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100 COMPANIES RECEIVING THE LARGEST DOLLAR VOLUME OF
PRIME CONTRACT AWARDS, FY-80. (U) WASHINGTON
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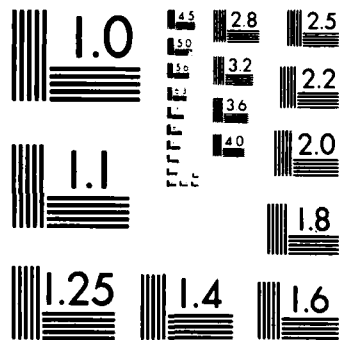
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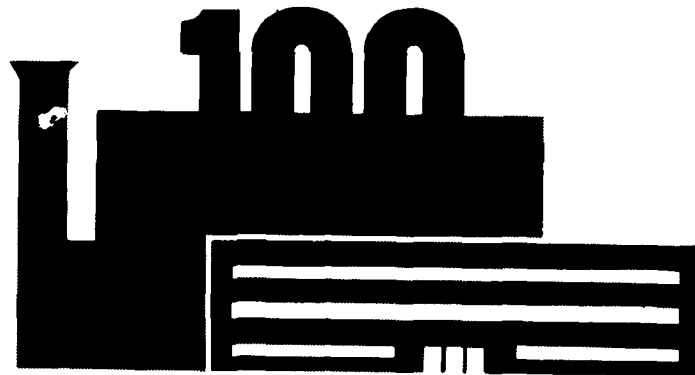
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100 COMPANIES
RECEIVING THE LARGEST DOLLAR VOLUME
OF PRIME CONTRACT AWARDS
Fiscal Year 1980



100 LARGEST DEFENSE CONTRACTORS
AND THEIR SUBSIDIARY CORPORATIONS
FISCAL YEAR 1980

Issued Annually by the
DEPARTMENT OF DEFENSE
WASHINGTON HEADQUARTERS SERVICES
DIRECTORATE FOR INFORMATION
OPERATIONS AND REPORTS

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FOREWORD

This report represents summary data on Department of Defense prime contracts awarded to the leading 100 companies and their subsidiary corporations during fiscal year 1980.

The data include debit and credit procurement actions over \$10,000, worldwide, under supply, service, and construction contracts. Procurement actions include definitive contracts, the obligated portions of letter contracts, job orders, task orders, delivery orders, and any other orders against existing contracts. The data neither include that part of indefinite quantity contracts that have not been translated into specific orders on business firms, nor that have not yet become mutually binding agreements between the government and the company. The company totals do not include contracts made by other U.S. Government agencies and financed with Department of Defense funds, or contracts awarded in foreign nations through their respective governments.

The assignment of subsidiaries to parent companies is based on stock ownership of 50 percent or more by the parent company, as indicated by data published in standard industrial reference sources.

The company names and corporate structures are those in effect as of September 30, 1980, and for purposes of this report company names have been retained unless specific knowledge was available that a company has been merged into the parent or absorbed as a division with loss of company identity. Only those subsidiaries are shown for which procurement actions have been reported.

100 COMPANIES AND THEIR SUBSIDIARY CORPORATIONS
LISTED ACCORDING TO NET VALUE OF
PRIME CONTRACT AWARDS

FISCAL YEAR 1980

Department of Defense prime contract awards over \$10,000 for research and development, services, construction, and supplies and equipment awarded during fiscal year 1980 totaled \$76.8 billion, \$13.5 billion more than in fiscal year 1979. Large awards for aircraft, missile and space systems, electronics and communications, and ships, which are dominated by large contractors, resulted in \$50.6 billion or 65.9 percent of total procurement being awarded to these 100 companies which, together with their subsidiaries, received the largest dollar volume of prime contracts over \$10,000. In fiscal year 1979, the top 100 companies received \$42.0 billion or 66.4 percent of the volume of all awards.

The following table shows that the first five companies received 18.8 percent of the total received by all companies in fiscal year 1980, compared with 20.7 percent during fiscal year 1979. The largest company in fiscal year 1980 received awards totaling \$3.5 billion as did the largest company in fiscal year 1979. To get on the list in fiscal year 1980 required \$86 million in awards, as opposed to \$76 million in fiscal year 1979.

COMPANY POSITIONS	PERCENT OF TOTAL			
	FY 1977	FY 1978	FY 1979	FY 1980
1st	5.1%	7.0%	5.5%	4.6%
2nd	3.3	4.8	5.1	4.2
3rd	3.2	4.0	4.0	4.0
4th	3.1	3.7	3.2	3.1
5th	<u>2.9</u>	<u>3.0</u>	<u>3.0</u>	<u>2.9</u>
TOTAL - 1-5	17.7%	22.5%	20.7%	18.8%
6-10	12.7%	11.9%	10.8%	11.0%
11-25	<u>16.9</u>	<u>14.3</u>	<u>14.6</u>	<u>15.4</u>
TOTAL - 1-25	47.3%	48.7%	46.1%	45.2%
26-50	11.6%	11.1%	11.0%	11.6%
51-75	5.3	5.4	5.8	5.8
76-100	<u>3.5</u>	<u>3.3</u>	<u>3.5</u>	<u>3.3</u>
TOTAL - 1-100	67.7%	68.5%	66.4%	65.9%

Eighteen contractors who did not appear on the list last year are among the top 100 companies this year. Of these, one appears in position 43, one in position 46, and the balance between positions 50 and 100.

COMPANIES LISTED IN FY 1980 BUT NOT IN FY 1979	COMPANIES LISTED IN FY 1979 BUT NOT IN FY 1980 ^{1/}
Ashland Oil, Inc. Atlantic Richfield Co. Centex Corp. City Investing Co. First Colony Farms, Inc. General Agencies & Sam Whan JV Getty Oil Co. Graves, Kiewit, Granite JV Hanil Development Co. Ltd. & Al Mabani JV Imperial Chemical Industries, Inc. Kasler Continental Heller Etal JV Loral Corp. Mi Ryung Construction Co., Ltd. Montedison SPA Pride Refining Co. Sam Whan Corp. Saudi Maintenance Co. Ltd Sun Chemical Corp.	Al Huseini Bautechnik Akuengesellschaft Bethlehem Steel Corp. Ching Heung International, Inc. Coastal Dry Dock Repair Dupont E I De Nemours & Co. Dynallectron Corp. Eaton Corp. H B H JV Hyun Dai Construction Co., Ltd. Kaiser Industries Corp. Morrison-Knudsen Co., Inc. Norris Industries Rolls Royce Ltd. Swann L A Oil Co. Tracor, Inc. Vinnell Corp.

Of the 82 companies appearing on the list in both fiscal years 1979 and 1980, 33 advanced their position, 40 are in a lower position, and 11 showed no change. Companies are considered as appearing on the list in both years despite mergers, acquisitions, divestitures, and name changes if a major component of a newly constituted company or the newly constituted company itself made the list as a component of a company in the top 100 in the prior year.

Although the contract work of many companies on the list include more than one procurement category, each company has been assigned in the following table to the procurement category that accounts for its largest dollar volume of defense awards; for example, International Telephone and Telegraph Corporation is a multi-industry company producing electronic and communications equipment and industrial and consumer products. For this table, it is assigned to "Electronics," the procurement category accounting for its largest dollar volume of DoD contract awards. On this basis, companies supplying "petroleum" increased by four while "ships" decreased by four.

^{1/}Excludes Beech Aircraft Corp. which is now a subsidiary of Raytheon Co.

NUMBER OF COMPANIES

<u>Procurement Category</u>	<u>FY 1979</u>	<u>FY 1980</u>	<u>Change</u>
Aircraft	18	16	-2
Missiles	11	13	2
Ships	8	4	-4
Tank Automotive	5	5	0
Ammunition	9	7	-2
Electronics	16	18	2
Services	12	10	-2
Construction	4	5	1
Petroleum	15	19	4
Weapons	1	2	1
Subsistence	0	0	0
All Other	1	1	0

During fiscal year 1980, twelve companies received prime contract awards totalling \$1 billion or more. The twelve companies and a brief description of their major work are as follows:

<u>RANK</u>		<u>COMPANY NAME</u>	<u>AWARDS</u>	
<u>1980</u>	<u>1979</u>		<u>1980</u>	<u>1979</u>
			<u>(billions)</u>	
1	1	General Dynamics Corp.	\$3.5	\$3.5
2	2	McDonnell Douglas Corp.	3.2	3.2
3	3	United Technologies Corp.	3.1	2.6
4	7	Boeing Co.	2.4	1.5
5	4	General Electric Co.	2.2	2.0
6	5	Lockheed Corp.	2.0	1.8
7	6	Hughes Aircraft Co.	1.8	1.6
8	9	Raytheon Co.	1.7	1.2
9	10	Tenneco, Inc.	1.5	1.1
10	8	Grumman Corp.	1.3	1.4
11	13	Northrop Corp.	1.2	.8
12	50	Motor Oil Hellas	1.1	.2

<u>COMPANY</u>	<u>MAJOR WORK</u>
1. General Dynamics Corp.	F-16 and F-111 aircraft. STINGER and RIM-66 missiles. MK-15 Close-in weapon system. Nuclear submarines.

<u>COMPANY</u>	<u>MAJOR WORK</u>
2. McDonnell Douglas Corp.	F-15 EAGLE, F-4 PHANTOM, F-18 fighter aircraft and C-10 cargo aircraft. HARPOON, TOMAHAWK, and DRAGON missiles.
3. United Technologies Corp.	F-100, TF-30, TF-33, and J-56 turbofan and turbojet engines. UH-60 UTTAS, and CH-53 SEA STALLION helicopters.
4. Boeing Co.	Airborne Warning and Control System (AWACS). TOMAHAWK, SHORAD, MINUTEMAN, and ROLAND missile systems. Radio and TV equipment for the Advanced Airborne Command Post. Airframe structural components.
5. General Electric Co.	Nuclear submarines. F-18 fighter aircraft engines. UH-60 UTTAS helicopter engines. MINUTEMAN missile. Miscellaneous electronics and communications equipment.
6. Lockheed Corp.	TRIDENT, POLARIS, and Standard Arm missiles. P-3 ORION, C-141 STARLIFTER, C-5 GALAXY, and C-130 HERCULES aircraft. Space vehicles. Amphibious assault ships.
7. Hughes Aircraft Co.	TOW, SHORAD, PHOENIX, ROLAND, and TRIDENT missile systems. Radar equipment and guided missile systems for A-6 INTRUDER, F-14 TOMCAT, and F-15 EAGLE aircraft. R & D for electronics and communication equipment.
8. Raytheon Co.	HAWK, PATRIOT, SPARROW, and TRIDENT missile systems. Electronic countermeasures. Underwater sound equipment. Miscellaneous electronics and communications equipment.

<u>COMPANY</u>	<u>MAJOR WORK</u>
9. Tenneco, Inc.	Aircraft carriers and subchasers. Maintenance and repair of ships. Warehouse trucks and tractors.
10. Grumman Corp.	F-14 TOMCAT, E-2 HAWKEYE, E-6 PROWLER, and A-6 INTRUDER aircraft. Electronic countermeasures for F-111 aircraft. Modification of aircraft equipment.
11. Northrop Corp.	F-5 FREEDOM FIGHTER aircraft. Guided missile launchers and remote control systems for the HAWK mis- sile. Electronic countermeasures and miscellaneous aircraft accessories. R & D missile and space systems.
12. Motor Oil Hellas	Petroleum.

INDEX OF 100 PARENT COMPANIES WHICH WITH THEIR SUBSIDIARIES RECEIVED THE
LARGEST DOLLAR VOLUME OF MILITARY PRIME CONTRACT AWARDS IN FISCAL YEAR 1980

RANK	PARENT COMPANY	RANK	PARENT COMPANY
66.	AEROSPACE CORP (N)	37.	INTERNATIONAL TELEPHONE + TEL CORP
53.	AGIP S P A	63.	JOHNS HOPKINS UNIVERSITY (N)
38.	AMERADA HESS CORP	84.	KASLER CONTINENTAL HELLER ETAL JV <u>3/</u>
73.	AMERICAN MOTORS CORP	25.	L T V CORP
21.	AMERICAN TELEPHONE + TELEGRAPH CO	88.	LEAR SIEGLER INC
98.	ASHLAND OIL INC	20.	LITTON INDUSTRIES, INC
43.	ATLANTIC RICHFIELD CO	6.	LOCKHEED CORP
42.	AVCO CORP	89.	LORAL CORP
39.	BENDIX CORP	18.	MARTIN MARIETTA CORP
4.	BOEING CO	68.	MASSACHUSETTS INSTITUTE TECHNOLOGY
94.	CENTEX CORP	2.	MCDONNELL DOUGLAS CORP
79.	CHAMBERLAIN MFG CORP	61.	MI RYUNG CONSTRUCTION CO LTD
13.	CHRYSLER CORP	80.	MITRE (THE) CORP (N)
97.	CITY INVESTING CO	45.	MOBIL CORP
49.	COASTAL CORP	96.	MONTEDISON SPA
95.	COMPUTER SCIENCES CORP	12.	MOTOR OIL HELLAS
36.	CONGOLEUM CORP	59.	MOTOROLA INC
74.	CONTROL DATA CORP	48.	NORTH AMERICAN PHILIPS CORP
67.	E SYSTEMS, INC	11.	NORTHROP CORP
86.	EASTMAN KODAK CO	71.	PACIFIC RESOURCES INC
60.	EMERSON ELECTRIC CO	76.	PAN AMERICAN WORLD AIRWAYS INC
29.	EXXON CORP	92.	PRIDE REFINING CO
17.	F M C CORP	22.	R C A CORP
24.	FAIRCHILD INDUSTRIES, INC	8.	RAYTHEON CO
90.	FELEC SERVICES INC	58.	REYNOLDS (RJ) INDUSTRIES, INC
91.	FIRST COLONY FARMS INC	14.	ROCKWELL INTERNATIONAL CORP
34.	FORD MOTOR CO	52.	ROYAL DUTCH SHELL GROUP
62.	G K TECHNOLOGIES INC	46.	SAM WHAN CORP
72.	GENERAL AGENCIES & SAM WHAN JV <u>1/</u>	87.	SANDERS ASSOCIATES INC
1.	GENERAL DYNAMICS CORP	75.	SAUDI MAINTENANCE CO LTD
5.	GENERAL ELECTRIC CO	65.	SIGNAL COMPANIES INC (THE)
26.	GENERAL MOTORS CORP	31.	SINGER CO
41.	GENERAL TELEPHONE + ELECTRNCS CORP	16.	SPERRY CORP
40.	GENERAL TIRE + RUBBER CO	30.	STANDARD OIL CO OF CALIF
82.	GETTY OIL CO	57.	STANDARD OIL OF INDIANA
47.	GOODYEAR TIRE + RUBBER CO	69.	SUMMA CORP
50.	GOULD, INC	81.	SUN CHEMICAL CORP
83.	GROVES KIEWIT GRANITE JV	51.	SUN CO INC
10.	GRUMMAN CORP	70.	SVERDRUP CORP
78.	GUAM OIL + REFINING CO INC	27.	T R W INC
99.	GULF OIL CORP	33.	TELEDYNE INC
56.	HANIL DEV CO LTD & AL MABANI JV <u>2/</u>	9.	TENNECO INC
64.	HARRIS CORP	54.	TEXACO INC
44.	HARSCO CORP	32.	TEXAS INSTRUMENTS INC
55.	HERCULES, INC	23.	TEXTRON INC
100.	HEWLETT PACKARD CO	85.	THIokol CORP
19.	HONEYWELL INC	35.	TODD SHIPYARDS CORP
7.	HUGHES AIRCRAFT CO	3.	UNITED TECHNOLOGIES CORP
93.	IMPERIAL CHEMICAL INDUSTRIES LTD	15.	WESTINGHOUSE ELECTRIC CORP
28.	INTERNATIONAL BUSINESS MACHINES CO	77.	XEROX CORP

1/ General Agencies Corp. & Sam Whan Corp. JV

2/ Hanil Dev. Co. Ltd., and Al Mabani General Contractor JV.

3/ Kasler Corp., Continental Heller Corp. & Fruin-Colnon Corp. JV

100 COMPANIES AND THEIR SUBSIDIARIES LISTED ACCORDING TO
NET VALUE OF MILITARY PRIME CONTRACT AWARDS

FISCAL YEAR 1980
(1 OCT 1979 - 30 SEP 1980)

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF U.S. TOTAL	CUMULATIVE PERCENT OF U.S. TOTAL
	T O T A L	\$76,807,259 *****	100.00	100.00
	TOTAL, 100 COMPANIES + THEIR SUBSIDIARIES	50,663,438 *****	65.96	65.96
1.	GENERAL DYNAMICS CORP DATAGRAPHIX GMBH DATAGRAPHIX INC STROMBERG CARLSON CORP	3,501,651 141 9,363 6,751 -----		
	TOTAL	3,517,906	4.58	4.58
2.	MCDONNELL DOUGLAS CORP	3,246,557	4.23	8.81
3.	UNITED TECHNOLOGIES CORP CARRIER INTERNATIONAL CORP ESSEX GROUP INC MOSTEK CORP NORDEN SYSTEMS INC OTIS ELEVATOR CO PRATT + WHITNEY AIRCRAFT OF WVA UNITED TECHNOLOGIES RESEARCH CTR	3,025,766 3,376 1,323 63 77,640 570 16 147 -----		
	TOTAL	3,108,901	4.05	12.86
4.	BOEING CO BOEING AEROSPACE CO BOEING COMPUTER SERVICES INC BOEING INTERNATIONAL CORP BOEING SERVICES INTERNATIONAL INC BOEING VERTOL CO	1,671,029 411,206 7,169 3,205 92,826 200,024 -----		
	TOTAL	2,385,459	3.11	15.97
5.	GENERAL ELECTRIC CO GENERAL ELECTRIC MEDICAL SYSTEMS GENERAL ELECTRIC TECH SVC CO INC MANAGEMENT + TECHNICAL SERVICES CO	2,171,629 102 61 30,250 -----		
	TOTAL	2,202,042	2.87	18.84
6.	LOCKHEED CORP LOCKHEED ELECTRONICS CO, INC LOCKHEED MISSILES + SPACE CO INC LOCKHEED SHIPBUILDING CONSTRUCTION MURDOCK MACHINE + ENGR CO OF TEXAS	809,975 55,250 1,097,451 73,622 846 -----		
	TOTAL	2,037,044	2.65	21.49
7.	HUGHES AIRCRAFT CO HUGHES RESEARCH LABS. SANTA BARBARA RESEARCH CENTER	1,769,162 1,771 48,125 -----		
	TOTAL	1,819,058	2.37	23.86

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF U.S. TOTAL	CUMULATIVE PERCENT OF U.S. TOTAL
8.	RAYTHEON CO	1,582,286		
	AMRAD INC	33		
	BEECH AEROSPACE SERVICES	29,652		
	BEECH AIRCRAFT CORP	65,365		
	CALORIC CORP	102		
	DENVER BEEHCRAFT	108		
	INDIANA BEEHCRAFT INC	76		
	IOWA MFG CO OF CEDAR RAPIDS IOWA	26		
	KURAS ALTERMAN CORP	6,291		
	LEXITRON CORP	1,230		
	LORAC SERVICE CORP	219		
	MACHLETT LABORATORIES INC	1,607		
	RAYTHEON GULF SYSTEMS CO	34,813		
	RAYTHEON MARINE CO	214		
	RAYTHEON OCEAN SYSTEMS CO	11		
	RAYTHEON SERVICE CO	21,805		
	SWITCHCRAFT INC	129		
	UNITED ENGINEERS + CONSTRUCTORS	1,140		
	TOTAL	1,745,107	2.27	26.13
9.	TENNECO INC			
	CASE (JI) CO	31,765		
	CASE POWER + EQUIPMENT LTD	49		
	GAS EQUIPMENT ENGRS, INC	5,723		
	MONROE AUTO EQUIPMENT CO	378		
	NEWPORT NEWS SHIPBLD + DRY DOCK CO	1,486,394		
	PACKAGING CORP OF AMERICA	50		
	TENNECO CHEMICALS, INC	55		
	TOTAL	1,524,414	1.98	28.11
10.	GRUMMAN CORP			
	GRUMMAN AEROSPACE CORP	1,285,666		
	GRUMMAN DATA SYSTEMS CORP	36,357		
	TOTAL	1,322,023	1.72	29.83
11.	NORTHROP CORP	1,145,727		
	EXTEK MICROSYSTEMS INC	10		
	NORTHROP WORLDWIDE ACFT SVCS INC	80,769		
	PAGE COMMUNICATIONS ENGINEERS INC	833		
	TOTAL	1,227,339	1.60	31.43
12.	MOTOR OIL HELLAS	1,058,646	1.38	32.81
13.	CHRYSLER CORP	898,026		
	CHRYSLER DEFENSE INC	72,855		
	TOTAL	970,881	1.26	34.07
14.	ROCKWELL INTERNATIONAL CORP	968,548		
	COLLINS INTERNATIONAL SERVICE CO	161		
	FINCOR, INC	11		
	UNICOM SYSTEMS INC	514		
	TOTAL	969,234	1.26	35.33
15.	WESTINGHOUSE ELECTRIC CORP	930,878		
	WESTINGHOUSE AIRPORT SYSTEMS	12		
	WESTINGHOUSE DATASCORE SYSTEMS	69		
	WESTINGHOUSE ELECTRIC SUPPLY CO	892		
	WESTINGHOUSE ELEVATOR CO	55		

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF U.S. TOTAL	CUMULATIVE PERCENT OF U.S. TOTAL
15.	WESTINGHOUSE ELECTRIC CORP WESTINGHOUSE LEARNING CORP	147		
	TOTAL	932,053	1.21	36.54
16.	SPERRY CORP	835,260		
	SPERRY ELECTRO COMPONENTS	342		
	SPERRY FLIGHT SYSTEMS	4,175		
	SPERRY MARINE SYSTEMS	4,980		
	SPERRY MICROWAVE COMPONENTS	62		
	SPERRY SUPPORT SERVICES	158		
	TOTAL	844,977	1.10	37.64
17.	F M C CORP	834,640	1.09	38.73
18.	MARTIN MARIETTA CORP	763,150		
	INTERNATIONAL LASER SYSTEMS INC	7,630		
	MARTIN MARIETTA ALUMINUM INC	3,545		
	MARTIN MARIETTA ALUMINUM SALES INC	34,229		
	MARTIN MARIETTA DATA SYSTEMS INC	127		
	TOTAL	808,681	1.05	39.78
19.	HONEYWELL INC	579,633		
	ELECTRONICS FOR MEDICINE	181		
	HONEYWELL INFORMATION SYSTEMS, INC	106,511		
	HONEYWELL MARINE SYSTEMS CENTER	64		
	INCOTERM CORP	75		
	SPECTRONICS INC	524		
	SYNERTEK INC	30		
	TOTAL	687,018	0.89	40.67
20.	LITTON INDUSTRIES, INC	39,479		
	BELOIT POWER SYSTEMS	559		
	DIEHL DATA SYSTEMS	336		
	LITTON BIONETICS INC	75		
	LITTON BUSINESS SYSTEMS, INC	651		
	LITTON EDUCATIONAL PUB CO, INC	12		
	LITTON INDUSTRIAL PRODUCTS INC	782		
	LITTON MEDICAL PRODUCTS, INC	53		
	LITTON PRECISION PRODS INTL INC	25		
	LITTON SYSTEMS INC	610,007		
	MONROE CALCULATING CO	366		
	MONROE INTERNATIONAL INC	38		
	TOTAL	652,383	0.85	41.52
21.	AMERICAN TELEPHONE + TELEGRAPH CO	275,740		
	BELL TELEPHONE CO OF PA	285		
	CHESAPEAKE + POTOMAC TEL CO OF DC	42,139		
	ILLINOIS BELL TEL CO	419		
	MICHIGAN BELL TEL CO	432		
	MOUNTAIN BELL TELEPHONE CO	4,810		
	NEW ENGLAND TEL + TEL CO	2,251		
	NEW JERSEY BELL TELEPHONE CO	579		
	NEW YORK TELEPHONE CO	1,092		
	NORTHWESTERN BELL TELEPHONE CO	897		
	OHIO BELL TELEPHONE CO	1,917		
	PACIFIC NORTHWEST BELL TELEPHONE	459		
	PACIFIC TELEPHONE + TELEGRAPH CO	3,167		
	SOUTH CENTRAL BELL TEL CO	2,216		

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF U.S. TOTAL	CUMULATIVE PERCENT OF U.S. TOTAL
21.	AMERICAN TELEPHONE + TELEGRAPH CO SOUTHERN BELL TELEPHONE + TELEGRPH SOUTHWESTERN BELL TELEPHONE TELETYPE CORP WESTERN ELECTRIC CO INC	4,194 4,325 11,817 240,335		
	TOTAL	597,074	0.78	42.30
22.	R C A CORP BANQUET FOODS CORP HERTZ CORP HERTZ EQUIPMENT RENTAL CORP R C A GLOBAL COMMUNICATIONS, INC R C A LABORATORIES SARNOFF RES CTR R C A MOBILE COMMUNICATIONS	574,259 587 386 85 13,324 268 26		
	TOTAL	588,935	0.77	43.07
23.	TEXTRON INC BELL HELICOPTER INTL INC BELL TECHNICAL OPERATIONS CORP JACOBSEN MFG CO	555,117 12,000 11,515 106		
	TOTAL	578,738	0.75	43.82
24.	FAIRCHILD INDUSTRIES, INC AMERICAN SATELLITE CORP	557,072 2,205		
	TOTAL	559,277	0.73	44.55
25.	L T V CORP JONES + LAUGHLIN STEEL CORP KENTRON HAWAII LTD KENTRON INTERNATIONAL INC LYKES BROS STEAMSHIP CO INC VOUGHT CORP WILSON FOODS CORP WILSON + CO INC YOUNGSTOWN SHEET & TUBE CO	6,447 623 33,658 13,010 94,622 351,051 453 11,018 20		
	TOTAL	510,902	0.67	45.22
26.	GENERAL MOTORS CORP	508,803	0.66	45.88
27.	T R W INC AERTECH INDUSTRIES E S L INC T R W COLORADO ELECTRONICS, INC T R W GLOBE MOTORS T R W RAMSEY CORP	418,269 572 47,464 41,072 638 69		
	TOTAL	508,084	0.66	46.54
28.	INTERNATIONAL BUSINESS MACHINES CO I B M DEUTSCHLAND GMBH SCIENCE RESEARCH ASSOCIATES INC	494,942 1,903 108		
	TOTAL	496,953	0.65	47.19
29.	EXXON CORP ESSO A G ESSO ITALIANA S P A ESSO PETROL CO LTD	427,404 50,807 868 61		

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF U.S. TOTAL	CUMULATIVE PERCENT OF U.S. TOTAL
29.	EXXON CORP ESSO S A F EXXON RESEARCH + ENGINEERING CO	14 483		
	TOTAL	479,637	0.62	47.81
30.	STANDARD OIL CO OF CALIF CALTEX ASIA LTD CALTEX NEW ZEALAND, INC ^{1/} CALTEX OIL PAKISTAN CALTEX OIL PRODUCTS CO CALTEX OVERSEAS LTD CHEVRON CHEMICAL CO CHEVRON INTERNATIONAL OIL CO, INC CHEVRON OIL CO CHEVRON U S A INC	903 51 7 85,646 8 35 252 1,805 386,247		
	TOTAL	474,954	0.62	48.43
31.	SINGER CO FRIDEN MAILING EQUIPMENT CORP H R B SINGER, INC	421,672 82 13,672		
	TOTAL	435,426	0.57	49.00
32.	TEXAS INSTRUMENTS INC	431,428	0.56	49.56
33.	TELEDYNE INC MICRONETICS INC ORDNANCE SPECIALTIES INC TELEDYNE AEROSPACE SYSTEMS TELEDYNE AVIONICS TELEDYNE BATTERY PRODUCTS TELEDYNE BROWN ENGINEERING TELEDYNE C A E TELEDYNE CAMERA SYSTEMS TELEDYNE CONTROLS TELEDYNE ELECTRONICS TELEDYNE FARRIS ENGINEERING TELEDYNE FIRTH STERLING INC TELEDYNE GEOTECH TELEDYNE GURLEY TELEDYNE HANAU ENGINEERING TELEDYNE HASTINGS RAYDIST TELEDYNE HYDRA POWER TELEDYNE INDUSTRIES, INC TELEDYNE INET BELGIUM SA TELEDYNE INET INC TELEDYNE LANDIS MACHINE CO TELEDYNE LEWISBURG TELEDYNE LINAIR ENGINEERING TELEDYNE M E C TELEDYNE MCCORMICK SELPH TELEDYNE MCKAY TELEDYNE MICROELECTRONICS TELEDYNE MICROWAVE TELEDYNE MONARCH RUBBER TELEDYNE NATIONAL TELEDYNE PEER TELEDYNE PHILBRICK TELEDYNE PINES TELEDYNE PRECISION CASTINGS TELEDYNE RELAYS	30,732 100 1,181 35 12 134 25,123 32,357 2,328 1,691 32,334 236 93 3,348 399 93 794 1,454 232,514 11 259 842 5,987 22 10,108 4,825 199 368 17 1,524 242 115 12 14 22 177		

^{1/} Stock ownership in the Caltex Companies is equally divided between Standard Oil of California and Texaco, inc.

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF U.S. TOTAL	CUMULATIVE PERCENT OF U.S. TOTAL
33.	TELEDYNE INC			
	TELEDYNE REPUBLIC MFG	639		
	TELEDYNE SPRAGUE ENGINEERING	3,942		
	TELEDYNE TABER	29		
	TELEDYNE TELEMETRY CO	24		
	TELEDYNE THERMATICS	813		
	TELEDYNE WAH CHANG	132		
	TELEDYNE WALTERBORO	625		
	TELEDYNE WISCONSIN MOTOR	331		
	TOTAL	396,237	0.52	50.08
34.	FORD MOTOR CO	1,147		
	FORD AEROSPACE + COMMUNICATIONS	394,630		
	TOTAL	395,777	0.52	50.60
35.	TODD SHIPYARDS CORP	393,154		
	DESIGNERS + PLANNERS, INC	1,144		
	TOTAL	394,298	0.51	51.11
36.	CONGOLEUM CORP			
	BATH IRON WORKS CORP	377,879		
	TOTAL	377,879	0.49	51.60
37.	INTERNATIONAL TELEPHONE + TEL CORP	178,364		
	FEDERAL ELECTRIC CORP	89,552		
	I T T ARTIC SERVICES, INC	11,508		
	I T T BARTON	1,409		
	I T T BLACKBURN CORP	12		
	I T T CONTINENTAL BAKING CO	4,612		
	I T T COURIER TERMINAL SYSTEMS INC	295		
	I T T GENERAL CONTROLS, INC	943		
	I T T GILFILLAN INC	29,360		
	I T T GRINNELL CORP	20		
	I T T GWALTNEY INC	3,863		
	I T T HAMMEL DAHL CONOFLOW	115		
	I T T HARPER, INC	2,474		
	I T T HENZE SERVICE	24		
	I T T JENNINGS	675		
	I T T NORTH ELECTRIC CO	285		
	I T T POMONA ELECTRONICS INC	49		
	I T T TELECOMMUNICATIONS	100		
	I T T THOMPSON INDUSTRIES, INC	245		
	I T T WORLD COMMUNICATIONS, INC	9,672		
	J C C PUMP CO INC	1,375		
	STANDARD TELEPHONES + CABLES, LTD	155		
	TOTAL	335,107	0.44	52.04
38.	AMERADA HESS CORP	3,319		
	HESS OIL VIRGIN ISLANDS CORP	328,380		
	TOTAL	331,699	0.43	52.47
39.	BENDIX CORP	288,526		
	BENDIX AUTOLITE CORP	342		
	BENDIX FIELD ENGINEERING CORP	28,760		
	COURTER INC	1,893		
	FRAM CORP	2,639		
	TOLEDO STAMPING & MFG CO	25		
	WARNER & SWASEY CO	500		
	TOTAL	322,485	0.42	52.89

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF U.S. TOTAL	CUMULATIVE PERCENT OF U.S. TOTAL
40.	GENERAL TIRE + RUBBER CO AEROJET GENERAL CORP HOWE RICHARDSON SCALE CO JOHNSTON PUMP CO	1,458 316,398 21 16		
	TOTAL	317,893	0.41	53.30
41.	GENERAL TELEPHONE + ELECTRNCS CORP G T E AUTOMATIC ELECTRIC INC G T E INFORMATION SYSTEMS, INC G T E LABORATORIES, INC G T E LENKURT, INC G T E PRODUCTS CORP G T E SYLVANIA INC GENERAL TELEPHONE CO OF FLORIDA GENERAL TELEPHONE CO OF SOUTHEAST GENERAL TELEPHONE CO OF SOUTHWEST HAWAIIAN TELEPHONE CO	25 66 1,632 288 508 662 295,243 672 789 1,117 8,968		
	TOTAL	309,970	0.40	53.70
42.	AVCO CORP AVCO EVERETT RESEARCH LABORATORY	262,138 24,527		
	TOTAL	286,665	0.37	54.07
43.	ATLANTIC RICHFIELD CO ARCO PETROLEUM CO WRIGHT OIL CO INC	102,963 181,951 759		
	TOTAL	285,673	0.37	54.44
44.	HARSCO CORP BRODERICK CO PATTERSON KELLEY CO	280,203 28 25		
	TOTAL	280,256	0.36	54.80
45.	MOBIL CORP CONTAINER CORP OF AMERICA MOBIL OIL CORP MOBIL OIL PHILIPPINES, INC	76 276,113 55		
	TOTAL	276,244	0.36	55.16
46.	SAM WHAN CORP	266,340	0.35	55.51
47.	GOODYEAR TIRE + RUBBER CO GOODYEAR AEROSPACE CORP MOTOR WHEEL CORP	41,986 221,089 1,081		
	TOTAL	264,156	0.34	55.85
48.	NORTH AMERICAN PHILIPS CORP AMPEREX ELECTRONIC CORP ANCHOR BRUSH CO INC CHICAGO MAGNETIC WIRE CO EDAX INTERNATIONAL INC GENERAL ATRONICS CORP KULKA ELECTRIC CORP MAGNAVOX CO MAGNAVOX GOVT + INDUSTRIAL ELEC CO NORTH AMERICAN PHILIPS CONTROLS CO NORTH AMERICAN PHILIPS LTG CORP	612 4,099 176 539 48 4,510 15 84,869 158,098 1,840 305		

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF U.S. TOTAL	CUMULATIVE PERCENT OF U.S. TOTAL
48.	NORTH AMERICAN PHILIPS CORP PHILIPS BUSINESS SYSTEMS INC PHILIPS ELECTRONIC INSTRUMENTS INC PHILIPS MEDICAL SYSTEMS INC PHILIPS TEST & MEASURING INSTRS SMITH HERMAN H INC THOMPSON HAYWARD CHEMICAL CO	110 392 4,966 32 48 59		
	TOTAL	260,518	0.34	56.19
49.	COASTAL CORP BELCHER OIL CO BELCHER OIL CO OF CAPE CANAVERAL BELCHER TERMINALS INC COASTAL STATES ENERGY CO COASTAL STATES MARKETING INC GLENN PETROLEUM CORP LO VACA GATHERING CO	39,559 309 614 894 204,929 115 4,012		
	TOTAL	250,432	0.33	56.52
50.	GOULD, INC HOFFMAN ELECTRONICS INC I T E IMPERIAL CORP	240,931 157 3,096		
	TOTAL	244,184	0.32	56.84
51.	SUN CO INC SUN SHIPBUILDING + DRY DOCK CO	149,318 80,747		
	TOTAL	230,065	0.30	57.14
52.	ROYAL DUTCH SHELL GROUP SHELL CHEMICAL INC SHELL CO OF THE ISLAND SHELL CURACAO N V SHELL EASTERN PETROLEUM PTE LTD SHELL INTERNATIONAL SHELL NEDERLAND SHELL OIL CO SHELL UK LTD	111 980 110,849 48,988 3,362 103 60,656 41		
	TOTAL	225,090	0.29	57.43
53.	AGIP S P A	223,660	0.29	57.72
54.	TEXACO INC CALTEX ASIA LTD ^{1/} CALTEX NEW ZEALAND, INC CALTEX OIL PAKISTAN CALTEX OIL PRODUCTS CO CALTEX OVERSEAS LTD DEUTSCHE TEXACO VERKAUF GMBH TEXACO EXPORT INC TEXACO INTERNATIONAL TRADER INC TEXACO UK LTD	1,829 902 51 7 85,646 7 2,228 24 130,072 357		
	TOTAL	221,123	0.29	58.01
55.	HERCULES, INC HAVEG INDUSTRIES INC	219,805 497		
	TOTAL	220,302	0.29	58.30

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RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF U.S. TOTAL	CUMULATIVE PERCENT OF U.S. TOTAL
56.	HANIL DEV CO LTD & AL MABANI JV	217,558	0.28	58.58
57.	STANDARD OIL OF INDIANA AMOCO CHEMICALS CORP AMOCO OIL CO	20 202,109		
	TOTAL	202,129	0.26	58.84
58.	REYNOLDS (RJ) INDUSTRIES, INC DEL MONTE CORP DEL MONTE SALES CORP GRANNY GOOSE FOODS INC RJR FOODS, INC SEA-LAND SERVICE, INC	30,274 11,029 2,261 220 3,212 155,007		
	TOTAL	202,003	0.26	59.10
59.	MOTOROLA INC UNIVERSAL DATA SYSTEMS INC	199,199 92		
	TOTAL	199,291	0.26	59.36
60.	EMERSON ELECTRIC CO CHANCE A B CO RIDGE TOOL CO ROSEMOUNT INC	184,799 103 19 5,357		
	TOTAL	190,278	0.25	59.61
61.	MI RYUNG CONSTRUCTION CO LTD	172,125	0.22	59.83
62.	G K TECHNOLOGIES INC AUTOMATION INDUSTRIES INC G & H TECHNOLOGY INC SPRAGUE ELECTRIC CO	502 166,013 196 1,620		
	TOTAL	168,331	0.22	60.05
63.	JOHNS HOPKINS UNIVERSITY (N)	163,684	0.21	60.26
64.	HARRIS CORP	163,052	0.21	60.47
65.	SIGNAL COMPANIES INC (THE) AIRESEARCH MFG CO AIRESEARCH MFG CO OF ARIZONA AIRESEARCH MFG CO OF CALIFORNIA JUNHAM BUSH INC GARRETT CORP MACK TRUCKS INC SOUTHLAND OIL CORP	36 601 17,781 15,568 483 117,931 6,125 4,397		
	TOTAL	162,922	0.21	60.68
66.	AEROSPACE CORP (N)	160,394	0.21	60.89

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF U.S. TOTAL	CUMULATIVE PERCENT OF U.S. TOTAL
67.	E SYSTEMS, INC ELECTRONIC COMMUNICATIONS INC SERV AIR INC	149,713 994 6,932		
	TOTAL	157,639	0.21	61.10
68.	MASSACHUSETTS INSTITUTE TECHNOLOGY	155,953	0.20	61.30
69.	SUMMA CORP	153,979	0.20	61.50
70.	SVERDRUP CORP ARO INC SPIRE CORP SVERDRUP & PARCEL & ASSOC INC	144,916 712 6,038		
	TOTAL	151,666	0.20	61.70
71.	PACIFIC RESOURCES INC GASCO INC HAWAIIAN INDEPENDENT REFINERY INC	6,376 141,147		
	TOTAL	147,523	0.19	61.89
72.	GENERAL AGENCIES & SAM WHAN JV	144,306	0.19	62.08
73.	AMERICAN MOTORS CORP A M GENERAL CORP MERCURY PLASTICS CO	108 141,455 617		
	TOTAL	142,180	0.19	62.27
74.	CONTROL DATA CORP COMMA CORP KEROTEST MFG CORP SERVICE BUREAU CORP THE	138,988 32 436 25		
	TOTAL	139,481	0.18	62.45
75.	SAUDI MAINTENANCE CO LTD	128,834	0.17	62.62
76.	PAN AMERICAN WORLD AIRWAYS INC	126,565	0.16	62.78
77.	XEROX CORP FUJI-XEROX CO, LTD GINN + CO KOREA XEROX CO LTD RANK XEROX LTD XEROX DATA SYSTEMS, INC XEROX ELECTRO OPTICAL SYSTEMS INC	58,682 1,301 230 440 1,657 382 58,014		
	TOTAL	120,706	0.16	62.94
78.	GUAM OIL + REFINING CO INC	118,382	0.15	63.09

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF U.S. TOTAL	CUMULATIVE PERCENT OF U.S. TOTAL
79.	CHAMBERLAIN MFG CORP	113,254	0.15	63.24
80.	MITRE (THE) CORP (N)	110,919	0.14	63.38
81.	SUN CHEMICAL CORP	110,874	0.14	63.52
82.	GETTY OIL CO	32,397		
	ASSOCIATED OIL CO	160		
	GETTY REFINING & MARKETING CO	77,699		
	TOTAL	110,256	0.14	63.66
83.	GROVES KIEWIT GRANITE JV	109,040	0.14	63.80
84.	KASLER CONTINENTAL HELLER ETAL JV	103,925	0.14	63.94
85.	THICKOL CORP	103,217	0.13	64.07
86.	EASTMAN KODAK CO	103,033		
	EASTMAN KODAK STORES INC	26		
	KODAK EXPORT, LTD	71		
	TOTAL	103,130	0.13	64.20
87.	SANDERS ASSOCIATES INC	102,227	0.13	64.33
88.	LEAR SIEGLER INC	101,656	0.13	64.46
89.	LORAL CORP	94,236		
	CONIC CORP	6,013		
	LERMER PACKAGING CORP	27		
	TOTAL	100,276	0.13	64.59
90.	FELEC SERVICES INC	99,328	0.13	64.72
91.	FIRST COLONY FARMS INC			
	UNITED STATES LINES CO	97,156		
	TOTAL	97,156	0.13	64.85
92.	PRIDE REFINING CO	95,840	0.12	64.97
93.	IMPERIAL CHEMICAL INDUSTRIES LTD			
	I C I AMERICAS INC	94,785		
	IMPERIAL METAL INDUSTRIES LTD	181		

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF U.S. TOTAL	CUMULATIVE PERCENT OF U.S. TOTAL
93.	IMPERIAL CHEMICAL INDUSTRIES LTD	-----		
	TOTAL	94,966	0.12	65.09
94.	CENTEX CORP	91,497		
	BATESON J W CO INC	2,967		
	TOTAL	94,464	0.12	65.21
95.	COMPUTER SCIENCES CORP	92,955	0.12	65.33
96.	MONTEDISON SPA	92,248	0.12	65.45
97.	CITY INVESTING CO			
	HAYES INTERNATIONAL CORP	91,280		
	RHEEM MFG CO	416		
	TOTAL	91,696	0.12	65.57
98.	ASHLAND OIL INC	37,082		
	ASHLAND CHEMICAL CO	1,006		
	ASHLAND PETROLEUM CO	48,010		
	EASTERN SEABOARD PETROLEUM CO, INC	4,446		
	NIELSONS INC	18		
	TOTAL	90,562	0.12	65.69
99.	GULF OIL CORP	79,687		
	GULF OIL CHEMICALS CO	106		
	GULF OIL TRADING CO	1,763		
	GULF PETROLEUM SA PANAMA	759		
	GULF RESEARCH + DEVELOPMENT CO	69		
	INDUSTRIAL ASPHALT INC	368		
	KOREA OIL CORP	7,510		
	TOTAL	90,262	0.12	65.81
100.	HEWLETT PACKARD CO	85,523		
	DATAMEC CORP	56		
	TOTAL	85,579	0.11	65.92

