13,940	15,064	14,745
Residual fuel.....	2,046	10,380	21,583	22,872	17,623	14,093	14,389	11,994
Coal.....	4,592	13,044	22,636	26,191	26,391	27,084	29,052	29,866
Electricity sales.....	23,350	50,683	98,099	116,453	127,393	134,745	147,895	154,530
Residential sector.....	20,083	36,845	68,828	77,915	86,820	92,054	96,692	101,372
Commercial sector.....	10,670	22,835	46,883	55,365	61,239	64,825	70,038	71,443
Industrial sector.....	16,344	40,780	95,018	109,428	104,081	101,457	111,798	107,798
Transportation sector <sup>2</sup> .....	35,471	71,089	163,976	185,357	174,016	158,802	158,206	150,432
Motor gasoline.....	30,517	57,993	121,805	135,395	127,953	116,071	112,051	115,459
Electric utilities.....	4,313	16,395	37,427	43,269	41,303	41,300	43,345	42,522
<b>AVERAGE FUEL PRICES (dol. per mil. Btu)</b>								
<b>All sectors</b> .....	<b>1.08</b>	<b>2.20</b>	<b>4.60</b>	<b>5.27</b>	<b>5.35</b>	<b>5.15</b>	<b>5.03</b>	<b>4.91</b>
Residential sector.....	2.12	3.83	7.55	8.92	9.91	10.81	11.15	11.42
Commercial sector.....	1.97	4.09	7.88	9.55	10.43	11.03	11.44	11.89
Industrial sector.....	.83	2.21	4.77	5.60	6.14	6.28	6.29	6.19
Transportation sector.....	2.33	4.03	8.64	9.86	9.45	8.54	8.20	8.20
Electric utilities.....	.32	.96	1.75	2.00	2.01	1.97	1.97	1.85

<sup>1</sup> Includes electricity sales; excludes electricity generation. <sup>2</sup> Includes sources or fuel types not shown separately.

Source: U.S. Energy Information Administration, *State Energy Price and Expenditure Report*, annual.

## No. 911. ENERGY EXPENDITURES—SOURCE AND END-USE SECTOR, BY STATE: 1985

[In millions of dollars, except per capita and percents. End-use sector and electric utilities exclude expenditures on energy sources such as hydropower, solar, wind, and geothermal. Also excludes expenditures for reported amounts of energy consumed by the energy industry for production, transportation, and processing operations]

DIVISION AND STATE	Total <sup>1</sup>	Per capita <sup>2</sup> (dol.)	Percent change, 1984-1985	SOURCE					END-USE SECTOR			
				Petroleum products		Natural gas	Coal	Electricity sales	Residential	Commercial	Industrial	Transportation
				Total	Gasoline							
U.S.....	<sup>a</sup> 441,045	1,847	.5	223,572	116,308	72,901	29,666	154,530	101,372	71,443	<sup>a</sup> 107,798	160,432
<b>N. Eng.</b>	<b>21,033</b>	<b>1,662</b>	<b>.3</b>	<b>12,356</b>	<b>6,025</b>	<b>2,294</b>	<b>362</b>	<b>7,753</b>	<b>6,384</b>	<b>4,085</b>	<b>3,327</b>	<b>7,235</b>
ME.....	2,061	1,767	4.7	1,391	616	19	6	737	544	281	423	813
NH.....	1,538	1,539	1.6	944	505	70	78	578	487	203	283	565
VT.....	866	1,818	3.7	545	291	23	4	291	267	127	133	938
MA.....	9,476	1,628	-1.9	5,483	2,653	1,365	225	3,944	2,873	1,980	1,943	3,280
RI.....	1,478	1,526	8.9	819	417	205	-	481	478	266	279	455
CT.....	5,614	1,770	.8	3,174	1,543	577	49	2,322	1,735	1,228	866	1,764
<b>Mid. Atl.</b>	<b>61,646</b>	<b>1,658</b>	<b>1.3</b>	<b>29,205</b>	<b>14,705</b>	<b>10,418</b>	<b>2,969</b>	<b>23,754</b>	<b>17,609</b>	<b>13,346</b>	<b>11,433</b>	<b>19,257</b>
NJ.....	25,713	1,449	4.5	11,762	6,317	4,637	553	10,906	7,878	7,327	3,275	7,232
NY.....	15,796	2,099	.4	8,502	3,553	2,359	193	5,336	3,987	3,000	2,947	5,862
PA.....	20,137	1,697	-1.9	8,941	4,835	3,422	2,223	7,512	5,744	3,019	5,211	6,163
<b>E. No. Cent.</b>	<b>78,593</b>	<b>1,887</b>	<b>.3</b>	<b>33,827</b>	<b>19,994</b>	<b>16,408</b>	<b>8,356</b>	<b>26,581</b>	<b>19,955</b>	<b>12,369</b>	<b>21,227</b>	<b>25,043</b>
OH.....	20,863	1,923	-1.9	8,915	5,229	3,941	2,396	7,306	5,182	3,100	5,865	6,517
IN.....	11,928	2,169	-7	5,376	2,708	1,992	2,107	3,812	2,545	1,269	3,975	4,139
IL.....	21,408	1,855	-	8,625	5,291	4,847	1,701	7,921	5,594	4,146	5,361	6,307
MI.....	16,571	1,823	4.3	7,096	4,473	3,578	1,506	5,186	4,398	2,582	4,271	5,320
WI.....	8,023	1,680	.8	3,815	2,293	1,650	646	2,456	2,236	1,272	1,755	2,760
<b>W. No. Cent.</b>	<b>33,098</b>	<b>1,885</b>	<b>-.4</b>	<b>17,118</b>	<b>9,817</b>	<b>5,286</b>	<b>2,537</b>	<b>10,322</b>	<b>7,982</b>	<b>4,847</b>	<b>7,686</b>	<b>12,581</b>
MN.....	7,394	1,764	-1.4	3,919	2,345	1,275	345	2,148	1,837	990	1,641	2,926
IA.....	5,639	1,937	-8	2,712	1,575	1,003	407	1,863	1,430	875	1,462	1,861
MO.....	8,959	1,797	1.7	4,519	2,710	1,284	795	3,201	2,372	1,398	1,785	3,495
ND.....	1,635	2,387	6.9	880	447	115	483	391	316	170	561	588
SD.....	1,253	1,789	1.8	786	454	128	46	330	316	146	226	565
NE.....	2,950	1,838	-1.2	1,574	905	524	133	848	685	507	573	1,184
KS.....	5,177	2,113	-4.4	2,728	1,381	959	367	1,541	1,026	761	1,448	1,942
<b>So. Atl.</b>	<b>69,003</b>	<b>1,716</b>	<b>1.9</b>	<b>35,626</b>	<b>21,275</b>	<b>6,442</b>	<b>6,501</b>	<b>27,542</b>	<b>16,547</b>	<b>10,949</b>	<b>13,802</b>	<b>27,705</b>
DE.....	1,284	2,064	.7	771	375	181	133	429	302	186	308	488
MD.....	7,303	1,662	-2	3,706	2,276	967	465	2,638	1,907	992	1,627	2,777
DC.....	1,147	1,841	-5	330	203	211	8	606	250	461	167	269
VA.....	9,808	1,720	2.4	5,310	3,092	787	543	3,550	2,362	1,666	1,809	4,171
NC.....	3,717	1,919	-4.8	1,946	896	518	1,421	1,094	700	413	1,407	1,197
WV.....	10,695	1,708	1.1	5,401	3,368	706	1,093	4,480	2,528	1,472	2,491	4,203
SC.....	5,805	1,741	.8	2,768	1,756	495	486	2,443	1,265	764	1,565	2,211
GA.....	10,823	1,911	.9	5,685	3,356	1,486	1,362	3,591	2,171	1,503	2,532	4,617
FL.....	18,421	1,621	5.8	9,709	5,953	1,081	990	6,711	5,062	3,492	2,096	7,772
<b>E. So. Cent.</b>	<b>27,701</b>	<b>1,831</b>	<b>-.7</b>	<b>13,651</b>	<b>7,923</b>	<b>3,186</b>	<b>3,568</b>	<b>10,425</b>	<b>5,575</b>	<b>3,815</b>	<b>7,754</b>	<b>10,558</b>
KY.....	6,391	1,714	-2.0	3,461	1,851	715	1,053	2,046	1,401	712	1,767	2,511
TN.....	8,954	1,680	.3	4,361	2,710	823	911	3,635	1,643	1,404	2,408	3,509
AL.....	7,901	1,965	-1.5	3,453	2,094	963	1,331	3,210	1,639	1,097	2,454	2,711
MS.....	4,445	1,700	.5	2,376	1,268	685	273	1,534	892	602	1,125	1,827
<b>W. So.</b>	<b>70,372</b>	<b>2,652</b>	<b>-1.7</b>	<b>39,438</b>	<b>16,094</b>	<b>15,212</b>	<b>2,957</b>	<b>20,898</b>	<b>11,415</b>	<b>8,491</b>	<b>27,725</b>	<b>22,744</b>
AR.....	4,400	1,864	-1.3	2,250	1,236	670	351	1,497	976	569	1,238	1,618
LA.....	13,543	3,019	-4.1	7,736	2,426	3,136	339	3,477	1,818	1,433	6,308	3,984
OK.....	6,786	2,053	1.0	3,386	1,942	1,631	399	2,351	1,494	1,036	1,644	2,613
TX.....	45,643	2,786	-1.3	26,066	9,488	9,775	1,868	13,573	7,127	5,453	18,535	14,529
<b>Mt.</b>	<b>22,695</b>	<b>1,789</b>	<b>1.4</b>	<b>11,941</b>	<b>7,007</b>	<b>3,115</b>	<b>2,119</b>	<b>7,890</b>	<b>4,960</b>	<b>3,884</b>	<b>4,487</b>	<b>9,564</b>
MT.....	1,705	2,067	4.4	1,074	490	185	74	430	301	243	483	678
ID.....	1,704	1,697	2.7	862	522	193	16	634	356	284	399	665
WY.....	1,425	2,794	-3	810	356	180	405	376	207	171	571	530
CO.....	5,310	1,642	-3	2,822	1,742	938	351	1,742	1,263	1,126	650	2,272
NM.....	2,612	1,800	-3.8	1,626	860	362	284	723	489	456	523	1,143
AZ.....	5,474	1,715	4.7	2,596	1,723	581	471	2,399	1,276	1,028	857	2,312
UT.....	2,770	1,684	-7	1,314	777	441	304	919	653	345	682	1,091
NV.....	1,695	2,022	1.7	1,037	537	225	204	667	415	231	376	673
<b>Pac.</b>	<b>56,739</b>	<b>1,620</b>	<b>2.0</b>	<b>30,411</b>	<b>16,468</b>	<b>10,539</b>	<b>294</b>	<b>19,365</b>	<b>10,949</b>	<b>9,655</b>	<b>10,391</b>	<b>25,746</b>
WA.....	7,337	1,665	-	3,991	2,163	872	164	2,850	1,579	1,152	1,306	3,300
OR.....	4,434	1,651	.5	2,376	1,354	447	22	1,603	948	693	673	1,920
CA.....	41,286	1,566	2.4	21,136	12,226	9,214	99	14,132	7,934	7,348	7,682	18,311
AK.....	1,755	3,362	7.7	1,373	291	168	9	283	240	240	190	1,084
HI.....	1,927	1,834	2.1	1,535	444	38	-	697	244	222	330	1,131

- Represents zero. <sup>1</sup> Includes sources not shown separately. Total expenditures are the sum of purchases for each source (including electricity sales) less electric utility purchases of fuel. <sup>2</sup> Based on estimated resident population as of July 1. <sup>3</sup> Includes net imports of coal coke not shown separately by State.

Source: U.S. Energy Information Administration, *State Energy Price and Expenditure Report*, annual.

**No. 912. RESIDENTIAL ENERGY CONSUMPTION, EXPENDITURES, AND AVERAGE PRICES, 1979 TO 1985, AND BY REGION, 1985**

[For period April to March of year stated. Excludes Alaska and Hawaii in 1979 and 1980. Covers occupied units only. Excludes household usage of gasoline for transportation and the use of wood or coal. Based on Residential Energy Consumption Survey; see Appendix III. For composition of regions, see fig. 1, inside front cover. Btu=British thermal unit; see text, section 19]

TYPE OF FUEL	Unit	1979, all house- holds	1980, all house- holds	1981, all house- holds	1982, all house- holds	1983, all house- holds	1985				
							All house- holds	North- east	Mid- west	South	West
<b>CONSUMPTION</b>											
<b>Total</b> .....	<b>Quad. Btu..</b>	<b>10.56</b>	<b>9.74</b>	<b>9.32</b>	<b>9.51</b>	<b>8.62</b>	<b>9.04</b>	<b>2.29</b>	<b>2.80</b>	<b>2.50</b>	<b>1.45</b>
Avg. per household.....	Mil. Btu.....	138	126	114	114	103	105	125	129	85	85
Natural gas.....	Quad. Btu..	5.58	5.31	4.94	5.39	4.77	4.98	.93	1.99	1.15	.91
Electricity.....	Quad. Btu..	2.47	2.42	2.46	2.48	2.42	2.48	.41	.55	1.06	.47
Fuel oil, kerosene.....	Quad. Btu..	2.19	1.71	1.55	1.33	1.14	1.26	.93	.13	.16	.04
Liquid petroleum gas.....	Quad. Btu..	.33	.31	.36	.31	.29	.31	.03	.13	.12	.03
<b>EXPENDITURES</b>											
<b>Total</b> .....	<b>Bill. dol.</b>	<b>55.5</b>	<b>63.2</b>	<b>74.8</b>	<b>85.0</b>	<b>87.8</b>	<b>97.0</b>	<b>26.4</b>	<b>25.1</b>	<b>30.9</b>	<b>14.6</b>
Avg. per household.....	Dollars.....	724	815	917	1,022	1,048	1,123	1,443	1,160	1,055	852
Natural gas.....	Bill. dol.	15.3	17.8	19.3	24.5	27.1	29.8	6.9	11.1	6.7	5.1
Electricity.....	Bill. dol.	29.9	32.6	40.1	45.9	48.4	54.5	12.2	11.8	21.7	8.8
Fuel oil, kerosene.....	Bill. dol.	8.6	10.7	12.5	11.8	9.6	9.6	7.0	1.0	1.3	.3
Liquid petroleum gas.....	Bill. dol.	1.7	2.1	2.9	2.7	2.7	3.1	.4	1.2	1.2	.4
<b>AVERAGE PRICE (per million Btu)</b>											
<b>Total</b> .....	<b>Dollars</b>	<b>5.25</b>	<b>6.49</b>	<b>8.03</b>	<b>8.93</b>	<b>10.18</b>	<b>10.73</b>	<b>11.52</b>	<b>8.96</b>	<b>12.39</b>	<b>10.02</b>
Natural gas.....	Dollars	2.74	3.36	3.90	4.55	5.67	5.97	7.43	6.59	5.81	5.55
Electricity.....	Dollars	12.10	13.46	16.32	18.51	19.98	22.98	29.77	21.64	20.39	18.94
Fuel oil, kerosene.....	Dollars	3.93	6.29	8.04	8.89	8.42	7.82	7.54	7.87	8.14	7.85
Liquid petroleum gas.....	Dollars	5.09	6.71	7.92	8.74	9.42	10.00	13.11	8.67	10.38	10.56

Source: U.S. Energy Information Administration, *Residential Energy Consumption Survey: Consumption and Expenditures*, annual through 1983; beginning 1985, triennial.

**No. 913. RESIDENTIAL ENERGY CONSUMPTION AND EXPENDITURES, BY TYPE OF FUEL AND SELECTED HOUSEHOLD CHARACTERISTIC: 1985**

[For period April 1984 to March 1985. Quad.=quadrillion. See headnote, table 912]

CHARACTERISTIC	CONSUMPTION (Btu's)					EXPENDITURES				
	Total <sup>1</sup> (quad.)	Avg. per house- hold <sup>1</sup> (mil.)	Nat- ural gas (quad.)	Elec- tricity (quad.)	Fuel oil <sup>2</sup> (quad.)	Total <sup>1</sup> (bil. dol.)	Avg. per house- hold <sup>1</sup> (dol.)	Nat- ural gas (bil. dol.)	Elec- tricity (bil. dol.)	Fuel oil <sup>2</sup> (bil. dol.)
<b>Total households</b> .....	<b>9.04</b>	<b>105</b>	<b>4.98</b>	<b>2.48</b>	<b>1.26</b>	<b>97.0</b>	<b>1,123</b>	<b>29.8</b>	<b>54.5</b>	<b>9.6</b>
Single family detached.....	6.27	117	3.46	1.80	.77	67.1	1,255	20.2	38.5	6.1
Single family attached.....	.45	112	.26	.11	.07	5.1	1,256	1.7	27.7	.6
2-4 unit building.....	.97	97	.64	.17	.16	9.5	950	4.1	4.2	1.3
5 or more unit building.....	.97	71	.51	.25	.21	10.3	761	3.1	5.9	1.3
Mobile home.....	.37	73	.12	.15	.04	4.9	947	.6	3.2	.3
<b>Year house built:</b>										
1939 or earlier.....	3.16	126	1.88	.54	.64	30.5	1,212	11.6	13.0	4.9
1940-1949.....	.74	106	.42	.17	.13	7.7	1,092	2.6	3.9	1.0
1950-1959.....	1.36	107	.50	.34	.18	14.1	1,120	4.7	7.7	1.4
1960-1964.....	.75	101	.40	.23	.09	8.2	1,098	2.3	4.9	.7
1965-1969.....	.82	99	.45	.27	.07	9.3	1,126	2.7	5.8	.6
1970-1974.....	.96	90	.49	.36	.05	11.5	1,079	2.9	7.7	.4
1975-1979.....	.88	87	.38	.41	.07	11.1	1,100	2.1	8.3	.5
1980 or later.....	.37	74	.15	.16	.03	4.5	903	.8	3.3	.2
<b>Heating and cooling degree day zones:<sup>3</sup></b>										
Less than 2,000 CDD and—										
More than 7,000 HDD.....	1.03	114	.56	.22	.17	9.6	1,067	3.1	4.5	1.3
5,500-7,000 HDD.....	2.90	135	1.87	.55	.42	27.6	1,283	11.0	12.8	3.3
4,000-5,499 HDD.....	2.50	111	1.22	.83	.59	27.3	1,212	8.0	14.3	4.4
Less than 4,000 HDD.....	1.65	82	.93	.59	.05	18.1	905	5.3	11.6	.5
More than 2,000 CDD and less than 4,000 HDD.....	.97	73	.41	.50	(8)	14.4	1,081	2.4	11.3	(8)
<b>1984 family income:</b>										
Less than \$5,000.....	.71	90	.42	.16	.10	7.0	891	2.4	3.5	.7
\$5,000-\$9,999.....	1.32	85	.70	.31	.23	13.5	964	4.1	6.8	1.8
\$10,000-\$14,999.....	1.21	82	.67	.32	.17	12.6	965	3.9	7.0	1.3
\$15,000-\$19,999.....	.90	100	.49	.23	.14	9.4	1,043	2.9	5.0	1.0
\$20,000-\$24,999.....	.84	101	.45	.24	.12	9.0	1,080	2.7	5.1	.9
\$25,000-\$34,999.....	1.65	108	.90	.50	.21	18.2	1,189	5.4	10.7	1.7
\$35,000-\$49,999.....	1.28	121	.70	.40	.16	14.5	1,368	4.3	8.8	1.3
\$50,000 or more.....	1.13	139	.67	.33	.11	12.7	1,568	4.0	7.7	.8

<sup>1</sup> Base figure too small to meet statistical standards for reliability of derived figure. <sup>2</sup> Includes liquid petroleum gas, not shown separately. <sup>3</sup> Includes kerosene. CDD=Cooling degree day; HDD=Heating degree day.

Source: U.S. Energy Information Administration, *Residential Energy Consumption Survey: Consumption and Expenditures, April 1984 through March 1985*.

**NO. 914. AVERAGE RESIDENTIAL ENERGY CONSUMPTION AND EXPENDITURES OF ALL FUELS USED, BY MAIN HEATING FUEL TYPE AND HOUSEHOLD CHARACTERISTIC: 1985**

[For period April 1984 through March 1985. See headnote, table 912]

HOUSEHOLD CHARACTERISTIC	CONSUMPTION PER HOUSEHOLD (mil. Btu)					EXPENDITURES PER HOUSEHOLD (dollars)				
	All households <sup>1</sup>	Households using as main heating fuel—				All households <sup>1</sup>	Households using as main heating fuel—			
		Natural gas	Electricity		Fuel oil <sup>2</sup>		Natural gas	Electricity		Fuel oil <sup>2</sup>
		With air conditioning	Without air conditioning			With air conditioning	Without air conditioning			
<b>Total households</b> .....	<b>105</b>	<b>124</b>	<b>56</b>	<b>53</b>	<b>126</b>	<b>1,123</b>	<b>1,119</b>	<b>1,071</b>	<b>863</b>	<b>1,422</b>
<b>Region:</b>										
Northeast.....	125	136	61	52	137	1,443	1,421	1,476	1,233	1,535
Midwest.....	129	142	70	72	124	1,160	1,154	1,151	1,284	1,298
South.....	85	115	54	43	90	1,055	1,121	1,047	811	1,155
West.....	85	99	54	53	121	852	873	916	705	1,124
<b>Type:</b>										
Single-family detached.....	117	140	70	64	137	1,255	1,272	1,289	1,046	1,582
Single-family attached.....	112	118	66	(b)	142	1,256	1,195	1,221	(b)	1,573
2-4 unit building.....	97	101	44	45	124	950	903	816	614	1,377
5 or more unit building.....	71	83	35	37	105	761	705	743	604	1,040
Mobile home.....	73	102	47	54	78	947	922	950	967	1,000
<b>Year constructed:</b>										
1939 or earlier.....	126	138	64	58	138	1,212	1,177	929	809	1,502
1940 to 1949.....	106	114	61	(b)	130	1,092	1,030	1,231	(b)	1,473
1950 to 1959.....	107	119	65	40	116	1,120	1,101	1,290	622	1,386
1960 to 1964.....	101	118	54	49	104	1,098	1,147	1,038	792	1,126
1965 to 1969.....	99	121	56	49	122	1,126	1,182	1,075	797	1,463
1970 to 1974.....	90	119	50	58	102	1,079	1,128	987	1,061	1,303
1975 to 1979.....	87	119	61	53	116	1,100	1,078	1,163	916	1,418
1980 or later.....	74	92	47	57	112	903	827	918	813	1,190
<b>1984 family income:</b>										
Less than \$5,000.....	80	112	39	40	104	891	913	771	693	1,119
\$5,000-\$9,999.....	95	115	40	46	115	984	987	772	777	1,227
\$10,000-\$14,999.....	92	106	49	50	118	965	927	960	734	1,280
\$15,000-\$19,999.....	100	117	46	46	119	1,043	1,023	937	661	1,352
\$20,000-\$24,999.....	101	113	58	61	129	1,080	1,014	1,040	1,060	1,484
\$25,000-\$34,999.....	108	127	61	61	137	1,189	1,184	1,140	823	1,541
\$35,000-\$49,999.....	121	138	75	62	145	1,368	1,331	1,401	1,124	1,742
\$50,000 or more.....	139	164	67	65	152	1,568	1,606	1,329	1,136	1,832

B Base figure too small to meet statistical standards for reliability of derived figure. <sup>1</sup> Includes households using liquid petroleum gas, not shown separately. <sup>2</sup> Includes kerosene.

Source: U.S. Energy Information Administration, *Residential Energy Consumption Survey: Consumption and Expenditures, April 1984 through March 1985*.

**NO. 915. RESIDENTIAL ENERGY EXPENDITURES, BY TYPE OF END USE AND HOUSING CHARACTERISTIC: 1985**

[For period April 1984 through March 1985. See headnote, table 912]

CHARACTERISTIC	EXPENDITURES (bil. dol.)					AVERAGE EXPENDITURE PER HOUSEHOLD (dollars)				
	All end uses	End use				All end uses	End use			
		Space heating	Cooling	Water heating	Other <sup>1</sup>		Space heating	Cooling	Water heating	Other <sup>1</sup>
<b>Total households</b> .....	<b>97.0</b>	<b>36.9</b>	<b>7.5</b>	<b>14.7</b>	<b>37.8</b>	<b>1,123</b>	<b>427</b>	<b>87</b>	<b>171</b>	<b>438</b>
<b>Type:</b>										
Single-family detached.....	67.1	24.7	5.1	10.2	27.1	1,255	462	96	191	506
Single-family attached.....	5.1	2.2	.4	.7	1.9	1,256	531	95	174	456
2 to 4 unit building.....	9.5	4.2	.4	1.3	3.5	950	424	40	134	353
5 or more unit building.....	10.3	4.0	1.3	1.6	3.5	761	286	94	115	255
Mobile home.....	4.9	1.7	.3	.9	1.9	947	339	64	177	368
<b>Year constructed:</b>										
1939 or earlier.....	30.5	14.3	1.1	4.1	11.1	1,212	566	44	162	440
1940 to 1949.....	7.7	3.0	.5	1.2	2.9	1,092	431	78	167	416
1950 to 1959.....	14.1	5.1	1.1	2.2	5.8	1,120	403	85	174	458
1960 to 1964.....	8.2	2.6	.8	1.3	3.4	1,098	355	113	171	459
1965 to 1969.....	9.3	2.9	1.0	1.4	3.9	1,126	358	126	170	472
1970 to 1974.....	11.5	3.9	1.3	1.9	4.4	1,079	366	121	178	414
1975 or later.....	15.7	5.0	1.6	2.7	6.3	1,035	331	109	179	416
<b>1984 family income:</b>										
Less than \$5,000.....	7.0	3.1	.3	1.1	2.5	891	392	43	138	319
\$5,000-\$9,999.....	13.5	5.9	.7	2.0	4.8	964	426	52	141	346
\$10,000-\$14,999.....	12.8	4.8	1.0	2.0	4.8	965	366	76	155	369
\$15,000-\$19,999.....	9.4	3.6	.7	1.5	3.6	1,043	401	72	171	399
\$20,000-\$24,999.....	9.0	3.5	.6	1.4	3.5	1,080	422	74	165	419
\$25,000-\$34,999.....	18.2	6.6	1.6	2.8	7.3	1,189	428	102	180	479
\$35,000-\$49,999.....	14.5	5.0	1.3	2.2	6.0	1,368	474	118	211	565
\$50,000 or more.....	12.7	4.3	1.4	1.7	5.2	1,568	535	173	215	646

- Represents zero. NA Not applicable. <sup>1</sup> Appliance usage.

Source: U.S. Energy Information Administration, *Residential Energy Consumption Survey: Consumption and Expenditures, April 1984 through March 1985*.

**No. 916. COMMERCIAL BUILDINGS—ENERGY CONSUMPTION AND EXPENDITURES, BY MAJOR FUEL TYPE USED: 1983**

[Covers buildings using one or more major fuel. Excludes industrial buildings. Excludes Alaska and Hawaii. Based on a sample survey of building representatives conducted between March and August 1983; therefore subject to sampling variability. For characteristics of commercial buildings, see also tables 1237-1239. Quad.=quadrillion]

ITEM	Unit	All major fuels	Electricity	Natural gas	Fuel oil	Propane	Purchased steam
Number of buildings using the fuel.....	1,000.....	3,774	3,764	2,239	538	250	59
Square footage of floorspace.....	Million.....	51,280	51,146	36,086	10,205	2,721	4,538
Square footage per building.....	1,000.....	13.6	13.8	16.1	19.0	10.9	77.5
Energy consumed, total.....	Quad. Btu.....	5,150	2,237	2,227	354	.038	.294
Energy consumed per building.....	Mill. Btu.....	1,364	594	994	659	150	5,028
Energy consumed per square foot of floorspace.....	1,000 Btu.....	100	44	62	35	14	65
Energy consumed per employee.....	Mill. Btu.....	66	29	42	22	9	36
Expenditures, total.....	Mill. dol.....	59,242	41,554	12,284	2,369	352	2,683
Expenditures per building.....	\$1,000.....	15.7	11.0	5.5	4.4	1.4	45.8
Expenditures per square foot of floorspace.....	Dollars.....	11.6	.81	.34	.23	.13	.59
Expenditures per million Btu of energy consumed.....	Dollars.....	11.50	18.58	5.52	6.69	9.38	9.12

Source: U.S. Energy Information Administration, *Nonresidential Buildings Energy Consumption Survey: Consumption and Expenditures, 1983*.

**No. 917. COMMERCIAL BUILDINGS—ENERGY CONSUMPTION AND EXPENDITURES: 1983**

[Covers buildings using one or more major fuel. Excludes industrial buildings. Excludes Alaska and Hawaii. Based on a sample survey of building representatives conducted between March and August 1983; therefore subject to sampling variability. For characteristics of commercial buildings, see tables 1237-1239]

BUILDING CHARACTERISTIC	ALL BUILDINGS USING ANY MAJOR FUEL		CONSUMPTION (quadrillion Btu)			EXPENDITURES (mil. dol.)		
	Number (1,000)	Square feet (mil.)	Major fuel, total <sup>1</sup>	Electricity	Natural gas	Major fuel, total <sup>1</sup>	Electricity	Natural gas
<b>All buildings.....</b>	<b>3,774</b>	<b>51,280</b>	<b>5,150</b>	<b>2,237</b>	<b>2,227</b>	<b>59,242</b>	<b>41,554</b>	<b>12,284</b>
<b>Year constructed:</b>								
1900 or before.....	279	2,884	.194	.051	.097	2,149	1,209	583
1901 to 1920.....	369	5,228	.354	.112	.170	3,918	2,409	954
1921 to 1945.....	685	8,269	.848	.295	.384	9,355	5,874	2,183
1946 to 1960.....	883	9,434	.938	.362	.424	10,406	6,909	2,309
1961 to 1970.....	700	9,873	1,099	.496	.464	12,713	9,041	2,491
1971 to 1973.....	207	3,411	.366	.189	.136	4,742	3,736	761
1974 to 1979.....	517	6,550	.861	.423	.379	10,004	7,472	2,114
1980 to 1983.....	135	5,631	.491	.298	.172	5,954	4,904	889
<b>Principal activity within building:</b>								
Assembly.....	452	5,475	.377	.121	.197	4,147	2,553	1,094
Educational.....	177	6,044	.484	.155	.246	4,843	2,969	1,317
Food sales/services.....	380	2,050	.437	.222	.193	5,510	4,176	1,139
Health care.....	61	2,277	.465	.147	.219	4,385	2,487	1,115
Lodging.....	108	2,241	.365	.151	.171	3,932	2,714	875
Mercantile/services.....	1,055	10,347	.838	.434	.397	10,338	7,836	1,969
Office.....	575	8,444	1,039	.521	.371	13,097	9,866	2,031
Residential.....	235	2,442	.179	.042	.095	1,856	970	595
Warehouse.....	387	6,700	.506	.208	.248	5,530	3,786	1,358
Other.....	167	2,738	.276	.151	.078	3,377	2,564	405
Vacant.....	180	2,522	.184	.086	.073	2,226	1,634	384
<b>Region:</b>								
Northeast.....	653	11,413	.954	.345	.314	13,580	9,031	2,143
Midwest.....	1,157	15,718	1,922	.697	1,044	18,991	12,110	5,542
South.....	1,415	16,683	1,563	.849	.550	19,218	15,121	2,839
West.....	549	7,467	.710	.346	.319	7,454	5,292	1,767
<b>Square footage:</b>								
5,000 or less.....	2,112	4,680	.871	.332	.474	10,016	6,821	2,669
5,001 to 10,000.....	705	5,083	.562	.217	.285	6,323	4,168	1,692
10,001 to 25,000.....	560	8,795	.727	.321	.301	8,872	6,299	1,731
25,001 to 50,000.....	216	7,470	.695	.305	.317	8,142	5,840	1,746
50,001 to 100,000.....	104	6,963	.616	.291	.239	6,956	5,035	1,300
100,001 to 200,000.....	49	6,613	.589	.251	.237	6,469	4,444	1,233
Over 200,000.....	29	11,675	1,090	.520	.372	12,464	8,946	1,912

<sup>1</sup> Includes fuel oil, propane, and purchased steam, not shown separately.

Source: U.S. Energy Information Administration, *Nonresidential Buildings Energy Consumption Survey: Consumption and Expenditures, 1983*.

**NO. 918. MANUFACTURING ENERGY CONSUMPTION FOR HEAT AND POWER, BY TYPE OF FUEL AND INDUSTRY GROUP: 1985**

[In trillions of Btu. Based on the Manufacturing Energy Consumption Survey; therefore subject to sampling variability]

SIC <sup>1</sup> CODE	INDUSTRY	Total consumption	Net electricity <sup>2</sup>	Fuel oil <sup>3</sup>	Natural gas	Coal and coke	Other
(x)	<b>Total</b> .....	<b>13,747.9</b>	<b>2,286.5</b>	<b>705.2</b>	<b>4,617.7</b>	<b>1,980.3</b>	<b>4,158.2</b>
20	Food and kindred.....	954.3	165.8	65.1	458.9	131.7	132.9
21	Tobacco products.....	19.8	4.6	2.3	3.4	9.4	.1
22	Textile mill products.....	248.1	88.1	21.3	91.2	38.0	9.7
23	Apparel and other textile products.....	32.4	15.3	2.9	12.5	1.4	.4
24	Lumber and wood products.....	348.9	55.1	23.4	31.4	(d)	(d)
25	Furniture and fixtures.....	48.6	15.2	2.7	19.6	2.1	9.1
26	Paper and allied products.....	2,355.6	183.6	166.9	379.7	322.5	1,302.9
27	Printing and publishing.....	98.6	52.5	2.4	40.6	(d)	(d)
28	Chemicals and allied products.....	2,460.5	445.2	100.3	1,180.9	336.4	397.7
29	Petroleum and coal products.....	2,428.3	120.3	134.9	690.7	7.3	1,472.9
30	Rubber and misc. plastic products.....	220.8	90.7	15.2	102.0	8.1	4.8
31	Leather and leather products.....	13.4	4.3	3.3	4.5	.9	.4
32	Stone, clay and glass products.....	927.8	116.3	33.1	397.0	349.0	32.3
33	Primary metal industries.....	2,362.2	458.7	53.2	669.2	660.6	520.5
34	Fabricated metal products.....	296.2	81.2	16.7	171.6	6.7	8.0
35	Machinery, except electrical.....	277.6	114.2	14.6	113.7	30.6	4.5
36	Electric and electronic equipment.....	223.7	110.1	10.4	91.4	8.6	3.3
37	Transportation equipment.....	322.2	115.0	25.7	120.7	43.8	17.0
38	Instruments and related products.....	79.7	29.2	8.1	23.6	(d)	(d)
39	Miscellaneous manufacturing.....	31.3	11.4	2.6	15.4	1.3	.7

D. Figure withheld to avoid disclosure. X Not applicable. <sup>1</sup> Standard Industrial Classification; see text, section 13. <sup>2</sup> Net electricity is obtained by aggregating purchases, transfers in, and generation from noncombustible renewable resources minus quantities sold and transferred out. <sup>3</sup> Includes distillate and residual.

 Source: U.S. Energy Information Administration, *Monthly Energy Review*, January 1987.

**NO. 919. FOSSIL FUEL PRICES IN CURRENT AND CONSTANT (1982) DOLLARS: 1960 TO 1986**

[In cents per million British thermal units (Btu), except as indicated. All fuel prices taken as close to the point of production as possible. See text, section 19, for explanation of Btu conversions from mineral fuels. Minus sign (-) indicates decrease]

YEAR OR PERIOD	CURRENT DOLLARS					CONSTANT (1982) DOLLARS					GNP <sup>3</sup> price deflators (1982=100)
	Composite <sup>1</sup>	Crude oil	Natural gas	Bituminous coal <sup>2</sup>	Anthracite coal	Composite <sup>1</sup>	Crude oil	Natural gas	Bituminous coal <sup>2</sup>	Anthracite coal	
1960.....	28.3	49.7	12.6	18.8	33.8	91.6	160.8	40.8	60.8	109.4	30.9
1965.....	27.7	49.3	14.5	17.9	36.3	82.0	145.9	42.9	53.0	107.4	33.8
1970.....	31.7	54.8	15.4	26.2	48.8	75.5	130.5	36.7	62.4	116.2	42.0
1973.....	39.8	67.1	20.1	36.5	61.7	80.4	135.6	40.6	73.7	124.6	49.5
1974.....	67.6	118.4	27.3	88.2	102.2	125.2	219.3	50.6	126.3	189.3	54.0
1975.....	82.5	132.2	41.1	83.9	149.5	139.1	222.9	69.3	141.5	252.1	59.3
1976.....	90.2	141.2	53.1	85.0	153.9	142.9	223.8	84.2	134.7	243.9	63.1
1977.....	100.8	147.8	72.3	87.7	153.8	149.8	219.6	107.4	130.3	228.5	67.3
1978.....	111.6	155.2	83.6	97.9	152.7	154.6	215.0	115.8	135.6	211.5	72.2
1979.....	141.7	217.9	108.1	105.3	177.2	180.3	277.2	137.5	134.0	225.4	78.6
1980.....	204.2	372.2	144.8	109.4	185.9	236.3	494.3	169.0	127.7	216.9	85.7
1981.....	274.5	547.8	179.5	117.9	190.1	292.0	582.8	191.0	125.4	202.2	94.0
1982.....	275.8	491.7	222.2	122.1	214.0	275.8	491.7	222.2	122.1	214.0	100.0
1983.....	270.1	451.6	232.3	117.2	230.0	280.0	494.6	223.6	112.8	221.4	103.9
1984.....	264.6	446.2	239.9	115.9	208.7	244.8	412.8	221.9	107.2	193.1	107.9
1985.....	251.2	415.3	225.5	114.8	204.2	225.3	372.5	202.2	103.0	183.1	111.5
1986, prel.....	165.1	218.3	168.0	111.7	200.6	144.3	190.8	146.9	97.6	175.3	114.4
<b>Percent change:</b>											
1960-70.....	12.0	10.3	22.2	39.4	44.4	-17.6	-18.8	-10.0	2.6	6.2	35.9
1970-73.....	25.6	22.4	30.5	39.3	28.4	6.5	3.9	10.6	18.1	7.2	17.9
1973-75.....	107.3	97.0	104.5	128.9	142.3	73.0	64.4	70.7	82.0	102.3	19.8
1975-79.....	71.8	64.8	163.0	25.5	18.5	29.6	24.4	98.4	-5.3	-10.6	32.5
1979-80.....	44.1	70.8	34.0	3.9	4.9	32.2	56.7	22.9	-4.7	-3.8	9.0
1980-81.....	34.4	47.2	24.0	7.8	2.3	22.5	34.2	13.0	-1.8	-6.8	9.7
1981-82.....	.5	-10.2	23.8	3.6	12.6	-5.5	-15.6	16.3	-2.6	5.8	6.4
1982-83.....	-2.1	-8.2	4.5	-4.0	7.5	-5.7	-11.6	.6	-7.6	3.5	3.8
1983-84.....	-2.0	-1.2	3.3	-1.1	-9.3	-5.8	-5.0	-.8	-5.0	-12.8	3.9
1984-85.....	-5.1	-6.9	-6.0	-1.0	-2.2	-8.0	-9.8	-8.9	-3.9	-5.2	3.3
1985-86.....	-34.3	-47.4	-25.5	-2.7	-1.8	-36.0	-48.8	-27.4	-5.2	-4.3	2.6

<sup>1</sup> Weighted by relative importance of individual fuels in total fuels production. <sup>2</sup> Includes lignite. <sup>3</sup> GNP=Gross national product; see text, section 15.

 Source: U.S. Energy Information Administration, *Annual Energy Review*.

## NO. 920. WORLD ENERGY CONSUMPTION, BY REGION AND ENERGY SOURCE: 1960 TO 1985

[In tons of coal equivalent. Metric ton=1,102.3 short tons. Kilogram=2.205 pounds. See text, section 31 for general comments about the data]

REGION AND ENERGY SOURCE	CONSUMPTION (mil. metric tons)					PER CAPITA (kilograms)				PERCENT DISTRIBUTION			
	1960	1970	1980	1984	1985	1960	1970	1980	1985	1960	1970	1980	1985
<b>World total</b> .....	<b>3,924</b>	<b>6,440</b>	<b>8,544</b>	<b>8,889</b>	<b>9,130</b>	<b>1,302</b>	<b>1,748</b>	<b>1,919</b>	<b>1,888</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
North America <sup>1</sup> .....	1,599	2,502	2,796	2,890	2,712	5,951	7,825	7,480	6,768	40.7	38.9	32.7	29.7
United States.....	1,454	2,217	2,364	2,282	2,276	8,047	10,811	10,388	9,583	37.1	34.4	27.7	24.9
South America.....	79	143	251	255	259	535	749	1,048	967	2.0	2.2	2.9	2.8
Europe.....	1,039	1,720	2,145	2,094	2,146	2,443	3,745	4,433	4,364	26.5	26.7	25.1	23.5
Asia.....	514	903	1,579	1,858	1,946	276	386	607	687	13.1	14.0	18.5	21.3
Japan.....	96	333	435	450	449	1,025	3,246	3,728	3,715	2.4	5.2	5.1	4.9
Soviet Union.....	595	999	1,473	1,645	1,708	2,777	4,132	5,549	6,131	15.2	15.5	17.2	18.7
Oceania.....	41	71	105	112	119	2,597	3,675	4,672	4,816	1.0	1.1	1.2	1.3
Energy source:													
Solid fuels.....	1,940	2,159	2,632	2,883	3,040	644	586	591	629	49.4	33.5	30.8	33.3
Liquid fuels.....	1,306	2,835	3,778	3,623	3,606	433	770	848	746	33.3	44.0	44.2	39.5
Natural gas.....	593	1,292	1,834	1,990	2,057	197	351	412	425	15.1	20.1	21.5	22.5
Electricity.....	84	154	301	393	427	28	42	68	88	2.1	2.4	3.5	4.7

<sup>1</sup> Includes Central America.

Source: Statistical Office of the United Nations, New York, NY, *Energy Statistics Yearbook*, annual. (Copyright.)

## NO. 921. WORLD PRIMARY ENERGY PRODUCTION, BY REGION AND TYPE: 1973 TO 1985

[In quadrillion Btu. Btu=British thermal units. For Btu conversion factors, see source]

REGION AND TYPE	1973	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985, prel.
<b>World total</b> .....	<b>244.8</b>	<b>245.0</b>	<b>259.2</b>	<b>267.8</b>	<b>273.0</b>	<b>287.3</b>	<b>285.4</b>	<b>280.6</b>	<b>278.5</b>	<b>280.7</b>	<b>292.9</b>	<b>301.7</b>
North America.....	73.3	71.1	71.3	72.4	74.0	78.2	80.6	81.0	81.4	79.2	84.6	84.1
United States.....	62.0	59.8	59.8	60.1	61.0	63.7	64.7	64.3	63.8	61.1	65.6	64.6
Central and South America...	12.9	10.6	10.7	10.9	11.2	12.2	12.1	12.0	11.9	12.0	12.7	13.1
Western Europe.....	19.6	21.4	22.4	24.0	24.8	27.4	28.7	29.9	30.8	32.1	32.6	34.8
Eastern Europe and Soviet Union.....	51.4	55.9	58.9	61.6	64.0	66.1	67.7	68.2	70.4	72.3	74.0	78.9
Middle East.....	46.6	43.5	49.2	49.8	47.2	48.5	41.8	36.6	29.5	27.2	27.1	24.9
Africa.....	14.8	13.3	15.4	16.4	16.5	18.1	17.2	14.9	15.0	15.6	16.6	17.5
Far East and Oceania.....	26.2	29.3	31.4	32.8	35.3	36.7	37.3	38.1	39.4	42.1	45.2	48.5
Crude oil.....	117.8	111.6	121.9	126.0	126.3	131.6	125.5	117.5	111.7	111.3	114.1	113.3
Natural gas.....	43.2	43.9	45.7	46.9	48.2	51.6	52.9	54.3	53.7	53.9	57.7	60.3
Natural gas liquids.....	4.2	4.4	4.5	4.7	4.8	5.2	5.5	5.9	5.9	6.0	6.5	6.7
Coal.....	63.8	66.3	68.1	69.3	70.4	74.6	75.8	76.0	78.9	79.1	82.1	85.8
Hydroelectric power.....	13.5	15.0	15.1	15.5	16.7	17.6	18.2	18.4	18.9	19.8	20.2	20.8
Nuclear.....	2.2	3.9	4.5	5.4	6.5	6.7	7.5	8.6	9.4	10.8	12.3	14.9

Source: U.S. Energy Information Administration, *International Energy Annual*.

## NO. 922. DAILY INTERNATIONAL FLOW OF CRUDE OIL, BY AREA: 1984

[In thousands of barrels per day]

EXPORTING AREA	Total	IMPORTING AREA								
		North America		Central and South America	Western Europe		Eastern Europe	Middle East and Africa	Japan	Other Far East and Oceania
		U.S.	Canada		Atlanto Ocean, North Sea	Mediterranean Sea				
<b>World total</b> .....	<b>23,560</b>	<b>3,426</b>	<b>231</b>	<b>2,088</b>	<b>4,926</b>	<b>3,403</b>	<b>2,048</b>	<b>1,069</b>	<b>3,591</b>	<b>2,778</b>
North America.....	2,048	1,000	61	369	341	34	-	50	152	41
United States.....	181	(x)	16	135	-	-	-	-	-	30
Central and South America.....	1,299	392	70	553	173	32	-	3	16	60
Western Europe.....	2,206	493	36	31	1,577	49	-	20	1	95
Eastern Europe and Soviet Union.....	2,556	-	-	140	806	328	1,969	17	2,514	1,782
Middle East.....	9,089	459	13	457	942	1,804	476	672	16	104
Africa.....	4,089	671	51	315	1,262	1,142	201	307	-	716
Far East and Oceania.....	2,263	411	-	223	25	14	2	-	892	-

- Represents zero. X Not applicable. <sup>1</sup> Includes shipments to Puerto Rico and Virgin Islands.

Source: U.S. Energy Information Administration, *International Energy Annual*.

## No. 923. U.S. FOREIGN TRADE IN SELECTED MINERAL FUELS: 1970 TO 1986

[Btu=British thermal units. For Btu conversion factors, see text, section 19. Minus sign (-) indicates an excess of imports over exports. See also *Historical Statistics, Colonial Times to 1970*, series M 100, 101, 127, 128, 140, 141, 178, and 181]

YEAR	NATURAL GAS						CRUDE OIL					
	Imports		Exports		Net trade		Imports <sup>1</sup>		Exports		Net trade	
	Bil. cu. ft.	Tril. Btu	Bil. cu. ft.	Tril. Btu	Bil. cu. ft.	Tril. Btu	Mill. bbl.	Tril. Btu	Mill. bbl.	Tril. Btu	Mill. bbl.	Tril. Btu
1970.....	820.8	846	69.8	72	-751.0	-774	483	2,814	5	29	-478	-2,785
1972.....	1,019.5	1,047	78.0	80	-941.5	-967	811	4,712	(2)	1	-811	-4,710
1973.....	1,032.9	1,060	77.2	79	-955.7	-981	1,184	6,887	1	4	-1,183	-6,883
1974.....	959.3	985	76.8	78	-882.5	-907	1,289	7,395	1	6	-1,268	-7,389
1975.....	953.0	978	72.7	74	-880.3	-904	1,498	8,721	2	12	-1,496	-8,709
1976.....	983.8	988	64.7	66	-899.1	-922	1,935	11,239	3	17	-1,932	-11,221
1977.....	1,011.0	1,037	55.6	56	-955.4	-981	2,414	14,027	18	106	-2,396	-13,921
1978.....	965.5	995	52.5	53	-913.0	-941	2,320	13,460	58	335	-2,262	-13,125
1979.....	1,253.4	1,300	55.7	56	-1,197.7	-1,243	2,380	13,825	86	497	-2,294	-13,328
1980.....	984.8	1,006	48.7	49	-936.0	-967	1,926	11,195	105	609	-1,821	-10,586
1981.....	903.9	917	59.4	60	-844.6	-867	1,605	9,336	83	482	-1,522	-8,854
1982.....	933.3	950	51.7	52	-881.6	-898	1,273	7,418	86	500	-1,187	-6,918
1983.....	919.8	942	54.6	55	-865.1	-887	1,215	7,079	60	348	-1,155	-6,731
1984.....	843.1	847	54.8	55	-788.3	-792	1,254	7,302	66	384	-1,188	-6,918
1985.....	949.4	951	57.1	58	-892.3	-893	1,168	6,814	75	422	-1,093	-6,382
1986.....	754.0	756	55.0	56	-699.0	-700	1,525	8,892	56	326	-1,469	-8,566

	COAL						PETROLEUM PRODUCTS					
	Imports		Exports		Net trade		Imports		Exports		Net trade	
	1,000 sh. tons	Tril. Btu	1,000 sh. tons	Tril. Btu	1,000 sh. tons	Tril. Btu	Mill. bbl.	Tril. Btu	Mill. bbl.	Tril. Btu	Mill. bbl.	Tril. Btu
1970.....	36	1	71,733	1,936	71,697	1,935	765	4,656	89	520	-676	-4,136
1972.....	47	1	56,740	1,531	56,683	1,530	924	5,587	81	487	-843	-5,120
1973.....	127	3	53,587	1,425	53,460	1,422	1,089	6,578	84	482	-1,015	-6,057
1974.....	2,080	52	80,661	1,820	58,581	1,568	962	5,731	79	458	-883	-5,273
1975.....	840	24	66,309	1,761	65,389	1,738	712	4,227	74	427	-638	-3,800
1976.....	1,203	30	80,021	1,597	58,818	1,567	741	4,434	79	452	-662	-3,982
1977.....	1,647	41	54,312	1,442	52,665	1,401	800	4,728	70	408	-730	-4,321
1978.....	2,959	74	40,714	1,078	37,761	1,004	733	4,364	74	432	-659	-3,932
1979.....	2,059	51	66,042	1,753	63,983	1,702	707	4,108	86	505	-621	-3,603
1980.....	1,194	30	91,742	2,421	90,548	2,381	603	3,463	94	551	-509	-2,912
1981.....	1,043	26	112,541	2,944	111,498	2,918	584	3,303	134	781	-450	-2,522
1982.....	742	19	106,277	2,787	105,535	2,768	593	3,359	211	1,224	-382	-2,135
1983.....	1,271	32	77,772	2,045	76,501	2,013	629	3,568	210	1,217	-419	-2,351
1984.....	1,286	32	81,482	2,151	80,196	2,119	736	4,131	198	1,161	-538	-2,970
1985.....	1,952	49	92,680	2,438	90,728	2,389	681	3,796	211	1,225	-470	-2,571
1986.....	2,212	55	85,518	2,248	83,306	2,193	712	4,006	226	1,320	-486	-2,686

Z Less than 500,000. <sup>1</sup> Beginning 1977, includes strategic petroleum reserve imports.

Source: U.S. Energy Information Administration, *Annual Energy Review*.

## No. 924. CRUDE OIL IMPORTS INTO U.S., BY COUNTRY OF ORIGIN: 1970 TO 1986

COUNTRY OF ORIGIN	IMPORTS (mil. 42-gal. bbls.)																PERCENT DISTRIBUTION		
	1970	1973	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1970	1980	1986			
	<b>Total</b> .....	<b>483</b>	<b>1,184</b>	<b>1,498</b>	<b>2,414</b>	<b>2,320</b>	<b>2,380</b>	<b>1,926</b>	<b>1,605</b>	<b>1,273</b>	<b>1,215</b>	<b>1,254</b>	<b>1,168</b>	<b>1,525</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>		
Canada.....	245	365	219	102	90	99	73	80	78	100	125	171	208	50.7	3.8	13.6			
Mexico.....	-	(2)	29	65	115	160	186	171	235	280	241	261	227	-	9.6	14.9			
Norway.....	-	-	5	18	39	28	53	42	37	24	41	11	19	-	2.7	1.2			
Trinidad-Tobago.....	(2)	22	42	49	52	45	42	37	34	30	32	36	34	(2)	2.2	2.2			
United Kingdom.....	-	-	-	36	62	72	63	135	161	133	136	102	116	3	3.3	7.6			
<b>OPEC</b> .....	<b>222</b>	<b>767</b>	<b>1,171</b>	<b>2,058</b>	<b>1,892</b>	<b>1,866</b>	<b>1,414</b>	<b>1,067</b>	<b>633</b>	<b>540</b>	<b>553</b>	<b>476</b>	<b>771</b>	<b>46.0</b>	<b>73.4</b>	<b>50.6</b>			
Algeria.....	2	44	96	198	231	222	167	95	33	64	71	31	28	4	8.7	1.8			
Ecuador.....	-	17	21	20	14	11	6	14	12	21	17	20	23	-	3	1.5			
Gabon.....	-	-	10	13	14	15	9	13	14	21	21	19	9	-	5	6			
Indonesia.....	26	73	138	185	195	199	115	118	82	115	111	107	108	5.4	6.0	7.1			
Iran.....	12	79	102	193	202	108	3	-	13	18	4	10	7	2.5	2	.5			
Iraq.....	-	2	(2)	27	23	32	10	-	1	4	5	17	29	-	.5	1.9			
Kuwait.....	12	15	1	15	2	2	10	-	1	3	9	1	10	2.5	.5	.7			
Libya.....	17	49	81	257	293	234	200	116	8	-	-	-	-	3.5	10.4	-			
Nigeria.....	17	164	272	412	332	390	308	223	186	110	76	102	160	3.5	16.0	10.5			
Qatar.....	-	3	7	24	23	11	8	3	3	-	-	-	4	-	4	.3			
Saudi Arabia.....	15	168	256	501	417	492	458	406	194	117	113	48	226	3.1	23.8	14.8			
United Arab Emirates.....	23	26	43	122	141	103	63	29	30	7	33	13	14	4.8	3.3	.9			
Venezuela.....	98	128	144	91	66	107	57	54	56	60	93	112	152	20.3	3.0	10.0			
Other.....	16	30	35	86	71	110	95	93	95	108	124	108	150	3.3	4.9	9.8			

- Represents zero. Z Less than 500,000 or less than .05 percent.

Source: 1970-1975, U.S. Bureau of Mines, *Minerals Yearbook and Mineral Industry Surveys*; 1977-1980, U.S. Energy Information Administration, *Petroleum Statement*, annual; thereafter, U.S. Energy Information Administration, *Petroleum Supply Annual*.

No. 925. CRUDE OIL AND REFINED PRODUCTS SUMMARY: 1973 TO 1987

[Barrels of 42 gallons. Data are averages]

YEAR AND MONTH	CRUDE OIL (1,000 bbl. per day)					REFINED OIL PRODUCTS (1,000 bbl. per day)				Total oil imports <sup>2</sup> (1,000 bbl. per day)	CRUDE OIL STOCKS <sup>3</sup> (mil. bbl.)	
	Input to refineries	Domestic production	Imports		Exports	Domestic demand	Imports	Exports	Total		Strategic reserve	
			Total <sup>1</sup>	Strategic reserve								
1973	12,431	9,208	3,244	(x)	3	17,308	3,012	229	6,256	242	(x)	
1974	12,133	8,774	3,477	(x)	2	16,653	2,635	218	6,112	265	(x)	
1975	12,442	8,375	4,105	(x)	6	16,322	1,951	204	6,056	271	(x)	
1976	13,416	8,132	5,287	(x)	8	17,461	2,026	215	7,313	285	(x)	
1977	14,602	8,245	6,615	21	50	18,431	2,193	193	8,807	348	7	
1978	14,799	8,707	6,356	162	158	18,847	2,008	204	8,363	376	67	
1979	14,648	8,552	6,519	67	235	18,513	1,937	236	8,456	430	91	
1980	13,481	8,597	5,263	44	287	17,056	1,646	258	6,909	466	108	
1981	12,470	8,572	4,396	258	228	16,058	1,599	387	5,996	594	230	
1982	11,774	8,649	3,488	165	236	15,296	1,625	579	5,113	644	294	
1983	11,885	8,688	3,329	234	164	15,231	1,722	575	5,051	723	379	
1984	12,044	8,879	3,426	197	181	15,726	2,011	541	5,437	796	451	
1985	12,002	8,971	3,201	118	204	15,726	1,866	577	5,067	814	493	
1986	12,716	8,680	4,178	48	154	16,281	2,045	631	6,224	843	512	
1st qtr.	11,981	9,108	3,143	45	178	16,183	1,845	645	4,987	838	497	
2d qtr.	13,017	8,775	4,190	54	144	15,996	2,039	594	6,229	828	502	
3d qtr.	13,100	8,454	4,872	50	153	16,278	2,185	603	7,067	844	506	
4th qtr.	12,748	8,394	4,482	43	142	16,651	2,091	682	6,573	843	512	
1987 <sup>4</sup>	12,543	8,384	4,202	73	(NA)	16,287	1,821	(NA)	6,022	853	527	
1st qtr.	12,317	8,381	4,008	77	187	16,955	1,876	662	5,984	853	520	
2d qtr.	12,767	8,345	4,392	67	(NA)	16,233	1,769	(NA)	6,161	853	527	

NA Not available. X Not applicable. <sup>1</sup> Includes Strategic Petroleum Reserve. <sup>2</sup> Crude oil (including Strategic Petroleum Reserve Imports) plus refined products. <sup>3</sup> End of year or quarter. <sup>4</sup> Preliminary.

Source: U.S. Energy Information Administration, *Monthly Energy Review*, April 1987.

No. 926. ENERGY PRODUCING COMPANIES—SELECTED FINANCIAL AND INVESTMENT INDICATORS, 1978 TO 1985

[Based on data from major publicly-owned domestic crude oil producing companies which either had at least one percent of domestic production or reserves of oil, natural gas, coal, or uranium, or at least one percent of refining capacity or petroleum product sales. There were 26 companies during 1978 through 1982; 25 in 1983; and 22 during 1984 and 1985]

ITEM	1978	1979	1980	1981	1982	1983	1984	1985
INCOME STATEMENT (bil. dol.)								
Operating revenues	294.8	392.6	518.6	575.7	549.7	511.0	517.4	492.5
Operating expenses	265.0	345.8	455.9	520.8	504.2	462.8	467.3	444.2
Operating income	29.8	46.8	62.7	54.8	45.5	48.2	50.1	48.3
Pretax income	30.2	48.6	66.9	60.0	45.2	47.4	47.8	43.6
Net income	13.9	23.5	31.0	30.0	21.8	21.9	21.3	17.4
Funds from operations <sup>1</sup>	31.2	45.4	59.0	61.6	80.4	60.7	63.6	63.5
BALANCE SHEET (bil. dol.)								
Net property, plant, and equipment	138.1	159.3	188.9	224.9	265.5	278.4	292.4	297.7
Net investment in place <sup>2</sup>	148.1	169.9	202.6	240.8	282.5	296.3	309.1	315.4
Total assets	237.1	282.8	333.0	372.5	411.9	421.8	442.9	438.4
RATIOS (percent)								
Net income to operating revenues	4.7	6.0	6.0	5.2	4.0	4.3	4.1	3.5
Net income to total assets	5.9	8.3	9.3	8.0	5.3	5.2	5.0	4.0
Net income in stockholders' equity	12.8	18.8	21.1	18.1	11.9	11.4	12.1	10.5
Long-term debt to stockholders' equity <sup>3</sup>	35.8	33.7	31.5	32.2	37.1	34.6	49.5	54.3
Long-term debt to total assets <sup>3</sup>	16.3	14.9	13.9	14.3	18.6	15.9	20.6	20.5

<sup>1</sup> The sum of net income, depreciation, depletion and amortization, deferred taxes, dry hole expenses, etc. <sup>2</sup> Composed of net property, plant and equipment plus investment and advances to unconsolidated subsidiaries. <sup>3</sup> Long-term debt includes amounts applicable to capitalized leases.

Source: U.S. Energy Information Administration, *Performance Profiles of Major Energy Producers*, annual, and unpublished data.

### No. 927. PETROLEUM AND COAL PRODUCTS—SALES, NET PROFIT, AND PROFIT PER DOLLAR OF SALES: 1975 TO 1986

[Represents SIC group 29. Profit rates are averages of quarterly figures at annual rates]

ITEM	Unit	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986 <sup>1</sup>
Sales	Bil. dol.	121.8	141.3	162.3	180.3	242.7	333.2	376.1	357.1	312.7	338.4	320.9	226.5
Net profit:													
Before income taxes	Bil. dol.	13.3	16.9	17.9	19.2	32.2	39.1	35.3	27.8	27.1	24.5	17.7	9.8
After income taxes	Bil. dol.	9.3	11.7	12.2	12.8	21.9	25.5	23.7	19.7	19.3	17.2	12.7	8.8
Depreciation <sup>2</sup>	Bil. dol.	5.6	5.9	6.6	7.7	9.5	11.6	13.7	16.3	17.5	20.7	22.1	21.9
Profits per dollar of sales:													
Before income taxes	Cents	10.9	12.0	11.0	10.6	13.3	11.7	9.4	7.8	8.7	7.2	5.5	4.1
After income taxes	Cents	7.6	8.3	7.5	7.1	9.0	7.7	6.3	5.5	6.2	5.1	4.0	3.8
Profits on stockholders' equity:													
Before income taxes	Percent	17.5	20.3	19.9	19.8	30.0	30.7	25.6	18.7	17.8	14.3	11.7	6.8
After income taxes	Percent	12.9	14.1	13.6	13.3	20.4	20.0	17.2	13.2	12.7	10.0	8.5	6.1

<sup>1</sup> Excludes estimates for corporations with less than \$250,000 in assets at time of sample selection. Prior periods include estimates for corporations in this size category. <sup>2</sup> Includes depletion and accelerated amortization of emergency facilities.

Source: Through 1981, U.S. Federal Trade Commission and, beginning 1982, U.S. Bureau of the Census, *Quarterly Financial Report for Manufacturing, Mining and Trade Corporations*.

### No. 928. MAJOR PETROLEUM COMPANIES—FINANCIAL DATA SUMMARY: 1973 TO 1986

[Data represent a composite of approximately 41 major worldwide petroleum companies aggregated on a consolidated, total company basis]

ITEM	1973	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
FINANCIAL DATA (bil. dol.)												
Net income	11.8	11.6	15.1	16.0	32.8	32.9	29.2	21.1	20.6	22.7	19.4	11.0
Depreciation, depletion, etc.	10.5	11.3	18.3	19.8	24.9	32.5	34.9	37.2	37.4	45.3	53.0	42.1
Cash flow <sup>1</sup>	22.3	22.8	33.4	35.8	57.7	65.4	64.1	58.3	58.1	68.0	72.4	53.2
Dividends paid	4.0	4.7	6.3	6.8	8.0	9.3	10.6	10.6	10.5	11.6	12.0	12.2
Net internal funds available for investment or debt repayment <sup>2</sup>	18.3	18.1	27.1	29.0	49.7	56.1	53.5	47.7	47.6	56.4	60.4	41.0
Capital and exploratory expenditures	16.3	26.9	31.8	37.1	51.1	62.1	79.2	67.8	50.7	57.5	58.3	41.3
Long-term capitalization	102.9	121.1	150.1	168.0	196.9	211.4	248.1	243.8	240.0	285.7	272.1	275.8
Long-term debt	22.5	28.9	38.4	45.1	48.1	49.8	59.2	62.6	61.0	95.8	93.5	95.2
Preferred stock	.4	.4	.9	.9	.9	2.0	2.0	3.5	3.5	5.2	3.3	2.9
Common stock and retained earnings <sup>3</sup>	80.0	91.9	110.8	122.0	147.9	159.6	186.9	177.7	175.5	184.7	175.3	177.7
Excess of expenditures over cash income <sup>4</sup>	-2.0	8.9	4.7	8.1	1.4	6.0	25.7	20.1	3.1	1.1	-2.1	.3
RATIOS <sup>5</sup> (percent)												
Long-term debt to long-term capitalization	22.0	23.8	25.6	26.8	24.4	23.6	23.8	25.7	25.4	33.5	34.4	34.5
Net income to total average capital	12.0	10.0	10.1	9.9	17.8	17.0	10.4	8.6	8.8	8.6	7.0	4.0
Net income to average common equity	15.8	13.1	13.9	13.5	24.0	22.5	17.7	11.5	12.0	12.5	10.8	6.2

<sup>1</sup> Generally represents internally-generated funds from operations. Sum of net income and noncash charges such as depreciation, depletion, and amortization. <sup>2</sup> Cash flow minus dividends paid. <sup>3</sup> Includes common stock, capital surplus, and earned surplus accounts after adjustments. <sup>4</sup> Capital and exploratory expenditures plus dividends paid minus cash flow. <sup>5</sup> Represent approximate year-to-year comparisons because of changes in the makeup of the group due to mergers and other corporate changes.

Source: Carl H. Florzheimer & Co., New York, NY, *Comparative Oil Company Statements, 1986-1985*, and earlier reports.

### No. 929. ELECTRIC UTILITY SALES AND AVERAGE PRICES, BY END-USE SECTORS: 1970 TO 1986

[Prior to 1980, covers Class A and B privately-owned electric utilities; thereafter, Class A utilities whose electric operating revenues were \$100 million or more during the previous year]

YEAR	SALES (bil. kWh)				AVERAGE PRICE OF ELECTRICITY SOLD (cents per kWh)							
	Total <sup>1</sup>	Residential	Commercial	Industrial	Current dollars				Constant (1982) dollars <sup>2</sup>			
					Total <sup>1</sup>	Residential	Commercial	Industrial	Total <sup>1</sup>	Residential	Commercial	Industrial
1970	1,392	466	307	571	1.67	2.22	2.08	1.02	3.98	5.29	4.95	2.43
1971	1,470	500	329	589	1.77	2.32	2.20	1.10	3.99	5.23	4.95	2.48
1972	1,595	539	359	641	1.86	2.42	2.29	1.16	4.00	5.20	4.92	2.49
1973	1,713	579	388	686	1.96	2.54	2.41	1.25	3.96	5.13	4.87	2.53
1974	1,708	578	385	685	2.49	3.10	3.04	1.69	4.61	5.74	5.63	3.13
1975	1,747	588	403	688	2.92	3.51	3.45	2.07	4.52	5.92	5.92	3.49
1976	1,855	608	425	754	3.09	3.73	3.69	2.21	4.90	5.91	5.95	3.50
1977	1,948	645	447	788	3.42	4.05	4.09	2.50	5.08	6.02	6.08	3.71
1978	2,018	674	461	809	3.69	4.31	4.36	2.79	5.11	5.97	6.04	3.86
1979	2,071	683	473	842	3.99	4.64	4.68	3.05	5.08	5.90	5.95	3.88
1980	2,094	717	488	815	4.73	5.36	5.48	3.69	5.52	6.25	6.39	4.31
1981	2,147	722	514	826	5.46	6.20	6.29	4.29	5.81	6.60	6.69	4.56
1982	2,086	730	526	745	6.13	6.86	6.86	4.95	6.13	6.86	6.86	4.95
1983	2,151	751	544	776	6.30	7.18	7.02	4.96	6.06	6.91	6.78	4.77
1984	2,285	780	577	839	6.52	7.54	7.33	5.04	6.03	6.98	6.78	4.66
1985	2,326	794	605	835	6.71	7.79	7.47	5.16	6.02	6.99	6.70	4.63
1986	2,377	826	647	818	6.40	7.41	7.13	4.87	5.59	6.48	6.23	4.26

<sup>1</sup> Includes other sectors not shown separately. <sup>2</sup> Based on the GNP implicit price deflator; see table 732.

Source: U.S. Energy Information Administration, *Annual Energy Review*.

**No. 930. ELECTRIC UTILITY INDUSTRY—ELECTRIC ENERGY PRODUCTION, AND NET SUMMER CAPABILITY BY TYPE OF PRIME MOVER, AND CONSUMPTION OF FUELS: 1960 TO 1986**

[Production for calendar years; other data as of December 31, 1960 excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1970*, series S 32-52, S 78-82, and S 86-107]

ITEM	Unit	1960	1970	1975	1980	1981	1982	1983	1984	1985	1986
<b>PRODUCTION</b>											
Total.....	Bil. kWh.....	756	1,532	1,918	2,286	2,295	2,241	2,310	2,416	2,470	2,489
Average annual change <sup>1</sup> .....	Percent.....	6.6	7.3	4.6	3.6	.4	-2.3	3.1	4.6	2.2	.8
Production, kWh per kW of net summer capability <sup>2</sup> .....	Rate.....	4,522	4,554	3,903	3,962	3,836	3,652	3,720	3,805	3,771	3,734
Privately owned.....	Bil. kWh.....	579	1,183	1,487	1,783	1,786	1,712	1,764	1,849	1,918	1,928
Percent of total utilities.....	Percent.....	76.8	77.2	77.5	78.0	77.8	76.4	76.4	76.5	77.7	77.5
Publicly owned.....	Bil. kWh.....	175	349	431	503	509	530	546	567	552	559
Municipal.....	Bil. kWh.....	37	71	82	87	81	77	73	75	74	79
Federal.....	Bil. kWh.....	112	186	221	235	232	241	258	254	233	225
Cooperatives and other.....	Bil. kWh.....	26	91	128	182	196	212	215	239	245	255
Source of energy:											
Coal <sup>3</sup> .....	Percent.....	53.3	46.0	44.6	51.0	52.7	53.4	54.8	55.9	56.8	55.8
Nuclear.....	Percent.....	1	1.4	9.0	11.0	11.9	12.6	12.7	13.6	15.5	16.8
Oil.....	Percent.....	6.4	12.0	15.1	10.6	9.0	6.5	6.3	5.0	4.0	5.5
Gas.....	Percent.....	20.9	24.3	15.6	15.1	15.1	13.6	11.9	12.3	11.8	10.0
Hydro.....	Percent.....	19.9	16.2	15.6	12.1	11.4	13.8	14.4	13.3	11.9	12.1
Type of prime mover: <sup>4</sup>											
Hydro.....	Bil. kWh.....	146	248	300	276	260	309	332	321	281	291
Steam conventional <sup>5</sup> .....	Bil. kWh.....	1,240	1,414	1,726	1,730	1,828	1,661	1,742	1,778	1,757	1,757
Gas turbine.....	Bil. kWh.....	603	16	22	24	22	14	14	15	14	14
Steam nuclear.....	Bil. kWh.....	1	22	173	251	273	283	294	328	384	414
Internal combustion.....	Bil. kWh.....	4	6	6	4	3	2	2	2	2	2
<b>NET SUMMER CAPABILITY</b>											
Total <sup>6</sup> .....	Mil. kW.....	167	336	491	579	598	614	621	635	655	666
Average annual change <sup>1</sup> .....	Percent.....	7.9	7.2	7.9	3.4	3.4	2.6	1.2	2.3	3.1	1.7
Hydro.....	Mil. kW.....	36	64	78	82	82	83	84	85	89	89
Steam conventional <sup>7</sup> .....	Mil. kW.....	128	248	333	397	411	421	425	431	437	441
Gas turbine.....	Mil. kW.....	-	13	37	43	43	44	43	44	44	44
Steam nuclear.....	Mil. kW.....	(z)	7	37	52	56	60	63	70	80	85
Internal combustion.....	Mil. kW.....	3	4	5	5	5	5	5	5	5	5
<b>NUMBER OF PRIME MOVERS</b>											
Prime movers, total <sup>8</sup> .....	Number.....	3,435	3,533	3,587	3,575	3,567	3,515	3,486	3,475	3,463	3,461
Hydro.....	Number.....	1,331	1,188	1,146	1,142	1,147	1,168	1,182	1,194	1,216	1,230
Steam conventional.....	Number.....	1,055	998	937	934	937	916	910	905	883	878
Gas turbine.....	Number.....	5	323	497	541	540	541	542	544	541	543
Steam nuclear.....	Number.....	5	16	42	51	53	53	55	55	62	64
Internal combustion.....	Number.....	1,044	1,008	965	907	890	837	797	777	761	746
<b>CONSUMPTION OF FUELS</b>											
Net generation by fuel <sup>9</sup> .....	Bil. kWh.....	610	1,284	1,618	2,010	2,034	1,932	1,978	2,095	2,189	2,198
Average annual change <sup>1</sup> .....	Percent.....	6.9	7.7	4.7	4.4	1.2	-5.0	2.4	5.9	4.5	.4
Coal.....	Bil. kWh.....	403	704	853	1,162	1,203	1,192	1,259	1,342	1,402	1,388
Percent of total.....	Percent.....	66.1	54.8	52.7	57.8	59.1	61.7	63.7	64.1	64.0	63.1
Petroleum.....	Bil. kWh.....	48	184	289	246	206	147	144	120	100	137
Gas.....	Bil. kWh.....	158	373	300	346	346	305	274	297	292	248
Nuclear.....	Bil. kWh.....	1	22	173	251	273	283	294	328	384	414
Fuel consumed:											
Total energy equivalent.....	Quad. Btu.....	6.57	13.40	15.19	18.57	18.55	17.49	17.75	18.53	18.79	18.61
Coal.....	Mil. sh. tons.....	177	320	406	569	597	594	625	664	694	685
Oil.....	Mil. bbl.....	88	339	506	421	352	251	247	206	174	231
Gas.....	Bil. cu. ft.....	1,725	3,932	3,158	3,682	3,640	3,226	2,911	3,111	3,044	2,600

- Represents zero. Z Less than .5 million. <sup>1</sup> Change from prior year shown; for 1960, change from 1955. For explanation of average annual percent change, see Guide to Tabular Presentation. <sup>2</sup> Net summer capability is the steady hourly output that generating equipment is expected to supply to system load, exclusive of auxiliary power as demonstrated by test at the time of summer peak demand. <sup>3</sup> Includes small percentage from wood and waste, geothermal, and petroleum coke. <sup>4</sup> A prime mover is the engine, turbine, water wheel, or similar machine which drives an electric generator. <sup>5</sup> Fossil fuels only. <sup>6</sup> Includes wind, solar thermal, and photovoltaic, not shown separately. <sup>7</sup> Includes fossil steam, wood, and waste. <sup>8</sup> Each prime mover type in combination plants counted separately prior to 1975. <sup>9</sup> Includes small amounts of wood, waste, wind, geothermal, solar thermal, and photovoltaic.

Source: 1960-1970, U.S. Federal Power Commission, *Electric Power Statistics*, and press releases; thereafter, U.S. Energy Information Administration, 1975-1980, *Power Production, Fuel Consumption, and Installed Capacity Data—Annual*, and unpublished data; thereafter, *Electric Power Annual, Annual Energy Review*, and unpublished data.

### NO. 931. ELECTRIC UTILITY INDUSTRY—CAPABILITY, PEAK LOAD, AND CAPACITY MARGIN: 1970 TO 1986

[Excludes Alaska and Hawaii. Capability represents the maximum kilowatt output with all power sources available and with hydraulic equipment under actual water conditions, allowing for maintenance, emergency outages, and system operating requirements. Capacity margin is the difference between capability and peak load]

YEAR	CAPABILITY AT THE TIME OF—				NON-COINCIDENT PEAK LOAD		CAPACITY MARGIN			
	Summer peak load (1,000 kW)		Winter peak load <sup>1</sup> (1,000 kW)		Summer	Winter <sup>1</sup>	Summer		Winter	
	Amount	Change from prior year	Amount	Change from prior year			Amount (1,000 kW)	Per cent of capability	Amount (1,000 kW)	Per cent of capability
1970	326,900	26,800	339,050	27,600	274,650	248,550	62,250	16.0	90,500	26.7
1971	353,250	26,350	386,700	27,650	292,100	261,650	61,150	17.3	105,050	28.6
1972	381,700	28,450	394,050	27,350	319,150	290,950	62,550	16.4	103,100	26.2
1973	415,500	33,800	433,150	39,100	343,900	295,100	71,600	17.2	138,050	31.9
1974	444,400	28,900	467,400	34,250	349,250	302,500	95,150	21.4	164,900	35.3
1975	479,300	34,900	492,450	25,050	356,800	331,100	122,500	25.6	161,350	32.9
1976	498,750	19,450	511,000	18,550	370,900	349,850	127,850	25.6	161,150	31.5
1977	516,000	17,250	537,600	26,600	396,350	360,200	119,650	23.2	177,400	33.0
1978	545,700	29,700	561,550	23,950	408,050	383,100	135,650	24.9	178,450	31.8
1979 <sup>2</sup>	544,506	-1,194	554,525	-7,025	398,424	368,876	146,082	26.8	185,649	33.5
1980	558,237	13,731	572,195	17,670	427,058	384,567	131,179	23.5	187,628	32.8
1981	572,219	13,982	586,569	14,374	428,295	391,106	143,924	25.2	188,769	32.2
1982	586,142	13,923	598,066	11,497	414,909	373,318	171,233	29.2	224,081	37.5
1983	598,449	10,307	612,453	14,387	447,526	410,779	148,923	25.0	201,674	32.9
1984	604,240	7,791	622,125	9,673	451,150	436,374	153,090	25.9	185,751	29.9
1985	621,597	17,357	636,475	14,350	460,503	423,660	161,094	25.3	212,815	33.4
1986	627,051	5,454	646,721	10,246	476,320	422,857	150,731	24.0	223,864	34.6

<sup>1</sup> Prior to 1973, data was for the month of December. <sup>2</sup> Change from 1969. <sup>3</sup> Beginning 1979, data are not entirely comparable with prior years due to change in data source.

Source: Edison Electric Institute, Washington, DC, *Statistical Yearbook of the Electric Utility Industry*, annual.

### NO. 932. ELECTRIC ENERGY—PRODUCTION AND INSTALLED GENERATING CAPACITY, BY STATE: 1980 TO 1986

[Capacity as of Dec. 31. Covers utilities for public use]

DIVISION AND STATE	PRODUCTION (bil. kWh)			INSTALLED CAPACITY (mil. kW)			DIVISION AND STATE	PRODUCTION (bil. kWh)			INSTALLED CAPACITY (mil. kW)		
	1980	1985	1986	1980	1985	1986		1980	1985	1986	1980	1985	1986
<b>U.S.</b>	<b>2,286.4</b>	<b>2,469.8</b>	<b>2,467.3</b>	<b>613.5</b>	<b>698.1</b>	<b>707.7</b>							
<b>N.E.</b>	<b>78.2</b>	<b>81.4</b>	<b>87.6</b>	<b>21.1</b>	<b>21.4</b>	<b>22.6</b>	<b>S.A.—Con.</b>						
ME	7.9	9.1	10.9	2.4	2.4	2.4	VA	34.3	42.1	42.6	11.7	13.6	13.6
NH	6.0	6.0	6.1	1.6	1.4	1.4	WV	70.8	79.5	77.5	15.2	15.2	15.2
VT	3.8	4.2	3.1	.9	1.1	1.1	NC	72.1	74.5	76.8	15.6	19.7	19.8
MA	34.8	36.3	34.5	9.6	10.0	10.0	SC	41.9	53.6	56.5	11.7	15.1	16.3
RI	1.0	.5	.7	.3	.3	.3	GA	63.3	80.9	74.9	16.3	18.7	19.6
CT	24.7	25.2	32.2	6.3	6.2	7.4	FL	95.9	96.4	108.5	29.0	34.2	34.9
<b>M.A.</b>	<b>260.5</b>	<b>281.2</b>	<b>287.7</b>	<b>78.4</b>	<b>82.3</b>	<b>81.6</b>	<b>E.S.C.</b>	<b>214.1</b>	<b>221.5</b>	<b>210.9</b>	<b>53.3</b>	<b>61.9</b>	<b>62.2</b>
NY	108.6	111.8	111.3	31.4	32.5	32.3	KY	57.1	63.0	66.9	13.6	16.8	16.8
NJ	29.4	34.4	28.8	12.6	13.4	14.6	TN	60.2	66.6	59.5	15.9	18.0	18.3
PA	122.5	135.0	147.6	34.4	36.4	34.7	AL	78.3	72.7	68.6	18.2	20.0	20.0
							MS	18.5	19.2	19.0	5.5	7.1	7.1
<b>E.N.C.</b>	<b>397.0</b>	<b>408.6</b>	<b>414.6</b>	<b>107.9</b>	<b>117.0</b>	<b>118.3</b>	<b>W.S.C.</b>	<b>313.1</b>	<b>342.5</b>	<b>351.9</b>	<b>64.7</b>	<b>99.7</b>	<b>101.4</b>
OH	110.2	110.8	111.5	27.4	27.3	28.5	AR	19.7	35.6	35.1	7.2	9.3	9.3
IN	70.6	78.5	77.3	17.1	21.3	21.5	LA	45.7	44.3	52.8	12.9	18.4	18.6
IL	103.4	103.7	106.9	29.9	32.7	32.5	OK	44.6	44.1	41.1	11.3	13.0	13.3
MI	74.8	74.5	76.1	22.7	24.1	24.1	TX	203.0	218.5	222.9	53.3	58.0	60.2
WI	37.8	41.2	42.8	10.7	11.6	11.8	<b>Mt.</b>	<b>158.8</b>	<b>201.6</b>	<b>203.1</b>	<b>35.8</b>	<b>46.3</b>	<b>49.1</b>
<b>W.N.C.</b>	<b>168.2</b>	<b>185.1</b>	<b>185.1</b>	<b>49.0</b>	<b>57.3</b>	<b>57.3</b>	MT	15.5	18.8	22.4	3.2	4.9	4.9
MN	31.5	31.0	28.4	8.8	8.5	8.5	ID	9.5	10.9	12.2	2.0	2.0	2.0
IA	21.8	23.5	24.1	7.3	8.6	8.6	WY	22.4	35.7	28.8	4.1	5.9	5.9
MO	48.9	57.3	54.2	13.8	16.8	16.8	CO	23.6	28.8	28.8	6.1	7.3	7.3
ND	15.8	22.1	22.2	3.4	4.8	4.7	NM	24.7	27.1	23.6	5.0	5.5	5.5
SD	8.6	7.8	7.8	2.2	2.5	2.6	AZ	36.9	48.2	51.2	9.4	12.1	13.7
NE	18.3	15.9	18.8	5.1	6.0	5.9	UT	12.1	15.4	16.8	2.1	3.0	4.3
KS	25.1	27.5	29.5	8.3	10.5	10.5	NV	14.1	16.7	20.0	3.9	5.6	5.5
<b>S.A.</b>	<b>417.8</b>	<b>467.9</b>	<b>483.2</b>	<b>111.5</b>	<b>129.7</b>	<b>132.7</b>	<b>Pac.</b>	<b>278.8</b>	<b>280.1</b>	<b>273.3</b>	<b>71.9</b>	<b>82.6</b>	<b>82.5</b>
DE	6.7	8.5	8.4	1.6	1.9	1.9	WA	92.3	93.1	92.5	23.0	23.7	23.7
MD	32.2	32.3	37.7	9.2	10.4	10.4	OR	36.6	48.2	47.8	8.5	10.6	10.6
DC	.7	.1	.2	1.2	.9	.9	CA	140.3	127.8	121.9	37.8	45.1	45.0
							AK	3.1	4.3	4.3	1.1	1.7	1.7
							HI	6.5	6.6	6.9	1.4	1.5	1.5

Source: U.S. Energy Information Administration, 1980, *Power Production, Fuel Consumption, and Installed Capacity Data*, annual; 1985 and 1986, *Electric Power Annual and Inventory of Power Plants in the United States*, 1986.

**NO. 933. PRIVATELY AND PUBLICLY OWNED ELECTRIC UTILITY GENERATING PLANTS—NUMBER AND CAPACITY, BY TYPE AND SIZE OF PRIME MOVER: 1970 TO 1986**

[Capacity as of Dec. 31. Each prime mover type in combination plants is counted separately. For definition of prime mover, see table 930, footnote 3]

TYPE AND SIZE OF PRIME MOVER	PRIVATELY OWNED						PUBLICLY OWNED					
	Number of prime movers			Capacity (mil. kW)			Number of prime movers			Capacity (mil. kW)		
	1970	1980	1986	1970	1980	1986	1970	1980	1986	1970	1980	1986
<b>Total</b> .....	<b>2,037</b>	<b>2,094</b>	<b>1,998</b>	<b>262.8</b>	<b>477.0</b>	<b>524.9</b>	<b>1,496</b>	<b>1,481</b>	<b>1,466</b>	<b>78.8</b>	<b>136.6</b>	<b>164.3</b>
Steam, conventional.....	672	626	585	222.4	361.4	387.0	326	308	293	37.7	63.1	82.0
Under 100,000 kW.....	220	134	94	8.2	5.8	4.4	254	195	159	6.9	6.2	6.1
100,000-500,000 kW.....	299	239	225	77.1	64.0	60.5	58	75	85	12.3	17.4	21.0
Over 500,000 kW.....	153	253	266	137.1	291.8	322.1	14	38	49	18.5	39.6	54.9
Steam, nuclear.....	15	43	57	5.7	48.0	66.7	1	8	10	.8	8.5	12.2
Over 500,000 kW.....	7	37	54	4.5	46.8	66.1	1	7	9	.8	8.5	12.2
Hydro.....	754	732	752	18.9	24.2	28.4	434	410	478	36.3	52.1	56.1
Over 25,000 kW.....	165	173	176	15.6	21.0	25.1	164	186	200	35.1	51.0	54.7
Gas turbine.....	265	411	403	14.4	41.6	41.3	58	130	140	1.1	9.1	10.4
Over 25,000 kW.....	128	281	280	12.1	39.4	39.3	12	65	73	.4	8.0	9.4
Internal combustion.....	331	282	201	1.3	1.8	1.5	677	625	545	3.0	3.7	3.5
Under 5,000 kW.....	238	166	100	.5	.4	.2	471	358	289	1.0	.7	.6
Over 5,000 kW.....	93	116	101	.9	1.5	1.3	206	267	256	2.0	3.0	2.9

Source: U.S. Energy Information Administration, unpublished data.

**NO. 934. ELECTRIC ENERGY SALES, BY CLASS OF SERVICE, 1970 TO 1986, AND BY STATE, 1986**

[In billions of kilowatthours]

YEAR, DIVISION, AND STATE	Total <sup>1</sup>	Residential	Commercial	Industrial	DIVISION AND STATE	Total <sup>1</sup>	Residential	Commercial	Industrial
1973.....	1,712.9	579.2	388.3	686.1	Delaware.....	6.8	2.1	1.8	2.8
1975.....	1,747.1	588.1	403.0	687.7	Maryland.....	50.5	17.1	14.1	18.4
1979.....	2,071.1	682.8	473.3	841.9	Virginia.....	62.8	25.2	16.5	14.2
1980.....	2,094.4	717.5	488.2	815.1	West Virginia.....	20.6	7.0	4.5	9.0
1981.....	2,147.1	722.3	514.3	825.7	North Carolina.....	74.2	27.7	18.2	26.8
1982.....	2,086.4	729.5	526.4	744.9	South Carolina.....	49.2	16.1	9.8	22.7
1983.....	2,151.0	750.9	543.8	776.0	Georgia.....	66.1	24.3	17.2	23.8
1984.....	2,278.4	777.7	578.3	840.8	Florida.....	116.4	57.8	38.9	15.9
1985.....	2,308.5	791.0	609.0	824.5	<b>East South Central</b> .....	<b>199.8</b>	<b>72.8</b>	<b>44.8</b>	<b>77.9</b>
<b>1986, total</b> .....	<b>2,350.7</b>	<b>817.7</b>	<b>641.5</b>	<b>808.3</b>	Kentucky.....	50.5	15.8	8.5	24.1
<b>New England</b> .....	<b>91.8</b>	<b>32.8</b>	<b>31.5</b>	<b>25.7</b>	Tennessee.....	68.9	27.2	16.2	22.7
Maine.....	10.2	3.6	2.2	4.2	Alabama.....	52.8	18.9	11.0	22.4
New Hampshire.....	7.5	3.1	1.6	2.8	Mississippi.....	27.4	11.1	7.0	6.7
Vermont.....	4.0	1.4	.9	1.6	<b>West South Central</b> .....	<b>328.4</b>	<b>115.1</b>	<b>83.3</b>	<b>117.6</b>
Massachusetts.....	39.9	13.6	15.8	9.8	Arkansas.....	22.2	8.2	5.3	7.1
Rhode Island.....	5.6	2.1	2.1	1.3	Louisiana.....	57.5	19.9	12.5	21.2
Connecticut.....	24.7	9.1	8.9	6.3	Oklahoma.....	36.0	13.8	9.8	10.4
<b>Middle Atlantic</b> .....	<b>274.5</b>	<b>86.5</b>	<b>89.1</b>	<b>86.2</b>	Texas.....	212.7	72.3	55.6	78.8
New York.....	116.1	34.1	42.6	28.6	<b>Mountain</b> .....	<b>135.0</b>	<b>43.1</b>	<b>40.3</b>	<b>45.6</b>
New Jersey.....	55.9	18.0	21.8	15.6	Montana.....	11.6	3.2	2.3	5.9
Pennsylvania.....	102.5	34.3	24.8	42.0	Idaho.....	15.8	5.4	4.4	6.9
<b>East North Central</b> .....	<b>403.2</b>	<b>125.3</b>	<b>93.7</b>	<b>170.5</b>	Wyoming.....	10.4	1.8	1.6	5.9
Ohio.....	124.1	35.4	26.3	58.3	Colorado.....	27.8	8.9	11.4	5.9
Indiana.....	60.0	20.6	12.2	25.5	New Mexico.....	11.8	3.2	3.9	3.7
Illinois.....	101.5	30.9	27.0	36.8	Arizona.....	34.0	12.6	11.0	8.5
Michigan.....	74.3	23.1	17.9	32.1	Utah.....	13.0	3.9	3.8	4.3
Wisconsin.....	43.4	15.3	10.2	16.9	Nevada.....	11.0	4.1	1.8	4.4
<b>West North Central</b> .....	<b>166.9</b>	<b>64.0</b>	<b>43.8</b>	<b>54.1</b>	<b>Pacific</b> .....	<b>304.7</b>	<b>100.8</b>	<b>94.2</b>	<b>97.1</b>
Minnesota.....	39.1	13.6	6.9	17.8	Washington.....	74.6	26.6	16.2	29.1
Iowa.....	26.5	10.0	5.8	9.7	Oregon.....	34.9	13.4	10.0	11.2
Missouri.....	48.4	19.7	15.3	12.6	California.....	184.6	57.6	64.7	53.0
North Dakota.....	6.7	3.0	1.6	1.5	Alaska.....	3.5	1.3	1.8	.5
South Dakota.....	6.0	2.8	1.2	1.6	Hawaii.....	6.9	1.9	1.8	3.2
Nebraska.....	16.2	6.4	4.8	3.8					
Kansas.....	24.0	8.4	8.1	7.0					

<sup>1</sup> Includes other service, not shown separately.      <sup>2</sup> Includes District of Columbia.

Source: U.S. Energy Information Administration, *Electric Power Annual, 1986*.

## No. 935. ELECTRIC UTILITIES—GENERATION, SALES, REVENUE, AND CUSTOMERS: 1970 TO 1986

(Sales and revenue are to and from ultimate customers)

CLASS	Unit	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Generation <sup>1</sup>	Bil. kWh	1,532	1,918	2,124	2,206	2,247	2,286	2,295	2,241	2,310	2,416	2,470	2,487
Sales <sup>2</sup>	Bil. kWh	1,391	1,733	1,951	2,018	2,084	2,126	2,151	2,100	2,160	2,281	2,310	2,361
Residential or domestic	Bil. kWh	448	586	652	679	696	734	730	733	750	783	791	822
Percent of total	Percent	32.2	33.8	33.4	33.7	33.4	34.5	34.0	34.9	34.7	34.3	34.2	34.8
Commercial <sup>3</sup>	Bil. kWh	313	418	469	481	495	524	522	517	546	578	609	623
Industrial <sup>4</sup>	Bil. kWh	573	662	757	782	818	794	820	770	783	835	824	818
Revenue <sup>2</sup>	Bil. dol	22.1	46.9	62.6	69.9	79.6	95.5	110.6	121.6	129.6	143.1	149.8	153.1
Residential or domestic	Bil. dol	9.4	18.8	24.7	27.4	30.8	37.6	42.4	47.2	51.2	56.1	59.0	61.2
Percent of total	Percent	42.7	40.1	39.4	39.2	38.7	39.4	38.3	38.8	39.5	39.2	39.4	40.0
Commercial <sup>3</sup>	Bil. dol	6.3	13.5	18.0	19.7	22.3	27.4	31.3	34.2	37.1	41.3	44.2	45.8
Industrial <sup>4</sup>	Bil. dol	5.4	12.7	17.6	20.3	23.8	27.3	33.0	35.9	36.6	40.8	41.4	40.8
Ultimate customers, Dec. 31 <sup>2</sup>	Million	72.5	81.8	85.6	87.7	89.8	92.7	94.0	95.3	97.0	99.4	101.5	103.6
Residential or domestic	Million	64.0	72.6	75.9	77.8	79.6	82.2	83.3	84.4	85.8	87.9	89.7	91.5
Commercial <sup>3</sup>	Million	7.9	8.6	8.9	9.1	9.4	9.7	9.8	10.0	10.3	10.6	10.7	11.2
Industrial <sup>4</sup>	Million	.4	.4	.4	.5	.5	.5	.5	.5	.5	.5	.5	.5
Avg. kWh used per customer	1,000	19.4	21.4	23.1	23.3	23.5	23.2	23.0	22.2	22.5	23.2	23.0	23.0
Residential	1,000	7.1	8.2	8.7	8.8	8.8	9.0	8.8	8.7	8.8	9.0	9.0	9.1
Commercial <sup>3</sup>	1,000	40.0	49.0	52.9	53.1	53.2	54.5	53.4	52.3	53.8	55.2	57.4	57.9
Avg. annual bill per customer	Dollar	307	579	740	807	897	1,040	1,184	1,285	1,349	1,453	1,489	1,492
Residential	Dollar	149	262	329	357	391	462	512	553	602	644	683	675
Commercial <sup>3</sup>	Dollar	149	262	329	357	391	462	512	553	602	644	683	675
Avg. revenue per kWh sold	Cents	1.59	2.10	2.31	2.47	2.84	3.82	4.49	5.14	5.79	6.00	6.27	6.47
Residential	Cents	2.10	3.21	3.78	4.03	4.43	5.12	5.90	6.44	6.89	7.17	7.40	7.44
Commercial <sup>3</sup>	Cents	2.01	3.23	3.84	4.10	4.50	5.22	6.00	6.61	6.80	7.14	7.27	7.33
Industrial <sup>4</sup>	Cents	.95	1.92	2.33	2.59	2.91	3.44	4.03	4.68	4.68	4.88	5.04	5.00

<sup>1</sup> Source: 1970-1975, U.S. Federal Power Commission; thereafter, U.S. Energy Information Administration, *Monthly Energy Review*, January 1987. <sup>2</sup> Includes other types not shown separately. <sup>3</sup> Small light and power. <sup>4</sup> Large light and power.

Source: Except as noted, Edison Electric Institute, Washington, DC, *Statistical Yearbook*.

## No. 936. ELECTRIC UTILITIES—BALANCE SHEET AND INCOME ACCOUNT OF PRIVATELY OWNED COMPANIES: 1970 TO 1985

[In billions of dollars. As of Dec. 31. See also *Historical Statistics, Colonial Times to 1970*, series S 133-146 and V 197-212]

ITEM	CLASS A AND B INVESTOR-OWNED ELECTRIC UTILITIES <sup>1</sup>						MAJOR INVESTOR-OWNED ELECTRIC UTILITIES <sup>2</sup>					
	1970	1975	1977	1978	1979	1980	1981	1981	1982	1983	1984	1985
COMPOSITE BALANCE SHEET												
Assets and other debits	87.4	157.1	192.1	211.1	234.8	260.0	286.0	285.1	315.0	342.4	375.6	404.7
Electric utility plant <sup>3</sup>	93.3	160.7	196.8	218.0	242.3	266.9	292.7	291.6	321.2	347.9	377.2	396.9
Depreciation and amortization	20.3	31.9	39.8	44.5	49.7	55.5	61.5	61.1	67.6	74.3	81.9	85.1
Net electric utility plant	73.1	128.8	157.0	173.5	192.6	211.5	231.2	230.5	253.6	273.6	295.3	311.8
Other utility plant	9.0	11.7	12.6	13.2	13.9	14.8	15.7	15.7	16.7	17.5	18.3	19.9
Depreciation and amortization	2.1	3.1	3.7	3.9	4.2	4.5	4.9	4.9	5.3	5.8	6.1	6.5
Net other utility plant	6.9	8.6	9.0	9.3	9.7	10.3	10.8	10.8	11.4	11.8	12.2	13.4
Total utility plant	102.3	172.4	209.4	231.2	256.2	281.7	308.4	307.3	337.9	365.5	395.5	431.1
Depreciation and amortization	22.3	35.0	45.5	48.4	53.9	60.0	64.4	66.0	72.9	80.7	88.0	97.4
Net total utility plant	79.9	137.4	166.0	182.8	202.3	221.7	242.0	241.3	265.0	285.4	307.5	333.8
Other property and investments	1.7	4.5	5.6	6.4	6.0	6.5	7.9	7.9	9.1	10.3	10.9	12.1
Current and accrued assets	5.3	13.5	18.2	18.9	22.4	26.2	28.7	28.6	31.7	33.3	37.9	38.4
Deferred debits	.4	1.7	2.3	3.0	4.1	5.5	7.3	7.3	9.3	13.4	19.3	19.4
Liabilities and other credits <sup>4</sup>	87.4	157.1	192.1	211.1	234.8	260.0	286.0	285.1	315.0	342.4	375.6	404.7
Capital stock	20.8	37.8	45.6	49.1	53.8	58.3	63.9	63.7	70.9	75.9	79.0	82.8
Other paid-in capital	4.4	11.5	15.6	17.9	19.4	21.5	24.0	23.9	27.7	31.0	33.3	35.5
Retained earnings	9.4	14.7	17.8	19.4	21.0	22.7	25.0	24.8	27.9	31.9	37.1	41.1
Subsidiary earnings <sup>5</sup>	(x)	.6	.8	.9	1.0	1.1	1.3	1.3	1.6	1.7	2.0	2.2
Long-term debt	41.9	70.8	82.2	88.3	95.7	105.3	115.5	115.2	124.0	131.6	140.7	152.7
Current and accrued liabilities	7.3	13.7	16.0	18.3	23.4	26.3	28.4	26.1	28.6	29.5	32.0	32.0
Deferred credits and operating reserves	.9	2.7	5.7	7.1	8.7	9.8	11.5	11.0	15.1	16.6	19.0	20.9
Deferred income taxes <sup>6</sup>	2.2	5.4	8.3	10.0	11.9	14.1	16.7	16.6	19.4	23.6	28.1	32.7
COMPOSITE INCOME ACCOUNTS												
Electric operating revenues	19.8	44.6	58.9	65.4	72.9	87.1	102.3	101.7	109.3	116.7	128.3	135.3
Electric operating expenses	15.3	36.1	48.6	54.3	61.0	73.4	86.0	85.5	91.7	98.2	105.5	111.1
Net electric operating revenues	4.5	8.5	10.3	11.1	11.8	13.6	16.3	16.2	18.1	20.5	22.8	24.1
Other utility operating income	.4	.5	.6	.7	.7	.7	.9	.7	.9	.9	1.1	1.2
Total utility operating income	4.9	9.0	10.9	11.7	12.5	14.4	17.0	17.0	19.1	21.4	24.0	25.3
Other income	.8	2.2	2.2	2.5	3.1	3.6	4.4	4.4	5.3	6.5	6.8	7.4
Total income	5.7	11.3	13.0	14.3	15.6	18.0	21.4	21.3	24.4	28.0	30.8	32.7
Income deductions	2.3	5.1	5.0	5.5	6.1	7.3	8.7	8.7	9.4	10.1	11.1	14.0
Net income <sup>7</sup>	3.4	6.1	8.0	8.7	9.5	10.7	12.7	12.7	15.0	17.9	19.7	18.7

X Not applicable. <sup>1</sup> There were 197 utilities of this type in 1983. <sup>2</sup> There were 183 utilities of this type in 1985.

<sup>3</sup> Includes construction work in progress. <sup>4</sup> Includes contributions in aid of construction through 1970.

<sup>5</sup> Unappropriated undistributed. <sup>6</sup> Cumulative. <sup>7</sup> Beginning 1975, includes net extraordinary income.

Source: 1970-1975, U.S. Federal Power Commission and 1977-1981, U.S. Energy Information Administration, *Statistics of Privately Owned Electric Utilities in the United States*, annual; thereafter, U.S. Energy Information Administration, *Financial Statistics of Selected Electric Utilities*, annual.

No. 937. NUCLEAR POWER PLANTS—NUMBER, CAPACITY, AND GENERATION: 1965 TO 1986

ITEM	1965	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986, prel.
Operable reactors <sup>1</sup> .....	6	18	54	70	68	70	74	77	80	86	95	100
Net summer capability <sup>1</sup> <sup>2</sup> (mil. kW) .....	.8	7.0	37.2	50.7	49.6	51.7	55.9	59.9	63.0	69.7	79.4	85.3
Electricity generated (bil. kWh) .....	4	2.2	17.3	27.6	25.5	25.1	27.3	28.3	29.4	32.8	38.4	41.4
Percent of total electric utility generation .....	.4	1.4	9.0	12.5	11.4	11.0	11.9	12.6	12.7	13.6	15.5	16.7
Capacity factor <sup>3</sup> .....	(NA)	(NA)	56.0	64.7	58.5	56.4	58.4	56.7	54.4	56.3	57.9	56.9

NA Not available. <sup>1</sup> As of yearend. <sup>2</sup> Net summer capability is the peak steady hourly output that generating equipment is expected to supply to system load, exclusive of auxiliary and other powerplant, as demonstrated by test at the time of summer peak demand. <sup>3</sup> Weighted average of monthly capacity factors. Monthly factors are derived by dividing actual monthly generation by the maximum possible generation for the month (hours in month times net maximum dependable capacity). Source: U.S. Energy Information Administration, *Annual Energy Review*.

No. 938. COMMERCIAL NUCLEAR POWER GENERATION, BY COUNTRY: 1970 TO 1986

[Generation for calendar years; other data as of December. Excludes Communist countries]

COUNTRY	REACTORS				ELECTRICITY GENERATED <sup>1</sup> (bil. kWh)				GROSS CAPACITY (1,000 kW)			
	1970	1980	1985	1986	1970	1980	1985	1986	1970	1980	1985	1986
<b>Total</b> .....	<b>64</b>	<b>208</b>	<b>295</b>	<b>321</b>	<b>73.9</b>	<b>617.8</b>	<b>1,259.6</b>	<b>1,389.1</b>	<b>15,186</b>	<b>128,847</b>	<b>223,486</b>	<b>247,728</b>
U.S. ....	15	74	89	98	23.2	265.2	399.1	493.6	5,211	56,529	80,327	87,241
Argentina .....	-	1	2	2	-	2.3	4.8	5.7	-	957	1,005	1,005
Belgium .....	1	3	7	7	.3	12.5	34.5	38.6	11	1,744	5,709	5,709
Brazil .....	-	-	1	1	-	-	3.4	1	-	-	657	657
Canada .....	1	9	15	17	.9	40.4	62.9	74.5	220	5,588	10,332	11,813
China: Taiwan .....	-	2	6	6	-	8.2	28.7	28.9	-	1,272	5,146	5,146
Great Britain .....	27	33	37	38	26.5	37.2	59.6	59.1	4,783	9,012	12,280	12,766
Finland .....	-	4	4	4	-	7.0	18.8	18.8	-	2,296	2,400	2,400
France .....	4	22	44	49	5.7	61.2	224.0	254.2	1,606	15,412	38,595	47,156
India .....	2	4	5	6	2.2	2.9	4.4	5.1	400	860	1,095	1,330
Italy .....	3	4	3	3	3.3	2.2	7.0	8.7	631	1,490	1,330	1,330
Japan .....	3	22	33	33	3.3	81.0	152.0	164.9	828	15,117	24,686	24,686
Netherlands .....	1	2	2	2	.4	4.2	3.9	4.2	55	529	540	540
Pakistan .....	-	1	1	1	-	.1	.3	.5	-	137	137	137
South Korea .....	-	1	4	6	-	3.5	16.5	37.5	-	587	2,866	4,812
Spain .....	1	3	8	8	.9	5.2	28.0	37.5	160	1,177	5,812	5,812
Sweden .....	1	8	12	12	(z)	26.7	58.6	69.9	12	5,770	9,915	9,915
Switzerland .....	1	4	5	5	1.9	14.3	22.4	22.5	364	2,034	3,079	3,079
West Germany .....	4	11	16	17	5.3	43.7	125.7	117.4	907	8,996	16,912	18,295
Yugoslavia .....	-	-	1	1	-	-	4.1	4.1	-	-	664	664

- Represents zero. Z Less than 50 million kWh. <sup>1</sup> Gross. Source: McGraw-Hill, Inc., New York, NY, *Nucleonics Week*, January Issues. (Copyright.)

No. 939. URANIUM SUPPLY, ENRICHMENT, AND DISCHARGED COMMERCIAL REACTOR FUEL: 1970 TO 1986

[Years ending Dec. 31, except as noted. For explanation of kilogram, see weights and measures]

ITEM	Unit	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986
<b>URANIUM (U<sub>3</sub>O<sub>8</sub>)</b>											
Production .....	Mil. lb. ....	25.81	23.20	37.47	43.70	38.47	26.87	21.16	14.88	11.31	13.20
Exports .....	Mil. lb. ....	4.20	1.00	6.20	5.80	4.40	6.20	3.30	2.20	5.30	1.80
Imports .....	Mil. lb. ....	-	1.40	3.00	3.60	6.60	17.10	8.20	12.50	11.70	11.10
Delivered price .....	Dol./lb. ....	(NA)	10.50	23.85	26.00	32.20	38.37	38.20	32.85	31.43	30.01
<b>ENRICHMENT</b>											
Enriched product <sup>1</sup> .....	Mil. Swu <sup>2</sup> .....	5.10	9.92	13.98	10.69	11.50	12.36	* 8.46	* 11.2	* 10.2	* 8.6
For domestic customers .....	Mil. Swu <sup>2</sup> .....	3.74	4.36	8.68	6.89	7.19	6.69	* 4.69	* 5.8	* 6.0	* 4.9
For foreign customers .....	Mil. Swu <sup>2</sup> .....	1.36	5.56	5.31	3.80	4.31	5.67	* 3.77	* 5.4	* 4.2	* 3.7
Sales <sup>4</sup> .....	Mil. dol. ....	(NA)	376	1,432	1,379	1,445	2,185	2,329	* 1,457	* 1,403	* 1,085
<b>DISCHARGED COMMERCIAL REACTOR FUEL <sup>5</sup></b>											
Annual discharge .....	Metric tons .....	82	499	1,258	1,193	1,077	1,014	1,224	1,257	1,330	1,411
Inventory, yearend <sup>6</sup> .....	Metric tons .....	118	1,538	5,241	6,434	7,511	8,525	9,749	11,006	12,481	13,881
On-site storage .....	Metric tons .....	(NA)	(NA)	(NA)	(NA)	7,032	8,046	9,300	10,642	11,953	13,267
Off-site storage .....	Metric tons .....	(NA)	(NA)	(NA)	(NA)	479	479	449	384	528	614

- Represents zero. NA Not available. <sup>1</sup> Based on sales. <sup>2</sup> Separate work unit. The standard measure of enrichment services is based on operating tails assay in effect at the time the enriched product was placed in inventory. <sup>3</sup> Jan.-Sept. only. <sup>4</sup> Fiscal years. <sup>5</sup> Uranium content. Source: Nuclear Assurance Corporation, Atlanta, GA. <sup>6</sup> Reprocessed fuel not included as inventory.

Source: Except as noted, U.S. Energy Information Administration, *Annual Energy Review, Uranium Industry Annual 1984*, and Form EIA-858 "Uranium Industry Annual Survey" (1985); and U.S. Dept. of Energy, *Statistical Data of the Uranium Industry 1983 and Uranium Enrichment Annual Report 1982-1985* and unpublished data.

**No. 940. NUCLEAR POWER PLANTS—NUMBER OF UNITS, NET SUMMER CAPABILITY, AND NET GENERATION BY STATE: 1986**

DIVISION AND STATE	Number of units	NET SUMMER CAPABILITY		NET GENERATION		DIVISION AND STATE	Number of units	NET SUMMER CAPABILITY		NET GENERATION	
		Total (mil. kW)	Percent of total	Total (mil. kWh)	Percent of total			Total (mil. kW)	Percent of total	Total (mil. kWh)	Percent of total
U.S.	100	85.3	12.8	414,038	16.7	So. Atl.—Con.	-	-	-	-	-
N. Eng.	8	5.4	24.4	29,388	33.6	WV	-	-	-	-	-
NE	1	.8	35.2	6,242	57.3	NC	4	3.9	20.3	20,286	26.4
NH	-	-	-	-	-	SC	2	6.4	43.0	35,625	63.0
VT	1	.5	44.6	2,058	65.4	GA	7	1.5	8.6	7,238	9.7
MA	2	.8	8.5	2,420	6.0	FL	5	3.8	12.1	22,036	20.3
RI	-	-	-	-	-	E. So. Cent.	8	8.3	12.9	15,544	7.4
CT	4	3.2	45.5	18,667	58.0	KY	-	-	-	-	-
Mid. Atl.	16	14.4	19.2	76,675	26.7	TN	2	2.3	13.5	10,5	(x)
NY	5	3.7	12.4	22,084	19.8	AL	5	4.8	25.8	11,561	16.9
NJ	4	3.9	28.7	14,770	51.3	MS	1	1.1	16.1	4,087	21.5
PA	7	6.8	21.6	39,820	27.0	W. So. Cent.	4	3.7	3.9	19,513	5.7
E. No. Cent.	20	16.0	14.8	66,094	15.9	AR	2	1.7	17.8	8,876	25.3
OH	2	2.0	7.7	24	(z)	LA	2	2.0	11.8	10,637	20.1
IN	-	-	-	-	-	OK	-	-	-	-	-
IL	9	8.4	28.9	42,614	40.0	TX	-	-	-	-	-
MI	5	4.0	17.9	12,257	16.1	Mt.	3	2.7	5.8	10,028	4.9
WI	4	1.5	14.1	11,199	26.2	MT	-	-	-	-	-
W. No. Cent.	8	5.5	10.4	35,832	19.4	ID	-	-	-	-	-
MN	3	1.6	19.7	11,052	38.9	WY	-	-	-	-	-
IA	1	.5	6.4	2,893	12.4	CO	1	.2	2.9	52	.2
MO	1	1.1	7.4	7,170	13.2	NM	-	-	-	-	-
ND	-	-	-	-	-	AZ	2	2.5	20.5	9,976	19.5
SD	-	-	-	-	-	UT	-	-	-	-	-
NE	2	1.2	22.3	7,658	40.7	NV	-	-	-	-	-
KS	1	1.2	11.8	6,959	23.6	Pac.	9	8.8	10.7	41,735	15.9
So. Atl.	24	20.7	16.9	119,228	24.7	WA	2	1.9	7.8	8,438	9.1
DE	-	-	-	-	-	OR	2	1.1	9.7	7,081	14.8
MD	2	1.7	17.2	12,828	34.0	CA	6	5.6	12.7	26,215	21.5
DC	-	-	-	-	-	AK	-	-	-	-	-
VA	4	3.4	26.4	21,215	50.0	HI	-	-	-	-	-

- Represents zero. X Not applicable. Z Less than .05 percent. <sup>1</sup> Negative generation denotes that electric power consumed for plant use exceeds gross generation.

Source: U.S. Energy Information Administration, *Electric Power Annual, and Inventory of Power Plants in the United States, 1986*.

**No. 941. PRIVATELY OWNED GAS UTILITY INDUSTRY—BALANCE SHEET AND INCOME ACCOUNT: 1970 TO 1985**

[In millions of dollars. The gas utility industry consists of pipeline and distribution companies. Excludes operations of companies distributing gas in bottles or tanks. See also *Historical Statistics, Colonial Times to 1970, series S 205-218*]

ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985
<b>COMPOSITE BALANCE SHEET</b>										
Assets, total <sup>1</sup>	34,929	50,286	62,918	70,245	75,725	86,894	95,003	100,499	98,933	104,478
Total utility plant	36,341	49,384	59,039	62,710	66,767	72,917	78,479	82,038	83,118	88,121
Depreciation and amortization	10,896	16,779	22,881	24,400	26,062	28,908	31,388	34,208	35,542	36,377
Utility plant (net)	27,845	32,605	36,172	38,310	40,705	44,009	47,091	47,380	47,576	51,744
Investment and fund accounts <sup>1</sup>	3,024	9,198	12,805	14,097	15,825	19,368	20,750	21,531	21,872	23,871
Current and accrued assets	366	7,543	12,129	15,427	17,211	20,563	23,576	27,571	25,367	24,771
Deferred debts <sup>2</sup>	878	940	1,815	2,411	2,184	2,954	3,586	3,567	4,118	4,092
Liabilities, total <sup>1</sup>	34,929	50,286	62,918	70,245	75,725	86,894	95,003	100,499	98,933	104,478
Capitalization, total <sup>1</sup>	28,846	39,044	45,830	48,165	51,299	57,512	62,390	65,040	64,458	65,799
Capital stock <sup>1</sup>	12,965	19,500	25,585	27,135	29,262	33,041	36,161	38,488	38,959	39,517
Long-term debts	15,681	19,544	20,245	21,030	22,037	24,471	26,229	26,552	25,499	26,282
Current and accrued liabilities	4,832	6,158	11,704	16,024	18,107	22,134	23,809	25,150	23,043	26,125
Deferred income taxes <sup>3</sup>	788	2,052	2,991	3,798	4,144	4,272	5,473	6,537	7,000	7,769
Other liabilities and credits	663	1,032	2,393	2,257	2,175	2,276	3,331	3,772	4,432	4,785
<b>COMPOSITE INCOME ACCOUNT</b>										
Operating revenues, total	16,380	30,550	52,985	66,831	85,807	101,593	115,673	116,096	115,491	103,945
Operating expenses <sup>4</sup>	14,306	27,480	49,272	62,887	81,517	96,917	110,259	110,142	109,165	98,320
Operation and maintenance	11,836	22,857	43,108	56,281	74,433	89,108	101,548	100,495	98,953	88,572
Federal, State, and local taxes	1,569	2,763	3,980	4,294	4,653	5,056	5,694	6,508	7,146	6,590
Operating income	2,074	3,070	3,723	4,043	4,290	4,676	5,414	5,954	6,326	5,625
Utility operating income	2,159	3,221	3,944	4,296	4,633	5,087	5,819	6,303	6,647	6,030
Income before interest charges <sup>1</sup>	2,457	4,137	5,385	6,303	7,112	8,369	8,742	8,717	9,068	7,936
Net income <sup>1</sup>	1,427	2,502	3,443	4,208	4,377	5,145	5,072	5,158	5,619	3,785
Dividends	1,006	1,509	2,117	2,362	2,586	3,064	3,297	3,638	4,471	4,060

<sup>1</sup> Beginning 1975, not comparable with 1970 due to Federal Power Commission ruling requiring adoption of the equity method in reporting earnings of subsidiaries. <sup>2</sup> Includes capital stock discount and expense and required securities.

<sup>3</sup> Includes reserves for deferred income taxes. <sup>4</sup> Includes expenses not shown separately.

Source: American Gas Association, Arlington, VA, *Gas Facts*, annual. (Copyright.)

No. 942. GAS UTILITY INDUSTRY—SUMMARY: 1970 TO 1985

[Covers natural, manufactured, mixed, and liquid petroleum gas. Based on questionnaire mailed to all privately and municipally owned gas utilities in U.S., except those with annual revenues less than \$25,000. See also *Historical Statistics, Colonial Times to 1970*, series S 190-204]

ITEM	Unit	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985
<b>Customers</b> <sup>1</sup>											
Residential	1,000	41,482	44,555	45,789	46,478	47,225	47,947	48,415	48,799	49,325	49,971
Commercial	1,000	38,097	40,950	42,183	42,821	43,489	44,149	44,552	44,894	45,367	45,929
Industrial and other	1,000	3,131	3,367	3,370	3,423	3,500	3,564	3,631	3,676	3,730	3,816
<b>Sales</b> <sup>2</sup>											
Residential	Tril. Btu	16,044	14,863	14,748	15,440	15,413	15,375	14,183	12,858	13,162	12,616
Commercial	Tril. Btu	4,923	4,991	5,107	5,083	4,826	4,610	4,770	4,450	4,628	4,513
Industrial and other	Tril. Btu	8,439	6,837	6,841	7,555	7,957	8,239	6,795	5,970	5,991	5,635
<b>Revenues</b> <sup>3</sup>											
Residential	Mill. dol.	10,293	19,101	32,150	38,947	48,303	56,110	63,200	65,837	67,496	63,293
Commercial	Mill. dol.	5,207	8,445	12,939	14,833	17,432	19,180	23,700	26,173	27,485	26,864
Industrial and other	Mill. dol.	1,620	3,302	4,022	98.1	36.1	34.2	37.5	39.8	40.7	42.4
<b>Prices per mil. Btu</b> <sup>4</sup>											
Residential	Dollars	.64	1.29	2.18	2.52	3.13	3.65	4.46	5.12	5.13	5.02
Commercial	Dollars	1.06	1.69	2.53	2.92	3.61	4.16	4.87	5.88	5.94	5.95
Industrial	Dollars	.81	1.38	2.28	2.66	3.34	3.91	4.72	5.51	5.51	5.44
<b>Gas mains mileage</b>											
Field and gathering	1,000	913	980	1,013	1,030	1,052	1,070	1,083	1,095	1,102	1,110
Transmission	1,000	66	68	75	78	84	86	90	92	94	94
Distribution	1,000	252	263	261	263	266	270	272	273	272	271
<b>Construction expenditures</b> <sup>4</sup>											
Transmission	Mill. dol.	2,506	2,466	3,581	4,366	5,350	6,389	5,939	4,078	4,645	5,671
Distribution	Mill. dol.	1,019	590	935	1,226	1,583	2,352	1,921	1,065	1,301	1,562
Production and storage	Mill. dol.	913	910	1,228	1,448	1,869	1,995	1,881	1,845	2,266	2,577
	Mill. dol.	370	831	1,202	1,406	1,546	1,672	1,690	746	543	965

<sup>1</sup> Annual average. <sup>2</sup> Excludes sales for resale. <sup>3</sup> For definition, see text, section 19. <sup>4</sup> Includes general.  
Source: American Gas Association, Arlington, VA, *Gas Facts*, annual. (Copyright.)

No. 943. GAS UTILITY INDUSTRY—CUSTOMERS, SALES, AND REVENUES, BY STATE: 1985

[See headnote, table 942]

DIVISION AND STATE	CUSTOMERS <sup>1</sup> (1,000)		SALES <sup>3</sup> (tril. Btu <sup>4</sup> )		REVENUES <sup>3</sup> (mil. dol.)		DIVISION AND STATE	CUSTOMERS <sup>1</sup> (1,000)		SALES <sup>3</sup> (tril. Btu <sup>4</sup> )		REVENUES <sup>3</sup> (mil. dol.)	
	Total <sup>2</sup>	Residential	Total <sup>2</sup>	Residential	Total <sup>2</sup>	Residential		Total <sup>2</sup>	Residential	Total <sup>2</sup>	Residential	Total <sup>2</sup>	Residential
<b>U.S.</b>	49,971	45,929	12,616	4,513	63,293	26,864	<b>So. Atl.—</b>						
<b>N. Eng.</b>	1,839	1,684	349	150	2,289	1,181	Con.						
ME	15	12		(2)	19	5	VA	564	512	124	43	737	305
NH	58	50	11	5	71	34	WV	387	355	78	38	442	231
VT	18	16	5	2	30	11	NC	445	393	125	30	670	193
MA	1,130	1,042	221	94	1,389	712	SC	319	286	94	17	480	109
RI	185	170	31	15	207	118	GA	1,196	1,103	271	90	1,436	580
CT	433	394	79	34	573	301	FL	461	421	233	14	911	100
<b>Mid. Atl.</b>	8,363	7,737	1,500	732	9,466	5,251	<b>E. So. Cent.</b>	2,286	2,058	626	175	2,847	956
NY	4,024	3,759	639	327	4,198	2,489	KY	644	584	142	61	694	321
PA	1,955	1,760	335	154	2,145	1,126	MO	550	476	184	40	737	201
NJ	2,384	2,223	526	251	3,123	1,636	AL	688	635	179	47	851	292
<b>E. No. Cent.</b>	11,119	10,247	2,897	1,405	15,255	8,064	MS	404	363	141	27	555	142
OH	2,794	2,586	626	341	3,414	1,982	<b>W. So. Cent.</b>	5,848	5,334	2,330	400	9,063	2,089
IN	1,310	1,197	399	147	1,882	806	AR	531	469	143	41	560	178
IL	3,556	3,081	901	454	4,548	2,439	LA	996	928	285	61	1,119	396
MI	2,551	2,372	667	346	3,779	2,085	OK	903	814	263	78	983	345
WI	1,108	1,011	305	117	1,634	752	TX	3,418	3,129	1,839	220	6,401	1,230
<b>W. No. Cent.</b>	4,373	3,938	1,144	462	5,273	2,421	<b>Mt.</b>	3,041	2,753	655	259	3,051	1,369
MN	910	824	251	107	1,277	612	MT	189	167	44	21	204	93
IA	764	681	217	79	989	421	ID	117	101	33	8	172	54
MO	1,241	1,145	256	129	1,277	707	WY	128	114	38	14	163	70
ND	95	83	22	10	119	58	CO	1,011	904	192	30	908	460
SD	110	98	25	11	126	64	NM	367	330	75	28	351	158
NE	466	405	124	48	537	238	AZ	595	549	119	30	574	199
KS	787	702	249	78	938	321	UT	433	403	113	54	453	246
<b>So. Atl.</b>	4,405	4,026	1,095	314	5,787	2,108	NV	201	185	41	14	226	89
DE	85	79	3	6	125	44	<b>Pac.</b>	8,698	8,152	2,020	616	10,262	3,425
MD	803	746	119	64	780	452	WA	401	351	134	33	720	212
DC	145	131	28	12	206	94	OR	304	265	77	22	433	147
							CA	7,888	7,445	1,763	547	8,970	3,019
							AK	72	62	43	13	95	36
							Hl.	33	29	3	1	44	11

Z Less than 500. <sup>1</sup> Averages for the year. <sup>2</sup> Includes other service, not shown separately.  
<sup>3</sup> Excludes sales for resale. <sup>4</sup> For definition, see headnote, table 904.

Source: American Gas Association, Arlington, VA, *Gas Facts*, annual. (Copyright.)

### No. 944. WOOD ENERGY CONSUMPTION, BY REGION AND SECTOR: 1980 TO 1984

[In trillions of Btu, except percent. For composition of regions, see fig. 1, inside front cover]

YEAR	Total	Percent of total energy consumption	REGION				SECTOR			
			North-east	Mid-west	South	West	Resi-dential	Indus-trial	Com-mercial	Elec-tric utilities
1980	2,483	3.2	386	329	1,380	388	859	1,600	21	4
1981	2,412	3.2	389	331	1,291	402	869	1,519	21	3
1982	2,395	3.3	351	339	1,334	372	937	1,434	22	2
1983	2,556	3.5	363	318	1,471	396	925	1,606	22	3
1984	2,633	3.4	349	341	1,482	461	923	1,679	22	9

### No. 945. HOUSEHOLDS THAT BURN WOOD: 1980 TO 1984

[Data are not available for 1983. Based on Residential Energy Consumption Survey; see Appendix III]

ITEM	Unit	HOUSEHOLDS THAT BURN WOOD				HOUSEHOLDS THAT BURN WOOD AS MAIN HEATING FUEL			
		1980	1981	1982	1984	1980	1981	1982	1984
Number of households.....	Millions.....	21.6	22.8	21.4	22.9	4.7	5.3	5.6	6.4
Percent of all households.....	Percent.....	26.4	27.4	25.6	26.6	5.8	6.4	6.7	7.5
Number of cords burned.....	Millions.....	42.7	44.0	48.6	49.0	22.4	24.7	28.7	29.4
Average number per household.....	Number.....	2.0	1.9	2.3	2.1	4.7	4.6	5.1	4.6
Median number per household.....	Number.....	1.7	1.0	1.0	1.0	3.3	3.0	4.0	4.0
Wood energy consumption.....	Tril. Btu.....	854	881	971	981	448	493	574	589

Source of tables 944 and 945: U.S. Energy Information Administration, *Annual Energy Review*.

### No. 946. WATER POWER—DEVELOPED AND UNDEVELOPED CAPACITY, BY DIVISION: 1950 TO 1986

[In millions of kilowatts. As of Dec. 31. Excludes Alaska and Hawaii for 1950 and all capacity of reversible equipment at pumped storage projects. Also excludes capacity precluded from development due to wild and scenic river legislation. For composition of division, see fig. 1, inside front cover. See also *Historical Statistics, Colonial Times to 1970*, series S 160-175]

DIVISION	DEVELOPED INSTALLED CAPACITY							ESTIMATED UNDEVELOPED CAPACITY						
	1950	1960	1970	1975	1980	1985	1986	1950	1960	1970	1975	1980	1985	1986
U.S.....	18.7	33.2	52.0	57.0	64.4	68.8	69.6	87.6	114.2	128.0	113.7	129.9	76.4	74.4
New England.....	1.2	1.5	1.5	1.5	1.5	1.7	1.7	3.3	2.9	3.3	3.3	4.7	4.4	4.3
Middle Atlantic.....	1.7	2.5	4.3	4.2	4.3	4.5	4.6	6.6	7.6	4.5	4.3	5.1	5.4	5.2
E. No. Central.....	9	9	9	9	9	1.1	1.1	2.3	3.0	1.6	1.4	2.0	1.8	1.8
W. No. Central.....	6	1.8	2.7	2.8	2.8	2.9	3.0	5.8	6.4	4.4	2.1	3.4	3.1	3.0
South Atlantic.....	2.8	3.8	5.3	5.8	5.9	6.5	6.7	8.2	8.4	9.6	8.4	9.6	7.4	7.3
E. So. Central.....	2.7	3.8	5.2	5.5	5.6	5.9	5.9	4.7	4.6	3.8	3.1	3.3	2.7	2.9
W. So. Central.....	.5	.9	1.9	2.3	2.3	2.3	2.3	3.6	3.9	3.3	2.7	4.7	5.4	5.2
Mountain.....	2.3	4.6	6.2	6.9	7.4	8.1	8.2	23.4	23.6	26.7	19.6	34.2	19.4	19.2
Pacific.....	6.0	13.6	23.9	27.2	33.7	35.8	36.1	29.8	53.8	70.9	68.8	62.9	26.8	26.1

Source: U.S. Federal Energy Regulatory Commission, (formerly U.S. Federal Power Commission), *Hydroelectric Power Resources of the United States, Developed and Undeveloped*, January 1, 1984; and unpublished data.

### No. 947. SOLAR COLLECTOR SHIPMENTS, BY TYPE, END-USE, AND MARKET SECTOR: 1974 TO 1986

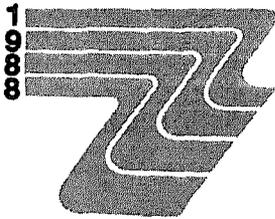
[In thousands of square feet, except number of manufacturers. Solar collector is a device for intercepting sunlight, converting the sunlight to heat, and carrying the heat to where it will be either used or stored. 1985 data are not available]

YEAR	Number of manu-facturers	Total ship-ments <sup>1</sup>	COLLECTOR TYPE		END USE			MARKET SECTOR		
			Low temper-ature	Medium temper-ature, special, other	Pool heating	Hot water	Space heating	Resi-dential	Com-mercial	Indus-trial
1974	45	1,274	1,137	137	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1975	131	3,743	3,026	717	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1976	186	5,801	3,876	1,925	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1977	321	10,312	4,743	5,569	6,334	1,713	1,699	7,978	1,680	105
1978	340	10,860	5,872	4,988	5,970	2,513	1,736	8,095	1,848	263
1979	349	14,251	8,395	5,857	8,551	2,958	1,722	11,387	2,015	314
1980	233	19,398	12,233	7,165	12,029	4,790	1,688	16,077	2,417	488
1981	203	20,133	8,677	11,456	9,781	7,204	2,017	15,773	2,561	1,518
1982	265	18,621	7,476	11,145	7,035	7,444	2,367	13,729	3,789	560
1983	203	16,828	4,853	11,975	4,839	9,323	2,082	11,780	3,039	1,665
1984	224	16,419	4,479	11,939	4,427	8,930	2,370	13,980	2,081	289
1986 <sup>2</sup>	97	4,862	3,751	1,111	3,494	1,161	127	4,131	703	13

NA Not available. <sup>1</sup> Includes other end uses and market sectors not shown separately. 1986 are primarily due to the expiration of the Federal energy tax credit and industry consolidation.

<sup>2</sup> Declines between 1984 and 1986

Source: U.S. Energy Information Administration, *Solar Collector Manufacturing Activity*, annual.



This section presents statistics on scientific, engineering, and technological resources, with emphases on patterns of research and development (R&D) funding and on scientific, engineering, and technical personnel, education, and employment. Also included are statistics on space program outlays and accomplishments. Principal sources of these data are the National Science Foundation (NSF) and the National Aeronautics and Space Administration (NASA).

NSF gathers data chiefly through recurring surveys. Current NSF publications containing data on funds for research and development and on scientific and engineering personnel include *Science Resources Studies Highlights*; and annual, biennial, and special reports such as *Federal Funds for Research and Development*; *Research and Development in Industry*; *National Patterns of Science and Technology Resources*; *Academic Science/Engineering: R&D Funds, Scientists and Engineers, Graduate Enrollment and Support*; *Federal Support to Universities, Colleges, and Selected Nonprofit Institutions*; *Characteristics of Doctoral Scientists and Engineers in the United States*; *U.S. Scientists and Engineers*; *Employment Attitudes of Recent Science and Engineering Graduates*; *Science and Engineering Employment*; *Characteristics of Experienced Scientists and Engineers*; *Scientists, Engineers, and Technicians in Private Industry*; *Science and Engineering Personnel: A National Overview*; *Science and Technology Data Book*; *Women and Minorities in Science and Engineering*; and policy reports relating to national allocation of human resources and funds to science and technology. Statistical surveys in these areas pose particularly difficult problems of concept and definition and the data should, therefore, be regarded as broad estimates rather than precise quantitative statements. Detailed discussions of the scope and limitations of the data appear in the source publications.

The National Science Board's biennial *Science Indicators* publication contains data and analyses of international and domestic science and technology, including measures of inputs and outputs. *The Budget of the United States Government*, published by the U.S. Office of Management and Budget, contains summary financial data on Federal R&D programs.

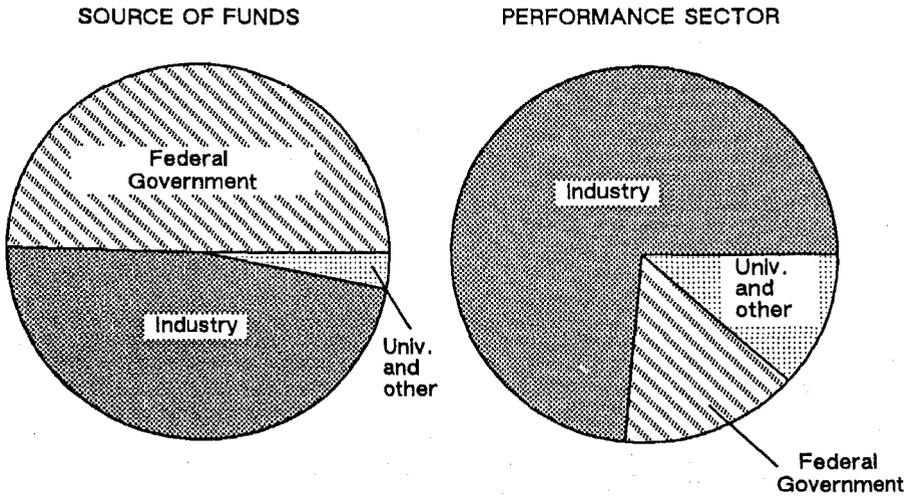
**Research and development outlays.**—NSF defines research as a “systematic and intensive study directed toward a fuller knowledge of the subject studied” and development as “the systematic use of scientific knowledge directed toward the production of useful materials, devices, systems, methods, or processes.” National coverage of R&D expenditures is developed primarily from periodic surveys in four principal economic sectors: (1) *Government*, made up primarily of Federal executive agencies; (2) *industry*, consisting of manufacturing and nonmanufacturing firms and the federally funded research and development centers (FFRDC's) they administer; (3) *universities and colleges*, composed of universities, colleges, and their affiliated institutions, agricultural experiment stations, and associated schools of agriculture, and FFRDC's administered by educational institutions; and (4) *other nonprofit institutions*, consisting of such organizations as private philanthropic foundations, nonprofit research institutes, voluntary health agencies, and FFRDC's administered by nonprofit organizations. The R&D funds reported consist of current operating costs, including planning and administration costs, except as otherwise noted. They exclude funds for routine testing, mapping and surveying, collection of general-purpose data, dissemination of scientific information, and training of scientific personnel.

**Scientists, engineers, and technicians.**—Scientists and engineers are defined as persons engaged in scientific and engineering work at a level requiring a knowledge of sciences equivalent at least to that acquired through completion of a 4-year college course. Technicians are defined as persons engaged in technical work at a level requiring knowledge acquired through a technical institute, junior college, or other type of training less extensive than 4-year college training. Craftsmen and skilled workers are excluded.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

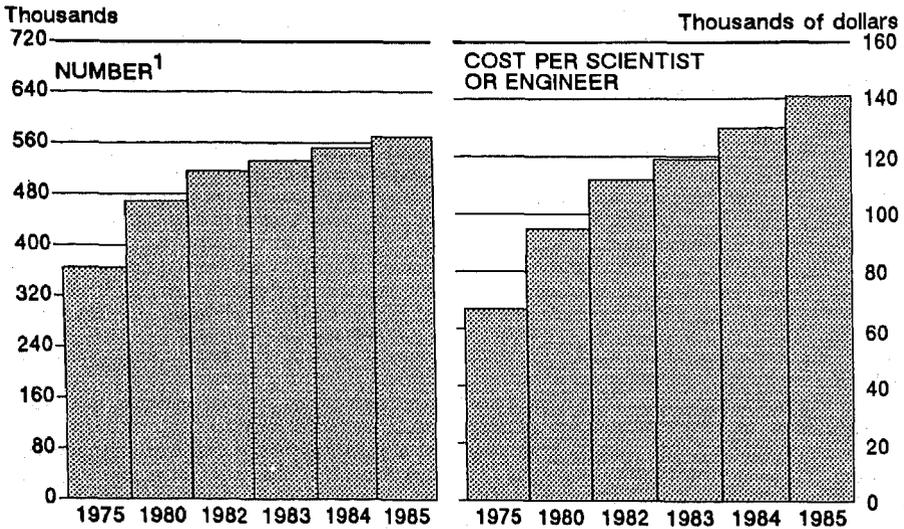
**Statistics for States and metropolitan statistical areas (MSAs).**—Data for States and MSAs may also be found in *State and Metropolitan Area Data Book 1986*. For cross-references, see Appendix V.

Figure 20.1  
**Research and Development Funds—Percent Distribution: 1987**



Source: Chart prepared by U.S. Bureau of the Census. For data see table 949.

Figure 20.2  
**Research and Development Scientists and Engineers in Private Industry: 1975 to 1985**



<sup>1</sup> Average full-time equivalent employment.

Source: Chart prepared by U.S. Bureau of the Census. For data see table 963.

No. 948. RESEARCH AND DEVELOPMENT (R&D)—OUTLAYS: 1955 TO 1987

[Includes basic research, applied research, and development. Defense-related outlays comprise all research and development spending by Dept. of Defense, including space activities, and a portion of Department of Energy funds. Space-related outlays are those of the National Aeronautics and Space Administration; they exclude space activities of other Federal agencies, estimated at less than 5 percent of all space research and development spending. Minus sign (-) indicates decrease]

YEAR OR PERIOD	CURRENT DOLLARS (bil. dol.)			CONSTANT (1982) DOLLARS		ANNUAL PERCENT CHANGE <sup>3</sup>		PERCENT OF TOTAL R & D OUTLAYS					
	Total <sup>1</sup>	De- fense space relat- ed	Other	Total (bil. dol.)	Per- cent of GNP <sup>2</sup>	Cur- rent dol- lars	Con- stant dol- lars	Federally funded defense/space- related			Other outlays		
								Total	De- fense	Space	Total	Non- Fed- eral	Fed- eral
1955	6.2	3.0	3.1	22.8	1.5	9.4	6.1	49	48	1	51	43	8
1960	13.5	7.4	6.1	43.6	2.6	13.8	11.4	55	52	3	45	35	9
1961	14.3	8.0	6.3	45.8	2.7	5.9	4.8	56	50	6	44	35	9
1962	15.4	8.5	6.9	48.2	2.7	7.5	5.3	55	48	7	45	36	9
1963	17.1	9.4	7.7	52.6	2.8	10.3	9.2	55	41	14	45	34	11
1964	18.9	10.6	8.3	57.2	2.9	10.5	8.8	56	37	19	44	34	9
1965	20.0	10.8	9.2	59.4	2.8	6.3	3.8	54	33	21	46	35	11
1966	21.8	11.4	10.5	62.6	2.8	9.0	5.5	52	33	19	48	36	12
1967	23.1	11.3	11.8	64.4	2.8	6.0	2.9	49	35	14	51	38	13
1968	24.6	11.8	12.8	65.5	2.8	6.3	1.6	48	35	13	52	39	13
1969	25.6	11.5	14.1	64.7	2.7	4.2	-1.2	45	34	11	55	42	13
1970	26.1	11.2	14.9	62.4	2.6	2.0	-3.5	43	33	10	57	43	14
1971	26.7	10.9	15.7	60.4	2.4	2.1	-3.2	41	32	9	59	44	15
1972	28.5	11.7	16.6	61.4	2.4	6.8	1.7	41	32	9	59	44	15
1973	30.7	11.7	19.0	62.4	2.3	7.9	1.6	38	30	8	62	47	15
1974	32.9	11.5	21.4	61.5	2.2	7.0	-1.5	35	27	8	65	49	16
1975	35.2	12.0	23.2	59.9	2.2	7.1	-2.6	34	26	8	66	49	17
1976	39.0	13.3	25.7	62.1	2.2	10.8	3.8	34	26	8	66	49	17
1977	42.8	14.1	28.7	63.7	2.2	9.6	2.4	33	25	8	67	50	17
1978	48.1	14.9	33.2	66.8	2.1	12.5	4.9	31	24	7	69	50	19
1979	54.9	16.5	38.5	70.1	2.2	14.1	5.0	30	23	7	70	51	19
1980	62.6	18.2	44.5	73.2	2.3	13.9	4.5	29	22	7	71	53	18
1981	71.8	21.6	50.3	76.2	2.4	14.8	3.9	30	23	7	70	54	16
1982	79.3	25.4	53.9	79.3	2.5	10.4	3.5	32	25	7	68	54	14
1983	87.2	29.6	57.6	83.9	2.6	9.9	5.8	34	27	7	66	53	13
1984	97.6	33.2	64.4	90.5	2.6	12.0	7.9	34	28	6	66	54	12
1985	107.5	39.8	67.7	96.6	2.7	10.1	6.6	37	31	6	63	52	11
1986	116.8	45.5	71.3	102.2	2.8	8.7	5.9	39	32	7	61	51	10
1987, est.	124.2	48.5	75.7	105.4	2.8	8.4	3.1	39	32	7	61	51	10

<sup>1</sup> Includes revisions not shown in detail. <sup>2</sup> GNP=Gross national product. <sup>3</sup> Change from prior year shown; 1955 change from 1954.

Source: U.S. National Science Foundation, *National Patterns of Science and Technology Resources*, annual, and unpublished data.

No. 949. RESEARCH AND DEVELOPMENT (R&D)—SOURCE OF FUNDS AND PERFORMANCE SECTOR: 1960 TO 1987

[In millions of dollars. See headnote, table 950]

YEAR	Total	SOURCE OF FUNDS					PERFORMANCE SECTOR				
		Federal Govt.	Indus- try	Univ., col- leges	Other <sup>1</sup>	Federal Govt.	Indus- try	Univ., col- leges	Associat- ed FFRDC's <sup>1</sup>	Other <sup>2</sup>	
<b>Current dollars:</b>											
1960	13,523	8,738	4,516	149	120	1,726	10,509	646	360	282	
1970	26,134	14,892	10,444	481	337	4,079	18,067	2,335	737	916	
1975	35,213	18,109	15,820	749	535	5,354	24,187	3,409	987	1,276	
1980	62,593	29,451	30,911	1,323	908	7,832	44,505	6,060	2,246	2,150	
1981	71,840	33,405	35,944	1,520	971	8,425	51,810	6,819	2,486	2,300	
1982	79,316	36,505	40,096	1,690	1,025	9,141	57,995	7,276	2,479	2,425	
1983	87,204	40,671	43,515	1,881	1,137	10,582	63,403	7,807	2,737	2,675	
1984	97,639	45,341	49,068	2,024	1,208	11,572	71,471	8,503	3,118	2,975	
1985	107,462	51,330	52,569	2,259	1,304	12,998	78,181	9,504	3,529	3,250	
1986	116,793	57,219	55,699	2,500	1,375	13,533	85,660	10,800	3,600	3,400	
1987, est.	124,250	61,350	58,770	2,700	1,430	15,000	90,700	11,150	3,800	3,600	
<b>Constant (1982) dollars:</b>											
1960	43,648	28,191	14,591	479	387	5,548	33,955	2,077	1,157	911	
1970	62,405	35,636	24,851	1,111	807	9,834	42,986	5,629	1,777	2,179	
1975	59,883	30,986	26,679	1,302	916	8,308	40,781	5,927	1,716	2,151	
1980	73,235	34,546	36,064	1,581	1,065	9,006	51,919	7,151	2,650	2,508	
1981	76,610	35,885	38,257	1,631	1,037	9,039	55,140	7,316	2,687	2,448	
1982	79,316	36,505	40,096	1,690	1,025	9,141	57,995	7,276	2,479	2,425	
1983	83,891	39,087	41,896	1,805	1,093	10,153	61,047	7,490	2,826	2,576	
1984	90,542	42,008	45,544	1,871	1,119	10,696	66,343	7,859	2,982	2,782	
1985	96,556	46,078	47,285	2,023	1,170	11,838	70,326	8,509	3,160	2,823	
1986	102,236	50,024	48,834	2,177	1,201	11,783	75,107	9,229	3,135	2,981	
1987, est.	105,364	52,003	49,863	2,286	1,212	12,698	76,956	9,439	3,217	3,054	

<sup>1</sup> Federally-funded R&D centers. <sup>2</sup> Nonprofit institutions.

Source: U.S. National Science Foundation, *National Patterns of Science and Technology Resources*, annual.

**NO. 950. RESEARCH AND DEVELOPMENT (R&D) FUNDS, BY PERFORMANCE SECTOR AND SOURCE:  
1970 TO 1987**

[In millions of dollars, except percent. Data primarily on calendar year basis—calendar year data for industry and other nonprofit institutions combined with Federal and university fiscal year data. Data refer, in general, to natural sciences including engineering, and to social sciences in all but industry sector. Excludes capital expenditures data. Expenditures at associated federally funded research and development centers administered by industry and other nonprofit institutions included in totals of respective sectors. See also *Historical Statistics, Colonial Times to 1970*, series W 109-125]

PERFORMANCE SECTOR AND SOURCE OF FUNDS	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987, est.
<b>Total R&amp;D</b> <sup>1</sup>	<b>26,134</b>	<b>35,213</b>	<b>62,593</b>	<b>71,940</b>	<b>79,316</b>	<b>87,204</b>	<b>97,639</b>	<b>107,462</b>	<b>116,793</b>	<b>124,250</b>
In 1982 dollars	82,405	59,883	73,235	76,610	79,316	83,891	90,542	96,556	102,236	105,364
Percent Federal as source	57.0	51.4	47.1	46.5	46.0	46.6	46.4	47.8	49.0	49.4
Percent of gross national product	2.6	2.2	2.3	2.4	2.5	2.6	2.6	2.7	2.8	2.8
<b>Federal Government</b>	<b>4,079</b>	<b>5,354</b>	<b>7,832</b>	<b>8,425</b>	<b>9,141</b>	<b>10,582</b>	<b>11,572</b>	<b>12,998</b>	<b>13,533</b>	<b>15,000</b>
<b>Industry</b>	<b>18,067</b>	<b>24,187</b>	<b>44,505</b>	<b>51,810</b>	<b>67,995</b>	<b>83,403</b>	<b>71,471</b>	<b>78,181</b>	<b>85,860</b>	<b>90,700</b>
Federal funds	7,779	8,605	14,029	16,382	18,483	20,542	23,163	26,485	30,936	33,000
Industry funds	10,288	15,582	30,476	35,428	49,512	42,861	48,308	51,696	54,724	57,700
<b>Universities and colleges</b>	<b>2,335</b>	<b>3,409</b>	<b>6,060</b>	<b>6,819</b>	<b>7,276</b>	<b>7,807</b>	<b>8,503</b>	<b>9,504</b>	<b>10,600</b>	<b>11,150</b>
Federal funds	1,648	2,288	4,096	4,562	4,752	4,960	5,388	6,003	6,750	7,000
Industry funds	61	113	237	291	334	379	458	536	600	670
University and college funds <sup>2</sup>	461	749	1,318	1,520	1,690	1,861	2,024	2,259	2,500	2,700
Other nonprofit institutions funds <sup>3</sup>	165	259	409	446	500	587	633	704	750	780
<b>Universities and colleges, associated federally funded R&amp;D centers</b>	<b>737</b>	<b>987</b>	<b>2,246</b>	<b>2,486</b>	<b>2,479</b>	<b>2,737</b>	<b>3,118</b>	<b>3,529</b>	<b>3,600</b>	<b>3,900</b>
<b>Other nonprofit institutions</b>	<b>916</b>	<b>1,276</b>	<b>2,150</b>	<b>2,300</b>	<b>2,425</b>	<b>2,675</b>	<b>2,975</b>	<b>3,250</b>	<b>3,400</b>	<b>3,600</b>
Federal funds	649	875	1,450	1,550	1,650	1,850	2,100	2,315	2,400	2,550
Industry funds	95	125	200	225	250	275	300	335	375	400
Other <sup>3</sup>	172	276	500	525	525	550	575	600	625	650
<b>Total research, basic and applied</b>	<b>9,269</b>	<b>12,471</b>	<b>22,129</b>	<b>26,057</b>	<b>28,455</b>	<b>31,409</b>	<b>33,521</b>	<b>36,546</b>	<b>39,329</b>	<b>40,910</b>
In 1982 dollars	22,198	21,358	25,962	27,836	28,455	30,194	31,058	32,806	34,379	34,676
Percent Federal as source	60.1	56.8	54.9	52.5	51.9	52.6	53.0	53.5	53.8	53.0
<b>Federal Government</b>	<b>1,904</b>	<b>2,464</b>	<b>3,866</b>	<b>4,034</b>	<b>4,194</b>	<b>4,710</b>	<b>4,764</b>	<b>5,109</b>	<b>5,108</b>	<b>5,200</b>
<b>Industry</b>	<b>4,029</b>	<b>5,300</b>	<b>9,775</b>	<b>12,313</b>	<b>14,055</b>	<b>15,676</b>	<b>16,802</b>	<b>18,319</b>	<b>19,971</b>	<b>20,875</b>
Federal funds	1,207	1,287	2,190	2,641	3,390	4,061	4,626	5,269	6,178	6,275
Industry funds	2,822	4,013	7,585	9,672	10,725	11,595	12,176	13,030	13,793	14,600
<b>Universities and colleges</b>	<b>2,223</b>	<b>3,261</b>	<b>5,717</b>	<b>6,442</b>	<b>6,861</b>	<b>7,370</b>	<b>8,028</b>	<b>8,949</b>	<b>10,000</b>	<b>10,450</b>
Federal funds	1,564	2,210	3,888	4,337	4,517	4,715	5,118	5,683	6,400	6,605
Industry funds	56	106	217	265	304	348	423	488	550	595
University and college funds <sup>2</sup>	448	702	1,228	1,419	1,570	1,755	1,894	2,114	2,340	2,510
Other nonprofit institutions funds <sup>3</sup>	155	243	384	421	470	552	593	664	710	740
<b>Universities and colleges, associated federally funded R&amp;D centers</b>	<b>485</b>	<b>573</b>	<b>1,486</b>	<b>1,663</b>	<b>1,665</b>	<b>1,833</b>	<b>2,002</b>	<b>2,144</b>	<b>2,200</b>	<b>2,300</b>
<b>Other nonprofit institutions</b>	<b>628</b>	<b>873</b>	<b>1,485</b>	<b>1,605</b>	<b>1,680</b>	<b>1,820</b>	<b>1,925</b>	<b>2,025</b>	<b>2,050</b>	<b>2,085</b>
Federal funds	409	545	930	1,010	1,075	1,180	1,250	1,310	1,290	1,290
Industry funds	77	103	160	180	200	220	240	265	295	315
Other <sup>3</sup>	142	225	395	415	405	420	435	450	465	480
<b>Total basic research</b>	<b>3,549</b>	<b>4,608</b>	<b>8,079</b>	<b>9,180</b>	<b>9,937</b>	<b>11,058</b>	<b>12,076</b>	<b>13,222</b>	<b>14,309</b>	<b>14,815</b>
In 1982 dollars	8,527	7,951	9,506	9,828	9,937	10,620	11,176	11,854	12,484	12,550
Percent of total R&D	13.6	13.1	12.9	12.8	12.5	12.7	12.4	12.3	12.3	11.9
Percent Federal as source	70.1	68.1	68.8	67.7	66.9	65.8	65.4	65.1	65.1	64.7
<b>Federal Government</b>	<b>577</b>	<b>734</b>	<b>1,182</b>	<b>1,302</b>	<b>1,465</b>	<b>1,690</b>	<b>1,861</b>	<b>1,961</b>	<b>2,000</b>	<b>2,000</b>
<b>Industry</b>	<b>602</b>	<b>730</b>	<b>1,325</b>	<b>1,614</b>	<b>1,880</b>	<b>2,171</b>	<b>2,515</b>	<b>2,731</b>	<b>2,959</b>	<b>3,125</b>
Federal funds	158	157	290	301	380	464	547	625	730	775
Industry funds	444	573	1,035	1,313	1,500	1,707	1,968	2,106	2,229	2,350
<b>Universities and colleges</b>	<b>1,796</b>	<b>2,410</b>	<b>4,026</b>	<b>4,576</b>	<b>4,857</b>	<b>5,269</b>	<b>5,838</b>	<b>6,377</b>	<b>7,100</b>	<b>7,370</b>
Federal funds	1,296	1,694	2,853	3,250	3,396	3,538	3,782	4,255	4,750	4,920
Industry funds	40	72	137	170	198	228	279	345	375	390
University and college funds <sup>2</sup>	350	478	800	906	982	1,144	1,214	1,362	1,530	1,600
Other nonprofit institutions funds <sup>3</sup>	110	166	236	250	281	359	363	415	445	460
<b>Universities and colleges, associated federally funded R&amp;D centers</b>	<b>269</b>	<b>309</b>	<b>786</b>	<b>863</b>	<b>870</b>	<b>983</b>	<b>1,052</b>	<b>1,078</b>	<b>1,150</b>	<b>1,200</b>
<b>Other nonprofit institutions</b>	<b>305</b>	<b>425</b>	<b>760</b>	<b>825</b>	<b>865</b>	<b>945</b>	<b>1,010</b>	<b>1,075</b>	<b>1,100</b>	<b>1,120</b>
Federal funds	189	245	450	495	535	600	650	695	690	690
Industry funds	44	60	95	105	115	125	135	150	170	180
Other <sup>3</sup>	72	120	215	225	215	220	225	230	240	250
<b>Total development</b>	<b>16,865</b>	<b>22,742</b>	<b>40,464</b>	<b>45,783</b>	<b>50,861</b>	<b>55,795</b>	<b>64,118</b>	<b>70,916</b>	<b>77,464</b>	<b>83,340</b>
In 1982 dollars	40,208	38,525	47,273	48,774	50,861	53,687	59,484	63,749	67,857	70,688
Percent of total R&D	64.5	64.6	64.6	63.7	64.1	64.0	65.7	66.0	66.3	67.1
Percent Federal as source	55.3	48.5	42.7	43.1	42.7	43.3	43.0	44.8	46.5	47.6

<sup>1</sup> Basic research, applied research, and development. <sup>2</sup> Includes State and local government funds received by these institutions and used for research and development. <sup>3</sup> Includes estimates for independent nonprofit hospitals and voluntary health agencies.

Source: U.S. National Science Foundation, *National Patterns of Science and Technology Resources*, annual.

**NO. 951. FEDERAL FUNDING FOR RESEARCH AND DEVELOPMENT, BY BUDGET FUNCTION: 1976 TO 1988**

[In millions of dollars. For fiscal years ending in year shown; see text, section 9. Excludes R&D plant. Data for 1976 are shown in obligations; thereafter, are shown in budget authority. See *Historical Statistics, Colonial Times to 1970*, series W 126, for total obligations]

FUNCTION	1976	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987, est.	1988, est.
<b>Total<sup>1</sup></b>	<b>20,780</b>	<b>25,976</b>	<b>28,208</b>	<b>29,739</b>	<b>33,735</b>	<b>36,115</b>	<b>38,768</b>	<b>44,214</b>	<b>49,887</b>	<b>53,192</b>	<b>58,148</b>	<b>67,576</b>
National defense	10,430	12,899	13,791	14,946	18,413	22,070	24,936	29,287	33,698	36,926	40,260	47,056
Health	2,351	2,988	3,401	3,694	3,871	3,869	4,298	4,779	5,418	5,565	6,608	8,649
Space research and technology	3,130	2,939	3,136	2,738	3,111	2,584	2,134	2,300	2,725	2,894	3,344	3,942
General science	858	1,050	1,119	1,293	1,340	1,359	1,502	1,676	1,862	1,873	2,041	2,332
Energy	1,649	3,134	3,461	3,603	3,501	3,012	2,578	2,581	2,389	2,286	2,155	1,944
Transportation	631	768	798	887	869	791	876	1,040	1,030	917	889	904
Natural resources and environment	883	904	1,010	999	1,061	965	952	963	1,059	1,062	1,083	1,029
Agriculture	383	501	552	585	659	693	745	782	836	815	865	839
Education, training, employment <sup>2</sup>	255	345	354	468	298	228	189	200	220	248	253	225
International affairs	42	57	117	125	160	165	177	192	210	211	217	233
Veterans benefits and services	98	111	123	126	143	139	157	218	193	183	215	201
Commerce and housing credit	69	77	93	101	106	104	107	110	114	111	112	119
Administration of justice	35	44	47	45	34	31	37	24	47	41	42	42
Community and regional develop	109	92	127	119	104	63	44	46	50	32	29	28

<sup>1</sup> Includes functions not shown separately.      <sup>2</sup> Includes social services.

Source: U.S. National Science Foundation, *Federal R&D Funding by Budget Function*, annual.

**NO. 952. FEDERAL OBLIGATIONS FOR RESEARCH, BY FIELD OF SCIENCE: 1976 TO 1987**

[In millions of dollars. For fiscal years ending in year shown; see text, section 9. See headnote, table 951]

FIELD	1976	1978	1979	1980	1981	1982	1983	1984	1985	1986, est.	1987, est.
<b>Research, total</b>	<b>7,619</b>	<b>9,607</b>	<b>10,535</b>	<b>11,597</b>	<b>12,213</b>	<b>13,022</b>	<b>14,254</b>	<b>14,979</b>	<b>16,130</b>	<b>16,455</b>	<b>16,841</b>
Basic	2,766	3,699	4,193	4,674	5,041	5,482	6,260	7,067	7,819	8,145	8,348
Applied	4,852	5,908	6,342	6,923	7,172	7,540	7,993	7,911	8,311	8,310	8,493
Life sciences	2,650	3,427	3,848	4,192	4,436	4,746	5,178	5,638	6,366	6,458	6,289
Engineering	2,069	2,421	2,572	2,830	3,072	3,387	3,517	3,624	3,629	3,664	3,858
Physical sciences	1,259	1,646	1,793	2,001	2,221	2,500	2,891	2,969	3,044	3,072	3,300
Environmental sciences	789	1,025	1,101	1,261	1,121	1,148	1,251	1,276	1,404	1,458	1,483
Mathematics, computer sciences	158	216	210	241	279	350	419	440	578	665	759
Social sciences	393	490	527	524	497	366	435	436	462	435	460
Economics	138	163	182	193	207	157	168	147	160	147	163
Psychology	144	177	197	199	209	218	241	267	319	326	318
Other sciences	179	206	287	350	379	287	320	331	329	357	373

Source: U.S. National Science Foundation, *Federal Funds for Research and Development*, annual.

**NO. 953. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY AGENCY: 1976 TO 1987**

[In millions of dollars except percent. For fiscal years ending in year shown; see text, section 9. See *Historical Statistics, Colonial Times to 1970*, series W 142, for total R&D expenditures. Minus sign (-) indicates decline]

AGENCY	1976	1981	1982	1983	1984	1985	1986, est.	1987, est.	PERCENT CHANGE	
									1985-86	1986-87
<b>Obligations, total</b>	<b>20,780</b>	<b>33,104</b>	<b>36,433</b>	<b>36,712</b>	<b>42,225</b>	<b>46,332</b>	<b>52,062</b>	<b>59,210</b>	<b>7.7</b>	<b>13.7</b>
Dept. of Defense	9,655	16,509	20,623	22,993	25,373	29,792	33,646	40,679	12.9	20.9
National Aeronautics and Space Administration	3,447	3,593	3,078	2,662	2,822	3,327	3,978	3,926	4.5	12.9
Dept. of Commerce	229	328	336	335	358	399	391	301	-2.0	-23.0
Dept. of Energy	<sup>1</sup> 2,464	4,918	4,708	4,537	4,674	4,966	4,692	4,771	-5.5	1.7
Dept. of Health and Human Services	<sup>2</sup> 2,461	3,927	3,941	4,353	4,831	5,451	5,611	5,271	2.9	-6.1
National Science Foundation	609	962	975	1,082	1,203	1,346	1,334	1,508	-9.9	13.0
Dept. of Agriculture	462	774	797	848	866	943	823	909	-2.1	-1.5
Dept. of Transportation	295	416	310	348	448	402	335	246	-16.7	-26.6
Dept. of the Interior	333	427	381	383	411	392	368	351	-1.0	-9.5
Environmental Protection Agency	259	326	335	241	261	320	334	314	4.4	-7.2
Nuclear Regulatory Commission	88	220	220	207	181	150	135	114	-10.0	-15.6
Veterans Administration	98	144	137	161	190	227	186	184	-18.1	4.3
Agency for International Development	36	134	200	227	237	220	221	238	5.5	7.7
Dept. of Education	123	105	128	112	116	125	131	117	4.8	-10.7
Other agencies	219	322	263	243	244	274	258	277	-5.8	7.4

<sup>1</sup> Energy Research and Development Administration.      <sup>2</sup> Health, Education, and Welfare. See table 502 for complete list of agencies.      <sup>3</sup> Includes National Institute of Education, Office of the Assistant Secretary for Education and Office of Education.

Source: U.S. National Science Foundation, *Federal Funds for Research and Development*, annual.

**NO. 954. FUNDS FOR PERFORMANCE OF INDUSTRIAL RESEARCH AND DEVELOPMENT (R&D), BY INDUSTRY: 1970 TO 1985**

[In millions of dollars. Covers basic research, applied research, and development. See also *Historical Statistics, Colonial Times to 1970*, series W 144-160]

SIC <sup>1</sup> code	INDUSTRY	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985
	<b>Total</b> <sup>2</sup>	<b>18,067</b>	<b>24,187</b>	<b>33,304</b>	<b>38,226</b>	<b>44,505</b>	<b>51,810</b>	<b>57,996</b>	<b>63,403</b>	<b>71,677</b>	<b>80,121</b>
372, 376	Aircraft and missiles.....	5,219	5,713	7,536	8,041	9,198	11,968	13,658	13,853	16,076	17,801
36	Electrical equipment.....	4,220	5,105	6,507	7,824	9,175	10,329	11,642	13,950	15,662	17,313
35	Machinery.....	1,729	3,196	4,283	4,825	5,901	6,818	7,835	8,386	9,671	11,037
28	Chemicals and allied products.....	1,773	2,727	3,580	4,038	4,636	5,625	6,659	7,293	8,024	8,875
371, 372-75, 379	Motor vehicles, transportation equipment <sup>3</sup> .....	1,591	2,430	4,010	4,668	5,117	4,970	4,970	5,500	6,340	7,308
38	Professional and scientific instruments.....	744	1,173	1,988	2,505	3,029	3,614	4,019	4,444	4,851	5,420
29	Petroleum refining.....	515	693	1,060	1,282	1,552	(D)	(D)	(D)	(D)	(D)
33	Primary metals.....	275	443	560	634	728	878	1,000	1,115	(D)	(D)
30	Rubber products.....	278	467	493	577	656	(D)	(D)	(D)	(D)	1,187
34	Fabricated metal products.....	207	324	384	455	550	624	568	604	716	697
20	Food and kindred products.....	230	335	472	528	620	(D)	(D)	(D)	(D)	(D)
26	Paper and allied products.....	178	249	387	445	495	(D)	626	(D)	(D)	(D)
32	Stone, clay, and glass products.....	167	233	324	356	406	(D)	(D)	(D)	(D)	(D)

D Withheld to avoid disclosure. <sup>1</sup> Standard Industrial Classification. See text, section 13. <sup>2</sup> Includes industries not available separately. <sup>3</sup> Estimated beginning 1981.

Source: U.S. National Science Foundation, *Research and Development in Industry*, annual.

**NO. 955. COMPANIES PERFORMING RESEARCH AND DEVELOPMENT (R&D)—SELECTED DATA, BY INDUSTRY GROUP: 1975 TO 1984**

SIC <sup>1</sup> code	INDUSTRY GROUP	R & D FUNDS (mil. dol.)				R & D FUNDS AS PERCENT OF NET SALES				R & D SCIENTISTS/ENGINEERS <sup>3</sup> (1,000)			
		1975	1980	1984	1985	1975	1980	1984	1985	1975	1980	1984	1985
	<b>Total</b> <sup>2</sup>	<b>24,187</b>	<b>44,505</b>	<b>71,677</b>	<b>80,121</b>	<b>3.1</b>	<b>3.0</b>	<b>3.8</b>	<b>4.2</b>	<b>363.3</b>	<b>450.6</b>	<b>544.5</b>	<b>560.2</b>
372, 376	Aircraft and missiles.....	5,713	9,198	16,076	17,801	12.7	13.7	16.9	17.5	67.5	85.9	96.5	103.8
36	Electrical equipment.....	5,105	9,175	15,662	17,313	6.5	6.6	7.5	8.0	82.6	94.5	116.1	115.3
35	Machinery.....	3,196	5,901	9,671	11,037	4.8	5.0	6.0	6.8	52.8	62.1	75.0	77.3
28	Chemicals and allied products.....	2,727	4,636	8,024	8,875	3.7	3.6	4.6	4.8	45.2	51.4	67.1	67.0
371, 372-75, 379	Motor vehicles, transportation equipment <sup>4</sup> .....	2,430	5,117	6,340	7,308	3.3	3.9	3.4	3.6	27.9	39.7	30.5	31.7
38	Professional and scientific instruments.....	1,173	3,029	4,851	5,420	5.9	7.5	9.2	10.3	17.9	32.8	(D)	(D)
29	Petroleum refining.....	693	1,552	(D)	(D)	7	8	(D)	(D)	8.4	10.8	13.2	13.4
33	Primary metals.....	443	728	(D)	(D)	8	7	(D)	(D)	6.3	8.1	8.5	9.5
30	Rubber products.....	467	656	(D)	1,187	2.5	2.2	(D)	3.0	8.4	(D)	(D)	(D)
34	Fabricated metal products.....	324	550	716	697	1.2	1.4	1.5	1.4	7.4	7.8	12.9	(D)
20	Food and kindred products.....	335	620	(D)	(D)	.4	.4	(D)	(D)	6.8	7.2	7.6	(D)
26	Paper and allied products.....	249	495	(D)	(D)	.9	1.0	(D)	(D)	5.0	7.4	7.9	8.7
32	Stone, clay, and glass products.....	233	406	(D)	(D)	1.2	1.4	(D)	(D)	4.5	5.4	4.6	4.9

D Withheld to avoid disclosure. <sup>1</sup> Standard Industrial Classification. <sup>2</sup> As of January. <sup>3</sup> Includes industries not available. <sup>4</sup> Estimated beginning 1984.

Source: U.S. National Science Foundation, *Research and Development in Industry*, annual.

**NO. 956. FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES: 1970 TO 1985**

[In millions of dollars, except percent. For fiscal years ending in year shown; see text, section 9. Total and nonscience/engineering activities for 1981-1983 are estimates based on revised student aid data from the Dept. of Education. Minus sign (-) indicates decrease]

ITEM	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985
<b>Federal obligations, total</b> .....	<b>3,237</b>	<b>4,547</b>	<b>6,490</b>	<b>7,472</b>	<b>7,604</b>	<b>8,298</b>	<b>8,640</b>	<b>8,776</b>	<b>9,337</b>	<b>10,118</b>	<b>10,985</b>
Annual percent change <sup>1</sup> .....	-6.5	1.5	20.1	15.1	1.8	9.1	4.1	1.6	6.4	8.4	8.6
Academic science/engineering obligations.....	2,188	2,806	3,351	3,960	4,473	4,790	5,062	5,179	5,680	6,390	7,260
Percent of total.....	67.6	61.7	51.6	53.0	58.8	57.7	58.6	59.0	60.8	63.2	66.1
Research and development.....	1,447	2,246	2,803	3,386	3,874	4,160	4,410	4,554	5,024	5,636	6,379
Research and development plant.....	45	45	36	34	32	38	28	31	38	50	114
Other science/engineering activities.....	696	515	512	540	587	593	624	594	619	705	767
Nonscience/engineering activities.....	1,049	1,741	3,138	3,512	3,131	3,508	3,578	3,697	3,657	3,728	3,724

<sup>1</sup> Percent change from prior year.

Source: U.S. National Science Foundation, *Survey of Federal Support to Universities, Colleges, and Selected Nonprofit Institutions*, annual.

**NO. 957. NOBEL PRIZE LAUREATES IN CHEMISTRY, PHYSICS, AND PHYSIOLOGY/MEDICINE—SELECTED COUNTRIES: 1901 TO 1986**

[Presented by location of award-winning research and by date of award]

COUNTRY	1901-1986				1901-1915	1916-1930	1931-1945	1946-1960	1961-1975	1976-1986
	Total	Physics	Chemistry	Physiology/Medicine						
<b>Total</b> .....	<b>378</b>	<b>129</b>	<b>106</b>	<b>143</b>	<b>52</b>	<b>41</b>	<b>49</b>	<b>74</b>	<b>92</b>	<b>70</b>
United States.....	143	49	31	63	3	3	14	38	41	44
United Kingdom.....	68	21	24	23	7	8	11	14	20	8
Japan.....	4	3	1	-	-	-	-	1	2	1
France.....	21	8	6	7	10	3	2	-	5	1
Soviet Union.....	10	7	1	2	2	-	-	4	3	1
West Germany <sup>1</sup> .....	53	16	25	12	15	12	11	4	8	3
Other countries.....	79	25	18	36	15	15	11	13	13	12

- Represents zero. <sup>1</sup> Includes East Germany before 1946.

Source: U.S. National Science Foundation, unpublished data.

**NO. 958. NATIONAL RESEARCH AND DEVELOPMENT EXPENDITURES AS A PERCENT OF GROSS NATIONAL PRODUCT, BY COUNTRY: 1965 TO 1986**

YEAR	United States	France <sup>1</sup>	West Germany	Japan	United Kingdom	Soviet Union	YEAR	United States	France <sup>1</sup>	West Germany	Japan	United Kingdom	Soviet Union
1965.....	2.8	2.0	1.7	1.5	(NA)	2.9	1977.....	2.2	1.8	2.1	1.9	(NA)	3.5
1967.....	2.8	2.1	2.0	1.5	2.3	2.9	1978.....	2.1	1.8	2.2	2.0	2.2	3.5
1968.....	2.8	2.1	2.0	1.6	2.3	(NA)	1979.....	2.2	1.8	2.4	2.1	(NA)	3.6
1969.....	2.7	1.9	1.8	1.6	2.3	3.0	1980.....	2.3	1.8	2.4	2.2	(NA)	3.8
1970.....	2.6	1.9	2.1	1.8	(NA)	3.3	1981.....	2.4	2.0	2.5	2.4	2.4	3.7
1971.....	2.4	1.9	2.2	1.9	(NA)	3.5	1982.....	2.5	2.1	2.6	2.5	(NA)	3.7
1972.....	2.4	1.9	2.2	1.9	2.1	3.7	1983.....	2.6	2.2	2.5	2.6	2.2	3.8
1973.....	2.3	1.8	2.1	1.9	(NA)	3.8	1984.....	2.6	2.2	2.5	2.6	(NA)	3.9
1974.....	2.2	1.8	2.1	2.0	(NA)	3.7	1985.....	2.7	2.3	2.7	2.9	2.2	3.8
1975.....	2.2	1.8	2.2	2.0	2.2	3.8	1986.....	2.8	(NA)	2.8	(NA)	(NA)	(NA)
1976.....	2.2	1.8	2.1	1.9	(NA)	3.6							

NA Not available. <sup>1</sup> Percent of gross domestic product.

Source: U.S. National Science Foundation, *Science Indicators*, biennial; *National Patterns of Science and Technology Resources*, annual; and *International Science and Technology Data Update*, annual.

**NO. 959. RESEARCH AND DEVELOPMENT (R&D) EXPENDITURES IN SCIENCE AND ENGINEERING AT UNIVERSITIES AND COLLEGES: 1980 TO 1985**

[In millions of dollars. Estimates for nonrespondents account for less than 8 percent of the total]

CHARACTERISTIC	1980	1983	1984	1985	CHARACTERISTIC	1980	1983	1984	1985
<b>Total</b> .....	<b>6,060</b>	<b>7,807</b>	<b>8,503</b>	<b>9,504</b>	Field: Life sciences.....	3,217	4,233	4,607	5,198
In 1972 dollars <sup>1</sup> .....	3,412	3,587	3,764	4,057	Engineering.....	865	1,111	1,206	1,393
Basic research.....	4,026	5,269	5,838	6,377	Physical sciences.....	677	899	987	1,137
Applied R&D.....	2,034	2,538	2,665	3,127	Environmental sciences.....	509	620	650	707
Source of funds:					Social sciences and other.....	488	521	548	569
All Governments.....	4,587	5,560	6,014	6,669	Economics.....	90	98	109	116
Institutions' own funds.....	827	1,281	1,398	1,593	Mathematics.....	79	108	124	129
Industry.....	237	379	458	538	Computer sciences.....	114	175	223	278
Other.....	409	587	633	704	Psychology.....	111	139	147	162

<sup>1</sup> Based on GNP implicit price deflator; see text, section 14.

Source: U.S. National Science Foundation, *Survey of Scientific and Engineering Expenditures at Universities and Colleges*, annual.

**NO. 960. SCIENTISTS AND ENGINEERS EMPLOYED IN RESEARCH AND DEVELOPMENT: 1970 TO 1986**

[In thousands of full-time equivalent employees. Yearly averages for industry sector only. Excludes those employed by State and local government agencies, except as noted. DOD=Dept. of Defense. FFRDC's=federally funded R&D centers]

SECTOR	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986 <sup>1</sup>
<b>Total</b> .....	<b>544.5</b>	<b>527.7</b>	<b>615.0</b>	<b>651.7</b>	<b>683.7</b>	<b>702.8</b>	<b>711.7</b>	<b>738.4</b>	<b>762.4</b>	<b>787.4</b>
Industry (excl. social scientists) <sup>2</sup> .....	375.6	363.8	437.2	469.2	498.8	516.0	522.1	544.5	560.2	580.3
Universities and colleges, total.....	68.5	69.8	78.6	81.2	83.3	84.4	85.5	88.6	93.2	96.7
Scientists and engineers.....	50.3	51.2	56.9	57.8	58.9	59.5	60.8	62.5	65.8	67.8
Graduate students.....	18.2	18.6	21.7	23.3	24.4	24.9	24.9	26.1	27.4	28.9
Federal Government (incl. DOD).....	67.7	58.4	57.6	58.6	59.2	60.0	61.3	62.9	62.9	63.3
University-associated FFRDC's <sup>3</sup> .....	11.5	12.7	14.1	15.2	15.4	15.4	15.3	15.2	16.8	16.6
Other nonprofit institutions <sup>2*</sup> .....	21.2	23.0	27.5	27.5	27.0	27.0	27.5	28.0	29.5	30.5

<sup>1</sup> Estimated. <sup>2</sup> Includes professional R&D personnel employed at FFRDC's administered by industry and other nonprofit institutions. <sup>3</sup> Includes estimate for R&D scientists and engineers employed in State-affiliated institutions.

Source: U.S. National Science Foundation, *National Patterns of Science and Technology Resources*, annual.

## NO. 961. SCIENTISTS AND ENGINEERS, BY FIELD, LABOR FORCE STATUS, AND SEX: 1980 TO 1986

(In thousands, except percent. Represents the total science and engineering population in the United States)

FIELD	1980			1984			1986		
	Total		In labor force	Total		In labor force	Total		In labor force
	Number	Percent female		Number	Percent female		Number	Percent female	
<b>Total, all fields</b> .....	<b>3,083</b>	<b>11.5</b>	<b>2,917</b>	<b>4,247</b>	<b>13.3</b>	<b>4,061</b>	<b>4,972</b>	<b>15.4</b>	<b>4,699</b>
Engineers, total.....	1,800	3.0	1,701	2,352	3.4	2,241	2,635	4.1	2,471
Scientists, total.....	1,283	23.4	1,216	1,895	25.4	1,819	2,337	28.1	2,228
Life scientists.....	313	19.2	295	384	24.8	361	452	26.1	421
Computer specialists.....	215	28.7	210	445	26.6	439	576	29.7	567
Physical scientists.....	235	10.3	220	238	11.6	259	313	13.9	293
Social scientists.....	229	29.5	214	357	29.4	341	459	31.7	438
Economists.....	84	15.9	78	136	15.7	130	177	19.2	189
Other social scientists.....	145	37.3	136	221	37.9	212	282	39.6	270
Psychologists.....	137	39.4	132	223	42.9	215	274	45.2	260
Environmental scientists.....	84	14.2	79	106	11.4	101	123	12.3	116
Mathematical scientists.....	70	29.6	66	108	22.6	103	140	26.9	133

Source: National Science Foundation, *U.S. Scientists and Engineers*, and unpublished data.

## NO. 962. CHARACTERISTICS OF EMPLOYED SCIENTISTS AND ENGINEERS: 1986

[Percent distribution, except as indicated. Represents the total science and engineering employment in the United States]

CHARACTERISTIC	Total	Engineers	Life scientists	Computer specialists	Physical scientists	SOCIAL SCIENTISTS			Psychologists	Environmental scientists	Mathematical scientists
						Total	Economists	Other social scientists			
<b>Total (1,000)</b> .....	<b>4,627</b>	<b>2,440</b>	<b>412</b>	<b>563</b>	<b>288</b>	<b>428</b>	<b>164</b>	<b>264</b>	<b>254</b>	<b>111</b>	<b>131</b>
Male.....	84.9	95.9	75.0	71.1	86.4	68.7	80.5	61.4	54.6	88.4	74.1
Female.....	15.1	4.1	25.0	28.9	13.6	31.3	19.5	38.6	45.4	11.6	25.9
Highest degree:											
Doctorate.....	13.3	4.3	29.5	3.4	39.6	23.0	21.8	23.7	38.5	18.4	30.7
Master's.....	23.6	23.0	21.4	25.2	20.3	22.1	21.7	22.3	26.6	31.1	33.7
Bachelor's.....	55.1	59.9	44.6	69.9	38.0	51.7	53.0	50.9	32.4	48.2	34.1
Other.....	8.0	12.8	4.5	1.5	2.1	3.2	3.5	3.0	2.6	2.2	1.6
Type of employer:											
Industry.....	67.8	79.5	37.2	78.2	56.8	50.4	62.5	42.9	40.2	58.5	41.8
Educational institutions.....	13.6	4.1	35.9	6.7	24.7	26.4	20.5	30.1	31.3	16.4	44.8
Nonprofit organizations.....	3.6	1.5	7.0	2.5	3.3	6.4	2.2	8.9	17.9	1.2	2.1
Federal Government.....	7.7	7.6	10.3	6.8	10.3	5.1	7.8	3.4	2.7	15.8	8.5
Military.....	.6	.8	.4	.5	.3	.3	.1	.4	.3	1.3	.4
State, local, and other government.....	5.0	4.9	7.7	3.7	2.9	9.9	5.3	12.7	5.8	5.3	1.7
Other.....	1.6	1.7	1.5	1.6	1.7	1.5	1.6	1.5	1.8	1.5	.8

Source: U.S. National Science Foundation, *U.S. Scientists and Engineers: 1986*.

## NO. 963. RESEARCH AND DEVELOPMENT SCIENTISTS AND ENGINEERS—AVERAGE FULL-TIME-EQUIVALENT EMPLOYMENT AND COST, BY INDUSTRY: 1970 TO 1985

[Data are estimates; on average full-time-equivalent (FTE) basis. See *Historical Statistics, Colonial Times to 1970*, series W 167, for total cost per scientist or engineer]

INDUSTRY	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
<b>Average FTE of scientists and engineers (1,000)</b> .....	<b>375.6</b>	<b>361.7</b>	<b>363.8</b>	<b>373.6</b>	<b>393.6</b>	<b>414.2</b>	<b>437.3</b>	<b>469.2</b>	<b>498.8</b>	<b>516.0</b>	<b>533.3</b>	<b>552.3</b>	<b>570.2</b>
Chemicals <sup>1</sup> .....	41.4	43.5	44.9	45.4	47.4	49.2	50.7	53.1	56.2	63.8	66.6	67.1	69.2
Machinery.....	42.5	51.9	54.3	55.5	56.8	59.0	61.2	65.7	72.6	76.2	75.7	78.2	79.7
Electrical equipment <sup>2</sup> .....	96.2	82.6	81.5	82.2	84.3	84.7	89.8	100.7	108.4	110.0	113.2	115.7	116.9
Motor vehicles <sup>3</sup> .....	26.9	28.6	27.5	28.6	32.0	35.5	38.5	38.1	33.9	31.0	30.7	31.1	33.7
Aircraft and missiles.....	85.2	69.1	67.2	69.5	77.0	84.3	86.2	90.6	93.2	93.3	95.0	100.2	105.1
Other industries.....	83.5	86.0	88.5	92.4	98.3	101.5	110.9	121.0	132.5	141.7	151.2	162.2	165.8
<b>Cost per scientist or engineer (\$1,000)</b> <sup>4</sup> .....	<b>48.1</b>	<b>63.3</b>	<b>66.5</b>	<b>72.2</b>	<b>75.8</b>	<b>80.4</b>	<b>87.4</b>	<b>94.9</b>	<b>103.9</b>	<b>112.4</b>	<b>118.9</b>	<b>129.8</b>	<b>140.5</b>
Chemicals <sup>1</sup> .....	42.8	56.3	60.9	66.5	67.6	72.8	78.6	87.4	96.7	104.4	109.8	119.7	128.3
Machinery.....	40.7	57.5	58.9	62.8	68.6	72.6	79.9	89.9	93.9	102.9	110.9	127.0	138.6
Electrical equipment <sup>2</sup> .....	43.9	60.7	62.7	68.6	69.9	76.8	87.2	91.1	95.3	105.8	123.2	135.4	148.3
Motor vehicles <sup>3</sup> .....	59.3	86.6	88.4	100.4	108.6	113.0	121.2	134.3	146.6	162.9	173.8	185.9	209.5
Aircraft and missiles.....	61.3	76.4	85.1	91.3	91.3	89.4	93.3	101.6	128.4	146.4	144.3	160.5	169.4
Other industries.....	42.4	54.5	56.7	61.1	65.9	72.6	79.6	86.6	91.3	93.4	96.5	99.6	108.8

<sup>1</sup> Includes allied products. <sup>2</sup> Includes communication. <sup>3</sup> And other transportation equipment. <sup>4</sup> Represents the arithmetic mean of the numbers of R&D scientists and engineers reported in each industry for January in two consecutive years divided into total R&D expenditures in each industry.

Source: U.S. National Science Foundation, *Research and Development in Industry*, annual.

**No. 964. CIVILIAN EMPLOYMENT OF SCIENTISTS, ENGINEERS, AND TECHNICIANS, BY OCCUPATION AND MAJOR INDUSTRIAL SECTOR: 1986**

[In thousands. Based on sample and subject to sampling error. For details, see source]

OCCUPATION	WAGE AND SALARY WORKERS									Self-employed
	Total <sup>1</sup>	Mining <sup>2</sup>	Construction	Manufacturing	Transportation <sup>3</sup>	Trade	FIRE <sup>4</sup>	Services	Government	
<b>Scientists and engineers.....</b>	<b>2,138.1</b>	<b>53.5</b>	<b>41.1</b>	<b>829.2</b>	<b>103.1</b>	<b>57.0</b>	<b>77.0</b>	<b>586.9</b>	<b>380.9</b>	<b>131.0</b>
Scientists.....	806.4	25.5	1.4	141.2	24.1	31.2	66.3	301.3	207.0	92.0
Physical scientists.....	169.4	20.3	.1	56.9	2.2	2.1	.6	48.7	38.3	11.0
Life scientists.....	133.2	.3	(z)	16.7	.8	1.8	.2	53.0	52.8	7.0
Mathematical scientists.....	47.6	.1	(z)	6.6	1.7	(z)	14.5	14.6	9.9	(z)
Social scientists.....	144.7	.3	.1	(z)	1.5	(z)	9.6	82.8	50.3	54.0
Systems analysts, EDP.....	311.4	4.5	1.2	61.0	17.9	27.3	41.4	102.2	55.7	20.0
Engineers <sup>5</sup> .....	1,331.7	28.0	39.7	688.0	79.0	25.8	10.7	285.6	173.9	39.0
Civil engineers.....	193.2	1.7	19.4	10.4	8.0	.4	.5	77.8	74.8	6.0
Electrical/electronics engineers.....	391.5	1.0	6.3	221.0	38.9	13.4	.9	77.4	32.7	9.0
Mechanical engineers.....	228.7	2.2	8.6	140.5	6.4	6.2	.6	51.0	13.1	4.0
<b>Engineering and science technicians.....</b>	<b>1,241.1</b>	<b>19.0</b>	<b>31.4</b>	<b>484.6</b>	<b>77.1</b>	<b>79.9</b>	<b>6.9</b>	<b>372.4</b>	<b>162.4</b>	<b>23.0</b>
Electrical/electronics technicians.....	309.4	1.0	4.7	135.2	29.4	60.3	1.2	51.3	26.2	4.0
Engineering technicians.....	373.5	4.8	5.0	134.8	26.4	9.4	.8	96.7	94.9	2.0
Drafters.....	333.2	4.6	21.5	125.6	19.0	7.2	2.6	137.4	13.2	15.0
Science technicians.....	225.0	8.5	.2	89.0	2.4	3.0	2.4	87.0	28.0	2.0
Surveyors.....	86.5	3.7	3.8	.1	3.4	(z)	.4	52.0	22.5	8.0
Computer programmers.....	463.6	3.3	2.2	92.0	24.2	44.2	68.3	192.9	36.1	15.0

<sup>z</sup> Fewer than 50. <sup>1</sup> Includes agriculture, forestry, and fishing not shown separately. <sup>2</sup> Includes oil and gas extraction. <sup>3</sup> Includes communications and public utilities. <sup>4</sup> Finance, insurance, and real estate. <sup>5</sup> Includes kinds of engineers and technicians not shown separately.

Source: U.S. Bureau of Labor Statistics, *Monthly Labor Review*, September 1987 and unpublished data.

**No. 965. SCIENTISTS AND ENGINEERS—EMPLOYMENT IN INSTITUTIONS OF HIGHER EDUCATION, BY FIELD: 1980 TO 1985**

[In thousands. As of January. Includes full-time and part-time personnel. Excludes graduate students who receive stipends for part-time services as scientists or engineers. R&D=research and development]

FIELD	1980	1983	1984	1985	FIELD	1980	1983	1984	1985
	<b>Total.....</b>	<b>339.3</b>	<b>373.9</b>	<b>385.6</b>		<b>396.0</b>	Math. and computer scientists.....	36.0	45.7
Universities, colleges.....	324.2	358.9	370.4	380.4	Life scientists.....	133.7	151.4	156.4	161.7
Engineers <sup>1</sup> .....	33.7	37.7	38.7	39.9	Agricultural.....	15.9	16.7	17.1	17.5
Civil.....	5.5	8.4	6.4	6.7	Biological.....	44.8	49.1	49.3	50.5
Electrical.....	8.2	9.6	10.2	10.8	Medical.....	67.1	74.4	76.1	78.7
Mechanical.....	6.1	6.7	7.1	7.2	Psychologists.....	23.3	23.8	23.8	23.8
Physical and environmental science <sup>1</sup> .....	43.5	44.9	46.4	47.2	Social scientists.....	54.1	55.4	56.2	56.7
Chemists.....	17.6	18.3	18.8	19.1	Economists.....	14.7	15.6	15.7	15.8
Earth scientists.....	6.6	6.5	6.7	6.7	Federally funded R&D centers.....	15.1	15.1	15.2	15.6
Physicists.....	13.0	13.6	13.9	14.1	Engineers.....	6.5	6.5	6.0	6.2
					Scientists.....	8.6	8.6	9.2	9.4

<sup>1</sup> Includes other fields not shown separately.

Source: U.S. National Science Foundation, *Survey of Scientific and Engineering Personnel Employed in Universities and Colleges*, periodic.

**No. 966. PROFESSIONAL SCIENTIFIC, ENGINEERING, AND TECHNICAL PERSONNEL IN THE FEDERAL GOVERNMENT, BY OCCUPATIONAL GROUP: 1970 TO 1985**

[In thousands, except percent. As of October. Excludes health professional personnel]

OCCUPATIONAL GROUP	1970	1975	1980	1981 <sup>1</sup>	1983 <sup>1 2</sup>	1985 <sup>2 3</sup>	PERCENT FEMALE					
	1970	1975	1980	1981 <sup>1</sup>	1983 <sup>1 2</sup>	1985 <sup>2 3</sup>	1970	1975	1980	1981 <sup>1</sup>	1983 <sup>1 2</sup>	1985 <sup>2 3</sup>
<b>Total.....</b>	<b>180.3</b>	<b>188.9</b>	<b>206.9</b>	<b>207.9</b>	<b>218.9</b>	<b>238.0</b>	<b>6.7</b>	<b>6.5</b>	<b>9.5</b>	<b>10.3</b>	<b>11.8</b>	<b>13.8</b>
Scientific personnel.....	77.2	77.3	86.0	88.9	89.5	91.4	8.0	8.8	12.7	13.2	14.1	15.6
Physical sciences.....	29.8	27.1	27.6	27.4	27.1	27.6	6.4	6.5	9.5	10.0	10.9	12.5
Mathematics and statistics.....	8.6	10.0	11.1	10.9	10.7	11.0	17.4	15.9	19.8	19.9	20.9	22.8
Life sciences.....	26.9	26.4	30.5	32.4	33.5	33.5	4.1	5.1	8.7	9.8	11.3	12.1
Social sciences <sup>4</sup> .....	6.6	6.0	10.5	8.9	9.3	10.1	16.2	17.6	23.3	23.1	22.8	25.1
Economics.....	4.3	5.0	5.9	5.5	5.3	5.9	11.1	12.9	17.4	16.1	18.4	20.6
Other social sciences.....	2.3	3.0	4.6	3.4	4.0	4.2	25.1	23.7	30.6	31.2	28.7	31.5
Geography and cartography.....	3.3	2.9	4.9	5.2	5.5	5.7	8.5	7.9	14.8	15.7	16.6	17.0
Psychology.....	2.2	2.9	3.3	3.4	3.3	3.4	13.7	14.6	18.8	17.5	18.8	21.4
Engineering personnel.....	83.0	86.6	89.6	87.9	94.3	105.1	.5	.7	1.9	2.3	3.6	5.3
Computer specialists.....	20.1	25.0	29.3	31.1	35.2	41.5	21.1	19.1	23.3	24.7	27.9	31.4

<sup>1</sup> Excludes Tennessee Valley Authority (TVA). <sup>2</sup> Excludes Post Office. <sup>3</sup> Data for 1985 include 4,400 personnel at TVA. <sup>4</sup> Includes community planning.

Source: U.S. National Science Foundation. Compiled from data supplied by the U.S. Office of Personnel Management.

**NO. 967. GRADUATE SCIENCE AND ENGINEERING STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS, BY FIELD, ENROLLMENT STATUS, AND LEVEL OF STUDY: 1975 TO 1985**

[In thousands. As of fall. Includes outlying areas]

FIELD OF SCIENCE	STUDENTS ENROLLED FULL-TIME									STUDENTS ENROLLED PART-TIME		
	Total			First year			Beyond first year			1975	1980	1985
	1975	1980	1985	1975	1980	1985	1975	1980	1985			
<b>Total</b> .....	<b>210.3</b>	<b>230.5</b>	<b>249.7</b>	<b>79.2</b>	<b>77.3</b>	<b>77.4</b>	<b>131.2</b>	<b>153.2</b>	<b>172.3</b>	<b>83.4</b>	<b>103.1</b>	<b>121.4</b>
Engineering.....	37.1	41.9	56.0	16.4	15.7	18.2	20.6	26.2	37.8	27.5	28.2	35.8
Physical sciences.....	21.3	22.3	26.1	6.0	5.7	6.4	15.3	16.5	19.7	3.3	3.1	3.4
Environmental sciences.....	9.0	10.0	10.9	3.3	3.4	3.1	5.7	6.9	7.8	2.0	2.5	3.3
Mathematics.....	10.0	9.4	11.2	3.6	3.2	3.7	6.4	6.1	7.5	4.4	4.3	4.1
Computer sciences.....	4.1	5.9	12.4	1.8	2.3	4.2	2.3	3.6	8.2	2.9	5.5	11.4
Life sciences.....	59.6	67.7	66.2	23.3	23.0	20.4	36.3	44.7	45.8	14.0	22.9	27.5
Psychology.....	19.7	21.6	21.0	5.7	5.7	5.6	14.0	15.9	15.4	7.2	7.8	9.2
Social sciences.....	49.5	51.5	45.9	19.0	18.3	15.7	30.5	33.2	30.2	22.3	28.8	26.7
Economics.....	8.0	8.9	8.6	3.1	2.9	2.6	4.9	6.1	6.0	3.0	3.3	2.8

Source: U.S. National Science Foundation, *Survey of Graduate Science and Engineering Students and Postdoctorates*, annual.

**NO. 968. DOCTORATES CONFERRED, BY RECIPIENTS' CHARACTERISTICS, 1975 TO 1986, AND BY SELECTED SCIENCE AND ENGINEERING FIELDS, 1986**

CHARACTERISTIC	ALL FIELDS				1986							
	1975	1980	1985	All fields <sup>1</sup>	Engi- neering	Physi- cal sci- ences <sup>2</sup>	Mathema- tics and compu- ter sci- ences	Psy- chology	Biologi- cal sci- ences <sup>3</sup>	Social sciences		
										Total	Econ- omics	Other social sci- ences <sup>4</sup>
Doctorate conferred.....	32,951	31,017	31,201	31,782	3,375	3,677	1,130	3,060	3,782	2,222	861	1,361
Percent with master's degree.....	81.3	80.9	80.0	(NA)	86.5	52.0	77.1	80.0	51.6	81.3	72.6	86.8
Percent distribution.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Male.....	78.1	69.7	65.7	64.6	93.3	83.6	85.0	49.0	66.3	68.0	80.7	60.0
Female.....	21.9	30.3	34.3	35.4	6.7	16.4	15.0	51.0	33.7	32.0	19.3	40.0
White <sup>5</sup> .....	86.7	84.6	86.2	86.6	78.4	87.6	82.4	90.0	89.2	85.5	85.0	85.0
Asian <sup>6</sup> .....	3.6	4.2	4.3	4.3	15.1	6.1	9.8	1.4	5.1	3.8	5.6	2.9
Black and other <sup>7</sup> .....	4.9	6.3	7.2	7.0	3.8	3.0	4.1	7.4	4.1	7.5	4.5	9.0
Not reported <sup>8</sup> .....	4.8	4.9	2.3	2.1	2.7	3.3	3.7	1.2	1.7	3.2	3.4	3.1
U.S. citizens.....	82.1	81.0	74.5	72.1	40.7	66.1	50.4	88.9	82.2	66.2	55.1	73.3
Foreign citizens.....	15.9	15.9	20.9	21.0	50.6	27.6	42.0	4.6	13.3	26.6	38.3	19.2
Citizenship unknown.....	2.0	3.1	4.6	6.9	8.7	6.3	7.5	6.5	4.5	7.2	6.6	7.6
Median age at award <sup>9</sup> (yr.).....	31.5	32.2	33.3	(NA)	31.0	29.9	30.7	33.0	30.8	33.4	31.5	34.6
Median total time, <sup>5</sup> baccalaureate to doctorate (yr.).....	8.6	9.3	10.2	(NA)	8.1	7.1	8.0	9.7	8.1	10.0	8.4	11.1
Registered time (yr.).....	5.9	6.3	6.8	(NA)	5.9	6.0	6.2	7.0	6.4	7.5	6.3	8.2

NA Not applicable. <sup>1</sup> Includes other fields, not shown separately. <sup>2</sup> Astronomy, physics, chemistry, and earth sciences. <sup>3</sup> Biochemistry, botany, microbiology, physiology, zoology, and related fields. <sup>4</sup> Anthropology, sociology, political science, and international relations. <sup>5</sup> Data on race limited to U.S. citizens and non-U.S. citizens with permanent government visas. <sup>6</sup> For definition of median, see Guide to Tabular Presentation.

Source: U.S. National Science Foundation, Division of Science Resources Studies.

**NO. 969. FEDERAL SPACE PROGRAM—BUDGET AUTHORITY, BY AGENCY: 1960 TO 1984**

[In millions of dollars, except percent. For fiscal years ending in year shown; see text, section 9. 1984 estimated. NASA=National Aeronautics and Space Administration]

YEAR	Total <sup>1</sup>	NASA <sup>2</sup>			YEAR	Total <sup>1</sup>	NASA <sup>2</sup>						
		Total	Per- cent of total	Dept. of De- fense			Dept. of Com- merce	Dept. of En- ergy <sup>3</sup>	Total	Per- cent of total	Dept. of De- fense	Dept. of Com- merce	Dept. of En- ergy <sup>3</sup>
1960.....	1,056	462	49.2	561	(x)	43	1975.....	4,914	2,915	65.7	1,892	64	50
1965.....	6,956	5,138	75.5	1,574	12	229	1976.....	5,320	3,225	66.7	1,983	72	23
1967.....	6,870	5,065	74.2	1,689	27	187	1977.....	5,993	3,440	63.8	2,412	91	22
1968.....	7,710	4,830	74.0	1,664	29	184	1978.....	5,509	3,623	62.4	2,729	103	34
1969.....	6,529	4,430	70.3	1,922	28	145	1979.....	7,419	4,030	61.9	3,211	96	59
1969.....	5,976	3,822	66.8	2,013	20	118	1980.....	8,689	4,690	60.3	3,848	93	40
1970.....	5,341	3,547	70.1	1,878	8	103	1981.....	9,978	4,992	55.3	4,828	87	41
1971.....	4,741	3,101	69.8	1,512	27	95	1982.....	12,091	5,494	45.4	6,362	144	61
1972.....	4,575	3,071	72.3	1,407	31	55	1983.....	15,554	6,328	40.7	9,019	178	38
1973.....	4,825	3,093	70.6	1,623	40	54	1984.....	17,449	6,590	37.8	10,580	235	34
1974.....	4,640	2,759	65.5	1,766	60	42							

X Not applicable. <sup>1</sup> Includes agencies not shown separately. <sup>2</sup> Includes budget authority for the space transportation system of \$3.1 billion in 1982; \$4.1 billion in 1983; and \$4.0 billion in 1984. <sup>3</sup> See footnote 1, table 953.

Source: U.S. National Aeronautics and Space Administration, *Aeronautics and Space Report of the President*, annual. Data from U.S. Office of Management and Budget.

**NO. 970. NASA—OUTLAYS FOR OPERATIONAL ACTIVITIES AND FOR RESEARCH AND DEVELOPMENT: 1965 TO 1986**

[In millions of dollars, except percent. For fiscal year ending in year shown; see text, section 9. Minus sign (-) indicates decrease]

YEAR	AGENCY TOTAL		PERFORMANCE (OPERATIONS)			PERFORMANCE (R&D)				FACILITIES (R&D)			
	Total outlays	Per-centage change	Total operations	Space flight	Other	Total	Space flight	Space science, applica-tions <sup>1</sup>	Air transport and other	Total R&D	Space flight	Space science, applica-tions <sup>1</sup>	Air transport and other
1965.....	5,093	22.1	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	3,4,562	3,3,138	3,1,126	3,268	531	401	78	52
1970.....	3,753	-11.7	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	3,3,699	3,2,195	3,963	3,541	54	14	21	19
1975.....	3,266	3	( <sup>2</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	3,3,181	3,1,500	3,1,076	3,605	85	36	9	42
1980.....	4,850	15.8	1,245	914	331	3,4,865	1,642	1,341	482	140	38	5	97
1982.....	6,035	11.3	2,706	2,303	403	3,2,220	1,255	1,442	543	109	17	3	89
1983.....	6,664	10.4	4,018	3,431	587	2,538	596	1,488	456	108	26	-	82
1984.....	7,048	5.8	3,317	2,854	463	3,539	1,183	1,667	689	192	44	20	128
1985.....	7,251	2.9	4,034	3,310	724	2,970	542	1,834	594	247	70	23	154
1986.....	7,404	2.1	3,873	2,947	726	3,432	740	2,101	591	299	107	26	186

- Represents zero. <sup>1</sup> Includes technology. <sup>2</sup> Change from 1964. <sup>3</sup> Performance (operations) included in performance (R&D). <sup>4</sup> Excludes Intragovernmental funds, Federal Financing Bank, direct loan principle repayments—\$67 million in 1985. Source: U.S. Office of Management and Budget, *Budget of the United States Government*, annual.

**NO. 971. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION—BUDGET SUMMARY: 1985 TO 1987**

[In millions of dollars]

ITEM	1985	1986	1987	ITEM	1985	1986	1987
<b>Budget summary, total</b> .....	7,552	7,764	10,547	Commercial programs.....	10	27	41
<b>Research and development</b> .....	2,468	2,619	3,121	Space transportation capability	391	404	491
Space Science and applications	1,405	1,476	1,553	development	137	122	156
Physics and astronomy	677	569	553	Upper stages	106	110	133
Hubble space telescope develop	195	126	101	Engineering and technical base			
Gamma ray observatory develop	117	85	51	Payload operations and support			
Shuttle/spacelab payload develop				equipment	56	55	44
op. and mission management	105	89	90	Spacelab	58	78	74
Mission operations and data				Advanced programs	21	19	28
analysis	109	112	126	Tethered satellite system	16	15	11
Suborbital program	59	60	75	Orbital maneuvering vehicle	-	5	45
Explorer development	52	48	57	Aeronautics and space technology	492	498	587
Research and analysis	40	49	53	Aeronautical research and			
Life sciences	62	66	72	technology	342	337	413
Planetary exploration	291	354	358	Research and technology base	223	229	271
Magellan	93	120	97	Systems technology programs	119	109	103
Research and analysis	62	60	68	Rotorcraft systems technology	26	21	19
Galleo development	59	64	71	Numerical aerodynamic simula-			
Mars observer	13	34	36	tion	27	28	30
Mission operations and data				Advanced propulsion systems			
analysis	56	67	76	technology	26	42	28
Ulysses	9	9	10	High-performance aircraft	22	18	26
Space applications	374	487	569	technology	-	-	45
Environmental observations	213	272	321	technology	-	-	40
Upper atmosphere research				Space research and technology	150	159	188
satellite mission	56	114	114	Space station	156	200	420
Scatterometer	12	14	33	Tracking and data advanced systems	15	16	17
Upper atmosphere research				<b>Space flight, control and data</b>			
and analysis	31	33	33	<b>communication programs</b>	3,594	3,670	5,900
Extended mission operations	30	34	34	Space shuttle production and			
TOPEX <sup>4</sup>	-	-	19	operational capability	1,485	1,370	3,105
Atmospheric dynamics and radia-				Orbiter	674	397	373
tion research and analysis	29	28	31	Propulsion systems	592	793	484
Oceanic processes research				Launch and mission support	218	180	148
and analysis	19	21	19	Orbiter replacement	-	-	2,100
Space physics research and				Changes and systems upgrade	-	-	20
analysis	17	20	21	Space transportation operations	1,314	1,840	1,847
Earth radiation budget experi-				Flight hardware	723	891	936
ence	8	2	-	Flight operations	316	434	558
COSTR <sup>5</sup>	-	-	5	Launch and landing operations	276	315	353
Shuttle/spacelab payload de-				Expendable launch vehicles			2
velopment	8	6	12	Space and ground network, communi-			
Communications	61	96	104	cations and data systems	796	660	848
Solid earth observations	158	71	76	Space network	378	274	405
Geodynamics	22	32	34	Ground network	233	210	237
Research and analysis	16	17	20	Communications and data systems	184	176	204
Shuttle/spacelab payloads	12	22	22	<b>Research and program man-</b>			
Materials processing in space	27	31	48	<b>agement</b>	1,332	1,342	1,461
Information systems	16	18	21	<b>Construction of facilities</b>	158	133	166
Safety, reliability, and quality assur-							
ance	-	-	12				

- Represents or rounds to zero. <sup>1</sup> Includes other items not shown separately. <sup>2</sup> Ocean topography experiment. <sup>3</sup> Collaborative Solar Terrestrial Geotail Research.

Source: U.S. National Aeronautics and Space Administration, *NASA News*.

## No. 972. NASA—PERMANENT PERSONNEL DISTRIBUTION SUMMARY: 1975 TO 1986

CODE AND INSTALLATION	1975	1980	1982	1983	1984	1985	1986		
							Total	Per cent male	Per cent Black <sup>1</sup>
<b>Total</b> .....	<b>24,333</b>	<b>22,613</b>	<b>21,186</b>	<b>21,924</b>	<b>21,415</b>	<b>21,423</b>	<b>21,228</b>	<b>74.2</b>	<b>8.0</b>
Professional.....	15,169	14,749	14,208	14,664	14,410	14,819	14,803	82.5	5.4
Scientists and engineers, aerospace technicians.....	11,438	10,779	10,395	10,779	10,605	10,884	10,925	90.3	3.7
Administrators.....	3,504	3,539	3,462	3,569	3,626	3,675	3,656	53.9	10.7
Scientists and engineers, non aerospace technicians.....	180	377	302	264	226	209	171	90.1	6.4
Life sciences.....	47	54	49	52	53	51	51	72.5	3.9
Non-professional.....	9,164	7,864	6,976	7,260	7,005	6,604	6,425	55.0	14.0
<b>INSTALLATION</b>									
Headquarters.....	1,562	1,516	1,431	1,505	1,408	1,383	1,362	56.9	21.7
Ames Research Center, CA <sup>2</sup> .....	2,161	2,116	2,041	2,083	2,093	2,052	2,072	76.9	4.2
Lewis Research Center, Cleveland, OH.....	3,042	2,822	2,485	2,676	2,650	2,715	2,596	82.3	6.3
Langley Research Center, Hampton, VA.....	3,315	2,966	2,801	2,968	2,873	2,827	2,814	78.8	9.1
Goddard Space Flight Center, MD <sup>3</sup> .....	4,185	3,818	2,801	3,718	3,581	3,629	3,679	73.9	6.0
Marshall Space Flight Center, AL.....	4,100	3,563	3,332	3,412	3,264	3,284	3,260	73.7	6.7
National Space Technology Labs, MS.....	3,680	3,508	3,266	3,305	3,316	3,330	3,269	71.6	7.1
Johnson, Houston, TX.....	3,680	3,508	3,266	3,305	3,316	3,330	3,269	71.6	7.1
Kennedy, FL.....	2,259	2,201	2,104	2,146	2,118	2,081	2,051	72.5	5.4

<sup>1</sup> Excludes Hispanic Blacks. <sup>2</sup> Includes Flight Research Center, California. <sup>3</sup> Includes Wallops Flight Research Center, Virginia.

Source: U.S. National Aeronautics and Space Administration, *Personnel Management Information System (PMIS)*, annual.

## No. 973. SPACE VEHICLE SYSTEMS—NET SALES AND BACKLOG ORDERS: 1965 TO 1985

[In millions of dollars. Backlog orders as of Dec. 31. Based on data from major companies engaged in manufacture of aerospace products. Excludes engines and propulsion units]

YEAR	NET SALES			BACKLOG ORDERS			YEAR	NET SALES			BACKLOG ORDERS		
	Total	Military	Non-military	Total	Military	Non-military		Total	Military	Non-military	Total	Military	Non-military
1965.....	2,449	602	1,847	2,203	509	1,700	1981.....	3,856	1,736	2,120	3,174	2,164	1,010
1970.....	1,668	1,025	931	1,184	786	398	1982.....	4,749	2,608	2,143	4,337	2,403	1,934
1975.....	2,119	1,096	1,023	1,304	1,019	285	1983.....	4,940	2,420	2,520	4,865	2,733	2,132
1980.....	3,483	1,461	2,022	1,814	951	863	1984.....	5,225	3,019	2,206	4,624	3,089	1,525
							1985.....	6,271	4,212	2,059	5,200	3,434	1,766

Source: U.S. Bureau of the Census, *Current Industrial Reports*, MA-37D, *Aerospace Industry (Sales and Orders)*.

## No. 974. SPACE SHUTTLE SYSTEM EXPENDITURES BY NASA IN CONSTANT (1982) DOLLARS: 1972 TO 1986

[In millions of dollars. For year ending Sept. 30. These data cannot be used alone to estimate the total shuttle cost. Only operating expenditures correspond to an annual cost in the economic sense, and even those estimates require adjustment for the three-year period over which the cost of a shuttle flight is incurred and reimbursements are received. For details, see source]

YEAR	Total	D.D.T. and E <sup>1</sup>	Construction	Production	Operations	YEAR	Total	D.D.T. and E <sup>1</sup>	Construction	Production	Operations
1973.....	58	-	58	-	-	1981.....	2,724	1,041	13	1,093	578
1974.....	325	216	109	-	-	1982.....	2,932	894	20	1,283	735
1975.....	1,543	1,407	136	-	-	1983.....	3,014	-	26	1,635	1,354
1976.....	2,619	2,541	78	-	-	1984.....	3,127	-	73	690	2,364
1977.....	2,258	2,089	60	108	-	1985.....	2,636	-	42	1,376	1,218
1978.....	2,062	1,898	103	61	-	1986.....	2,791	-	4	1,266	1,521
1979.....	2,251	1,713	42	496	-						

- Represents zero. <sup>1</sup> Design, development, testing, and evaluation.

Source: U.S. Congress, Congressional Budget Office, *Pricing Options for the Space Shuttle*, March 1985 and U.S. National Aeronautics and Space Administration, *NASA Budget Estimates for Fiscal Year 1988*.

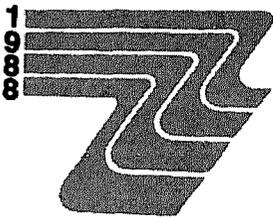
## No. 975. WORLD-WIDE SUCCESSFUL SPACE LAUNCHES: 1957 TO 1986

[Criterion of success is attainment of Earth orbit or Earth escape. E.S.A.—European Space Agency]

YEAR	Total <sup>1</sup>	Soviet Union	Unif-ed States	Japan	E.S.A.	India	China: Mainland	YEAR	Total <sup>1</sup>	Soviet Union	Unif-ed States	Japan	E.S.A.	India	China: Mainland
1957-1959.....	21	6	15	-	-	-	-	1975-1978.....	807	481	126	10	1	-	6
1960-1964.....	268	75	192	-	-	-	-	1980-1984.....	605	483	93	12	8	3	6
1965-1969.....	568	302	279	-	-	-	-	1985.....	121	98	17	2	3	-	1
								1986.....	103	91	6	2	2	-	2

- Represents zero. <sup>1</sup> Includes launches in other countries not shown separately.

Source: Library of Congress, Congressional Research Service, Science Policy Research Division, *Space Activities of the United States, Soviet Union and Other Launching Countries/Organization: 1957-1986*, February 1987.



# Transportation— Land

This section presents statistics on revenues, passenger and freight traffic volume, and employment in various revenue-producing modes of the transportation industry, including motor vehicles, trains, and pipelines. Data are also presented on commuting travel; highway mileage and finances; motor vehicle travel, accidents, sales, and registrations; automobile operating costs; and characteristics of public transit, railroads, and pipelines.

The principal compiler of data on public roads and on operation of motor vehicles is the U.S. Department of Transportation's (DOT) Federal Highway Administration (FHWA). These data appear in FHWA's annual *Highway Statistics*. The U.S. Interstate Commerce Commission (ICC) presents data on interstate land transport in its publications, the *Annual Report to Congress* and the *Transport Statistics in the United States*, which contain data on railroads and motor carriers subject to ICC regulations.

The U.S. National Highway Traffic Safety Administration issues data on traffic accident deaths and death rates in two annual reports: the *Fact Book* and the *Fatal Accident Reporting System Annual Report*. DOT's Federal Railroad Administration presents data on accidents involving railroads in its annual *Accident/Incident Bulletin*, and the *Rail-Highway Crossing Accident/Incident and Inventory Bulletin*.

Various censuses and surveys conducted by the U.S. Bureau of the Census also provide data. Results of the censuses of transportation are presented in the *Truck Inventory and Use Survey*. The *Annual Survey of Manufactures* and reports of the censuses of manufactures, wholesale and retail trade, and service industries contain statistics on the motor vehicle and equipment industry and on retail, wholesale, and services aspects of this industry. Data on persons commuting to work were collected as part of the 1980 census and are in various census reports.

Data are also presented in many nongovernment publications. Among them are: The weekly and annual *Cars of Revenue Freight Loaded* and the annual *Yearbook of Railroad Facts*, both published by the Association of American Railroads, Washington, DC; *Bus Facts*, issued annually by the American Bus Association, Washington, DC; and the *Transit Fact Book*, containing electric railway and motorbus statistics, published annually by the American Public Transit Association, Washington, DC. Useful annual handbooks in the field of transportation are *Motor Vehicle Facts and Figures* and *World Motor Vehicle Data*, issued by the Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI; *Accident Facts*, issued by the National Safety Council, Chicago, IL; and *Transportation in America*, issued by the Transportation Policy Associates, Washington, DC.

**Urban and rural highway mileage.**—Beginning 1980, mileage is classified in urban and rural categories, rather than municipal and rural. Urban denotes the Federal-aid legislation definition of an area. Such areas include, as a minimum, a census place with a population of 5,000 to 49,999 or a designated urbanized area with a population of 50,000 or more. These Federal-aid urban areas may extend beyond corporate and census boundaries, and thus are not necessarily coextensive with municipal boundaries. Rural in 1980 refers to non-Federal-aid urban area mileage. Prior to 1980, municipal referred to roads within incorporated places, densely populated New England towns, and certain of the more populous unincorporated areas and rural to non-municipal roads.

**Federal-aid highway systems.**—Federal law provides that Federal funds be matched in varying proportions with State funds for the costs of planning, engineering, right-of-way acquisition, and construction of highways. Other costs, such as maintenance and policing, are borne entirely by the States and local agencies.

Effective July 1, 1976, a uniform road classification system was implemented which shortened the mileage of the highway system and redefined the three main systems of Federal-aid routes. The Federal-aid primary system is comprised of a network of main roads important to interstate, statewide, and regional travel. The system consists of main rural roads and their extensions into or through urban areas. The Federal-aid secondary system consists of rural roads of a more local nature, such as those which connect county seats and the larger population centers not served by

the primary system. The Federal-aid urban system is located in urban places of 5,000 or more persons and consists of major urban roads and streets, except those on the primary system.

**Regulatory bodies.**—The ICC, created by the U.S. Congress to regulate transportation in interstate commerce, has jurisdiction over railroads, trucking companies, bus lines, freight forwarders, water carriers, coal slurry pipelines, and transportation brokers. The Federal Energy Regulatory Commission is responsible for setting rates and charges for transportation and sale of natural gas and for establishing rates or charges for transportation.

**Motor carriers.**—For 1960-1973, class I for-hire motor carriers of freight were classified by the ICC as those with \$1 million or more of gross annual operating revenue; 1974-1979, the class I minimum was \$3 million. Effective January 1, 1980 class I carriers are those with \$5 million or more in revenue. For 1960-1968, class I motor carriers of passengers were classified by the ICC as those with \$200,000 or more of gross annual operating revenue; for 1969-1976, as those with revenues of \$1 million or more; and since 1977, as those with \$3 million or more.

**Railroads.**—Railroad companies reporting to the ICC are divided into specific groups as follows: (1) Regular line-haul (interstate) railroads (and their non-operating subsidiaries); (2) switching and terminal railroads; (3) private railroads prior to 1964 (identified by ICC as "circular" because they reported on brief circulars); and (4) unofficial railroads, so designated when their reports are received too late for tabulation. For the most part, the last 3 groups are not included in the statistics shown here.

For years prior to 1978, class I railroads were those with annual revenues of \$1 million or more for 1950-1955; \$3 million or more for 1956-1964; \$5 million or more for 1965-1975; and \$10 million or more for 1976-1977. In 1978, the classification became class I, those having more than \$50 million gross annual operating revenue; class II, from \$10 million to \$50 million; and class III, less than \$10 million. Effective January 1, 1982, the ICC adopted a procedure to adjust the threshold for inflation by restating current revenues in constant 1978 dollars. In 1986, the criteria for class I and class II railroads were \$88.5 million and \$17.7 million, respectively. Also effective January 1, 1982, the ICC adopted a *Carrier Classification Index Survey Form* for carriers not filing annual report form R-1 with the commission. Class II and class III railroads are currently exempted from filing any financial report with the Commission. The form is used for reclassifying carriers.

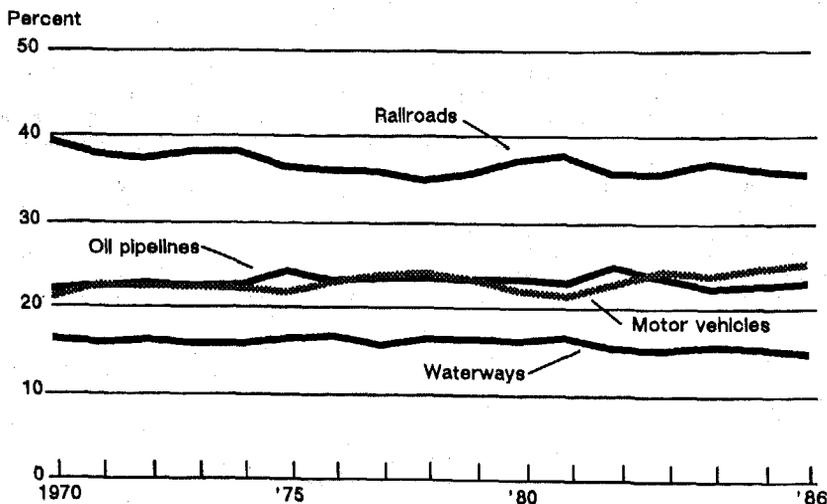
**Statistical reliability.**—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability, see Appendix III.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

**Statistics for States and metropolitan statistical areas (MSAs).**—Data for States and MSAs may also be found in *State and Metropolitan Area Data Book 1986*. For cross-references, see Appendix V.

Figure 21.1

**Ton-Miles of Domestic Intercity Freight Traffic—Percent Distribution by Type of Transportation: 1970 to 1986**



**NO. 976. PASSENGER AND FREIGHT TRANSPORTATION OUTLAYS, BY TYPE OF TRANSPORT:**  
1970 TO 1986

[In billions of dollars. Freight data include outlays for mail and express. ICC=Interstate Commerce Commission]

TYPE OF TRANSPORT	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986, est.
<b>Total outlays</b> <sup>1</sup> .....	<b>195.6</b>	<b>297.8</b>	<b>348.9</b>	<b>392.2</b>	<b>446.1</b>	<b>492.4</b>	<b>540.9</b>	<b>595.8</b>	<b>588.7</b>	<b>638.7</b>	<b>706.0</b>	<b>742.0</b>	<b>757.0</b>
Passenger, total.....	114.9	187.4	221.8	248.3	279.3	307.6	336.9	373.5	377.7	409.0	455.7	483.3	489.6
Private transportation.....	99.6	161.3	191.8	215.0	241.9	263.9	284.8	317.4	320.6	347.2	387.0	412.8	417.6
Automobiles <sup>2</sup> .....	97.0	156.6	186.6	210.0	235.9	256.8	276.7	308.0	312.4	339.8	378.8	404.3	410.0
New and used cars.....	32.1	46.0	59.7	70.4	80.4	77.1	73.3	82.6	85.7	105.6	125.7	138.5	150.2
Tires, tubes, accessories.....	7.1	12.4	13.8	15.8	17.2	19.8	22.2	24.6	24.9	26.9	27.5	28.4	28.9
Gasoline and oil.....	29.9	53.9	58.6	66.7	60.3	78.3	99.7	111.3	106.3	109.9	106.7	108.1	92.5
Insurance less claims.....	4.4	4.5	6.4	9.5	10.2	10.3	11.5	10.8	11.2	12.5	12.0	11.8	12.4
Interest on debt.....	4.7	7.3	8.6	10.4	12.8	15.4	17.5	21.0	21.8	19.6	25.1	24.5	25.0
Registration and operator's permit fees.....	1.9	2.3	2.7	2.8	3.0	3.1	3.3	3.5	3.8	4.1	4.5	5.3	5.6
Repair, greasing, washing, parking, tolls <sup>3</sup> .....	13.2	22.1	25.0	29.5	33.0	36.7	38.0	41.5	43.5	45.7	50.4	56.2	59.0
Air.....	2.6	4.7	5.2	5.6	5.9	7.1	8.1	9.4	8.2	7.4	8.2	8.3	7.8
Aircraft.....	.4	1.0	1.2	1.5	1.7	2.1	2.9	3.8	2.8	1.9	2.5	2.3	2.0
Operating costs.....	2.3	3.8	4.0	4.1	4.2	5.0	5.2	5.6	5.4	6.5	5.7	6.0	5.6
For-hire transportation.....	15.3	26.2	30.0	33.3	37.3	43.3	52.2	56.1	57.1	61.8	68.7	70.8	72.0
Local <sup>4</sup> .....	5.4	10.5	12.1	12.7	13.9	15.4	18.5	20.4	21.3	22.3	23.6	24.2	24.9
Bus and transit <sup>5</sup> .....	1.8	4.7	5.8	5.9	6.7	7.5	9.2	10.1	10.3	11.4	11.7	11.8	12.0
School bus.....	1.2	2.2	2.4	2.5	2.7	3.2	3.8	4.7	5.0	5.2	5.8	6.1	6.3
Taxi.....	2.1	3.4	3.8	4.1	4.3	4.5	5.2	5.2	5.6	5.3	5.5	5.6	5.9
Intercity.....	7.7	12.9	14.9	17.2	19.6	23.3	28.4	30.6	30.5	33.5	38.5	39.5	40.0
Air.....	6.6	11.2	13.0	14.9	17.1	20.4	25.1	26.8	26.8	29.7	33.6	35.9	36.6
Rail <sup>6</sup> .....	.3	.6	.9	1.2	1.3	1.4	1.6	1.9	1.8	1.8	1.8	1.8	1.6
Bus.....	.8	1.0	1.1	1.1	1.2	1.4	1.7	1.8	1.9	2.0	2.0	2.0	1.8
International.....	2.2	2.7	2.9	3.4	3.8	4.6	5.3	5.3	5.4	6.0	6.8	7.0	7.1
Freight, total <sup>4</sup> .....	83.8	115.5	133.2	150.4	174.0	192.9	212.1	234.6	220.9	240.5	262.1	271.7	281.6
Highway.....	62.5	84.8	98.0	111.4	128.8	142.7	155.4	173.3	162.7	180.5	195.6	205.5	216.1
Truck, intercity.....	33.6	47.4	56.2	67.4	78.6	90.2	94.6	100.2	99.9	111.1	120.7	128.9	137.0
ICC regulated.....	14.6	22.0	26.0	31.0	36.5	41.2	43.0	47.9	44.1	46.5	52.1	54.2	58.1
Non-ICC regulated.....	19.0	25.4	30.2	36.4	43.1	49.0	51.6	52.3	55.8	64.6	68.6	74.7	78.9
Truck, local.....	28.8	37.3	41.6	43.9	49.1	52.3	60.5	72.8	62.5	69.2	74.7	76.4	78.9
Rail.....	11.9	16.5	19.2	20.5	21.9	24.8	27.7	30.5	27.1	27.3	30.5	28.2	27.5
Water.....	5.1	7.9	8.9	10.3	12.4	13.4	14.8	15.7	15.6	16.2	17.8	18.7	18.9
Oil pipeline.....	1.4	2.2	2.5	3.2	5.5	6.2	7.1	7.4	7.9	8.3	8.7	8.3	8.6
Air carrier.....	1.2	1.8	2.1	2.4	2.7	2.8	4.0	4.3	4.4	5.0	6.0	6.7	7.2

<sup>1</sup> Total outlays less than sum of passenger and freight totals, as estimated freight costs included in costs of new cars, gasoline, oil, tires, and tubes have been excluded to prevent duplication. <sup>2</sup> Includes business-owned vehicles. <sup>3</sup> Includes storage and rental. <sup>4</sup> Includes items not shown separately. <sup>5</sup> Includes Federal, State and local government operating subsidies and capital grants. <sup>6</sup> Includes Federal operating subsidies and capital grants for Amtrak.

Source: Transportation Policy Associates, Washington, DC, *Transportation in America*, March 1987, with periodic supplements. (Copyright.)

**NO. 977. PERSONAL CONSUMPTION EXPENDITURES FOR TRANSPORTATION: 1970 TO 1986**

[In billions of dollars, except percent. Represents market value of purchases of goods and services by individuals and nonprofit institutions]

TYPE OF PRODUCT OR SERVICE	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
<b>Total expenditures</b> .....	<b>81.5</b>	<b>131.2</b>	<b>157.1</b>	<b>181.5</b>	<b>199.9</b>	<b>222.0</b>	<b>238.5</b>	<b>261.5</b>	<b>267.6</b>	<b>295.4</b>	<b>329.5</b>	<b>358.8</b>	<b>365.3</b>
Percent of total personal consumption <sup>1</sup> .....	12.7	13.0	13.9	14.4	14.2	14.2	13.8	13.7	13.0	13.2	13.6	13.6	13.0
User-operated transportation.....	74.5	119.9	144.0	166.8	183.7	203.5	216.8	238.0	243.7	270.5	301.6	329.7	335.8
New autos.....	21.9	29.3	38.2	44.4	48.5	49.3	46.4	50.7	53.3	66.2	77.6	88.9	101.5
Net purchases of used autos.....	5.2	8.5	11.1	12.2	13.7	14.8	14.9	17.8	19.6	21.6	30.2	34.5	33.8
Other motor vehicles.....	2.7	7.7	12.1	15.9	19.2	17.6	12.3	12.9	15.6	20.7	28.4	31.3	34.6
Tires, tubes, accessories, other parts.....	6.1	10.3	11.4	12.9	13.7	15.3	16.7	19.1	20.2	21.9	23.3	25.0	25.0
Repair, greasing, washing, parking <sup>2</sup> .....	12.9	19.8	22.1	25.7	28.0	31.1	32.3	34.8	35.4	38.4	42.8	48.3	51.8
Gasoline and oil.....	21.9	39.7	43.0	46.9	51.3	66.1	83.7	92.7	89.1	90.2	90.0	92.8	75.3
Bridge, tunnel, ferry, road tolls.....	.7	.8	.9	.9	1.0	1.0	1.1	1.1	1.2	1.2	1.3	1.3	1.4
Insurance premiums less claims paid.....	3.8	3.8	5.3	7.8	8.3	8.4	9.4	8.9	9.1	10.3	10.0	9.9	12.4
Purchased local transportation <sup>3</sup> .....	3.0	4.0	4.4	4.8	5.1	5.6	5.8	6.2	6.4	6.5	6.9	7.1	7.6
Transit systems.....	1.6	1.9	2.0	2.1	2.2	2.4	2.4	2.7	3.0	3.1	3.4	3.5	3.8
Taxicab.....	1.2	2.0	2.2	2.4	2.6	2.9	3.1	3.2	3.0	2.9	3.0	3.1	3.3
Purchased intercity transportation.....	4.0	7.3	8.6	9.9	11.1	13.0	15.9	17.3	17.6	18.4	21.0	22.0	21.9
Airline.....	3.1	5.9	7.1	8.3	9.3	10.9	13.4	14.5	14.7	15.3	17.5	18.3	18.1
Bus.....	.5	.7	.8	.8	.8	1.0	1.2	1.3	1.9	1.2	1.2	1.2	1.1
Railway and other <sup>4</sup> .....	.4	.7	.8	.9	.9	1.1	1.3	1.5	1.6	1.9	2.2	2.5	2.7

<sup>1</sup> See table 676. <sup>2</sup> Includes rental and storage. <sup>3</sup> Includes railway commutation, not shown separately. <sup>4</sup> Railway excludes commutation; "other" consists of baggage charges, coastal and inland waterway fares, travel agents' fees and airport bus fares.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.

## NO. 978. EMPLOYMENT AND EARNINGS IN TRANSPORTATION, BY INDUSTRY: 1970 TO 1986

[Annual averages of monthly figures. Based on Current Employment Statistics program; see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series Q 36-42]

SIC <sup>1</sup> code	INDUSTRY	1970	1975	1980	1981	1982	1983	1984	1985	1986
(x)	NUMBER (1,000)									
	<b>Total</b> .....	<b>2,684</b>	<b>2,636</b>	<b>2,962</b>	<b>2,922</b>	<b>2,788</b>	<b>2,745</b>	<b>2,917</b>	<b>3,003</b>	<b>3,041</b>
4010	Railroads.....	634	548	532	495	429	376	378	359	331
4011	Class I railroads.....	566	498	482	457	398	348	345	323	294
41	Local and interurban passengers.....	269	270	265	265	263	257	271	278	282
421, 3	Trucking, incl. terminals.....	999	1,024	1,189	1,168	1,125	1,132	1,227	1,267	1,282
422	Public warehousing.....	84	84	91	88	84	85	91	96	100
44	Water transportation.....	213	195	213	219	202	191	191	186	174
45	Air transportation.....	352	363	453	455	444	455	489	522	570
46	Pipelines, exc. natural gas.....	18	18	21	22	21	20	19	19	18
47	Transportation services.....	115	134	198	210	220	229	253	276	284
	AVERAGE WEEKLY EARNINGS (dol.)									
4011	Class I railroads.....	172	262	427	458	484	542	573	595	608
41	Local and interurban passengers.....	(NA)	148	217	231	248	252	258	261	275
421, 3	Trucking, incl. terminals.....	164	247	366	395	401	408	415	412	415
422	Public warehousing.....	121	171	248	266	277	288	306	315	318
46	Pipelines, exc. natural gas.....	169	280	441	481	536	586	597	629	657

NA Not available. <sup>1</sup> Standard Industrial Classification, see text, section 13.

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly.

## NO. 979. VOLUME OF DOMESTIC INTERCITY FREIGHT AND PASSENGER TRAFFIC, BY TYPE OF TRANSPORT: 1970 TO 1986

[A ton-mile is the movement of 1 ton (2,000 pounds) of freight for the distance of 1 mile. A passenger-mile is the movement of 1 passenger for the distance of 1 mile. Compries public and private traffic, both revenue and nonrevenue. See also *Historical Statistics, Colonial Times to 1970*, series Q1-22]

TYPE OF TRANSPORT	1970	1973	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986 <sup>1</sup>
<b>FREIGHT TRAFFIC</b> (bil. ton-miles)													
Total.....	1,936	2,232	2,066	2,307	2,457	2,573	2,487	2,430	2,252	2,337	2,515	2,458	2,502
Railroads.....	771	858	759	834	868	927	932	924	810	841	935	995	896
Motor vehicles.....	412	505	454	555	599	608	555	527	520	575	608	610	627
Inland waterways <sup>2</sup> .....	319	358	342	368	409	425	407	410	351	359	399	382	393
Oil pipelines.....	431	507	507	546	586	608	564	586	558	589	564	564	579
Domestic airways <sup>3</sup> .....	3.3	4.0	3.7	4.2	4.8	4.6	4.8	5.1	5.1	5.9	6.5	6.7	7.3
<b>PERCENT DISTRIBUTION</b>													
Total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Railroads.....	39.82	38.44	36.74	36.15	35.18	36.03	37.47	38.02	36.00	35.99	37.18	36.43	35.80
Motor vehicles.....	21.28	22.63	21.97	24.06	24.28	23.64	22.32	21.89	23.11	24.80	24.10	24.83	25.10
Inland waterways <sup>2</sup> .....	16.48	16.04	16.55	15.95	16.58	16.52	16.37	16.87	15.60	15.36	15.86	15.55	15.70
Oil pipelines.....	22.26	22.72	24.54	23.67	23.75	23.64	23.64	23.21	25.16	23.79	22.58	22.95	23.10
Domestic airways <sup>3</sup> .....	.17	.18	.19	.18	.19	.18	.19	.21	.23	.25	.26	.24	.29
<b>PASSENGER TRAFFIC</b> (bil. passenger-miles)													
Total.....	1,181	1,341	1,354	1,529	1,602	1,590	1,558	1,573	1,609	1,645	1,687	1,744	1,815
Private automobiles.....	1,026	1,183	1,171	1,316	1,362	1,322	1,300	1,319	1,345	1,364	1,388	1,418	1,460
Domestic airways <sup>5</sup> .....	119	143	148	177	203	228	219	216	227	245	263	291	320
Bus <sup>6</sup> .....	25	26	25	26	26	28	27	27	27	26	25	24	24
Railroads <sup>7</sup> .....	11	9	10	10	11	12	11	11	10	10	10	11	12
<b>PERCENT DISTRIBUTION</b>													
Total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Private automobiles.....	86.88	86.73	86.48	86.07	85.02	83.14	83.44	83.80	83.53	82.82	82.28	81.31	80.43
Domestic airways <sup>5</sup> .....	10.08	10.66	10.93	11.58	12.67	14.34	14.06	13.72	14.11	14.88	15.59	16.68	17.64
Bus <sup>6</sup> .....	2.12	1.94	1.85	1.70	1.62	1.76	1.73	1.72	1.68	1.64	1.48	1.38	1.27
Railroads <sup>7</sup> .....	.93	.67	.74	.65	.69	.75	.71	.76	.68	.67	.65	.63	.66

<sup>1</sup> Estimated by source, based on available data. <sup>2</sup> Includes Great Lakes and inland waterways, but not coastwise, traffic.

<sup>3</sup> Revenue service only for scheduled and non-scheduled carriers, with small Section 418 all-cargo carriers included from 1978.

<sup>4</sup> Includes express, mail, and excess baggage. <sup>5</sup> Includes general aviation (mostly private business) flying. <sup>6</sup> Excludes school and urban transit buses. <sup>7</sup> Includes electric railways and rail commuter service.

Source: Transportation Policy Associates, Washington, DC, *Transportation in America*, March 1987, with periodic supplements. (Copyright.)

**NO. 980. TRANSPORTATION ACCIDENTS, AND RESULTING DEATHS AND INJURIES, BY TYPE OF TRANSPORT: 1970 TO 1986**

[For motor vehicle data, see also tables 997 and 998; for railroad data, see also table 1017; for air carrier and general aviation data, see also tables 1024 and 1028]

YEAR AND CASUALTY	Total (1,000)	TYPE OF TRANSPORT										Hazardous materials <sup>11</sup>		
		Motor vehicle <sup>1</sup> (1,000)	Railroad <sup>2</sup>	Air carriers				General aviation <sup>6</sup>	Recreational boating <sup>7</sup>	Gas pipelines <sup>8</sup>	Liquid pipelines <sup>9</sup>		Waterborne <sup>10</sup>	
				Total	Air-lines <sup>3</sup>	Com-muter air carriers <sup>4</sup>	On-demand air carriers <sup>5</sup>							
<b>Accidents:</b>														
1970.....	16,013	16,000	8,095	(NA)	(NA)	(NA)	(NA)	(NA)	3,803	1,019	351	(NA)	(NA)	
1975.....	16,524	16,500	8,041	237	37	48	152	3,995	6,308	1,373	254	3,310	10,951	
1980.....	17,925	17,900	8,451	228	19	38	171	3,590	5,513	1,996	219	4,624	15,737	
1981.....	18,020	18,000	5,781	214	26	31	157	3,500	5,208	1,695	239	3,503	10,070	
1982.....	18,118	18,100	4,589	178	19	27	132	3,231	5,377	1,711	200	3,174	6,336	
1983.....	18,319	18,300	3,906	184	25	19	140	3,060	5,569	1,575	161	4,704	5,845	
1984.....	18,817	18,800	3,900	185	18	21	146	3,008	5,700	965	188	3,275	5,776	
1985.....	19,348	19,300	3,275	196	23	21	152	2,745	6,237	335	181	3,439	6,014	
1986.....	(NA)	(NA)	2,620	157	25	15	117	2,568	6,407	290	204	2,694	5,671	
<b>Deaths:</b>														
1970.....	54.8	52.6	785	(NA)	(NA)	(NA)	(NA)	(NA)	1,418	22	4	(NA)	(NA)	
1975.....	48.2	44.5	575	221	124	28	69	1,252	1,466	14	7	243	27	
1980.....	54.5	51.1	584	143	1	37	105	1,239	1,360	11	3	206	19	
1981.....	52.5	49.3	556	132	4	34	94	1,282	1,206	17	5	154	25	
1982.....	47.2	43.9	512	320	234	14	72	1,182	1,178	31	-	223	12	
1983.....	45.7	42.6	498	89	15	12	62	1,081	1,241	12	-	289	8	
1984.....	44.6	44.3	598	102	4	46	52	1,115	1,063	35	-	113	7	
1985.....	47.3	43.8	454	640	526	37	77	976	1,116	28	5	167	8	
1986.....	46.8	46.1	474	72	4	4	64	973	1,066	23	3	63	16	
<b>Injuries:</b>														
1970.....	2,024	2,000	21,327	(NA)	(NA)	(NA)	(NA)	(NA)	780	347	21	(NA)	(NA)	
1975.....	1,858	1,800	54,306	109	71	6	32	728	2,136	819	17	97	648	
1980.....	2,066	2,000	62,246	74	17	14	43	675	2,650	310	15	176	626	
1981.....	1,956	1,900	53,003	82	21	24	37	597	2,474	74	22	141	643	
1982.....	1,741	1,700	37,638	98	31	28	39	620	2,682	220	8	271	130	
1983.....	1,636	1,600	32,196	49	8	12	29	566	2,913	242	9	209	193	
1984.....	1,739	1,700	35,660	67	9	23	35	595	2,709	229	19	134	257	
1985.....	1,705	1,700	31,592	92	30	16	43	517	2,757	121	17	187	253	
1986.....	(NA)	(NA)	24,281	54	15	10	27	542	2,847	106	32	87	315	

- Represents zero. NA Not available. <sup>1</sup>Data on deaths are from U.S. National Highway Traffic Safety Administration and are based on 30 day definition; see table 997. Other data are from National Safety Council. <sup>2</sup>Train accidents cover only those accidents which result in damages to railroad property exceeding amounts specified by the U.S. Federal Railroad Administration. The reporting threshold was raised from \$750 to \$1,750 in 1975; to \$2,900 in 1979; to \$3,700 in 1981; to \$4,500 in 1983; and to \$4,900 in 1985. Grade crossing accidents are also included when classified as a train accident. Deaths exclude fatalities in railroad-highway grade crossing accidents. <sup>3</sup>Includes scheduled and non-scheduled (charter) air carriers operating under 14 CFR 121, 125, and 127. Injuries include only serious injuries. <sup>4</sup>All scheduled service operating under 14 CFR 135. Injuries include only serious injuries. <sup>5</sup>All non-scheduled service operating under 14 CFR 135. Injuries include only serious injuries. <sup>6</sup>1975-1984 data exclude commuter and on-demand air taxis operating under 14 CFR 135. <sup>7</sup>Accidents are required to be reported to the U.S. Coast Guard whenever they result in a death; a person being injured or receiving medical treatment beyond first aid; damages exceed \$200; or a person's disappearance. <sup>8</sup>Pipeline accidents/incidents are credited to the year in which they occurred beginning with 1983 data; prior data are credited to the year the accident/incident reports were filed. Fatalities and injuries as reported in annual report. <sup>9</sup>Pipelines carrying hazardous materials, petroleum, and liquid petroleum products. <sup>10</sup>Covers accidents involving commercial vessels which must be reported to U.S. Coast Guard if there is property damage exceeding \$1,500; material damage affecting the seaworthiness or efficiency of a vessel; stranding or grounding; loss of life; or injury causing a person's incapacity for more than 3 days. <sup>11</sup>Accidents, deaths, and injuries involving hazardous materials cover all types of transport.

Source: U.S. Dept. of Transportation, Transportation Systems Center, Cambridge, MA, *Transportation Safety Information Report*, annual.

**NO. 981. FEDERAL OUTLAYS FOR TRANSPORTATION, BY FUNCTION: 1970 TO 1987**

[In millions of dollars. For fiscal years ending in year shown; see text, section 9]

FUNCTION	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987 est.
<b>Total outlays.....</b>	<b>7,008</b>	<b>10,918</b>	<b>15,521</b>	<b>17,532</b>	<b>21,329</b>	<b>23,379</b>	<b>20,625</b>	<b>21,334</b>	<b>23,669</b>	<b>25,838</b>	<b>26,117</b>	<b>27,017</b>
Percent of total outlays.....	3.6	3.3	3.4	3.5	3.6	3.4	2.8	2.6	2.8	2.7	2.8	2.7
Average annual percent change <sup>1</sup> .....	7.4	19.0	4.7	13.0	21.7	9.6	-11.8	3.4	10.9	9.2	8.8	-3.9
Ground transportation.....	4,678	7,027	10,431	12,115	15,274	17,074	14,321	14,265	16,158	17,608	18,725	17,866
Air transportation.....	1,408	2,387	3,243	3,355	3,723	3,814	3,526	4,000	4,415	4,885	5,287	5,304
Water transportation.....	895	1,430	1,787	1,969	2,229	2,381	2,687	2,969	3,010	3,201	3,964	3,717
Other transportation.....	26	74	61	93	104	110	90	99	85	137	140	130

<sup>1</sup> Change from immediate prior year.

Source: U.S. Office of Management and Budget, *Budget of the United States Government*, annual.

**No. 982. HIGHWAY MILEAGE—URBAN AND RURAL, BY TYPE OF CONTROL, AND FEDERAL-AID HIGHWAY SYSTEM: 1955 TO 1985**

(In thousands, except percent. As of Dec. 31. Beginning 1980, data for urban and rural mileage are not comparable to prior years because of classification changes; see text, section 21. See also *Historical Statistics, Colonial Times to 1970*, series Q 50, 51, and 55)

TYPE AND CONTROL	1955	1960	1965	1970	1975	1979	1980	1981	1982	1983	1984	1985
<b>Total mileage<sup>1</sup></b> .....	<b>3,418</b>	<b>3,546</b>	<b>3,690</b>	<b>3,730</b>	<b>3,838</b>	<b>3,918</b>	<b>3,955</b>	<b>3,853</b>	<b>3,866</b>	<b>3,880</b>	<b>3,892</b>	<b>3,862</b>
Urban mileage <sup>2</sup> .....	373	430	506	561	639	694	624	632	641	662	674	691
Under State control.....	42	50	65	74	84	86	79	90	103	100	103	111
Under local control.....	331	379	442	487	555	607	543	540	536	562	571	578
Rural mileage.....	3,045	3,116	3,183	3,169	3,199	3,224	<sup>2</sup> 3,331	3,221	3,226	3,217	3,218	3,171
Percent surfaced <sup>4</sup> .....	63.8	69.5	72.3	76.1	77.6	77.5	77.5	86.1	85.7	86.0	87.5	88.1
Under State control.....	620	659	687	707	711	697	702	726	<sup>5</sup> 825	817	818	773
Under local control.....	2,333	2,345	2,346	2,275	2,261	2,281	2,270	2,236	<sup>5</sup> 2,140	2,138	2,134	2,173
Under Federal control.....	93	112	150	188	227	244	262	256	261	262	266	225
Federal-aid highway system: <sup>6</sup>												
Primary.....	235	265	269	272	266	303	300	298	298	300	300	301
Interstate.....	(x)	10	21	32	37	40	41	42	42	43	43	44
Urban.....	(x)	(x)	(x)	(x)	65	124	124	129	134	137	140	144
Secondary.....	514	601	640	647	643	397	398	401	402	397	398	398

X Not applicable. <sup>1</sup> Prior to 1980, includes public and nonpublic road mileage; beginning 1981, includes only public road mileage as defined 23 USC 402. <sup>2</sup> Includes 99,000 miles of nonpublic road mileage previously contained in other rural categories. <sup>3</sup> Prior to 1980, represents municipal mileage; see text, section 21. <sup>4</sup> Covers soil-surfaced roads and roads with slag, gravel, stone, bituminous, or concrete surfaces. <sup>5</sup> Incomplete reporting from Alaska, Missouri, and Pennsylvania for control accounts for changes between 1981 and 1982. <sup>6</sup> For definition, see text, section 21. Beginning 1979, data represent actual mileage open to traffic rather than total highway miles carrying interstate traffic.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

**No. 983. HIGHWAY MILEAGE—URBAN, RURAL, AND FEDERAL-AID HIGHWAY SYSTEM: 1985**

[As of Dec. 31. For definition of urban, rural, and Federal-aid highway system roads; see text, section 21]

STATE	Urban (1,000)	Rural (1,000)	FEDERAL-AID HIGHWAY SYSTEM <sup>1</sup>				STATE	Urban (1,000)	Rural (1,000)	FEDERAL-AID HIGHWAY SYSTEM <sup>1</sup>			
			Total		Urban	Sec-ondary				Total		Urban	Sec-ondary
			Primary	Inter-state <sup>2</sup>						Primary	Inter-state <sup>2</sup>		
<b>U.S.</b> .....	<b>690.9</b>	<b>3,171.0</b>	<b>257,413</b>	<b>43,593</b>	<b>144,055</b>	<b>398,248</b>	MO.....	15.0	104.1	6,903	1,142	2,362	18,139
AL.....	14.5	73.3	6,679	875	2,737	11,390	MT.....	2.3	89.2	5,478	1,169	325	4,722
AK.....	1.6	10.0	1,043	1,091	233	1,839	NE.....	4.9	87.2	7,227	481	1,064	11,441
AZ.....	10.0	66.9	3,696	1,166	2,857	3,221	NV.....	3.0	40.8	1,850	543	512	2,331
AR.....	7.6	69.5	5,130	542	1,114	7,170	NH.....	2.4	12.1	1,136	207	714	1,233
CA.....	66.4	107.7	11,076	2,388	16,740	11,119	NJ.....	22.4	11.5	1,463	385	5,349	1,720
CO.....	10.7	65.2	4,292	924	2,259	3,405	NM.....	5.4	48.2	3,556	1,000	598	3,917
CT.....	10.7	8.9	1,269	339	2,948	902	NY.....	37.0	73.1	8,433	1,497	8,670	6,345
DE.....	1.5	3.8	432	41	305	602	NC.....	17.9	75.4	4,483	795	2,824	10,312
DC.....	1.1	—	179	12	233	—	ND.....	1.6	84.4	5,537	571	433	10,487
FL.....	31.7	67.3	8,395	1,324	5,566	4,682	OH.....	30.5	82.5	6,645	1,549	7,613	11,592
GA.....	19.7	86.5	10,050	1,225	3,936	13,962	OK.....	12.3	98.4	5,308	927	2,968	10,280
HI.....	1.4	2.6	509	37	317	448	OR.....	8.4	85.6	5,004	716	1,987	7,768
ID.....	2.5	86.7	2,665	605	724	4,178	PA.....	29.1	86.6	9,913	1,524	6,983	8,039
IL.....	31.0	103.7	9,710	1,788	6,688	12,934	RI.....	4.4	1.6	436	70	899	197
IN.....	17.5	73.9	4,968	1,119	4,530	9,331	SC.....	9.0	54.2	5,607	784	1,157	8,509
IA.....	8.6	103.9	8,851	782	2,402	13,437	SD.....	1.7	71.5	5,799	677	373	11,202
KS.....	8.6	123.8	8,071	815	1,859	22,589	TN.....	13.7	70.1	6,072	1,057	3,048	5,335
KY.....	7.5	62.0	3,779	739	1,847	7,245	TX.....	69.4	212.8	16,680	3,148	7,510	32,594
LA.....	12.4	45.9	3,156	686	2,143	7,358	UT.....	5.1	43.4	2,630	848	847	2,569
ME.....	2.4	19.6	2,007	312	694	2,727	VT.....	1.0	13.1	1,110	320	280	1,947
MD.....	11.6	16.0	2,195	386	2,106	1,897	VA.....	13.8	51.7	5,463	1,027	3,266	10,187
MA.....	20.6	13.2	2,215	562	5,903	2,007	WA.....	15.4	65.6	5,028	727	3,897	7,205
MI.....	26.6	91.0	5,963	1,131	4,832	19,019	WV.....	3.0	32.2	2,450	479	785	6,360
MN.....	13.5	118.5	9,321	884	2,090	16,490	WI.....	14.0	94.5	8,680	578	2,869	11,841
MO.....	7.0	64.7	5,693	686	1,684	11,739	WY.....	1.6	36.6	2,983	912	499	2,287

— Represents zero. <sup>1</sup> Highway mileage open to traffic. <sup>2</sup> Although the interstate system is part of the Federal-aid primary system, its mileage is shown separately.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

**NO. 984. HIGHWAY MILEAGE—PAVEMENT CONDITION FOR URBAN AND RURAL AREAS, BY TYPE OF ROAD SYSTEM: 1978 TO 1985**

[Highway pavement condition is classified by the Present Serviceability Rating (PSR) system, which ranges from a high of 5.0 down to 0.1. The reported ranges are defined as: PSR 5.0-3.5, pavements give a first class ride and exhibit few, if any, visible signs of surface wear. Of the quality of new or nearly new pavements. PSR 3.4-2.0, pavements have a riding quality somewhat inferior to that of new pavements or may even be barely tolerable at high speeds. Surfaces may show signs of cracking, substantial patching, and rutting. PSR 1.9-0.1, pavements show extensive wear to the point of needing resurfacing or may even need complete reconstruction]

PAVEMENT CONDITION	INTERSTATE ROAD SYSTEMS				ARTERIAL ROAD SYSTEMS				COLLECTOR ROAD SYSTEMS			
	1978	1980	1984	1985	1978	1980	1984	1985	1978	1980	1984	1985
<b>URBAN AREAS</b>												
Percent of road mileage rated—												
PSR 0.1-1.9 (0.1-2.4)	8	6	9	7	5	7	6	5	7	9	8	7
PSR 2.0-3.4 (2.5-3.4)	34	26	36	38	48	42	52	53	59	50	58	58
PSR 3.5-5.0	58	68	55	55	47	51	42	42	34	41	34	35
<b>RURAL AREAS</b>												
Percent of road mileage rated—												
PSR 0.1-1.9 (0.1-2.4)	9	5	8	7	6	6	6	4	9	16	11	7
PSR 2.0-3.4 (2.5-3.4)	28	26	34	33	52	46	50	51	66	55	56	46
PSR 3.5-5.0	63	69	58	60	42	48	44	45	25	29	33	47

<sup>1</sup> PSR range shown in parentheses applies to Interstate roads only.

**NO. 985. RECEIPTS AND DISBURSEMENTS FOR HIGHWAYS, BY TYPE: 1970 TO 1987**

[In millions of dollars. Data compiled from reports of State and local authorities. For Federal highway trust fund receipts, disbursements, and balances, see table 473. State data include District of Columbia]

TYPE	1970	1975	1980	1984	1985	1986	1987, proj.		
							Total <sup>1</sup>	Federal	State
<b>Total receipts</b>	<b>21,747</b>	<b>29,160</b>	<b>39,715</b>	<b>53,822</b>	<b>61,506</b>	<b>64,267</b>	<b>67,560</b>	<b>15,176</b>	<b>35,526</b>
Current income	19,861	26,921	37,604	50,518	54,957	58,989	62,510	15,176	32,526
Imposts on highway users <sup>2</sup>	15,311	18,578	22,859	33,279	35,599	38,743	41,664	13,033	27,976
Other taxes and fees	3,732	6,605	11,908	13,379	15,127	16,030	16,669	1,120	3,190
Investment income and other receipts	918	1,798	3,237	3,860	4,231	4,216	3,977	1,023	1,360
Bond issue proceeds <sup>3</sup>	1,866	2,239	2,111	3,304	6,549	5,278	5,050	-	3,000
Intergovernmental payments <sup>4</sup>	(X)	-13,319	5,546						
Funds drawn from (+) or placed in (-) reserves	-912	-461	+2,080	-3,438	-4,058	-989	-933	-949	-336
Total funds available	20,835	28,699	41,795	50,384	57,448	63,278	66,627	908	40,736
<b>Total disbursements</b>	<b>20,835</b>	<b>28,699</b>	<b>41,795</b>	<b>50,384</b>	<b>57,448</b>	<b>63,278</b>	<b>66,627</b>	<b>908</b>	<b>40,736</b>
Current disbursements	19,583	27,207	40,084	47,852	54,725	60,626	63,806	908	38,956
Capital outlay	11,575	14,398	20,337	22,897	27,138	30,265	31,521	458	23,417
Maintenance and traffic services	4,720	7,286	11,445	15,036	16,032	17,343	18,267	121	7,145
Administration and research	1,275	1,981	3,022	3,637	4,033	4,463	4,793	329	2,998
Law enforcement and safety	1,303	2,413	3,824	4,625	5,334	5,950	6,447	-	1,823
Interest on debt	710	1,129	1,456	1,657	2,188	2,605	2,788	-	-
Debt retirement <sup>5</sup>	1,252	1,492	1,711	2,532	2,723	2,652	2,821	-	1,780

- Represents zero. X Not applicable. <sup>1</sup> Includes other levels of government not shown separately. <sup>2</sup> Excludes amounts later allocated for nonhighway purposes. <sup>3</sup> Par value. Excludes issue and redemption of short-term notes or refunding bonds. Premiums and discounts on sale of bonds and accrued interest are included with investment income and other receipts. Redemption premiums and discounts are included with interest on debt. <sup>4</sup> Plus sign (+) indicates net receipt of funds from other levels of government; minus sign (-) indicates net disbursement of funds to other levels.

**NO. 986. DISBURSEMENTS OF STATE HIGHWAY FUNDS BY STATE: 1980 TO 1985**

[In millions of dollars. Comprises disbursements from current revenues or loans for construction, maintenance, interest and principal payments on highway bonds, transfers to local units, and miscellaneous. Includes transactions by State toll authorities. Excludes amounts allocated for collection and nonhighway purposes, and bonds redeemed by refunding. See also *Historical Statistics, Colonial Times to 1970*, series Q 90-94]

STATE	1980	1984	1985	STATE	1980	1984	1985	STATE	1980	1984	1985
<b>U.S.</b>	<b>30,049</b>	<b>35,623</b>	<b>40,891</b>	KS	440	473	506	ND	143	205	199
AL	517	651	875	KY	913	807	831	OH	1,032	1,528	1,622
AK	274	347	383	LA	682	850	879	OK	461	585	668
AZ	365	657	778	ME	164	207	238	OR	482	469	492
AR	425	911	498	MI	663	879	988	PA	1,557	1,989	2,340
CA	1,930	2,535	3,006	MO	704	719	786	RI	72	131	139
CO	411	527	563	MN	997	1,299	1,275	SC	309	404	420
CT	393	529	585	MS	611	857	980	SD	151	201	211
DE	152	209	234	MT	468	463	845	TN	609	710	800
DC	57	99	142	NE	555	695	854	TX	1,882	1,731	1,825
FL	1,261	1,242	1,647	NC	224	268	286	UT	241	327	394
GA	762	812	1,115	NV	274	381	358	VT	87	130	135
HI	134	153	137	NH	152	181	219	WA	894	952	1,165
ID	153	201	229	NJ	662	893	1,229	WV	672	516	582
IL	1,652	1,985	2,087	NM	197	386	384	WY	787	862	1,040
IN	688	755	919	NY	1,650	1,840	2,022		468	655	669
IA	504	650	746	NC	807	845	986		192	277	298

Source of tables 984-986: U.S. Federal Highway Administration, *Highway Statistics*, annual, and releases.

**NO. 987. FEDERAL GRANTS TO STATE AND LOCAL GOVERNMENTS FOR HIGHWAY TRUST FUND AND URBAN MASS TRANSPORTATION ADMINISTRATION (UMTA), BY STATE: 1986**

[Year ending Sept. 30]

STATE	HIGHWAY TRUST FUND		UMTA		STATE	HIGHWAY TRUST FUND		UMTA		STATE	HIGHWAY TRUST FUND		UMTA	
	Total (mil. dol.)	Per capita (dol.)	Total (mil. dol.)	Per capita (dol.)		Total (mil. dol.)	Per capita (dol.)	Total (mil. dol.)	Per capita (dol.)		Total (mil. dol.)	Per capita (dol.)	Total (mil. dol.)	Per capita (dol.)
<b>U.S.</b>	<b>13,134</b>	<b>54.62</b>	<b>3,117</b>	<b>12.96</b>	KY	231	61.72	16	4.23	ND	80	117.59	1	1.62
AL	288	71.12	16	3.99	LA	298	66.27	32	7.01	OH	498	46.31	78	7.26
AK	128	240.40	4	7.69	ME	65	55.58	4	3.32	OK	176	53.12	11	3.45
AZ	246	74.28	11	3.20	MD	285	63.84	100	22.47	OR	179	66.28	53	19.68
AR	157	66.23	5	1.93	MA	165	28.28	257	44.07	PA	802	67.48	195	16.43
CA	855	31.70	439	16.27	MI	397	43.42	79	8.06	RI	80	82.50	14	3.46
CO	231	70.65	40	12.32	MN	297	70.50	22	5.25	SC	141	41.78	11	3.16
CT	190	59.44	48	15.08	MS	180	68.64	6	2.18	SD	80	113.66	2	2.45
DC	49	77.32	4	6.22	MO	340	67.08	40	7.99	TN	300	62.52	23	4.81
DE	48	76.20	118	188.46	MT	132	160.74	3	3.84	TX	931	55.84	140	8.40
FL	449	38.49	85	7.28	NE	132	82.90	14	8.64	UT	189	113.25	15	8.78
GA	397	64.98	23	3.76	NV	117	121.13	4	4.38	VT	60	111.24	1	2.37
HI	53	49.44	10	9.06	NH	59	57.58	2	2.31	VA	358	61.93	23	3.97
ID	96	95.53	2	2.15	NJ	295	38.68	199	26.11	WA	351	78.78	57	12.82
IL	579	50.15	277	23.94	NM	116	78.20	4	3.00	WV	234	121.88	9	4.63
IN	186	33.85	45	8.11	NY	673	37.87	492	27.68	WI	208	43.44	50	10.49
IA	176	61.57	12	4.35	NC	264	41.70	15	2.29	WY	96	188.70	1	1.44
KS	197	80.11	5	2.09										

Source: U.S. Bureau of the Census, *Federal Expenditures by State for Fiscal Year 1986*, March 1987.
**NO. 988. STATE GASOLINE TAX RATES, 1985 AND 1986, AND MOTOR FUEL TAX RECEIPTS, 1985**
[See also *Historical Statistics, Colonial Times to 1970*, series Q 233-234]

STATE	RATE <sup>1</sup> (cents per gal.)		Re- ceipts, <sup>2</sup> 1985 (mil. dol.)	STATE	RATE <sup>1</sup> (cents per gal.)		Re- ceipts, <sup>2</sup> 1985 (mil. dol.)	STATE	RATE <sup>1</sup> (cents per gal.)		Re- ceipts, <sup>2</sup> 1985 (mil. dol.)
	1985	1986			1985	1986			1985	1986	
<b>Total</b>	<b>20.06</b>	(NA)	(X)	IA	15	16	195	NC	12	15.5	409
Federal	9.0	9.0	(X)	KS	11	11	150	ND	13	13	52
State	<sup>3</sup> 11.08	(NA)	13,768	KY	10	15	192	OH	12	12	553
AL	4.13	* 13	246	LA	18	16	351	OK	10	10	195
AK	8	8	24	ME	14	14	86	OR	10	11	126
AZ	13	16	232	MA	13.5	13.5	299	PA	12	12	693
AR	13.5	13.5	170	MI	11	11	238	RI	13	15	46
CA	9	9	1,175	MN	15	15	631	SC	13	13	248
CO	12	18	185	MO	17	17	342	SD	13	13	52
CT	16	17	213	MS	9	9	130	TN	13	17	285
DE	11	13	40	MT	7	7	208	TX	10	10	994
DC	15.5	15.5	25	MT	15	17	79	UT	14	14	113
FL	9.7	9.7	552	NE	17.4	17.1	129	VT	13	13	38
GA	7.5	7.5	278	NV	13	13	73	VA	11	15	401
HI	11	11	33	NH	14	14	66	WA	18	18	406
ID	14.5	14.5	77	NJ	8	8	313	WV	10.5	10.5	101
IL	13	13	643	NM	11	11	99	WI	16.5	17.5	374
IN	14	14	416	NY	8	8	492	WY	8	8	34

NA Not available. X Not applicable. <sup>1</sup>In effect Dec. 31. <sup>2</sup>Represents net receipts. <sup>3</sup>Represents weighted average based on net gallons taxed. <sup>4</sup>Includes 2 cents per gallon inspection fee. <sup>5</sup>Trucks or combinations with more than 2 axles pay tax of 2 cents per gallon more. <sup>6</sup>.08 cents per gallon is for inspection fee. <sup>7</sup>Includes 1 cent per gallon inspection fee.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.
**NO. 989. PUBLIC HIGHWAY DEBT—STATE AND LOCAL GOVERNMENTS: 1970 TO 1987**

[In millions of dollars. Long-term obligations. State data are for calendar years; local data for varying fiscal years. Excludes duplicated and interunit obligations. Municipal debt includes other political subdivisions urban in character. See also *Historical Statistics, Colonial Times to 1970*, series Q 136-147]

ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986 <sup>1</sup>	1987 <sup>2</sup>
<b>Total debt issued<sup>3</sup></b>	<b>1,886</b>	<b>2,239</b>	<b>1,904</b>	<b>2,094</b>	<b>2,574</b>	<b>2,915</b>	<b>2,566</b>	<b>3,151</b>	<b>6,549</b>	<b>5,278</b>	<b>5,050</b>
State	1,305	1,412	941	1,128	965	1,555	1,072	1,715	3,404	3,375	3,000
County and township	174	222	279	276	305	415	475	524	2,145	703	750
Municipal	407	605	684	690	1,304	945	1,019	912	1,000	1,200	1,300
<b>Total debt redeemed<sup>4</sup></b>	<b>1,252</b>	<b>1,492</b>	<b>1,751</b>	<b>1,706</b>	<b>2,484</b>	<b>2,046</b>	<b>2,172</b>	<b>2,411</b>	<b>2,723</b>	<b>2,852</b>	<b>2,821</b>
State	792	906	960	1,022	1,579	1,146	1,191	1,507	1,580	1,659	1,780
County and township	152	196	177	209	201	225	303	216	432	248	266
Municipal	318	418	614	475	684	675	678	688	711	745	775
<b>Total debt outstanding</b>	<b>19,107</b>	<b>23,801</b>	<b>25,463</b>	<b>25,851</b>	<b>25,961</b>	<b>26,830</b>	<b>27,224</b>	<b>27,984</b>	<b>31,790</b>	<b>34,416</b>	<b>36,645</b>
State	13,903	17,422	18,176	18,282	17,668	18,077	17,959	18,166	19,990	21,706	22,823
County and township	1,685	1,822	2,090	2,157	2,261	2,451	2,623	2,931	4,644	5,099	5,563
Municipal	3,519	4,557	5,197	5,412	6,032	6,302	6,649	6,867	7,156	7,611	8,136

<sup>1</sup>Preliminary. <sup>2</sup>Projection. <sup>3</sup>Excludes refunding issues. <sup>4</sup>Excludes redemptions by refunding.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

# Motor Vehicles Summary

575

## No. 990. MOTOR VEHICLES—SUMMARY: 1970 TO 1986

ITEM	Unit	1970	1975	1980	1981	1982	1983	1984	1985	1986
<b>PASSENGER CARS</b>										
Passenger car production.....	1,000.....	6,550	6,717	6,376	6,263	5,073	6,781	7,773	8,185	7,829
Passenger car factory sales.....	1,000.....	6,547	6,713	6,400	6,255	5,049	6,739	7,621	8,002	7,516
Passenger car (new), retail sales <sup>1</sup> .....	1,000.....	8,405	8,640	8,979	8,536	7,982	9,182	10,390	11,042	11,453
Domestic.....	1,000.....	7,116	7,050	6,581	6,209	5,759	6,795	7,952	8,205	8,215
Subcompact <sup>2</sup> .....	1,000.....	1,338	700	1,604	1,630	1,489	1,776	2,322	1,297	1,325
Compact <sup>3</sup> .....	1,000.....	1,338	2,336	1,659	1,568	1,257	1,110	1,336	2,563	2,461
Standard <sup>3</sup> .....	1,000.....	1,338	1,956	1,358	1,250	1,377	1,825	1,817	1,882	1,888
Intermediate <sup>3</sup> .....	1,000.....	5,778	2,058	1,957	1,757	1,641	2,071	2,484	2,464	2,540
Imports <sup>4</sup> .....	1,000.....	1,285	1,587	2,398	2,327	2,223	2,387	2,439	2,838	3,238
<b>TRUCKS</b>										
Truck and bus production.....	1,000.....	1,734	2,270	1,634	1,690	1,912	2,444	3,151	3,468	3,490
Truck and bus factory sales.....	1,000.....	1,692	2,272	1,667	1,701	1,906	2,414	3,075	3,357	3,393
Truck and bus retail sales <sup>5</sup> .....	1,000.....	1,748	2,351	2,232	1,972	2,248	2,709	3,538	3,984	4,031
Light duty (up to 14,000 GVW) <sup>6</sup> .....	1,000.....	(NA)	2,076	1,964	1,747	2,084	2,521	3,261	3,700	3,786
Med. duty (14,001-26,000 GVW) <sup>6</sup> .....	1,000.....	(NA)	169	92	74	46	48	61	53	51
Heavy duty (over 26,000 GVW) <sup>6</sup> .....	1,000.....	126	106	176	152	198	141	216	231	214
<b>MOTORCYCLES</b>										
Motorcycle registrations, new <sup>7</sup> .....	1,000.....	751	747	838	794	689	811	772	722	631
Motorcycle (new) retail sales <sup>8</sup> .....	1,000.....	1,010	940	1,070	1,065	990	1,185	1,305	1,260	1,045
All-terrain vehicles.....	1,000.....	(NA)	(NA)	(NA)	(NA)	250	452	550	550	465
All-terrain vehicle imports.....	1,000.....	(NA)	(NA)	(NA)	(NA)	275	430	635	683	498
Motorcycle imports, total <sup>9</sup> .....	1,000.....	1,091	948	1,120	1,057	917	540	441	739	550
Value <sup>10</sup> .....	Mil. dol.	308	713	1,142	1,314	1,110	697	523	783	763
<b>FOREIGN TRADE</b>										
Passenger cars (new), exported <sup>1 11</sup> .....	1,000.....	285	640	617	548	379	554	616	704	673
Passenger cars (new), imported <sup>1 12</sup> .....	1,000.....	2,013	2,075	3,116	2,856	2,926	3,134	3,559	4,398	4,691
Canada.....	1,000.....	693	734	595	564	703	836	1,073	1,145	1,162
Germany, Federal Republic of.....	1,000.....	675	370	339	234	259	240	335	473	452
Japan.....	1,000.....	381	696	1,992	1,912	1,901	1,671	1,949	2,527	2,619
Trucks (new) exports.....	1,000.....	91	219	186	166	124	132	159	183	205
Trucks (new) imports <sup>13</sup> .....	1,000.....	166	295	747	793	697	785	1,025	1,253	1,351
Japan.....	1,000.....	27	142	493	456	356	430	567	800	976
Import value, new passenger cars <sup>1</sup> .....	Mil. dol.	3,719	7,482	16,675	17,695	20,180	23,394	29,284	36,474	45,302
Trucks and buses, new <sup>1</sup> .....	Mil. dol.	381	820	1,995	4,217	4,453	4,848	6,541	7,734	8,504
Export value <sup>1 14</sup> .....	Mil. dol.	3,871	10,658	16,015	18,121	16,039	17,078	20,776	22,820	21,955
Passenger cars (new).....	Mil. dol.	822	2,852	3,392	3,928	2,867	4,208	4,876	6,027	6,258
Trucks and buses (new) <sup>15</sup> .....	Mil. dol.	636	2,305	2,977	3,247	2,642	2,130	2,479	2,789	2,953
Parts and accessories <sup>14</sup> .....	Mil. dol.	2,413	5,501	9,106	10,946	10,530	10,740	13,421	14,004	12,744
<b>VEHICLES IN USE AND RETIRED</b>										
Cars in use, total.....	Million.....	80.4	95.2	104.6	105.8	106.9	109.0	112.0	114.7	117.3
Under 3 years.....	Million.....	24.4	25.8	26.8	24.2	21.5	20.7	22.0	24.8	27.9
3-5 years.....	Million.....	24.9	27.0	25.5	28.8	29.9	28.8	26.8	23.9	22.7
6-8 years.....	Million.....	18.4	22.0	25.2	23.0	22.2	23.5	26.8	27.8	26.5
9-11 years.....	Million.....	7.7	13.9	14.6	16.0	17.9	18.9	17.4	17.2	18.7
12 years and over.....	Million.....	4.9	6.6	12.5	13.9	15.4	17.0	19.0	21.0	21.5
Average age.....	Years.....	5.6	6.0	6.8	6.9	7.2	7.4	7.5	7.6	7.6
Cars retired from use <sup>15</sup> .....	1,000.....	7,461	5,669	8,405	7,542	6,921	6,243	6,675	7,729	8,442
Trucks in use, total.....	Million.....	17.7	24.8	35.2	36.1	37.0	38.1	40.1	42.4	44.8
Under 3 years.....	Million.....	4.7	6.9	8.9	7.3	5.6	5.9	7.2	9.0	11.1
3-5 years.....	Million.....	4.3	5.8	6.9	9.7	10.7	9.5	8.0	6.3	6.6
6-8 years.....	Million.....	3.0	4.4	7.4	7.1	7.1	7.7	9.2	10.2	8.9
9-11 years.....	Million.....	1.9	3.2	4.4	4.9	5.7	6.5	6.2	6.2	6.7
12 years and over.....	Million.....	3.9	4.4	6.5	7.2	7.9	8.5	9.6	10.7	11.5
Average age.....	Years.....	7.3	6.9	7.1	7.5	7.8	8.1	8.2	8.1	8.0
Trucks retired from use <sup>15</sup> .....	1,000.....	837	908	1,732	1,519	1,459	1,491	1,602	2,100	2,311
<b>TIRES AND BATTERIES SHIPMENTS</b>										
Tires, passenger car, total <sup>16</sup> .....	Million.....	168.6	167.0	145.9	165.3	167.5	182.0	201.6	200.9	202.7
Radials.....	Million.....	2.9	61.5	83.5	108.6	115.9	133.4	156.6	164.7	174.0
Replacement.....	Million.....	129.6	122.5	106.9	125.3	130.5	134.0	144.6	141.5	144.3
Tires, truck and bus, total <sup>16</sup> .....	Million.....	25.7	27.3	31.1	35.8	33.8	36.9	40.8	41.1	40.6
Radials.....	Million.....	(NA)	8	3.8	9.2	10.4	13.4	16.0	19.7	21.1
Replacement.....	Million.....	16.7	19.8	24.4	28.5	28	30.3	31.7	32.1	32.4
Batteries, total <sup>17</sup> .....	Million.....	46.9	52.9	61.6	65.5	64.6	69.0	74.7	74.0	75.2
Replacement automobile batteries.....	Million.....	37.9	39.3	50.1	53.6	54.2	56.1	59.3	58.7	60.3

NA Not available. <sup>1</sup> Based on data from U.S. Dept. of Commerce. <sup>2</sup> Includes domestic models produced in Canada and Mexico. <sup>3</sup> Source: Board of Governors of the Federal Reserve System, unpublished data. Represents total auto sales data from *Ward's Automotive Reports*. Criteria by which each year's car models are grouped into the major size categories vary among those collecting data. Data shown here follow *Automotive News* classifications. Beginning 1980, cars produced in U.S. by among those collecting data. Data shown here follow *Automotive News* classifications in Canada. <sup>4</sup> Excludes motorcoaches and foreign manufacturers are included. <sup>5</sup> Excludes domestic models produced in Canada. <sup>6</sup> Excludes motorcoaches and imports from foreign manufacturers. Beginning 1975, includes imports sold by franchised dealers of U.S. manufacturers. <sup>7</sup> Gross vehicle weight (fully loaded vehicle). <sup>8</sup> Source: R. L. Polk & Company, Detroit, MI, *New Motorcycle Registrations by States*. Excludes Oklahoma, 1984, excludes New York. Reproduction prohibited without Polk permission. <sup>9</sup> Estimates by Motorcycle Industry Council Inc., Costa Mesa, CA. Includes all-terrain vehicles and scooters. Excludes mopeds/motorized bicycles. <sup>10</sup> Source: Motorcycle Industry Council, Inc., Costa Mesa, CA. Data from U.S. Dept. of Commerce. Excludes mopeds/motorized bicycles and all-terrain vehicles. <sup>11</sup> Dutiable value for customs purposes prior to 1980 thereafter, c.i.f. value. <sup>12</sup> 1970-1975, covers assembled vehicles only. Beginning 1980, includes chassis. <sup>13</sup> Includes other countries, not shown separately. <sup>14</sup> Covers assembled and unassembled vehicles. <sup>15</sup> Includes rubber tires and tubes and used vehicles. <sup>16</sup> For years ending June 30. Represents vehicles failing to re-register. <sup>17</sup> Includes original equipment. Also includes exports, not shown separately. Source: The Rubber Manufacturers Association, Inc., Washington, D.C., *RMA Monthly Tire Report*. <sup>18</sup> Source: Battery Council International, Chicago, IL.

Source: Except as noted, Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI, *Motor Vehicle Facts and Figures*, annual; and *World Motor Vehicle Data*, annual.

## NO. 991. MOTOR-VEHICLE REGISTRATIONS, 1970 TO 1986, AND DRIVERS LICENSES, 1986, BY STATE

[In thousands, except as indicated. Motor vehicle registrations cover publicly, privately, and commercially owned vehicles. For uniformity, figures have been adjusted to a calendar-year basis as registration years in States differ; figures represent net numbers where possible, excluding re-registrations and nonresident registrations]

STATE	AUTOMOBILES, TRUCKS, AND BUSES <sup>1</sup>						MOTORCYCLES <sup>1</sup> (incl. official) 1986, est.		DRIVERS LICENSES, 1986, est.				
	1970, total	1975, total	1980, total	1983, total	1984, total	1985, total	1986, est.		Total	Per 1,000 popula- tion <sup>2</sup>	Total <sup>3</sup>	Per- cent male	
							Total	Automobiles (incl. taxis)					
													Total
U.S. ....	108,418	132,949	155,796	163,749	166,249	171,654	176,532	135,671	563	5,358	22	158,594	52.0
AL .....	1,966	2,493	2,938	3,145	3,202	3,338	3,461	2,417	596	58	14	2,484	52.0
AK .....	139	226	262	350	368	353	348	2,177	406	9	17	302	56.3
AZ .....	1,093	1,459	1,917	2,299	2,111	2,235	2,353	1,662	501	84	25	2,394	54.1
AR .....	1,043	1,293	1,574	1,442	1,917	1,364	1,435	939	396	30	13	1,767	51.5
CA .....	11,901	13,891	16,873	17,767	17,965	18,999	19,703	15,384	570	677	25	17,822	52.7
CO .....	1,442	1,925	2,342	2,549	2,754	2,759	2,769	2,027	620	107	33	2,307	53.5
CT .....	1,733	1,949	2,147	2,305	2,366	2,465	2,537	2,377	745	58	18	2,335	51.4
DE .....	312	351	397	427	459	465	485	383	605	11	17	454	51.1
DC .....	257	255	268	295	305	326	345	328	524	4	6	394	55.1
FL .....	4,120	5,395	7,614	8,808	9,394	9,865	10,349	8,142	697	226	19	8,088	51.6
GA .....	2,584	3,211	3,818	4,208	4,460	4,580	4,686	3,375	553	115	19	3,957	51.3
HI .....	405	462	570	610	638	651	672	589	555	18	17	604	54.8
ID .....	488	647	834	877	849	854	862	528	527	48	48	706	52.0
IL .....	5,238	6,344	7,477	7,513	7,598	7,727	7,785	6,137	531	221	19	7,026	50.2
IN .....	2,818	3,315	3,826	3,852	3,950	4,024	4,090	3,035	551	130	24	3,616	50.8
IA .....	1,780	2,099	2,329	2,479	2,443	2,696	2,764	1,988	697	274	24	1,878	49.1
KS .....	1,548	1,805	2,007	2,048	2,122	2,148	2,171	1,490	606	94	38	1,652	50.1
KY .....	1,763	2,245	2,593	2,821	2,590	2,615	2,641	1,777	477	38	10	2,273	52.3
LA .....	1,742	2,188	2,779	2,872	2,958	3,012	3,054	2,079	462	55	12	2,759	51.7
ME .....	510	648	724	766	800	840	861	641	546	44	44	817	50.6
MD .....	1,872	2,423	2,803	3,011	3,193	3,276	3,359	2,771	621	63	14	2,954	51.5
MA .....	2,575	3,107	3,749	3,840	3,788	3,738	3,737	3,264	580	124	21	3,824	51.8
MI .....	4,589	5,545	6,488	6,295	6,369	6,727	7,187	5,762	630	214	23	6,307	50.8
MN .....	2,207	2,525	3,091	3,239	2,968	3,385	3,548	2,744	651	175	42	2,502	52.0
MS .....	1,117	1,377	1,577	1,560	1,669	1,746	1,810	1,375	524	25	10	1,834	53.1
MO .....	2,408	2,866	3,271	3,433	3,521	3,559	3,593	2,648	523	78	15	3,424	51.3
MT .....	465	611	680	829	685	652	628	382	466	24	29	588	54.8
NE .....	974	1,165	1,254	1,295	1,257	1,257	1,282	842	527	40	25	1,089	51.1
NV .....	355	464	655	730	745	709	696	502	521	18	19	714	52.5
NH .....	390	485	704	803	870	974	1,019	854	832	66	64	754	51.7
NJ .....	3,586	4,155	4,761	4,941	4,896	4,909	4,926	4,428	561	128	17	5,904	52.7
NM .....	637	827	1,068	1,237	1,220	1,176	1,155	732	495	41	28	1,005	52.0
NY .....	6,718	7,591	8,002	8,417	8,644	9,042	9,373	8,185	461	253	14	9,867	54.2
NC .....	2,826	3,690	4,532	4,603	4,369	4,450	4,536	3,314	523	67	11	4,196	51.1
ND .....	428	551	627	666	691	655	649	376	554	29	43	448	51.8
OH .....	5,974	7,179	7,771	7,768	7,894	8,102	8,331	6,972	648	279	26	7,329	51.5
OK .....	1,713	2,113	2,583	2,769	2,781	2,864	2,915	1,915	579	105	32	2,279	50.7
OR .....	1,369	1,628	2,081	2,121	2,183	2,204	2,223	1,561	579	84	31	1,940	52.6
PA .....	5,818	7,659	6,926	6,844	7,081	7,209	7,340	5,980	603	215	18	7,631	53.1
RI .....	488	563	623	598	622	610	615	517	530	27	28	628	51.0
SC .....	1,360	1,772	1,996	2,058	2,128	2,222	2,276	1,715	508	39	12	2,166	51.0
SD .....	426	521	601	629	643	650	677	429	606	35	49	485	51.3
TN .....	2,050	2,727	3,271	3,537	3,569	3,754	3,914	3,070	639	105	22	3,071	51.1
TX .....	6,693	8,396	10,475	11,893	12,172	12,444	12,812	8,606	516	273	16	10,755	52.8
UT .....	264	345	427	474	490	509	515	333	440	52	31	989	50.7
VT .....	229	287	347	367	377	398	418	315	582	21	39	394	52.5
VA .....	2,263	3,251	3,626	3,894	4,047	4,253	4,463	3,338	663	84	15	3,861	50.9
WA .....	2,102	2,540	3,225	3,338	3,430	3,526	3,767	2,652	594	136	30	3,014	51.4
WV .....	801	966	1,320	1,175	1,107	1,143	1,239	860	448	32	17	1,308	53.8
WI .....	2,182	2,591	2,941	3,214	3,094	3,187	3,281	2,528	528	206	43	3,259	51.9
WY .....	247	337	467	502	494	500	507	286	564	19	37	312	53.5

<sup>1</sup> Excludes vehicles owned by military services. <sup>2</sup> Based on resident population as of July 1.

<sup>3</sup> Estimated from data reported by States for current and previous years; allowance has been made for deaths, emigration, or revocation by some States.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual; and *Selected Highway Statistics and Charts*, annual.

**No. 992. MOTOR VEHICLES—REGISTRATIONS, FACTORY SALES, AND RETAIL SALES: 1950 TO 1986**

(Minus sign (-) indicates decrease. For definition of average annual percent change, see Guide to Tabular Presentation. See also *Historical Statistics, Colonial Times to 1970*, series Q 148-155)

YEAR	REGISTRATIONS <sup>1</sup> (mil.)			Motor-cycle registrations <sup>1</sup> (1,000)	FACTORY SALES (1,000)			PASSENGER CARS RETAIL SALES (1,000)			AVERAGE ANNUAL PERCENT CHANGE <sup>4</sup>	
	Total cars, trucks, buses	Pas- senger cars <sup>2</sup>	Trucks and buses		Total cars, trucks, buses	Pas- senger cars	Trucks and buses <sup>3</sup>	Total	Do- mestic	Im- ports	Registra- tions <sup>5</sup>	Retail sales
1950.....	49.2	40.4	8.8	454	8,003	6,666	1,337	(NA)	(NA)	(NA)	6.7	(NA)
1955.....	62.7	52.1	10.6	412	9,169	7,920	1,249	7,456	7,408	58	5.0	(NA)
1960.....	73.9	61.7	12.2	574	7,869	6,675	1,194	6,641	6,142	499	3.3	-2.3
1965.....	90.4	75.3	15.1	1,382	11,057	9,306	1,752	9,332	8,763	569	4.1	7.0
1967.....	96.9	80.4	16.5	1,953	8,976	7,437	1,539	8,337	7,568	769	3.5	-5.5
1968.....	100.9	83.6	17.3	2,089	10,718	8,822	1,896	9,656	8,656	1,031	4.1	15.8
1969.....	105.1	86.9	18.2	2,316	10,147	8,224	1,923	9,583	8,454	1,118	4.2	-0.8
1970.....	108.4	89.2	19.2	2,824	8,239	6,547	1,692	8,405	7,119	1,285	3.2	-12.3
1971.....	113.0	92.7	20.3	3,344	10,638	8,585	2,053	10,250	8,681	1,568	4.2	22.0
1972.....	118.8	97.1	21.7	3,760	11,271	9,824	2,447	10,950	9,327	1,623	5.1	6.8
1973.....	125.7	102.0	23.7	4,371	12,637	9,658	2,980	11,439	9,676	1,763	5.8	4.5
1974.....	129.9	104.8	25.1	4,966	10,059	7,331	2,727	8,867	7,454	1,413	3.4	-22.5
1975.....	132.9	106.7	26.2	4,964	8,985	6,713	2,272	8,640	7,053	1,587	2.3	-2.6
1976.....	138.5	110.2	28.4	4,933	11,480	8,500	2,979	10,110	8,611	1,498	4.2	17.0
1977.....	142.1	112.3	29.8	4,881	12,642	9,201	3,441	11,185	9,109	2,076	2.6	10.6
1978.....	148.4	116.6	31.8	4,868	12,871	9,165	3,706	11,312	9,312	2,000	4.4	1.1
1979.....	151.9	118.5	33.4	5,422	11,456	8,419	3,037	10,671	8,341	2,329	2.4	-5.7
1980.....	155.8	121.6	34.2	5,694	8,067	6,400	1,693	8,979	6,581	2,398	2.6	-15.9
1981.....	158.3	123.1	35.2	5,831	7,956	6,255	1,701	8,536	6,209	2,327	1.6	-4.9
1982.....	159.6	123.7	35.9	5,754	6,955	5,049	1,906	7,982	5,759	2,223	0.8	-6.5
1983.....	163.9	126.2	37.7	5,585	9,153	6,739	2,414	9,182	6,795	2,387	2.7	15.0
1984.....	166.2	128.1	38.1	5,480	10,696	7,621	3,075	10,391	7,952	2,439	1.6	13.2
1985.....	171.7	131.9	39.8	5,444	11,369	8,002	3,357	11,042	8,204	2,838	3.3	6.3
1986.....	176.5	135.7	40.9	5,358	10,909	7,516	3,393	11,453	8,215	3,238	2.9	3.7

NA Not available. <sup>1</sup> Excludes Alaska and Hawaii prior to 1960. Includes publicly owned vehicles. Excludes military services' vehicles. <sup>2</sup> Includes taxis. <sup>3</sup> Includes standard equipment. <sup>4</sup> From prior year shown. <sup>5</sup> Excludes motorcycles.  
<sup>6</sup> Change from 1945. <sup>7</sup> Estimate.

Source: Registrations—U.S. Federal Highway Administration, *Highway Statistics*, annual; sales—Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI, *MVMA Motor Vehicle Facts and Figures*, annual.

**No. 993. MOTOR VEHICLE OUTPUT AND TRADE IN NATIONAL INCOME ACCOUNTS: 1970 TO 1986**

[In billions of dollars, except percent. Vehicle output equals final dollar sales value of new vehicles, plus net dollar value of used vehicle sales, adjusted for changes in inventories and net balance of vehicle exports and imports]

YEAR	CURRENT DOLLARS						CONSTANT (1982) DOLLARS							
	GNP <sup>1</sup>	Vehicle output		Vehicle		GNP <sup>1</sup>	Vehicle output		Vehicle					
		Total	Per- cent of GNP	Auto	Truck		Exp- ort value	Im- port value	Total	Per- cent of GNP	Auto	Truck	Exp- ort value	Im- port value
1970.....	1,016	36.8	3.6	28.5	8.3	1.4	4.4	2,416	73.2	3.0	53.1	20.1	3.0	11.8
1971.....	1,103	49.3	4.5	38.9	10.4	1.8	5.9	2,485	93.6	3.8	69.8	23.8	3.5	14.8
1972.....	1,213	55.0	4.5	41.4	13.6	2.0	6.8	2,609	104.2	4.0	73.9	30.3	4.0	16.0
1973.....	1,359	63.1	4.6	46.0	17.1	2.7	7.8	2,744	119.4	4.4	82.0	37.4	5.3	17.2
1974.....	1,473	57.7	3.9	38.8	18.9	3.7	8.8	2,729	103.7	3.8	65.4	36.3	6.7	17.5
1975.....	1,598	56.7	3.5	40.3	16.4	5.1	8.4	2,695	90.9	3.4	61.8	29.1	8.5	14.9
1976.....	1,783	78.3	4.4	55.2	23.1	5.4	11.0	2,827	118.0	4.2	80.1	37.9	8.3	18.2
1977.....	1,991	95.1	4.8	64.3	30.8	5.6	13.3	2,959	135.7	4.6	98.7	47.0	8.1	20.3
1978.....	2,250	105.1	4.7	68.3	36.8	6.5	17.4	3,115	138.6	4.4	97.3	51.3	8.7	23.7
1979.....	2,508	104.0	4.1	66.9	37.1	8.0	18.6	3,192	128.1	4.0	80.2	47.9	10.0	22.8
1980.....	2,732	84.4	3.1	60.1	24.3	7.1	20.9	3,187	95.2	3.0	67.1	28.8	8.1	23.5
1981.....	3,053	96.6	3.2	69.4	27.2	7.2	22.6	3,249	102.1	3.1	73.3	28.8	7.6	23.4
1982.....	3,166	94.3	3.0	66.5	27.8	5.4	25.5	3,166	94.3	3.0	66.5	27.8	5.4	25.5
1983.....	3,406	123.6	3.6	88.6	35.0	6.2	28.5	3,279	119.8	3.7	85.9	33.9	6.0	28.6
1984.....	3,772	156.3	4.1	105.1	51.2	7.3	38.9	3,501	146.2	4.2	98.5	47.7	6.9	36.7
1985.....	4,010	171.5	4.3	115.3	56.2	8.8	45.5	3,608	156.4	4.3	105.6	50.8	7.9	41.4
1986.....	4,235	177.8	4.2	119.4	58.4	9.3	55.5	3,713	156.9	4.2	106.4	50.5	8.0	46.0

<sup>1</sup> For definition of gross national product (GNP), see text, section 14.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.

## NO. 994. NEW TRUCKS—RETAIL SALES, BY WEIGHT CLASS AND TYPE: 1980 TO 1986

WEIGHT CLASS AND TYPE	NUMBER (1,000)						PERCENT CHANGE				
	1980	1982	1983	1984	1985	1986	1982-1983	1983-1984	1984-1985	1985-1986	
<b>0 to 6,000 pounds, total</b> .....	<b>985</b>	<b>1,102</b>	<b>1,314</b>	<b>2,031</b>	<b>2,408</b>	<b>2,541</b>	<b>19.3</b>	<b>54.6</b>	<b>18.6</b>	<b>5.5</b>	
Utility.....	51	51	254	370	429	382	400.3	45.7	15.9	-10.8	
Pickup, cartype.....	50	25	26	26	24	24	3.4	-1.8	-5.0	-1.5	
Pickup, compact.....	254	454	488	619	698	757	7.4	25.6	13.4	8.9	
Domestic.....	26	359	433	580	625	679	20.6	29.4	11.6	8.5	
Import.....	229	95	55	59	70	79	-42.1	-4.1	32.9	11.9	
Van.....	79	75	67	121	115	112	-9.7	80.4	-5.3	-2.2	
Mini van.....	(x)	(x)	(2)	24	103	110	(x)	1,317.2	335.1	6.6	
Station wagon (truck chassis).....	(x)	(x)	8	62	85	98	(x)	634.1	38.9	14.1	
Mini passenger carrier.....	(x)	(x)	8	169	301	460	(x)	1,964.8	78.3	52.8	
<b>6,001 to 10,000 pounds</b> .....	<b>975</b>	<b>961</b>	<b>1,207</b>	<b>1,224</b>	<b>1,280</b>	<b>1,214</b>	<b>25.5</b>	<b>1.5</b>	<b>4.6</b>	<b>-5.2</b>	
Utility.....	108	76	84	103	108	101	10.5	22.2	4.4	-6.4	
Van.....	172	207	311	265	261	261	50.0	-14.8	-1.5	-1	
Pickup, conventional.....	546	485	574	573	628	582	18.4	-2	9.7	-7.3	
Station wagon (truck chassis).....	39	55	69	86	95	98	26.3	25.0	9.9	4.1	
<b>10,001 pounds and over</b> .....	<b>2,232</b>	<b>2,248</b>	<b>2,709</b>	<b>3,538</b>	<b>3,984</b>	<b>4,031</b>	<b>20.5</b>	<b>30.6</b>	<b>12.6</b>	<b>1.2</b>	

X Not applicable. Z Less than 500.

Source: Motor Vehicle Manufacturers Association, *Motor Vehicle Facts and Figures*, annual.

## NO. 995. RECREATIONAL VEHICLES—NUMBER AND RETAIL VALUE OF SHIPMENTS: 1970 TO 1986

YEAR	NUMBER (1,000)					RETAIL VALUE (mil. dol.)				
	Total	Motorized homes	Travel trailers	Folding camping trailers	Truck campers	Total	Motorized homes	Travel trailers	Folding camping trailers	Truck campers
1970.....	380.3	30.3	138.0	116.1	95.9	1,122	318	445	175	183
1973.....	528.8	129.0	212.3	97.7	89.8	2,322	1,153	843	160	167
1974.....	295.8	68.9	128.3	55.2	45.4	1,382	624	567	109	92
1975.....	339.6	96.6	150.6	48.1	44.3	2,320	1,251	856	101	112
1976.....	541.1	256.1	189.7	53.3	42.0	4,284	2,923	1,132	117	112
1977.....	533.9	280.2	167.9	53.9	31.9	5,327	3,876	1,229	123	99
1978.....	526.3	293.6	159.8	48.2	24.7	5,683	4,329	1,153	118	85
1979.....	307.7	172.6	90.2	31.1	13.8	3,538	2,682	725	83	48
1980.....	181.4	99.9	52.0	24.5	5.0	1,952	1,381	485	69	17
1981.....	239.1	135.2	63.8	35.0	5.1	2,775	2,019	631	105	20
1982.....	258.0	152.5	65.5	34.3	5.7	3,505	2,701	666	110	28
1983.....	358.0	223.7	90.0	37.5	6.8	6,324	5,099	1,067	122	38
1984.....	398.2	257.3	92.4	40.9	7.6	7,733	6,262	1,157	266	46
1985.....	359.2	233.5	82.9	35.9	6.9	7,029	5,724	1,122	137	46
1986.....	379.5	249.6	86.0	36.5	7.4	7,584	6,155	1,213	144	53

Source: Recreation Vehicle Industry Association, Reston, VA, *RVs . . . The Family Camping Vehicle, A Year-End Report/1986*. Data also in Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI, *Motor Vehicle Facts and Figures*, annual.

## NO. 996. MOTOR VEHICLE SAFETY DEFECT RECALLS, BY DOMESTIC AND FOREIGN MANUFACTURERS: 1975 TO 1986

[Covers manufacturers reporting to U.S. National Highway Traffic Administration under section 151 of National Traffic and Motor Vehicle Safety Act of 1966, as amended]

MANUFACTURER	Unit	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
<b>Motor vehicles:</b>												
<b>Total recall campaigns<sup>1</sup></b> .....	<b>Number</b> .....	<b>217</b>	<b>246</b>	<b>271</b>	<b>275</b>	<b>187</b>	<b>156</b>	<b>135</b>	<b>140</b>	<b>164</b>	<b>173</b>	<b>174</b>
Domestic.....	Number.....	190	195	199	218	129	128	107	110	127	137	139
Foreign.....	Number.....	27	51	72	57	38	28	28	30	37	36	35
<b>Total vehicles recalled</b> .....	<b>1,000</b> .....	<b>2,109</b>	<b>12,923</b>	<b>9,063</b>	<b>8,919</b>	<b>4,863</b>	<b>9,405</b>	<b>1,914</b>	<b>6,114</b>	<b>7,220</b>	<b>5,629</b>	<b>2,880</b>
Domestic.....	1,000.....	1,829	10,693	7,921	6,997	3,939	7,379	1,401	3,090	6,283	4,985	1,731
Vehicles recalled by 4 leading auto manufacturers.....	1,000.....	1,602	10,331	7,670	6,989	3,730	7,247	1,324	3,021	6,148	4,811	1,382
Foreign.....	1,000.....	280	2,230	1,141	1,922	924	2,026	513	3,024	937	634	1,149
<b>Motor vehicle tires:</b>												
<b>Recall campaigns<sup>1</sup></b> .....	<b>Number</b> .....	<b>22</b>	<b>35</b>	<b>31</b>	<b>42</b>	<b>24</b>	<b>25</b>	<b>17</b>	<b>21</b>	<b>16</b>	<b>19</b>	<b>14</b>
Tires recalled.....	1,000.....	72	471	14,686	235	7,070	125	131	95	81	28	164

<sup>1</sup> A recall campaign is the notification to the Secretary of the U.S. Dept. of Transportation and to owners, purchasers, and dealers, of a motor vehicle safety defect.Source: U.S. National Highway Traffic Safety Administration, *Motor Vehicles Defect Recall Campaigns*, annual.

NO. 997. MOTOR VEHICLE ACCIDENTS—NUMBER AND DEATHS: 1970 TO 1986

[See also Historical Statistics, Colonial Times to 1970, series Q 208 and Q 224-232]

ITEM	Unit	1970	1972 <sup>1</sup>	1975	1980	1981	1982	1983	1984	1985	1986
Motor vehicle accidents <sup>2</sup>	Million	16.0	17.0	16.5	17.9	18.0	18.1	18.3	18.8	(NA)	(NA)
Cars	Million	23.5	24.5	22.6	22.8	22.9	23.2	23.5	25.2	25.6	(NA)
Trucks	Million	3.2	3.5	3.8	5.5	5.6	5.8	5.8	6.3	6.1	(NA)
Motorcycles	1,000	305	343	372	560	540	550	530	570	480	(NA)
Motor vehicle deaths within 1 yr. <sup>3</sup>	1,000	54.6	58.3	45.9	53.2	51.4	45.9	44.4	46.2	45.6	47.8
Noncollision accidents	1,000	15.4	15.8	12.7	14.7	14.2	12.6	12.2	12.6	12.9	13.6
Collision accidents:											
With other motor vehicles	1,000	23.2	23.9	19.5	23.0	22.2	19.8	19.2	20.3	19.9	20.9
With pedestrians	1,000	9.9	10.3	8.4	9.7	9.4	8.4	8.2	8.6	8.4	8.2
With fixed objects	1,000	3.8	3.9	3.1	3.7	3.6	3.2	3.1	3.0	2.7	3.2
Deaths within 30 days <sup>4</sup>	1,000	52.6	54.6	44.5	51.1	49.3	43.9	42.6	44.3	43.8	46.1
Vehicle occupants	1,000	40.6	41.4	32.8	36.8	35.3	31.2	30.6	31.9	31.5	33.7
Pedestrians	1,000	9.0	9.2	7.5	8.1	7.8	7.3	6.8	7.0	6.8	6.8
Motorcyclists <sup>5</sup>	1,000	2.3	3.0	3.2	5.1	4.9	4.5	4.3	4.6	4.6	4.6
Bicyclists	1,000	.8	1.0	1.0	1.0	.9	.9	.8	.8	.9	.9
Traffic death rates: <sup>4 6</sup>											
Per 100,000 resident population	Rate	25.8	26.2	20.7	22.6	21.5	19.0	18.2	18.7	18.4	19.1
Per 100,000 registered vehicles	Rate	47.3	44.5	32.3	31.6	30.0	26.6	25.1	25.7	24.8	25.3
Per 100 million vehicle miles	Rate	4.7	4.3	3.4	3.3	3.2	2.8	2.6	2.6	2.5	2.5
Per 100,000 licensed drivers	Rate	47.2	46.1	34.3	35.2	34.1	29.2	27.6	28.5	27.9	29.0
Motor vehicle accidents <sup>7</sup>	Million	22.1	24.9	24.9	24.1	28.3	28.5	29.4	30.9	32.5	33.3
Injuries <sup>7</sup>	1,000	4,983	5,190	4,978	5,230	5,019	4,490	4,665	4,850	5,044	5,300
Economic loss <sup>7 8</sup>	Bil. dol.	23.5	28.7	36.1	57.1	58.7	60.2	62.7	69.0	76.0	80.0

NA Not available. <sup>1</sup> Represents peak year for deaths from motor vehicle accidents. <sup>2</sup> Covers only accidents occurring on the road. <sup>3</sup> Deaths that occur within one year of accident. Includes collision categories not shown separately. <sup>4</sup> Within 30 days of accident. Source: U.S. National Highway Traffic Safety Administration, unpublished data from Fatal Accident Reporting System. <sup>5</sup> Includes motor scooters and motorized bicycles (mopeds). <sup>6</sup> Based on 30-day definition of traffic deaths. <sup>7</sup> Source: Insurance Information Institute, New York, NY, *Insurance Facts*. Estimates based on official reports from a representative cross-section of States. Includes all motor vehicle accidents on and off the road and all injuries regardless of length of disability. 1986 data for economic loss based on information from the National Center for Health Statistics, National Health Survey. <sup>8</sup> Wage loss; legal, medical, hospital, and funeral expenses; insurance administrative costs; and property damage. Source: Except as noted, National Safety Council, Chicago, IL, *Accident Facts*, annual. (Copyright.)

NO. 998. DEATHS FROM MOTOR VEHICLE ACCIDENTS, BY STATE: 1970 TO 1985

[Data differ from table 997 because data are based on date of death, not date of accident. Data reflect State where death occurred. Includes deaths of nonresidents of U.S. Beginning 1980, deaths classified according to the ninth revision of the *International Classification of Diseases*, for earlier years classified according to the revision in use at the time; see text, section 2. Data based on Vital Registration System, see Appendix III. For composition of regions, see fig. 1, inside front cover]

REGION, DIVISION, AND STATE	1970	1972 <sup>1</sup>	1975	1980	1984	1985	DIVISION AND STATE	1970	1972 <sup>1</sup>	1975	1980	1984	1985
<b>U.S.</b>	<b>54,845</b>	<b>56,528</b>	<b>46,032</b>	<b>53,476</b>	<b>46,517</b>	<b>46,159</b>	<b>S.A.</b>	<b>9,796</b>	<b>10,600</b>	<b>8,358</b>	<b>9,767</b>	<b>9,233</b>	<b>9,389</b>
<b>Region:</b>							DE	158	130	129	164	134	119
Northeast	8,850	8,892	7,431	8,255	6,812	6,797	MD	809	852	686	822	659	766
Midwest	14,829	14,670	11,293	12,244	9,779	9,780	VA	140	100	91	79	101	96
South	20,792	21,964	18,029	21,014	19,508	19,250	DC	1,251	1,256	1,069	1,111	1,048	1,021
West	10,574	10,902	9,279	11,963	10,418	10,352	WV	561	578	499	583	463	461
<b>N.E.</b>	<b>2,065</b>	<b>2,180</b>	<b>1,953</b>	<b>2,246</b>	<b>1,885</b>	<b>1,873</b>	NC	1,801	2,026	1,580	1,588	1,514	1,553
ME	288	252	235	264	243	224	SC	1,070	1,148	837	895	946	943
NH	182	172	155	192	199	198	GA	2,181	2,940	1,420	1,558	1,454	1,462
VT	116	126	124	131	113	117	FL	2,850	4,872	3,881	3,995	3,780	3,684
MA	918	1,042	895	933	767	761	KY	1,081	1,114	885	865	778	749
Ri	143	144	140	142	107	124	TN	1,525	1,526	1,280	1,280	1,239	1,219
CT	448	444	404	584	456	449	AL	1,297	1,356	1,087	1,054	1,056	1,015
<b>M.A.</b>	<b>6,755</b>	<b>6,812</b>	<b>5,478</b>	<b>6,009</b>	<b>4,927</b>	<b>4,924</b>	MS	947	976	629	796	707	691
NY	3,117	3,140	2,277	2,717	2,157	2,121	<b>W.S.C.</b>	<b>6,146</b>	<b>6,392</b>	<b>5,790</b>	<b>7,252</b>	<b>6,495</b>	<b>6,197</b>
NJ	1,289	1,352	1,099	1,130	980	986	AR	595	750	577	607	580	580
PA	2,349	2,320	2,102	2,162	1,810	1,817	LA	1,194	1,136	993	1,261	1,005	1,011
<b>E.N.C.</b>	<b>9,623</b>	<b>9,514</b>	<b>7,361</b>	<b>8,000</b>	<b>6,564</b>	<b>6,602</b>	OK	787	792	748	1,006	867	781
OH	2,488	2,336	1,652	1,976	1,579	1,581	TX	3,570	3,714	3,472	4,378	4,083	3,825
IN	1,587	1,578	1,139	1,213	973	1,045	<b>Mt.</b>	<b>3,549</b>	<b>3,764</b>	<b>3,206</b>	<b>4,071</b>	<b>3,405</b>	<b>3,409</b>
IL	2,267	2,216	1,816	1,985	1,583	1,594	MT	340	408	284	339	254	230
Mi	2,172	2,236	1,811	1,817	1,563	1,605	ID	320	324	293	345	242	242
WI	1,109	1,148	943	1,009	866	777	CO	697	746	621	783	650	628
<b>W.N.C.</b>	<b>5,006</b>	<b>5,156</b>	<b>3,932</b>	<b>4,244</b>	<b>3,215</b>	<b>3,158</b>	CO	568	588	556	617	545	561
MN	1,028	1,052	798	900	639	657	AZ	782	858	713	983	922	942
IA	946	904	714	662	440	478	UT	354	354	285	370	339	335
MO	1,479	1,500	1,105	1,239	1,029	1,005	NV	278	290	236	388	292	297
ND	194	206	183	184	127	117	<b>Pac.</b>	<b>7,025</b>	<b>7,138</b>	<b>6,073</b>	<b>7,892</b>	<b>7,013</b>	<b>6,943</b>
SD	240	312	216	238	155	142	WA	902	836	804	1,048	810	786
NE	435	504	385	406	282	259	OR	739	774	582	698	619	605
KS	684	678	531	615	543	500	CA	5,114	5,300	4,414	5,960	5,322	5,294
							AK	107	64	120	91	119	124
							HI	163	164	153	195	143	134

<sup>1</sup> Represents peak year for deaths from motor vehicle accidents.

Source: U.S. National Center for Health Statistics, *Vital Statistics of the United States*, annual; and unpublished data.

**NO. 999. FATAL MOTOR-VEHICLE ACCIDENTS—NUMBER OF ACCIDENTS AND FATALITIES, BY TYPE OF VEHICLE: 1980 TO 1985**

[Based on data from the Fatal Accident Reporting System]

TYPE OF VEHICLE	ACCIDENTS <sup>1</sup>						OCCUPANT FATALITIES					
	1980	1981	1982	1983	1984	1985	1980	1981	1982	1983	1984	1985
<b>Total <sup>2</sup></b> .....	<b>45,284</b>	<b>44,000</b>	<b>39,092</b>	<b>37,976</b>	<b>39,631</b>	<b>39,195</b>	<b>41,927</b>	<b>40,424</b>	<b>35,646</b>	<b>34,843</b>	<b>36,284</b>	<b>36,043</b>
Passenger cars <sup>3</sup> .....	31,550	30,828	27,548	26,898	27,745	27,142	27,449	26,645	23,330	22,979	23,621	23,214
Mini-compact.....	3,263	3,635	3,559	3,753	4,001	3,973	2,966	3,279	3,194	3,278	3,470	3,429
Subcompact.....	4,875	5,266	4,649	4,884	5,275	5,445	4,158	4,432	3,881	4,000	4,346	4,422
Compact.....	1,118	1,363	1,565	1,936	2,670	3,445	927	1,052	1,210	1,499	2,081	2,635
Intermediate.....	5,224	5,698	5,305	5,352	5,976	6,064	3,878	4,107	3,919	3,985	4,289	4,391
Full size.....	7,026	6,653	5,691	5,361	5,199	4,906	4,831	4,245	3,651	3,469	3,269	2,974
Largest size.....	10,817	9,934	8,343	7,524	7,334	6,452	6,746	5,955	4,779	4,470	4,160	3,612
Unknown.....	5,134	4,596	3,863	3,264	2,905	2,699	3,943	3,575	2,696	2,258	2,008	1,751
Motorcycles.....	4,879	4,671	4,201	4,045	4,378	4,342	4,961	4,746	4,270	4,104	4,431	4,417
Moped, mini bike.....	180	157	177	158	172	151	183	160	183	161	177	147
Light trucks <sup>2</sup> .....	10,841	10,301	9,597	9,347	10,255	10,470	6,586	6,137	5,590	5,395	5,773	5,834
Pickup.....	8,796	8,356	7,842	7,899	8,285	8,375	5,463	5,097	4,677	4,579	4,873	4,886
Van.....	2,009	1,961	1,722	1,615	1,737	1,807	1,000	958	814	712	764	791
Medium trucks.....	1,076	871	666	672	680	654	285	235	154	172	153	157
Heavy trucks <sup>4</sup> .....	4,036	4,121	3,754	3,968	4,185	4,217	976	897	789	807	920	814
Single-unit <sup>4</sup> .....	377	333	283	323	271	370	89	57	52	60	83	48
Two-unit <sup>4</sup> .....	3,396	3,555	3,073	3,144	3,359	3,411	812	782	663	648	758	692
Multi-unit.....	148	150	129	168	188	182	41	34	25	36	37	31
Buses.....	329	340	288	305	302	304	46	56	35	53	45	55

<sup>1</sup> Each accident involving multiple types of vehicles is recorded in each category; therefore, the aggregate of all types will exceed the total number of accidents. <sup>2</sup> Includes other types and unknown, not shown separately. <sup>3</sup> Mini-compact wheel base less than 95 in.; subcompact, 95 in. to 99 in.; compact, 100 in. to 104 in.; intermediate, 105 in. to 109 in.; full size, 110-114 in.; and largest size greater than 115 in. <sup>4</sup> Gross vehicle weight greater than 26,000 lbs. <sup>5</sup> Tractor-trailer combination.

Source: U.S. National Highway Traffic Safety Administration, *Fatal Accident Reporting System*, annual.

**NO. 1000. HIGHWAY MILEAGE, VEHICLE MILES OF TRAVEL, ACCIDENTS, AND FATALITIES, 1975 TO 1985, AND BY TYPE OF HIGHWAY SYSTEM, 1985**

YEAR AND TYPE OF SYSTEM	Highway mileage (1,000)	Vehicle miles of travel (bil.)	Daily vehicle miles per-mile	FATAL ACCIDENTS		NONFATAL INJURY ACCIDENTS		FATALITIES <sup>2</sup>	
				Number	Rate <sup>1</sup>	Number (1,000)	Rate <sup>1</sup>	Number	Rate <sup>1</sup>
1975, total.....	3,838	1,328	948	39,993	3.01	1,861	140	45,500	3.43
1980, total.....	3,857	1,527	1,082	45,284	2.96	2,008	131	51,091	3.35
1982, total.....	3,866	1,595	1,130	39,092	2.45	1,966	123	43,945	2.76
1983, total.....	3,880	1,653	1,167	37,976	2.30	2,005	121	42,589	2.58
1984, total.....	3,892	1,720	1,208	39,631	2.30	2,137	124	44,257	2.57
<b>1985, total.....</b>	<b>3,862</b>	<b>1,774</b>	<b>1,259</b>	<b>39,168</b>	<b>2.21</b>	<b>2,219</b>	<b>125</b>	<b>43,795</b>	<b>2.47</b>
Urban.....	691	1,044	4,141	17,845	1.71	1,545	148	19,257	1.84
Rural.....	3,171	730	631	21,323	2.92	674	92	24,538	3.36
Interstate.....	44	371	23,291	3,690	1.00	142	38	4,184	1.13
Urban.....	11	216	54,744	1,857	.86	104	48	2,031	.94
Rural.....	33	154	12,891	1,833	1.19	38	25	2,153	1.40
Noninterstate.....	3,818	1,404	1,008	35,478	2.53	2,076	148	39,611	2.82
Urban.....	680	828	3,335	15,988	1.93	1,441	174	17,226	2.08
Rural.....	3,138	576	503	19,490	3.38	635	110	22,385	3.89
Federal-aid highway system, total.....	843	1,428	4,639	29,952	2.10	1,481	104	33,760	2.36
Urban.....	188	839	12,258	14,134	1.68	1,081	129	15,275	1.82
Rural.....	656	588	2,459	15,818	2.69	399	68	18,485	3.14
Interstate.....	44	371	23,291	3,690	1.00	142	38	4,184	1.13
Other primary arterial.....	257	519	5,520	12,296	2.37	510	98	14,203	2.74
Urban.....	33	240	20,108	3,875	1.65	312	130	4,347	1.81
Rural.....	225	278	3,394	8,321	2.99	197	71	9,856	3.54
Urban (arterial and collector).....	144	383	7,279	8,302	2.17	685	174	8,897	2.32
Secondary (collector).....	398	156	1,073	5,664	3.63	163	105	6,476	4.15
Non-Federal-aid highway system, total.....	3,019	347	315	9,216	2.66	738	213	10,035	2.89
Urban.....	503	205	1,116	3,711	1.81	463	226	3,982	1.94
Rural.....	2,515	142	155	5,505	3.88	275	194	6,053	4.27
Collector.....	351	71	553	1,936	2.73	96	136	2,118	2.99
Urban.....	20	20	2,811	354	1.74	19	93	381	1.88
Rural.....	331	51	418	1,582	3.13	77	153	1,737	3.43
Local.....	2,657	247	255	6,696	2.71	622	252	7,287	2.95
Urban.....	476	160	924	2,860	1.78	427	266	3,072	1.92
Rural.....	2,182	87	109	3,836	4.42	195	225	4,215	4.85

<sup>1</sup> Rate per 100 million vehicle miles of travel. <sup>2</sup> Represents fatalities occurring within 30 days of accident. Excludes nontraffic accidents which, for example, occur outside the rights-of-way or other boundaries of roads that are open for public use.

Source: U.S. Federal Highway Administration, *Fatal and Injury Accident Rates on Public Roads in the United States*, annual.

**NO. 1001. LICENSED DRIVERS, FATAL MOTOR-VEHICLE ACCIDENTS, AND ALCOHOL INVOLVEMENT, BY AGE OF DRIVER: 1986**

ITEM	Unit	Total	AGE OF DRIVER							
			16-17 years	18-21 years	22-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65 years and over
Licensed drivers (estimated) <sup>1</sup>	1,000	158,594	4,059	13,020	11,881	39,936	30,840	20,794	19,320	18,844
Percent distribution	Percent	100.0	2.6	8.2	7.5	25.2	19.3	13.1	12.2	11.9
Licensed drivers involved in fatal accidents	Number	60,297	3,276	9,248	6,757	16,163	9,235	5,070	4,017	4,881
Percent distribution	Percent	100.0	5.4	15.3	11.2	26.8	15.3	8.4	6.7	8.1
Drinking drivers fatal accidents	Number	20,659	851	3,954	3,195	6,892	2,827	1,201	744	510
Percent distribution	Percent	100.0	4.1	19.1	15.5	32.4	13.7	5.8	3.6	2.5

<sup>1</sup> Source: U.S. Federal Highway Administration, *Selected Highway Statistics and Charts*, annual. <sup>2</sup> Includes ages unknown and less than 16 years old.

Source: Except as noted, U.S. National Highway Traffic Safety Administration, unpublished data from the *Fatal Accident Reporting System*.

**NO. 1002. MOTOR VEHICLE TRAVEL, BY TYPE OF VEHICLE, AND SPEED: 1970 TO 1985**

[Travel in billions of vehicle-miles, except as indicated. Travel estimates based on automatic traffic recorder data. Speed trend data for 1970-1975 were collected by several State highway agencies, normally during summer months; beginning Oct. 1975 all States have monitored speeds at locations on several highway systems as part of 55 mile per hour Speed Limit Monitoring Program. See also *Historical Statistics, Colonial Times to 1970*, series Q 199-207]

YEAR	VEHICLE-MILES OF TRAVEL (bil.)				AVG. MILES PER VEHICLE (1,000)			MOTOR VEHICLE SPEED <sup>2</sup>				
	Total	Cars <sup>1</sup>	Buses	Trucks	Passenger vehicles		Trucks	Vehicles recorded (1,000) <sup>3</sup>	Avg. speed (miles per hour)	Percent of vehicles exceeding—		
					Cars <sup>1</sup>	Buses				55 m.p.h.	60 m.p.h.	65 m.p.h.
1970.....	1,110	920	4.5	186	10.0	12.0	9.9	200	63.8	87	69	44
1973.....	1,313	1,051	5.8	256	9.8	13.6	11.0	181	65.0	89	72	50
1974.....	1,281	1,013	5.7	262	9.2	12.7	10.6	203	57.6	85	29	7
1975.....	1,328	1,040	6.1	282	9.3	13.1	10.9	102	57.6	68	27	9
1976.....	1,402	1,084	6.3	312	9.4	13.1	11.2	515	58.2	69	32	10
1977.....	1,467	1,116	5.8	346	9.5	11.9	11.8	500	58.8	74	35	10
1978.....	1,545	1,154	5.9	385	9.5	11.6	12.3	468	58.8	74	36	10
1979.....	1,529	1,122	5.9	401	9.1	11.3	12.2	506	58.3	72	32	9
1980.....	1,527	1,122	6.1	399	8.8	11.5	11.9	667	57.5	66	25	7
1981.....	1,553	1,142	6.2	405	8.9	11.5	11.7	3,048	57.9	68	30	9
1982.....	1,595	1,176	5.8	413	9.1	10.4	11.7	4,895	59.0	73	40	14
1983.....	1,653	1,207	5.2	441	9.1	8.9	12.0	7,856	59.1	74	41	15
1984.....	1,720	1,234	4.6	482	9.2	8.0	12.8	8,067	59.3	75	43	18
1985.....	1,774	1,270	4.9	500	9.2	8.2	12.7	8,449	59.5	75	44	17

<sup>1</sup> Includes motorcycles. <sup>2</sup> Represents speed on rural interstate highways. For 1970-1979, based on free flow speed of vehicles recorded on level, straight sections of rural interstate highways during off-peak hours; beginning 1980, based on all vehicles on rural interstate highways. Beginning 1976, for year ending Sept. 30. <sup>3</sup> Citations issued for 55 mph violations.

**NO. 1003. DOMESTIC MOTOR FUEL CONSUMPTION, BY TYPE OF VEHICLE: 1970 TO 1985**

[Comprises all fuels (gas, diesel, or other fuels) used for propulsion of vehicles under State motor fuels laws. Excludes Federal purchases for military use. Minus sign (-) Indicates decrease. See also *Historical Statistics, Colonial Times to 1970*, series Q 156-162]

YEAR	FUEL CONSUMPTION					AVERAGE FUEL CONSUMPTION PER VEHICLE (gal.)				AVERAGE MILEAGE PER GALLON			
	All vehicles (bil. gal.)	Avg. annual percent change <sup>1</sup>	Cars <sup>2</sup> (bil. gal.)	Buses <sup>3</sup> (bil. gal.)	Trucks <sup>4</sup> (bil. gal.)	All vehicles	Cars <sup>2</sup>	Buses <sup>3</sup>	Trucks <sup>4</sup>	All vehicles	Cars <sup>2</sup>	Buses <sup>3</sup>	Trucks <sup>4</sup>
1970.....	92.3	5.4	67.8	.8	23.6	830	780	2,172	1,257	12.02	13.52	5.54	7.85
1973.....	110.5	6.2	78.7	1.0	30.7	850	771	2,326	1,321	11.89	13.30	5.86	8.34
1974.....	106.3	-3.8	75.1	1.0	30.1	788	716	2,159	1,224	12.05	13.42	5.89	8.70
1975.....	109.0	2.5	76.4	1.1	31.4	790	716	2,279	1,217	12.18	13.52	5.75	8.99
1976.....	115.7	6.2	79.7	1.0	34.8	806	723	2,188	1,250	12.12	13.53	5.98	8.95
1977.....	119.6	3.4	80.4	1.0	38.1	814	716	1,984	1,301	12.26	13.80	5.98	9.06
1978.....	125.1	4.5	81.7	1.0	42.3	816	701	1,957	1,349	12.35	14.04	5.95	9.11
1979.....	122.1	-2.4	77.3	1.0	43.6	776	653	1,891	1,326	12.52	14.41	5.97	9.19
1980.....	115.0	-5.9	71.9	1.0	41.9	712	591	1,926	1,243	13.29	15.46	5.95	9.54
1981.....	114.5	-0.4	71.0	1.1	42.2	697	576	1,938	1,219	13.57	15.94	5.92	9.59
1982.....	113.4	-0.9	70.1	1.0	42.1	686	566	1,756	1,191	14.07	16.65	5.93	9.80
1983.....	116.1	2.4	69.9	.9	45.1	686	553	1,507	1,229	14.24	17.14	5.92	9.77
1984.....	118.7	2.3	68.7	.8	49.0	691	536	1,359	1,308	14.49	17.83	5.85	9.93
1985.....	121.3	2.2	69.3	.8	51.0	685	525	1,407	1,302	14.62	18.20	5.84	9.79

<sup>1</sup> From prior year shown. For 1970, change from 1965. <sup>2</sup> Includes taxicabs. <sup>3</sup> Includes school buses. <sup>4</sup> Includes combinations.

Source of tables 1002 and 1003: U.S. Federal Highway Administration, *Highway Statistics Summary to 1985*.

## No. 1004. MOTORCYCLES—TRAVEL, REGISTRATION, AND FUEL CONSUMPTION: 1970 TO 1985

YEAR	Travel (mil. veh. miles)	Number of registered vehicles (1,000)	Average travel per vehicle (miles)	FUEL CONSUMPTION		Average miles per gallon consumed
				Total (mil. gal.)	Average per vehicle (gal.)	
1970.....	2,979	2,824	1,055	59.6	21	50
1975.....	5,629	4,964	1,134	112.6	23	50
1976.....	6,003	4,933	1,217	120.1	24	50
1977.....	6,349	4,933	1,287	127.0	26	50
1978.....	7,158	4,868	1,470	143.2	29	50
1979.....	8,637	5,422	1,593	172.7	32	50
1980.....	10,214	5,694	1,794	204.3	36	50
1981.....	10,690	5,831	1,833	213.8	37	50
1982.....	9,910	5,754	1,722	198.2	34	50
1983.....	8,760	5,585	1,568	175.2	31	50
1984.....	8,784	5,480	1,603	175.7	32	50
1985.....	9,086	5,444	1,669	181.7	33	50

Source: U.S. Federal Highway Administration, *Highway Statistics Summary to 1985*.

## No. 1005. VOLUME AND CHARACTERISTICS OF TRAVEL: 1983

(Covers only travel day trips regardless of trip length. VMT=Vehicle-miles of travel; PMT=Person-miles of travel)

CHARACTERISTIC	HOUSEHOLD			PERSON		PERCENT DISTRIBUTION			
	Number of trips (mil.)	VMT (bil.)	Average trip length (miles)	Number of trips (mil.)	PMT (bil.)	Household		Persons	
						Number of trips	VMT	Number of trips	PMT
<b>Total.....</b>	<b>126,874</b>	<b>1,002,139</b>	<b>7.9</b>	<b>224,385</b>	<b>1,946,662</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Purpose:</b>									
Trip to work.....	35,375	302,185	8.5	45,826	391,544	27.9	30.3	20.4	20.2
Work-related business.....	3,696	42,223	11.4	5,283	115,605	2.9	4.2	2.4	5.9
Shopping.....	25,363	139,823	5.2	40,655	219,112	20.0	13.3	18.1	11.2
Other family or personal business.....	23,245	155,131	6.7	36,158	256,929	18.3	15.5	16.1	13.2
School/church.....	7,444	40,990	5.5	26,486	129,953	5.9	4.1	11.8	6.7
Visit friends or relatives.....	12,543	135,801	10.8	24,743	283,520	9.9	13.6	11.0	14.6
Other social or recreational.....	15,416	133,417	8.7	35,457	302,145	12.2	13.3	15.8	15.5
Vacation.....	187	21,317	114.0	630	155,551	.1	2.1	.3	8.0
Other.....	3,605	37,252	7.2	9,147	92,303	2.8	3.6	4.1	4.7
<b>Means of transportation:</b>									
Automobiles.....	95,497	742,901	9.8	139,387	1,181,626	75.3	74.2	62.1	60.8
Station wagons.....	10,820	81,471	7.5	16,194	139,253	8.6	8.1	7.2	7.2
Passenger van.....	2,803	21,401	7.6	4,746	51,269	2.2	2.1	2.1	2.6
Pickup truck <sup>1</sup> .....	13,851	122,504	8.8	18,372	176,926	10.9	12.2	8.2	9.1
Other.....	<sup>2</sup> 3,803	<sup>2</sup> 34,462	9.0	<sup>3</sup> 45,686	<sup>3</sup> 397,598	<sup>2</sup> 3.0	<sup>3</sup> 3.4	<sup>3</sup> 20.4	<sup>3</sup> 20.4

<sup>1</sup> Excludes pickup with camper and other trucks. <sup>2</sup> Includes other vans, pickups with campers, other trucks, motorized campers, motorcycles, motorized bicycles and other privately owned vehicles not listed elsewhere. <sup>3</sup> Includes other vans, motorized campers, motorcycles, trains, streetcars, elevated rail, airplane, commercial taxis, buses, school buses, bicycles, walking and other forms of transportation not included elsewhere.

Source: U.S. Federal Highway Administration, *1983 Nationwide Personal Transportation Survey*.

## No. 1006. HOUSEHOLD MOTOR VEHICLES, MILES DRIVEN, AND MOTOR FUEL EXPENDITURES, BY HOUSEHOLD CHARACTERISTIC: 1985

[Household vehicles include all motorized-vehicles used for personal transportation, excluding motorcycles, mopeds, large trucks, and buses. The reporting unit for 1985 is all households which owned a vehicle at any time during 1985. Based on the Residential Transportation Energy Consumption Survey; subject to sampling variability. For composition of regions, see fig. 1, inside front cover.]

HOUSEHOLD CHARACTERISTIC	Households with motor vehicles (mil.)	VEHICLES		MILES DRIVEN		MOTOR FUEL EXPENDITURES	
		Total (mil.)	Average per household	Total (bil.)	Average per household	Total (bil. dol.)	Average per household
<b>Total.....</b>	<b>77.7</b>	<b>137.3</b>	<b>1.8</b>	<b>1,353</b>	<b>17,402</b>	<b>99.1</b>	<b>\$1,274</b>
Northeast.....	15.0	24.8	1.7	248	16,476	17.6	1,169
Midwest.....	19.5	34.1	1.7	327	16,734	24.7	1,266
South.....	27.0	48.5	1.8	466	17,991	35.7	1,321
West.....	16.1	29.8	1.8	292	18,086	21.0	1,304
<b>Family income in 1985:</b>							
Less than \$5,000.....	3.7	4.4	1.2	34	9,176	2.8	749
\$5,000-\$9,999.....	9.7	12.5	1.3	98	10,094	7.8	811
\$10,000-\$14,999.....	10.7	15.8	1.5	149	13,848	11.5	1,068
\$15,000-\$19,999.....	9.7	15.8	1.6	141	14,599	10.5	1,085
\$20,000-\$24,999.....	9.5	16.9	1.8	165	17,411	12.2	1,286
\$25,000-\$34,999.....	14.7	28.2	1.9	289	19,741	21.0	1,434
\$35,000 or more.....	19.8	43.7	2.2	477	24,069	33.3	1,679

Source: U.S. Energy Information Administration, *Residential Transportation Energy Consumption Survey, Consumption Patterns of Household Vehicles, 1985*.

## NO. 1007. HOUSEHOLD MOTOR VEHICLE TRANSPORTATION, BY VEHICLE MODEL YEAR: 1985

[Preliminary. Household vehicles include all motorized vehicles used for personal transportation, excluding motorcycles, mopeds, large trucks, and buses. The reporting unit for 1985 is all households which owned a vehicle at any time during 1985. Based on the Residential Transportation Energy Consumption Survey; subject to sampling variability]

HOUSEHOLD CHARACTERISTICS	VEHICLES (millions)					Average	MILES PER GALLON			
	Total	Model year					1973 and earlier	1974 to 1978	1979 to 1982	1983 and later
		1973 and earlier	1974 to 1978	1979 to 1982	1983 and later					
<b>Total</b> .....	<b>137.3</b>	<b>26.9</b>	<b>43.3</b>	<b>37.8</b>	<b>28.7</b>	<b>16.1</b>	<b>13.4</b>	<b>13.8</b>	<b>17.9</b>	<b>19.3</b>
Northeast.....	24.8	3.0	8.1	7.6	6.1	17.0	13.6	14.0	18.8	20.2
Midwest.....	34.1	6.4	11.4	9.0	7.0	15.6	12.6	13.2	17.6	19.1
South.....	48.5	9.2	15.0	13.8	10.5	15.8	12.9	13.5	17.4	18.9
West.....	29.8	8.3	8.9	7.3	5.1	16.5	14.4	15.0	18.3	19.2
Family income in 1985:										
Less than \$5,000.....	4.4	1.4	1.7	.7	.6	14.2	12.5	13.7	17.5	15.6
\$5,000-\$9,999.....	12.5	4.3	4.4	2.4	1.4	14.6	13.3	12.7	16.8	19.9
\$10,000-\$14,999.....	15.8	4.4	5.8	3.8	1.8	15.2	13.4	13.8	17.5	18.9
\$15,000-\$19,999.....	15.8	3.5	5.7	3.9	2.6	15.7	12.9	13.4	18.1	20.4
\$20,000-\$24,999.....	16.9	3.1	5.5	4.7	3.4	16.0	13.3	14.0	17.9	18.9
\$25,000-\$34,999.....	28.2	4.5	9.2	8.5	5.9	16.2	13.2	14.0	18.2	19.0
\$35,000 or more.....	43.7	5.7	11.0	13.7	13.1	17.1	13.9	14.3	17.9	19.4

Source: U.S. Energy Information Administration, Residential Transportation Energy Consumption Survey, Consumption Patterns of Household Vehicles, 1985.

## NO. 1008. DOMESTIC MOTOR GASOLINE SUPPLY: 1974 TO 1987

[In 1,000 barrels per day, except as noted]

YEAR	SUPPLY <sup>1</sup>		Production	Net imports	Stocks <sup>2</sup> (mil. bbls.)	YEAR AND MONTH	SUPPLY <sup>1</sup>		Production	Net imports	Stocks <sup>2</sup> (mil. bbls.)		
	Total	Unleaded					Total	Per cent					
		Total										Per cent	
1974, avg.....	6,537	(NA)	(NA)	6,360	202	218							
1975, avg.....	6,675	(NA)	(NA)	6,520	182	235							
1976, avg.....	6,978	1,508	21.6	6,841	128	231	1966:						
1977, avg.....	7,177	1,976	27.5	7,033	215	258	March.....	6,955	4,678	67.3	6,061	224	219
1978, avg.....	7,412	2,521	34.0	7,169	189	238	June.....	7,209	4,914	68.2	7,101	392	230
1979, avg.....	7,034	2,798	39.8	6,852	181	237	Sept.....	6,864	4,813	70.1	6,894	303	234
1980, avg.....	6,579	3,067	46.6	6,508	139	261	Dec.....	7,143	5,193	72.7	6,970	320	233
1981, avg.....	6,588	3,264	49.5	6,405	155	253							
1982, avg.....	6,539	3,409	52.1	6,338	177	235	1987:						
1983, avg.....	6,622	3,647	55.1	6,340	237	222	March <sup>3</sup> .....	6,921	5,150	74.4	6,555	342	249
1984, avg.....	6,693	3,987	59.6	6,453	293	243	June <sup>3</sup> .....	7,320	(NA)	(NA)	7,036	381	235
1985, avg.....	6,831	4,406	64.5	6,419	351	223							
1986, avg.....	7,034	4,854	69.0	6,752	326	233							

NA Not available. <sup>1</sup> Production plus net imports less net increase in primary stocks. <sup>2</sup> End of year or month, includes motor gasoline blending components. <sup>3</sup> Preliminary.

Source: U.S. Energy Information Administration, Monthly Energy Review, April 1987, and earlier issues.

## NO. 1009. GASOLINE RETAIL PRICES—SELECTED COUNTRIES: 1973 TO 1986

[In U.S. dollars per U.S. gallon. As of July, except as indicated. Price includes tax except as noted. For most countries, based on exchange rates in effect as of July 31 of year shown]

COUNTRY AND TYPE	1973	1975	1980	1985 <sup>1</sup>	1986 <sup>1</sup>	COUNTRY AND TYPE	1973	1975	1980	1985 <sup>1</sup>	1986 <sup>1</sup>
United States: <sup>2</sup>						West Germany, Bonn:					
Regular unleaded.....	(NA)	(NA)	1.25	1.20	1.19	Regular.....	1.18	1.25	2.46	1.59	(NA)
Regular, leaded.....	.40	.57	1.19	1.12	1.11	Tax <sup>3</sup> .....	.72	.85	1.23	.81	(NA)
Premium, unleaded <sup>4</sup> .....	.45	.61	1.28	1.34	1.34	Premium.....	1.31	1.34	2.57	1.66	2.04
Tax <sup>4</sup> .....	.11	.12	.14	.21	.22	Canada, Ottawa:					
France, Paris:						Regular.....	.49	.66	.81	1.55	1.38
Regular.....	1.06	1.56	2.97	(NA)	(NA)	Tax.....	.19	.23	.25	.39	.39
Tax.....	.82	.94	1.70	(NA)	(NA)	Premium.....	.53	.67	.89	(NA)	(NA)
Premium.....	1.15	1.69	3.17	2.18	2.58	Mexico, Mexico City:					
Italy, Rome:						Regular.....	.24	.64	.45	1.07	(NA)
Regular.....	.99	1.66	3.08	2.43	(NA)	Tax.....	(NA)	.31	.15	.83	(NA)
Tax.....	.79	1.15	1.89	1.65	(NA)	Premium.....	.36	.91	1.13	1.36	1.02
Premium.....	1.05	1.71	3.15	2.52	3.09	Japan, Tokyo:					
United Kingdom:						Regular.....	.83	1.36	2.72	2.26	2.84
Regular.....	.78	1.27	2.60	(NA)	(NA)	Tax <sup>5</sup> .....	.42	.45	.93	.91	(NA)
Tax <sup>5</sup> .....	.48	.41	1.24	(NA)	(NA)	Premium.....	.96	1.63	2.89	2.37	(NA)
Premium.....	.81	1.31	2.65	1.81	2.24						

NA Not available. <sup>1</sup> As of January. <sup>2</sup> 1973 prices for regular and premium in Washington, DC; all other data are national annual averages. Source: 1973—Energy Information Administration, International Energy Annual; thereafter, Monthly Energy Review.

<sup>3</sup> Prior to 1980, prices are for leaded premium. <sup>4</sup> Source: PennWell Publishing Co., Tulsa, OK, Oil and Gas Journal, weekly.

<sup>5</sup> Excludes import duty and value-added tax, if any. <sup>6</sup> January 1981.

Source: Except as noted, U.S. Energy Information Administration; 1973-1975 International Petroleum Annual; thereafter, International Energy Annual.

## NO. 1010. COST OF OWNING AND OPERATING AN AUTOMOBILE: 1973 TO 1985

ITEM	Unit	1973	1974	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985
Cost per mile.....	Cents.....	16.47	16.62	18.31	20.19	19.57	23.97	27.95	31.92	32.35	33.42	31.32	27.20
Cost per 10,000 miles.....	Dollars.....	1,647	1,662	1,831	2,019	1,957	2,397	2,795	3,192	3,235	3,342	3,132	2,720
Variable cost.....	Cents/mile.....	4.75	5.70	6.45	5.80	5.65	5.86	7.62	8.17	8.37	8.36	7.96	8.04
Gas and oil.....	Cents/mile.....	3.35	4.18	4.82	4.11	3.89	4.11	5.86	6.27	6.74	6.64	6.19	6.16
Maintenance.....	Cents/mile.....	.78	.87	.97	1.03	1.10	1.10	1.12	1.18	1.00	1.04	1.04	1.23
Tires.....	Cents/mile.....	.82	.65	.66	.66	.66	.65	.64	1.12	.63	.68	.63	.65
Fixed cost.....	Dollars.....	1,172	1,092	1,186	1,439	1,392	1,811	2,033	2,375	2,398	2,506	2,346	2,441
Insurance.....	Dollars.....	45	38	53	80	57	74	70	76	53	80	80	92
Fire and theft <sup>2</sup> .....	Dollars.....	143	118	141	188	138	168	172	180	153	201	200	198
Collision <sup>3</sup> .....	Dollars.....	179	178	189	250	229	241	248	254	243	222	225	213
Property damage <sup>4</sup> and liability.....	Dollars.....	28	26	30	74	74	90	82	88	54	102	106	115
License and registration.....	Dollars.....	77	732	773	847	894	942	1,038	1,287	1,356	1,343	1,207	1,253
Depreciation.....	Dollars.....	(NA)	(NA)	(NA)	(NA)	(NA)	296	423	490	539	558	528	570
Finance charge.....	Dollars.....	(NA)											
Average fixed cost per day.....	Dollars.....	3.21	2.99	3.25	3.94	3.81	4.96	5.57	6.51	6.57	6.87	6.43	6.69

NA Not available. <sup>1</sup> Not comparable to previous data. <sup>2</sup> \$50 deductible 1973 through 1977, and \$100 deductible 1978 through 1985. <sup>3</sup> \$100 deductible 1973 through 1977, and \$250 deductible 1978 through 1985. <sup>4</sup> Coverage: \$100,000/\$300,000.

Source: Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI, *Motor Vehicle Facts and Figures*, annual.

## NO. 1011. PASSENGER TRANSIT INDUSTRY—SUMMARY: 1970 TO 1985

[Includes Puerto Rico. Comprises all privately and publicly owned organized local passenger transportation agencies except taxicabs, suburban railroads, and sightseeing and school buses. Covers (a) local motorbus systems, (b) light rail systems, (c) heavy rail systems, and (d) trolley coach systems. Beginning 1984, data also include suburban railroads, urban ferry boats, automated guideways, inclined planes, cable cars, aerial tramways, and rural fixed-route non-intercity motorbus systems. Also include all transit modes, and are non-continuous between 1983 and 1984. Based on financial and statistical reports received by American Public Transit Association from transit systems representing more than 85 percent of the industry. See also *Historical Statistics, Colonial Times to 1970*, series Q 238-250]

ITEM	Unit	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985
<b>Operating systems</b> .....	<b>Number</b> .....	<b>1,079</b>	<b>947</b>	<b>1,018</b>	<b>1,027</b>	<b>1,044</b>	<b>1,035</b>	<b>1,036</b>	<b>1,036</b>	<b>2,314</b>	<b>2,361</b>
Motorbus systems <sup>1</sup> .....	Number.....	1,075	941	1,014	1,023	1,040	1,030	1,031	1,031	2,291	2,338
Publicly owned systems <sup>1</sup> .....	Number.....	144	333	463	523	576	578	581	599	1,004	1,018
<b>Passenger vehicles owned</b> .....	<b>Number</b> .....	<b>61,350</b>	<b>62,226</b>	<b>64,013</b>	<b>65,739</b>	<b>70,983</b>	<b>72,063</b>	<b>73,803</b>	<b>73,782</b>	<b>94,917</b>	<b>95,512</b>
Motorbuses.....	Number.....	49,700	50,811	52,866	54,490	59,411	60,393	62,114	62,093	78,864	79,237
Electric railway cars <sup>2 3</sup> .....	Number.....	10,600	10,712	10,554	10,524	10,749	10,919	10,926	11,003	10,802	11,163
Heavy rail.....	Number.....	9,338	9,608	9,567	9,522	9,693	9,801	9,867	9,943	9,841	10,116
Trolley coaches.....	Number.....	1,050	703	593	725	823	751	763	686	686	686
<b>Total revenue</b> .....	<b>Mil. dol</b> .....	<b>(NA)</b>	<b>3,451</b>	<b>4,682</b>	<b>5,558</b>	<b>6,510</b>	<b>7,366</b>	<b>8,044</b>	<b>8,526</b>	<b>11,838</b>	<b>12,621</b>
Passenger revenue.....	Mil. dol.....	1,639	1,861	2,271	2,436	2,557	2,701	3,077	3,172	4,456	4,662
Other operating revenue <sup>4</sup> .....	Mil. dol.....	68	183	179	212	248	344	380	338	777	716
Operating assistance.....	Mil. dol.....	(NA)	1,408	2,232	2,910	3,705	4,321	4,587	5,023	6,605	7,243
Federal.....	Mil. dol.....	(NA)	302	690	856	1,094	1,095	1,005	827	1,024	980
State and local.....	Mil. dol.....	(NA)	1,106	1,542	2,055	2,611	3,226	3,582	4,195	5,581	6,263
<b>Total expense</b> .....	<b>Mil. dol</b> .....	<b>1,996</b>	<b>3,752</b>	<b>4,789</b>	<b>5,611</b>	<b>6,711</b>	<b>7,623</b>	<b>8,314</b>	<b>8,738</b>	<b>12,559</b>	<b>13,541</b>
Operating expense.....	Mil. dol.....	(NA)	3,537	4,539	5,232	6,246	7,024	7,553	7,958	11,219	12,057
Transportation.....	Mil. dol.....	(NA)	1,877	2,508	2,795	3,248	3,596	3,882	3,931	5,216	5,592
Maintenance.....	Mil. dol.....	(NA)	814	1,069	1,469	1,774	1,946	2,168	2,392	3,334	3,639
Administration.....	Mil. dol.....	(NA)	846	962	1,028	1,224	1,482	1,503	1,634	2,689	2,825
Reconciling expense.....	Mil. dol.....	(NA)	215	250	380	464	597	761	780	1,340	1,484
<b>Vehicle-miles operated</b> <sup>5</sup> .....	<b>Million</b> .....	<b>1,883</b>	<b>1,990</b>	<b>2,028</b>	<b>2,045</b>	<b>2,093</b>	<b>2,134</b>	<b>2,128</b>	<b>2,117</b>	<b>2,370</b>	<b>2,453</b>
Motorbus.....	Million.....	1,409	1,526	1,630	1,634	1,677	1,685	1,669	1,678	1,722	1,771
Electric railway <sup>2 3</sup> .....	Million.....	441	448	384	400	403	437	446	421	456	462
Heavy rail.....	Million.....	407	423	364	380	385	420	429	408	426	451
<b>Passengers carried</b> <sup>6 6</sup> .....	<b>Million</b> .....	<b>7,332</b>	<b>6,972</b>	<b>7,616</b>	<b>8,130</b>	<b>8,235</b>	<b>7,964</b>	<b>7,741</b>	<b>7,889</b>	<b>8,873</b>	<b>8,948</b>
Motorbus <sup>6</sup> .....	Million.....	5,034	5,084	5,721	6,156	5,837	5,594	5,324	5,422	5,998	6,024
Electric railway <sup>2 3</sup> .....	Million.....	2,116	1,810	1,825	1,899	2,256	2,292	2,266	2,307	2,388	2,432
<b>Avg. revenue per passenger</b> .....	<b>Cents</b> .....	<b>22.4</b>	<b>26.7</b>	<b>29.8</b>	<b>30.0</b>	<b>31.0</b>	<b>33.9</b>	<b>39.7</b>	<b>40.2</b>	<b>50.2</b>	<b>52.1</b>
Employees, number (avg.).....	1,000.....	138	160	165	178	187	193	194	195	254	262
Payroll, employee.....	Mil. dol.....	1,274	2,236	2,741	3,025	3,280	3,494	3,731	3,921	5,350	5,803

NA Not available. <sup>1</sup> Includes systems with combined services including motorbuses, heavy rail cars, light rail cars, trolley coaches, cable cars, and inclined plane cars. <sup>2</sup> Includes light rail. <sup>3</sup> Beginning 1975, includes cable car and inclined plane.

<sup>4</sup> Includes other operating revenue, non-operating revenue, and auxiliary income. <sup>5</sup> Includes trolley coach, not shown separately. <sup>6</sup> Data for 1970-1979 not comparable with later years.

Source: American Public Transit Association, Washington, DC, *Transit Fact Book*, annual.

NO. 1012. CLASS I INTERCITY MOTOR CARRIERS OF PASSENGERS: 1970 TO 1985

[Carriers subject to ICC regulations. See text, section 21. Minus sign (-) indicates deficit. See also *Historical Statistics, Colonial Times to 1970*, series Q 69-75]

ITEM	Unit	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985
Carriers reporting <sup>1</sup>	Number	71	77	42	43	45	48	45	50	45	43	43
Number of employees, average	1,000	34	31	27	26	27	31	31	30	25	25	24
Compensation of employees	Mil. dol.	317	393	400	412	469	599	630	646	570	551	518
Operating revenue <sup>2</sup>	Mil. dol.	722	942	969	1,021	1,200	1,397	1,453	1,447	1,278	1,255	1,233
Passenger revenue <sup>3</sup>	Mil. dol.	524	651	655	671	802	947	983	969	876	861	836
Special bus revenue and other	Mil. dol.	198	291	314	345	398	215	202	229	180	180	184
Operating expenses	Mil. dol.	639	880	924	983	1,143	1,318	1,381	1,416	1,283	1,254	1,168
Net operating revenue	Mil. dol.	83	61	45	38	57	79	72	30	-7	1	65
Ordinary income:												
Before income taxes	Mil. dol.	88	83	58	57	57	107	88	35	16	53	65
After income taxes	Mil. dol.	52	56	40	41	57	90	61	37	26	43	53
Passenger vehicles in service <sup>3</sup>	1,000	13.3	9.7	8.3	8.5	8.2	8.6	8.4	8.1	7.3	7.0	8.4
Vehicle-miles, passenger	Million	871	836	754	726	754	781	732	717	591	585	567
Revenue passengers carried	Million	174	147	122	118	122	134	114	112	94	89	88
Expense per vehicle-mile	Dollar	.73	1.05	1.23	1.35	1.52	1.69	1.89	1.98	2.17	2.14	2.06

<sup>1</sup> Excludes carriers preponderantly in local or suburban service and carriers engaged in transportation of both property and passengers. <sup>2</sup> Includes \$4 million from Government authorities for current operations. <sup>3</sup> Regular route, intercity and local.

Source: U.S. Interstate Commerce Commission, 1970, *Transport Statistics in the United States*, Part 7, and 1975-1984, Part 2, annual; except 1976, *Financial and Operating Statistics, Class I Motor Carriers of Passengers*, section No. 750, semiannual. (Discontinued in 1979.)

NO. 1013. INTERCITY BUS LINES—SUMMARY OF OPERATIONS: 1970 TO 1985

ITEM	Unit	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985
Operating companies	Number	1,000	950	1,050	1,100	1,200	1,330	1,470	1,520	(NA)	(NA)	(NA)
Buses	1,000	22.0	20.5	20.1	20.4	21.3	21.4	21.7	20.9	20.4	20.1	20.2
Miles of highway served (Dec. 31) <sup>1</sup>	1,000	267	274	276	278	280	279	276	273	270	266	263
Employees (Dec. 31) <sup>2</sup>	1,000	50	47	46	46	48	49	50	48	45	44	43
Bus miles, total	Million	1,209	1,126	1,118	1,100	1,153	1,162	1,151	1,115	1,027	1,016	993
Revenue passengers	Million	401	351	329	336	368	370	370	359	352	352	352
Charter and tour passengers	Million	92	145	160	175	185	195	204	206	209	(NA)	(NA)
Revenue passenger-miles	Billion	25.3	25.4	26.0	25.6	27.7	27.4	26.8	27.9	25.4	24.4	25.2
Operating revenue, all services	Mil. dol.	901	1,172	1,331	1,419	1,664	1,943	2,097	2,070	1,953	1,814	1,879
Operating expenses	Mil. dol.	812	1,103	1,276	1,366	1,572	1,811	1,982	2,013	1,938	1,896	1,814
Net operating revenue <sup>3</sup>	Mil. dol.	89	69	55	53	92	132	115	57	15	18	65

NA Not available. <sup>1</sup> Includes duplication between carriers. <sup>2</sup> Operating companies only. <sup>3</sup> Before income taxes. Source: American Bus Association, Washington, DC, *Bus Facts*, annual; and *Annual Report*.

NO. 1014. WAREHOUSING SERVICES—OPERATING REVENUES, OPERATING EXPENSES, AND PAYROLL: 1984 AND 1985

SIC <sup>1</sup> code	KIND OF BUSINESS	OPERATING REVENUES			OPERATING EXPENSES			ANNUAL PAYROLL		
		Total (mil. dol.)		Percent change	Total (mil. dol.)		Percent change	Total (mil. dol.)		Percent change
		1984	1985	1984-1985	1984	1985	1984-1985	1984	1985	1984-1985
42	Motor freight transportation and warehousing services <sup>2</sup>	83,974	88,559	5.5	78,671	84,235	6.8	26,553	27,775	4.6
421	Trucking, local and long distance	79,715	84,015	5.4	75,222	80,281	6.7	25,276	26,400	4.5
422	Public warehousing	4,148	4,440	7.0	3,556	3,962	8.8	1,231	1,330	8.0
4221	Farm product warehousing and storage	535	530	-1.0	439	454	3.4	(d)	(d)	(d)
4222	Refrigerated warehousing	943	1,032	9.5	793	891	12.2	288	324	12.6
4224	Household goods warehousing and storage	249	257	3.3	(d)	(d)	(d)	(d)	(d)	(d)
4225, 6	General warehousing and storage and special warehousing and storage not elsewhere classified	2,421	2,621	8.3	2,118	2,306	8.9	745	800	7.4

D Data do not meet publication standards because of high sampling error or high imputation rate. <sup>1</sup> Standard Industrial Classification. <sup>2</sup> Includes terminal and joint terminal maintenance facilities for motor freight transportation (SIC 4231) not shown separately.

Source: U.S. Bureau of the Census, *Current Business Reports, 1985 Motor Freight Transportation and Warehousing Survey*.

**NO. 1015. TRUCKING SERVICES—OPERATING REVENUES, OPERATING EXPENSES, AND EQUIPMENT, BY TYPE OF CARRIER: 1984 AND 1985**

[In millions of dollars, except as indicated. Data cover SIC group 421. Estimates include both regulated and nonregulated carriers; excluded are non-employers (i.e., firms with no paid employees) and private fleets operated as auxiliary establishments to nontransportation companies. Some unpublished estimates may be derived from this table by subtraction, but such figures are subject to high sampling variability and should be used with caution.]

ITEM	ALL CARRIERS		SPECIALTY FREIGHT CARRIERS		GENERAL FREIGHT CARRIERS	
	1984	1985	1984	1985	1984	1985
<b>Operating revenues:</b>						
Total <sup>1</sup> .....	79,715	84,015	25,072	26,877	54,643	57,138
Motor carrier.....	73,999	78,017	21,902	23,451	52,096	54,588
Local trucking.....	15,830	17,526	7,518	8,537	8,312	8,989
Intercity trucking.....	58,169	60,490	14,365	14,893	43,785	45,597
<b>Operating expenses:</b>						
Total.....	75,222	80,281	23,349	25,380	51,872	54,901
Annual payroll.....	25,276	26,400	6,431	6,786	18,844	19,605
Employer contributions to Social Security and other supplemental labor benefits.....	5,778	6,003	1,185	1,270	4,593	4,734
Purchased fuels.....	6,325	6,446	1,808	1,848	4,516	4,598
Lease and rental payments.....	15,941	16,984	(S)	(S)	10,585	11,214
Depreciation.....	3,783	4,068	(S)	(S)	2,500	2,689
Taxes and licenses.....	1,686	1,882	494	548	1,192	1,314
Other.....	16,435	18,518	6,792	7,769	9,642	10,749
<b>Equipment<sup>2</sup> (1,000 units):</b>						
Trucks.....	(NA)	221	(NA)	88	(NA)	132
Truck-tractors.....	(NA)	473	(NA)	147	(NA)	326
Trailers, full and semi.....	(NA)	1,011	(NA)	207	(NA)	804

NA Not available. S Data do not meet publication standards. <sup>1</sup> Includes other revenues not shown separately. <sup>2</sup> Represents revenue generating freight equipment as of December 31. Includes owned and leased equipment.

Source: U.S. Bureau of the Census, *Current Business Reports*, 1985 Motor Freight Transportation and Warehousing Survey.

**NO. 1016. CLASS I INTERCITY MOTOR CARRIERS OF PROPERTY, BY CARRIER: 1975 TO 1985**

[See headnote, table 1012. Common carriers are carriers offering regular scheduled service. Contract carriers provide service at request of user. Minus sign (–) indicates loss]

ITEM	Unit	1975	1980	1984	1985	1975	1980	1984	1985
		COMMON CARRIER, GENERAL FREIGHT				COMMON CARRIER OTHER THAN GENERAL FREIGHT			
Carriers reporting.....	Number.....	368	298	254	237	330	441	464	397
Number of employees, average.....	1,000.....	379	413	383	376	84	101	87	76
Compensation of employees.....	Mil. dol.....	5,726	9,803	10,428	10,217	1,046	1,931	1,972	1,783
Operating revenues.....	Mil. dol.....	11,116	19,725	22,482	22,314	3,807	8,792	8,991	7,982
Intercity freight.....	Mil. dol.....	10,511	19,480	22,222	22,080	3,717	8,339	8,654	7,684
Operating expenses.....	Mil. dol.....	10,571	18,870	21,279	21,037	3,758	8,426	8,653	7,752
Ordinary income before taxes.....	Mil. dol.....	432	701	1,084	1,198	109	230	254	123
Net income.....	Mil. dol.....	225	–72	657	658	65	14	182	94
Total power units, intercity service.....	1,000.....	78	102	106	108	69	95	88	77
Trucks, tractors owned in operation, avg.....	1,000.....	49	73	80	82	25	33	32	29
Intercity vehicle-miles.....	Million.....	6,246	6,547	6,045	5,760	4,776	6,889	6,589	5,714
Tons of intercity revenue freight carried.....	Million.....	191	178	147	138	264	324	345	303
		CONTRACT CARRIER OTHER THAN GENERAL FREIGHT				CARRIERS OF HOUSEHOLD GOODS			
Carriers reporting.....	Number.....	50	69	69	64	32	28	35	40
Number of employees, average.....	1,000.....	10	14	19	22	4	10	10	11
Compensation of employees.....	Mil. dol.....	175	336	569	630	70	157	190	240
Operating revenues.....	Mil. dol.....	453	1,272	1,836	1,942	866	1,824	2,510	2,684
Intercity freight.....	Mil. dol.....	411	1,172	1,688	1,792	765	1,676	2,288	2,388
Operating expenses.....	Mil. dol.....	432	1,207	1,734	1,807	849	1,781	2,432	2,635
Ordinary income before taxes.....	Mil. dol.....	17	48	92	103	32	74	107	79
Net income.....	Mil. dol.....	9	28	57	69	18	42	70	54
Total power units, intercity service.....	1,000.....	8	13	16	16	18	25	33	35
Trucks, tractors owned in operation, avg.....	1,000.....	5	7	10	11	(Z)	1	1	1
Intercity vehicle-miles.....	Million.....	454	934	1,267	1,227	688	969	1,222	1,171
Tons of intercity revenue freight carried.....	Million.....	21	37	38	41	3	5	7	7

Z Less than 500.

Source: U.S. Interstate Commerce Commission, *Transport Statistics in the United States*, Part 2, annual.

NO. 1017. RAILROADS, CLASS I—SUMMARY: 1970 TO 1986

[As of Dec. 31, or calendar year data, except as noted. Compiled from annual reports of class I railroads only, except where noted. Beginning 1983, financial data may not be comparable with earlier years due to changes in accounting systems. Minus sign (-) indicates deficit. See also *Historical Statistics, Colonial Times to 1970*, series Q 284-312, Q 319, Q 330, Q 356-378, and Q 400-401]

ITEM	Unit	1970	1975	1980	1981	1982	1983	1984	1985	1986
<b>Class I line-hauling companies</b> <sup>1</sup> .....	Number.....	71	73	39	38	33	32	29	23	22
Employees <sup>2</sup> .....	1,000.....	566	494	480	457	397	342	344	302	276
Compensation.....	Mil. dol.....	5,711	7,475	11,318	11,650	11,021	10,345	11,004	10,563	9,919
Average per hour.....	Dollars.....	4.14	6.39	10.21	11.14	12.26	13.29	13.84	14.30	14.78
Average per year.....	Dollars.....	10,085	15,324	24,659	26,698	29,087	32,125	34,064	34,991	35,961
<b>Mileage:</b>										
Railroad line owned <sup>3</sup> .....	1,000.....	206	199	179	168	165	161	157	155	154
Railroad track owned <sup>4</sup> .....	1,000.....	336	324	290	278	275	270	264	257	256
<b>Equipment:</b>										
Locomotives in service.....	Number.....	27,086	28,210	28,396	27,808	27,073	25,836	24,506	22,932	21,045
Average horsepower.....	1,000 lb.....	1,928	2,121	2,302	2,326	2,341	2,364	2,415	2,469	2,531
<b>Cars in service:</b>										
Passenger-train.....	Number.....	11,177	6,471	4,347	3,945	3,736	2,610	2,580	2,502	2,307
Freight train <sup>5</sup> .....	1,000.....	1,784	1,724	1,711	1,673	1,588	1,543	1,486	1,422	1,339
Freight cars <sup>7</sup> .....	1,000.....	1,454	1,359	1,168	1,111	1,039	1,007	948	867	799
Average capacity <sup>7</sup> .....	Tons.....	67.1	72.9	78.5	80.5	81.6	82.4	83.4	83.2	84.1
Aggregate capacity <sup>7</sup> .....	Mil. tons.....	95.6	99.2	92.7	89.4	84.8	83.0	80.0	72.2	67.2
Box <sup>7</sup> .....	1,000.....	590	475	347	314	278	271	245	216	180
Gondola and hopper <sup>7</sup> .....	1,000.....	724	680	636	621	594	577	552	505	473
Other <sup>7</sup> .....	1,000.....	140	204	185	176	167	159	151	145	146
<b>Income and expenses:</b>										
Operating revenues.....	Mil. dol.....	11,992	16,402	28,103	30,899	27,504	26,729	29,453	27,586	26,204
Operating expenses.....	Mil. dol.....	11,478	15,936	26,250	28,587	26,490	24,106	25,800	25,225	24,896
Net revenue from railway operations.....	Mil. dol.....	514	466	1,853	2,312	1,013	2,623	3,653	2,361	1,308
Income before fixed charges.....	Mil. dol.....	994	1,094	3,167	4,425	2,680	3,889	4,893	3,393	2,480
Income taxes on ordinary income <sup>8</sup> .....	Mil. dol.....	88	58	291	45	58	44	255	294	490
Tax accruals.....	Mil. dol.....	1,089	1,706	2,578	3,330	21,628	3,014	3,577	3,088	2,611
Interest on funded debt.....	Mil. dol.....	497	623	933	1,056	1,019	939	916	877	875
Net ordinary income.....	Mil. dol.....	227	144	1,192	2,041	1,152	1,778	2,654	1,788	747
Net railway operating income.....	Mil. dol.....	486	351	1,312	1,361	742	1,938	2,536	1,746	507
Rate of return on average net investment.....	Percent.....	1.73	1.20	4.13	3.98	2.11	4.29	5.70	3.84	1.11
Gross capital expenditures.....	Mil. dol.....	1,351	1,790	3,521	2,750	1,975	2,751	3,744	4,423	3,601
Equipment.....	Mil. dol.....	993	1,303	2,346	1,502	713	455	806	965	693
Roadway and structures.....	Mil. dol.....	358	486	1,275	1,248	1,262	2,306	2,938	3,458	2,908
<b>Balance sheet:</b>										
Total property investment.....	Mil. dol.....	38,213	40,344	43,923	46,619	47,311	62,964	63,471	64,241	64,781
Accrued depreciation and amortization.....	Mil. dol.....	10,027	10,805	10,706	11,622	12,051	19,480	20,098	19,756	20,940
Net investment.....	Mil. dol.....	28,186	29,740	33,217	34,997	35,260	43,483	43,373	44,485	43,841
Shareholder's equity.....	Mil. dol.....	17,323	14,942	19,860	21,233	21,349	26,461	27,996	27,605	28,442
Net working capital.....	Mil. dol.....	-59	66	897	1,692	1,372	1,325	1,844	1,084	743
Cash dividends.....	Mil. dol.....	421	434	610	662	1,038	1,085	1,066	1,444	1,376
<b>AMTRAK passenger traffic:</b>										
Passenger revenue.....	Mil. dol.....	(NA)	(NA)	(NA)	468.1	485.1	515.3	556.7	604.9	633.6
Revenue passengers carried.....	1,000.....	(NA)	(NA)	(NA)	19,889	18,725	19,469	20,065	20,945	20,165
Revenue passenger miles.....	Mil.....	(NA)	(NA)	(NA)	4,682	4,122	4,343	4,566	4,977	5,015
<b>Averages:</b>										
Revenue per passenger.....	Dol.....	(NA)	(NA)	(NA)	23.54	24.80	26.39	28.23	28.86	31.42
Revenue per passenger mile.....	Cents.....	(NA)	(NA)	(NA)	10.93	11.26	11.83	12.43	12.15	12.63
Trip per passenger.....	Miles.....	(NA)	(NA)	(NA)	234.4	220.1	223.1	227.6	237.6	248.7
<b>Freight service:</b>										
Freight revenue.....	Mil. dol.....	10,922	15,390	26,200	26,925	25,627	25,835	28,472	26,688	25,344
Per ton-mile.....	Cents.....	1.43	2.04	2.83	3.16	3.21	3.20	3.08	3.04	2.92
Per ton originated.....	Dollar.....	7.67	11.40	18.05	20.36	20.89	20.66	20.89	21.39	20.82
Revenue-tons originated.....	Million.....	1,485	1,395	1,492	1,453	1,269	1,293	1,429	1,320	1,087
Revenue-tons carried.....	Million.....	2,616	2,437	2,434	2,377	1,979	1,832	2,119	1,965	1,639
Tons carried one mile.....	Billion.....	765	754	919	910	798	827	922	877	868
Average miles of road operated.....	1,000.....	209	205	178	177	174	170	165	161	155
Revenue ton-miles per mile of road.....	1,000.....	3,652	3,666	5,133	5,142	4,802	4,876	5,778	5,446	5,587
Revenue per ton-mile.....	Cents.....	1.428	2.041	2,852	3,178	3,212	3,119	3,090	3,043	2,921
Train miles.....	Million.....	427	402	428	408	345	346	369	347	347
Net ton-miles per train-mile <sup>10</sup> .....	Number.....	1,820	1,938	2,175	2,265	2,345	2,432	2,543	2,574	2,552
Net ton-miles per loaded car-mile <sup>10</sup> .....	Number.....	44.9	51.7	63.5	67.1	68.3	61.2	62.4	62.7	63.2
Train-miles per train-hour.....	Miles.....	20.1	20.0	18.2	19.0	21.4	20.3	21.9	21.9	22.5
Haul per ton, U.S. as a system.....	Miles.....	490	516	590	600	604	613	617	635	636
<b>Accident:<sup>11</sup></b>										
Persons killed.....	Number.....	2,255	1,560	1,417	1,284	1,119	1,073	1,247	1,036	1,091
Persons injured.....	Number.....	21,327	54,306	62,246	53,003	40,275	34,816	38,570	34,304	26,923

NA Not available. <sup>1</sup> See text, section 21 for definition of class I. <sup>2</sup> Average mid-month count. <sup>3</sup> Represents the aggregate length of roadway of all line-haul railroads. Excludes yard tracks, sidings, and parallel lines. (Includes estimate for class II and III railroads.) <sup>4</sup> Includes multiple main tracks, yard tracks, and sidings owned by both line-haul and switching and terminal. (Includes estimate for class II and III railroads.) <sup>5</sup> Excludes Long Island Railroad, which was reclassified. <sup>6</sup> Includes cars owned by all railroads, private car companies, and shippers. <sup>7</sup> Class I railroads only. <sup>8</sup> Includes State income taxes beginning 1980. <sup>9</sup> Represents credit. <sup>10</sup> Revenue and non-revenue freight. <sup>11</sup> Includes highway grade crossing casualties. 1970 not comparable with later years due to change in requirements for reporting injuries.

Source: Association of American Railroads, Washington, DC, *Yearbook of Railroad Facts, Statistics of Railroads of Class I*, annual, and *Analysis of Class I Railroads*, annual. Accident data: U.S. Federal Railroad Administration, *Accident Bulletin*, annual.

**NO. 1018. RAILROADS, CLASS I—CARS OF REVENUE FREIGHT LOADED, 1960 TO 1986, AND BY COMMODITY GROUP, 1985 AND 1986**

[In thousands. Figures are 52-week totals. Data for 1978-86 include 12 class II railroads which were class I in 1977. See text, section 21, for definition of class I. N.e.c.=Not elsewhere classified]

YEAR	CARLOADS		COMMODITY GROUP	CARLOADS		COMMODITY GROUP	CARLOADS	
	Total	Piggy-back		1985	1986		1985	1986
1960.....	30,441	554	Coal.....	5,793	5,680	Crushed stone, gravel, sand.....	642	667
1965.....	29,248	1,077	Metallic ores.....	725	742	Nonmetallic minerals, n.e.c.....	568	453
1970.....	27,160	1,450	Chemicals, allied products.....	1,251	1,240	Waste and scrap materials.....	436	411
1975.....	23,217	1,308	Grain.....	1,187	1,265	Lumber, wood products (exc. furniture), n.e.c.....	366	397
1980.....	22,598	1,661	Motor vehicles and equipment.....	1,092	1,035	Forwarder/shipper assoc. traffic.....	336	201
1981.....	21,613	1,723	Pulp, paper, allied products.....	712	657	Coke.....	254	218
1982.....	18,498	1,920	Primary forest products.....	584	532	Farm product.....	237	240
1983.....	18,815	2,348	Food and kindred prod., n.e.c.....	568	592	Farm products, exc. grain.....	188	192
1984.....	20,257	2,703	Grain mill products.....	537	545	Less than carload.....	8	6
1985.....	19,574	2,963	Metals and products.....	445	414	All other carloads.....	3,113	3,510
1986.....	19,477	3,279	Stone, clay, and glass products.....	530	508			

Source: Association of American Railroads, Washington, DC, *Cars of Revenue Freight Loaded*, annual.

**NO. 1019. RAILROADS, CLASS I LINE-HAUL—REVENUE FREIGHT ORIGINATED, BY COMMODITY GROUP: 1970 TO 1986**

[See Historical Statistics, Colonial Times to 1970, series Q 332, for total carloads originated]

COMMODITY GROUP	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986, prel.
<b>Carloads<sup>1</sup> (1,000)</b> .....	<b>27,015</b>	<b>22,930</b>	<b>22,482</b>	<b>23,409</b>	<b>22,223</b>	<b>21,343</b>	<b>18,585</b>	<b>19,013</b>	<b>20,946</b>	<b>19,501</b>	<b>18,587</b>
Coal.....	5,296	4,844	4,372	5,329	5,789	5,835	5,718	5,276	6,061	5,684	5,433
Farm products.....	2,374	1,873	1,599	1,721	1,866	1,637	1,566	1,642	1,757	1,494	1,602
Food and kindred products.....	2,706	2,154	1,922	1,348	1,767	1,557	1,391	1,316	1,234	1,224	1,276
Metallic ores.....	1,602	1,338	1,405	1,480	1,258	1,354	761	812	1,001	511	508
Chemicals, allied products.....	1,576	1,313	1,426	1,471	1,322	1,222	1,120	1,216	1,312	296	1,287
Nonmetallic minerals <sup>2</sup> .....	2,204	1,895	1,650	1,592	1,474	1,272	958	1,079	1,204	1,196	1,113
Lumber and wood products <sup>3</sup> .....	2,048	1,615	1,629	1,565	1,384	1,254	1,002	1,075	1,051	948	965
Transportation equipment.....	1,059	1,135	1,352	1,278	1,004	939	801	954	1,141	1,202	1,148
Pulp, paper, allied products.....	1,197	1,015	975	977	954	899	785	746	741	703	672
Primary metal products.....	1,486	796	873	913	756	760	459	440	487	449	399
Stone, clay, and glass products.....	1,231	906	911	920	776	690	518	543	576	551	530
Waste and scrap materials.....	805	744	734	713	632	670	409	417	480	429	402
Petroleum and coal products.....	699	787	704	716	596	607	467	495	529	491	477
Machinery, exc. electrical.....	200	156	104	90	77	86	43	38	40	35	31
Fabricated metal products <sup>4</sup> .....	398	244	96	87	72	55	36	33	37	31	26
<b>Tons<sup>1</sup> (mil.)</b> .....	<b>1,484.9</b>	<b>1,395.1</b>	<b>1,390.4</b>	<b>1,502.1</b>	<b>1,492.4</b>	<b>1,453.0</b>	<b>1,268.6</b>	<b>1,292.6</b>	<b>1,429.4</b>	<b>1,319.8</b>	<b>1,305.8</b>
Coal.....	404.6	407.6	383.1	473.8	522.1	527.6	523.8	493.6	566.6	538.0	517.5
Farm products.....	134.2	134.2	126.7	158.5	156.1	139.9	133.5	142.2	151.1	127.0	136.4
Food and kindred products.....	110.1	100.2	95.4	93.2	91.9	82.8	77.0	75.2	72.1	73.5	78.3
Metallic ores.....	126.7	106.4	112.5	119.9	105.4	113.8	62.6	68.4	85.5	46.9	46.4
Chemicals, allied products.....	91.6	91.4	106.7	112.4	108.3	105.9	91.2	99.3	107.4	106.4	105.6
Nonmetallic minerals <sup>2</sup> .....	163.3	150.6	135.0	132.3	124.8	110.0	84.7	96.5	108.2	107.7	101.2
Lumber and wood products <sup>3</sup> .....	101.9	88.6	95.1	93.1	85.5	80.3	65.9	71.7	69.8	63.2	64.9
Transportation equipment.....	24.2	27.3	32.2	30.6	23.9	22.2	18.8	22.2	26.1	27.2	25.9
Pulp, paper, allied products.....	42.5	40.6	41.4	42.4	42.1	41.6	36.4	36.6	37.7	36.2	35.6
Primary metal products.....	82.2	51.4	60.3	63.9	52.7	53.3	32.0	32.0	36.1	33.6	29.7
Stone, clay, and glass products.....	71.1	56.8	59.9	61.5	53.7	49.2	38.2	41.6	44.7	43.5	42.1
Waste and scrap materials.....	39.8	38.2	37.8	38.5	34.3	34.1	22.7	24.5	28.8	25.7	25.0
Petroleum and coal products.....	36.3	45.8	44.4	43.9	38.1	39.0	31.6	33.6	35.3	32.9	32.8
Machinery, exc. electrical.....	4.6	3.6	2.5	2.3	2.0	1.7	1.2	.8	.9	.8	.7
Fabricated metal products <sup>4</sup> .....	11.3	8.2	2.5	2.3	2.0	1.7	1.0	.8	.9	.8	.8
<b>Gross revenue<sup>1</sup> (mil. dol.)</b> .....	<b>11,388</b>	<b>16,899</b>	<b>20,785</b>	<b>24,283</b>	<b>26,938</b>	<b>29,590</b>	<b>26,504</b>	<b>26,710</b>	<b>29,866</b>	<b>28,225</b>	<b>27,186</b>
Coal.....	1,381	2,146	2,813	3,872	4,956	5,977	6,307	5,969	6,965	6,556	6,089
Farm products.....	1,088	1,472	1,678	2,101	2,801	2,621	2,305	2,374	2,463	1,977	2,207
Food and kindred products.....	1,363	1,822	2,158	2,421	2,837	2,928	2,604	2,349	2,309	2,266	2,192
Metallic ores.....	333	468	553	621	597	723	403	450	567	403	375
Chemicals, allied products.....	1,137	1,681	2,342	2,739	2,946	3,259	2,942	3,078	3,360	3,342	3,342
Nonmetallic minerals <sup>2</sup> .....	409	596	723	829	948	1,036	852	834	997	949	839
Lumber and wood products <sup>3</sup> .....	832	1,066	1,461	1,546	1,543	1,559	1,303	1,527	1,611	1,525	1,563
Transportation equipment.....	734	1,283	2,089	2,167	1,917	2,120	1,966	2,292	2,859	3,110	2,996
Pulp, paper, allied products.....	730	977	1,280	1,445	1,652	1,848	1,717	1,671	1,762	1,610	1,576
Primary metal products.....	813	848	1,104	1,291	1,332	1,559	977	816	955	872	787
Stone, clay, and glass products.....	512	651	902	1,018	1,025	1,114	888	908	1,024	960	906
Waste and scrap materials.....	232	359	432	479	513	573	418	423	496	446	425
Petroleum and coal products.....	305	573	713	835	865	1,019	887	844	913	861	800
Machinery, exc. electrical.....	148	200	166	174	176	176	115	75	81	72	58
Fabricated metal products <sup>4</sup> .....	210	221	115	117	110	105	71	52	67	48	40

<sup>1</sup> Includes commodity groups and small packaged freight shipments, not shown separately. <sup>2</sup> Except fuels.

<sup>3</sup> Except furniture. <sup>4</sup> Except ordnance, machinery, and transport.

Source: 1970-1978, U.S. Interstate Commerce Commission, *Freight Commodity Statistics—Class I Railroads in the United States*, annual; thereafter, Association of American Railroads, Washington, DC, *Freight Commodity Statistics*, annual.

**NO. 1020. RAILROAD FREIGHT—PRODUCER PRICE INDEXES: 1970 TO 1986**

[Dec. 1984=100. Reflects prices for shipping a fixed set of commodities under specified and unchanging conditions]

COMMODITY	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
<b>Total railroad freight.....</b>	<b>29.1</b>	<b>45.3</b>	<b>53.2</b>	<b>56.9</b>	<b>65.0</b>	<b>75.9</b>	<b>87.4</b>	<b>93.7</b>	<b>95.0</b>	<b>99.3</b>	<b>99.9</b>	<b>100.7</b>
Annual percent change <sup>1</sup> .....	8.8	13.2	6.8	7.0	14.2	16.8	15.2	7.2	1.4	4.5	.6	.8
Coal.....	26.9	44.0	52.4	56.5	65.9	75.8	86.9	95.4	96.5	99.9	100.0	100.7
Farm products.....	29.7	45.2	52.4	56.1	64.6	75.6	86.3	92.4	94.0	98.7	99.0	99.6
Food and kindred products.....	26.9	44.8	51.9	55.8	63.5	75.2	87.4	93.7	94.8	98.1	100.0	99.9
Metallic ores.....	26.4	43.2	51.2	55.1	63.8	74.5	86.1	93.9	95.9	99.4	100.2	100.5
Chemicals and allied products.....	30.0	46.5	54.3	57.5	64.9	75.6	87.1	93.5	94.3	96.7	100.1	101.2
Nonmetallic minerals.....	25.4	40.5	48.3	52.0	60.6	72.2	84.6	93.3	94.6	96.9	100.1	101.6
Lumber and wood products.....	26.3	42.8	50.1	53.8	61.0	72.7	85.2	91.4	93.3	99.7	100.0	100.9
Transportation equipment.....	31.7	50.3	59.3	63.1	71.5	81.7	91.6	94.5	95.6	99.8	100.0	100.8
Pulp, paper, and allied products.....	31.5	47.1	53.9	57.0	64.7	76.7	88.5	94.7	95.6	99.0	100.0	101.0
Primary metal products.....	29.9	47.8	56.0	59.5	67.5	77.8	88.5	94.3	95.4	99.7	100.0	100.2
Stone, clay, concrete, glass, products.....	26.9	43.0	50.9	55.0	62.8	74.2	86.5	93.4	94.4	98.8	100.0	102.2

<sup>1</sup> Change from prior year.

Source: U.S. Bureau of Labor Statistics, *Producer Prices and Price Indexes*, monthly and annual.

**NO. 1021. PETROLEUM PIPELINE COMPANIES—CHARACTERISTICS: 1972 TO 1985**

[Covers pipeline companies operating in interstate commerce and subject to jurisdiction of Interstate Commerce Commission from 1972 to 1975, and Federal Energy Regulatory Commission beginning 1977]

ITEM	Unit	1972	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985
Miles of pipeline, total.....	1,000.....	172.1	170.7	154.5	161.6	169.8	172.7	172.8	172.5	167.8	173.9	171.4
Gathering lines.....	1,000.....	42.3	40.4	34.7	36.5	36.9	36.3	38.6	35.6	31.0	36.1	35.0
Trunk lines.....	1,000.....	129.8	130.3	119.8	125.1	132.9	136.4	134.2	136.9	136.8	137.9	136.4
Total deliveries.....	Mil. bbl.....	8,847	9,391	10,019	10,788	11,140	10,600	10,223	10,181	10,310	10,224	10,745
Crude oil.....	Mil. bbl.....	5,510	5,729	6,089	6,550	6,728	6,405	6,070	5,988	6,020	5,671	6,239
Products.....	Mil. bbl.....	3,337	3,662	3,930	4,218	4,412	4,195	4,153	4,213	4,289	4,552	4,506
Total trunk line traffic.....	Bil. bbl-miles.....	2,687	2,892	3,895	3,723	3,577	3,405	3,554	3,442	3,328	3,406	3,342
Crude oil.....	Bil. bbl-miles.....	1,520	1,551	2,267	2,031	1,946	1,948	1,913	1,998	1,875	1,865	1,842
Products.....	Bil. bbl-miles.....	1,167	1,341	1,627	1,691	1,631	1,458	1,740	1,484	1,452	1,551	1,500
Carrier property value.....	Mil. dol.....	6,749	10,740	16,736	17,554	18,990	19,752	21,250	21,042	22,255	19,397	21,605
Operating revenues.....	Mil. dol.....	1,338	1,869	2,818	4,990	5,781	6,356	6,678	7,140	7,472	7,824	7,461
Net income.....	Mil. dol.....	415	456	478	1,698	1,648	1,912	2,031	2,162	2,353	2,545	2,431

Source: PennWell Publishing Co., Tulsa, Okla., *Oil and Gas Journal*, November 24, 1986 and earlier issues. (Copyright.)

**NO. 1022. MAJOR INTERSTATE NATURAL GAS PIPELINE COMPANIES—SUMMARY: 1980 TO 1985**

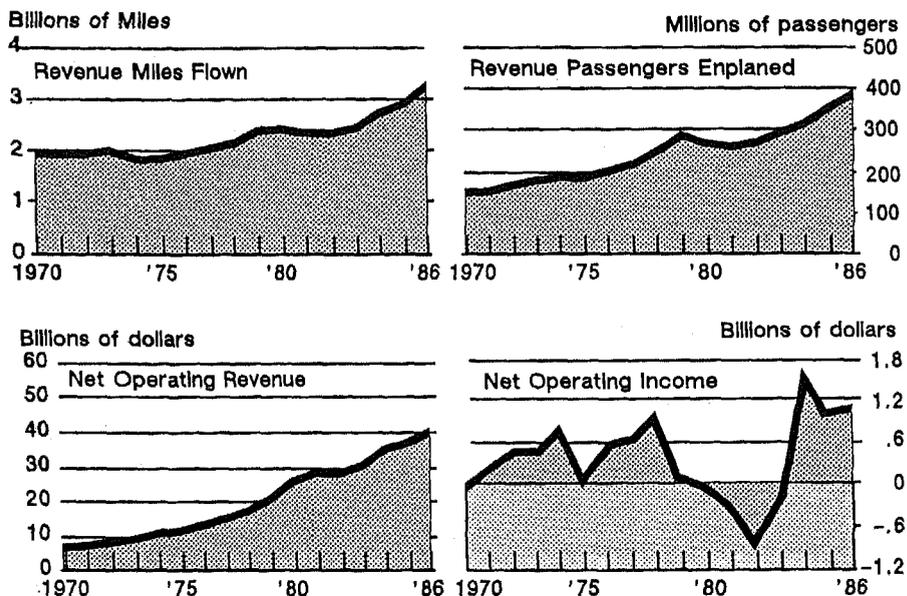
[Major natural gas pipeline companies are those whose combined sales for resale and natural gas transported or stored for a fee exceed 50 billion cubic feet. They account for more than 85 percent of all interstate natural gas]

ITEM	Unit	1980	1981	1982	1983	1984	1985
Sales.....	Tril. cu. ft.....	(NA)	15.2	14.4	12.9	13.2	11.3
Residential.....	Tril. cu. ft.....	(NA)	.1	.3	.3	.3	.3
Commercial, industrial.....	Tril. cu. ft.....	(NA)	1.1	1.2	1.0	1.2	1.1
For resale.....	Tril. cu. ft.....	(NA)	14.1	13.0	11.6	11.6	9.9
Operating revenues.....	Mil. dol.....	(NA)	46,465	56,203	56,792	56,326	49,106
From sales <sup>1</sup> .....	Mil. dol.....	(NA)	44,277	53,601	53,710	52,529	44,996
Residential.....	Mil. dol.....	(NA)	204	1,273	1,725	1,927	1,879
Commercial, industrial.....	Mil. dol.....	(NA)	3,336	4,453	4,233	5,180	4,466
For resale.....	Mil. dol.....	(NA)	40,677	47,776	47,661	45,268	38,545
From transportation of gas to others.....	Mil. dol.....	(NA)	1,011	1,259	1,787	1,923	2,272
Other.....	Mil. dol.....	(NA)	1,177	1,344	1,296	1,874	1,838
Operation, maintenance expenses.....	Mil. dol.....	33,303	41,242	49,989	49,391	48,411	42,528
Production.....	Mil. dol.....	29,844	36,706	44,449	43,516	42,407	36,739
Storage.....	Mil. dol.....	253	313	405	441	415	418
Transmission.....	Mil. dol.....	2,431	3,122	3,629	3,729	3,760	3,409
Distribution.....	Mil. dol.....	28	31	103	131	131	132
Administrative, general, and other.....	Mil. dol.....	947	1,070	1,402	1,576	1,697	1,830
Pipeline mileage:							
Transmission lines.....	1,000.....	(NA)	(NA)	178.0	176.7	183.4	189.7
Field lines.....	1,000.....	(NA)	(NA)	64.6	63.7	65.2	69.6
Storage.....	1,000.....	(NA)	(NA)	6.9	6.5	4.6	4.8

NA Not available. <sup>1</sup> Includes other ultimate customers not shown separately.

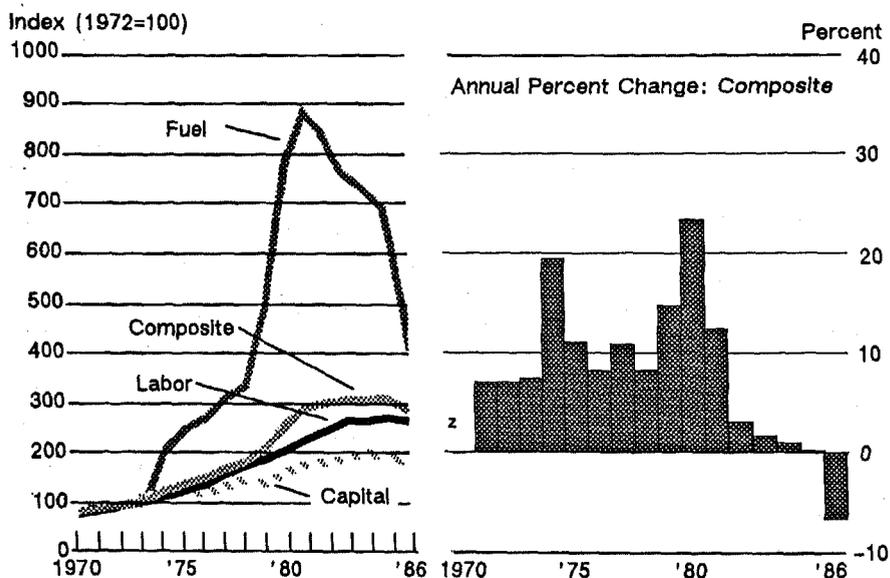
Source: U.S. Energy Information Administration, *Statistics of Interstate Natural Gas Pipeline Companies*, annual.

**Figure 22.1**  
**Domestic Scheduled Air Carriers: 1970 to 1986**



Source: Chart prepared by U.S. Bureau of the Census. For data see tables 1023 and 1024.

**Figure 22.2**  
**Airline Cost Indexes: 1970 to 1986**



Z-Rounds to zero.

Source: Chart prepared by U.S. Bureau of the Census. For data see table 1026.