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100 COMPANIES

COMPANIES RECEIVING THE LARGEST DOLLAR VOLUME
OF ~~AMOUNT~~ PRIME CONTRACT AWARDS

FISCAL YEAR 1979

DEPARTMENT OF DEFENSE
WASHINGTON HEADQUARTERS SERVICES
DIRECTORATE FOR INFORMATION
OPERATIONS AND REPORTS

100 LARGEST DEFENSE CONTRACTORS
AND THEIR SUBSIDIARY CORPORATIONS
FISCAL YEAR 1979

FOREWORD

This report presents summary data on Department of Defense military prime contracts awarded to the leading 100 companies and their subsidiary corporations during fiscal year 1979.

The data include debit and credit procurement actions over \$10,000, worldwide, under military 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 do they include purchase commitments on pending cancellations 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, 1979, 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.

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

FISCAL YEAR 1979

Department of Defense military prime contract awards over \$10,000 for research and development, services, construction, and supplies and equipment awarded during fiscal year 1979 totaled \$63.3 billion, \$3.7 billion more than in fiscal year 1978. Large awards for aircraft, missile and space systems, electronics and communications, and ships, which are dominated by large contractors, resulted in \$42.0 billion or 66.4 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 1978, the top 100 companies received \$40.8 billion or 68.5 percent of the volume of all awards.

The following table shows that the first five companies received 20.7 percent of the total received by all companies in fiscal year 1979, compared with 22.5 percent during fiscal year 1978. The largest company in fiscal year 1979 received awards totalling \$3.5 billion compared with \$4.2 billion for the largest company in fiscal year 1978. To get on the list in fiscal year 1979 required 76 million in awards, as opposed to \$61 million in fiscal year 1978.

<u>Company Positions</u>	<u>PERCENT OF TOTAL</u>			
	<u>FY 1976</u>	<u>FY 1977</u>	<u>FY 1978</u>	<u>FY 1979</u>
1st	5.9%	5.1%	7.0%	5.5%
2nd	3.6	3.3	4.8	5.1
3rd	3.5	3.2	4.0	4.0
4th	3.2	3.1	3.7	3.2
5th	3.3	2.9	3.0	3.0
TOTAL - 1-5	19.1%	17.7%	22.5%	20.7%
6-10	12.3%	12.7%	11.9%	10.8%
11-25	17.0	16.9	14.3	14.6
TOTAL - 1-25	48.4%	47.3%	48.7%	46.1%
26-50	11.7%	11.6%	11.1%	11.0%
51-75	5.5	5.3	5.4	5.8
76-100	3.4	3.5	3.3	3.5
TOTAL - 1-100	60.0%	67.7%	68.5%	66.4%

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 36, one in position 45, one in position 48, and the balance between positions 50 and 100.

COMPANIES LISTED IN FY 1979
BUT NOT IN FY 1978

Al Huseini
Bautechnik Akuengesellschaft
Chin Heung International, Inc.
Coastal Dry Dock & Repair
Dynalelectron Corp.
Eaton Corp.
Felec Services, Inc.
H B H JV
Hyun Dai Construction Co., Ltd.
Kaiser Industries Corp.
Morrison-Knudsen Co., Inc.
Motor Oil Hellas
Rolls Royce, Ltd.
Summa Corp.
Swann L. A. Oil Co.
Texaco, Inc.
Tracor, Inc.
Xerox Corp.

COMPANIES LISTED IN FY 1978
BUT NOT IN FY 1979

Atlantic Richfield Co.
British Petroleum Co., Ltd.
Burroughs Corp.
Charles Stark Draper Labs.,
Inc.
Cubic Corp.
Day & Zimmerman, Inc.
Engelhard Minerals &
Chemicals Corp.
International Harvester Co.
Loral Corp.
Mason & Hanger, Silas Mason
Co.
Natomas Co.
Ogden Corp.
Petroleou Mexicanos
Ret Ser Engineering Co.
Rich Marc & Co.
Transamerica Corp.
U.S. & South American
Enterprises
United Industrial Corp.

Of the 82 companies appearing on the list in both fiscal year 1978 and 1979, 35 advanced their position, 36 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 producing "aircraft" and "construction" each increased by three, "ships" increased by two, while "petroleum" decreased by three.

NUMBER OF COMPANIES

<u>Procurement Category</u>	<u>FY 1979</u>	<u>FY 1978</u>	<u>Change</u>
Aircraft	18	15	+3
Missiles	11	13	-2
Ships	8	6	+2
Tank Automotive	5	5	0
Ammunition	9	11	-2
Electronics	16	17	-1
Services	12	12	0
Construction	4	1	+3
Petroleum	15	18	-3
Weapons	1	1	0
Subsistence	0	0	0
All Other	1	1	0

During fiscal year 1979, ten companies received prime contract awards totaling \$1 billion or more. The ten companies and a brief description of their work are as follows:

<u>RANK</u>		<u>COMPANY NAME</u>	<u>AWARDS</u>	
<u>1979</u>	<u>1978</u>		<u>1979</u>	<u>1978</u>
			(Billions)	
1	1	General Dynamics Corp.	\$3.5	\$4.2
2	2	McDonnell Douglas Corp.	3.2	2.9
3	3	United Technologies Corp.	2.6	2.4
4	5	General Electric Co.	2.0	1.8
5	4	Lockheed Corp.	1.8	2.2
6	8	Hughes Aircraft Co.	1.6	1.5
7	7	Boeing Co.	1.5	1.5
8	10	Grumman Corp.	1.4	1.2
9	9	Raytheon Co.	1.2	1.3
10	25	Tenneco, Inc.	1.1	.5

General Dynamics Corporation, with a total of \$3.5 billion in DoD prime contract awards, heads the list for the second consecutive year. Its 1979 percentage share was 5.5 compared to 7.0 last year. Major contracts continue to be for the F16 fighter aircraft, nuclear submarines, and R&D for missile and space systems.

McDonnell Douglas Corporation continued in number two position during fiscal year 1979 with awards of \$3.2 billion and 5.1 percent of the total. Major contracts were for the F-4 Phantom, F-15 EAGLE, and F-18 fighter aircraft, and missile and space systems.

United Technologies Corporation remained in third place even though their awards increased by \$154 million during fiscal year 1979. Major defense contracts were for the engines associated with the F-14 aircraft, J-57 turbojet engines, TF-30 and F-100 turbofan engines, and the CH-53 SEA STALLION and UH-60 UTTAS helicopters.

General Electric Company, with increased awards of \$256 million, moved from fifth to fourth place during fiscal year 1979. Major awards were for turbojet and turbofan engines, F-18 fighter aircraft engines, UH-60 UTTAS helicopter engines, missile components, and R&D for ships and miscellaneous hard goods.

Lockheed Corporation, in fourth place last year, moved into fifth place with awards of \$1.8 billion, or 2.8 percent of total. Major awards were for the TRIDENT missile, services for the POLARIS missile, C-130 HERCULES aircraft, modification of the C-141 STARLIFTER aircraft, and R&D for electronics and communications equipment.

Hughes Aircraft Company, in eighth place during fiscal year 1978, appeared in sixth place this year even without Summa Corporation. Major awards were R&D for missile and space systems, TOW missile system, radar and navigational aids, and the guided missile remote control system for the F-14 aircraft.

Boeing Company remained in seventh place this year while its total awards also remained the same (\$1.5 billion). The largest awards were for R&D on missile and space systems, modification of equipment and weapons, airframe structural components, and the Airborne Warning and Control System (AWACS).

Grumman Corporation, in tenth place last year, moved into eighth place this year, with \$1.4 billion and 2.2 percent of total. Largest contracts were for the F-14, E-2, A-6, and EA-6B aircraft, and electronic equipment for the F-111 aircraft.

Raytheon Company remained in ninth place again this year even though awards decreased by \$57 million. Major awards were for the HAWK, SPARROW, TRIDENT, and SIDEWINDER missiles and components.

Tenneco, Inc., in twenty-fifth place during fiscal year 1978, moved into tenth place this year with awards of \$1.1 billion, an increase of 168 percent over last year's awards of \$.5 billion. Major defense work was accomplished by their Newport News Shipbuilding & Dry Dock subsidiary on nuclear submarines, aircraft carriers, and guided missile cruisers.

Other changes concerning companies on this year's list were mergers of E S L Corporation into T R W, Inc., and Cutler Hammer into Eaton Corp.; name change of General Cable Corporation to G K TECHNOLOGIES, and the divestiture of Summa Corporation from Hughes Aircraft Co.

INDEX OF 100 PARENT COMPANIES WHICH WITH THEIR SUBSIDIARIES RECEIVED THE
LARGEST DOLLAR VOLUME OF MILITARY PRIME CONTRACT AWARDS IN FISCAL YEAR 1979

RANK	PARENT COMPANY	RANK	PARENT COMPANY
67.	AEROSPACE CORP (N)	19.	INTERNATIONAL BUSINESS MACHINES CO
69.	AGIP S P A	37.	INTERNATIONAL TELEPHONE + TEL CORP
45.	AL HUSEINI	61.	JOHNS HOPKINS UNIVERSITY (N)
40.	AMERADA HESS CORP	48.	KAISER INDUSTRIES CORP
38.	AMERICAN MOTORS CORP	26.	L T V CORP
18.	AMERICAN TELEPHONE + TELEGRAPH CO	92.	LEAR SIEGLER INC
66.	AVCO CORP	11.	LITTON INDUSTRIES, INC
77.	BAUTECHNIK AKTIENGESELLSCHAFT	5.	LOCKHEED CORP
98.	BEECH AIRCRAFT CORP	20.	MARTIN MARIETTA CORP
35.	BENDIX CORP	70.	MASSACHUSETTS INSTITUTE TECHNOLOGY
90.	BETHLEHEM STEEL CORP	2.	MCDONNELL DOUGLAS CORP
7.	BOEING CO	88.	MITRE (THE) CORP (N)
86.	CHAMBERLAIN MFG CORP	64.	MOBIL CORP
53.	CHIN HEUNG INTERNATIONAL INC	51.	MORRISON-KNUDSEN CO, INC
12.	CHRYSLER CORP	50.	MOTOR OIL HELLAS
54.	COASTAL CORP	49.	MOTOROLA INC
100.	COASTAL DRY DOCK REPAIR	89.	NORRIS INDUSTRIES
79.	COMPUTER SCIENCES CORP	46.	NORTH AMERICAN PHILIPS CORP
34.	CONGOLEUM CORP	13.	NORTHROP CORP
76.	CONTROL DATA CORP	78.	PACIFIC RESOURCES INC
81.	DUPONT E I DE NEMOURS + CO	65.	PAN AMERICAN WORLD AIRWAYS INC
96.	DYNALECTRON CORP	22.	R C A CORP
52.	E SYSTEMS, INC	9.	RAYTHEON CO
74.	EASTMAN KODAK CO	91.	REYNOLDS (RJ) INDUSTRIES, INC
99.	EATON CORP	15.	ROCKWELL INTERNATIONAL CORP
58.	EMERSON ELECTRIC CO	93.	ROLLS ROYCE LTD
32.	EXXON CORP	57.	ROYAL DUTCH SHELL GROUP
30.	F M C CORP	85.	SANDERS ASSOCIATES INC
21.	FAIRCHILD INDUSTRIES, INC	59.	SIGNAL COMPANIES INC (THE)
62.	FELEC SERVICES INC	31.	SINGER CO
33.	FORD MOTOR CO	14.	SPERRY CORP
55.	G K TECHNOLOGIES INC	39.	STANDARD OIL CO OF CALIF
1.	GENERAL DYNAMICS CORP	68.	STANDARD OIL OF INDIANA
4.	GENERAL ELECTRIC CO	62.	SUMMA CORP
25.	GENERAL MOTORS CORP	73.	SUN CO INC
41.	GENERAL TELEPHONE + ELECTRONICS CORP	71.	SVERDRUP + PARCEL + ASSOCS INC
42.	GENERAL TIRE + RUBBER CO	95.	SWANN L A OIL CO
44.	GOODYEAR TIRE + RUBBER CO	27.	T R W INC
60.	GOULD, INC	28.	TELEDYNE INC
8.	GRUMMAN CORP	10.	TENNECO INC
63.	GUAM OIL + REFINING CO INC	84.	TEXACO INC
97.	GULF OIL CORP	29.	TEXAS INSTRUMENTS INC
80.	H B H JV	23.	TEXTRON INC
56.	HARRIS CORP	83.	THIokol CORP
43.	HARSCO CORP	24.	TODD SHIPYARDS CORP
47.	HERCULES, INC	72.	TRACOR INC
87.	HEWLETT PACKARD CO	3.	UNITED TECHNOLOGIES CORP
17.	HONEYWELL INC	75.	VINNELL CORP
6.	HUGHES AIRCRAFT CO	16.	WESTINGHOUSE ELECTRIC CORP
36.	HYUN DAI CONSTRUCTION CO LTD	94.	XEROX CORP

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

**FISCAL YEAR 1979
(1 OCT 1978 - 30 SEP 1979)**

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF U.S. TOTAL	CUMULATIVE PERCENT OF U.S. TOTAL
	T O T A L	\$63,252,114 *****	100.00	100.00
	TOTAL, 100 COMPANIES + THEIR SUBSIDIARIES	41,973,543 *****	66.36	66.36
1.	GENERAL DYNAMICS CORP DATAGRAPHIX GMBH GENERAL DYNAMICS COMMUNICATIONS CO STROMBERG DATAGRAPHIX, INC	3,479,253 19 4,425 8,443 -----		
	TOTAL	3,492,140	5.52	5.52
2.	MCDONNELL DOUGLAS CORP MCDONNELL DOUGLAS ELECTRONICS CO	3,223,254 5,932 -----		
	TOTAL	3,229,186	5.11	10.63
3.	UNITED TECHNOLOGIES CORP CARRIER CORP CARRIER INTERNATIONAL CORP INMONT CORP OTIS ELEVATOR CO TURBO POWER + MARINE SYSTEMS, INC	2,547,084 6,103 20 53 249 41 -----		
	TOTAL	2,553,550	4.04	14.67
4.	GENERAL ELECTRIC CO GENERAL ELECTRIC MEDICAL SYSTEMS GENERAL ELECTRIC PHILIPPINES INC INTERMAGNETICS GENERAL CORP MANAGEMENT + TECHNICAL SERVICES CO	2,016,731 58 16 72 25,599 -----		
	TOTAL	2,042,476	3.23	17.90
5.	LOCKHEED CORP LOCKHEED AIRCRAFT INTERNATIONAL, INC LOCKHEED ELECTRONICS CO, INC LOCKHEED MISSILES + SPACE CO INC LOCKHEED SHIPBUILDING CONSTRUCTION MURDOCK MACHINE + ENGR CO OF TEXAS	559,102 43 35,550 1,130,864 69,827 1,456 -----		
	TOTAL	1,796,642	2.84	20.74
6.	HUGHES AIRCRAFT CO HUGHES RESEARCH LABS. SANTA BARBARA RESEARCH CENTER	1,506,272 2,309 46,301 -----		
	TOTAL	1,556,882	2.46	23.20
7.	BOEING CO BOEING AEROSPACE CO BOEING COMPUTER SERVICES INC BOEING INTL CORP BOEING SERVICES INTERNATIONAL INC BOEING VERTOL CO	1,262,356 24,435 3,635 10,666 41,596 171,814 -----		
	TOTAL	1,514,502	2.39	25.59

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF U.S. TOTAL	CUMULATIVE PERCENT OF U.S. TOTAL
8.	GRUMMAN CORP	5,789		
	GRUMMAN AEROSPACE CORP	1,352,793		
	GRUMMAN DATA SYSTEMS CORP	5,571		
	TOTAL	1,364,153	2.16	27.75
9.	RAYTHEON CO	1,205,459		
	IOWA MFG CO OF CEDAR RAPIDS IOWA	712		
	KURAS ALTERMAN CORP	10,705		
	LEXITRON CORP	1,342		
	MACHLETT LABORATORIES INC	1,936		
	RAYTHEON MARINE CO	13		
	RAYTHEON SERVICE CO	12,019		
	RAYTHEON TECHNICAL ASSISTANCE CO	16,350		
	SWITCHCRAFT INC	11		
	UNITED ENGINEERS + CONSTRUCTORS	830		
	TOTAL	1,249,377	1.98	29.73
10.	TENNECO INC	26		
	CASE (J1) CO	7,217		
	CASE POWER + EQUIPMENT LTD	29		
	GAS EQUIPMENT ENGRS, INC	1,276		
	MONROE AUTO EQUIPMENT CO	863		
	NEWPORT NEWS SHIPBLD + DRY DOCK CO	1,063,196		
	TOTAL	1,092,607	1.73	31.46
11.	LITTON INDUSTRIES, INC	40,581		
	BELOIT POWER SYSTEMS	839		
	DIEHL DATA SYSTEMS	964		
	LITTON BIONETICS INC	20		
	LITTON BUSINESS SYSTEMS, INC	283		
	LITTON EDUCATIONAL PUB CO, INC	21		
	LITTON ENGINEERING LABORATORIES	28		
	LITTON INDUSTRIAL PRODUCTS INC	1,877		
	LITTON MEDICAL PRODUCTS, INC	40		
	LITTON PRECISION PRODS INTL INC	233		
	LITTON SYSTEMS INC	787,079		
	MONROE CALCULATING CO	247		
	MONROE INTERNATIONAL INC	44		
	WESTERN GEOPHYSICAL CO OF AMERICA	133		
	TOTAL	832,368	1.32	32.78
12.	CHRYSLER CORP	808,917		
	CHRYSLER UK LTD	27		
	TOTAL	808,944	1.28	34.06
13.	NORTHROP CORP	723,784		
	NORTHROP WORLDWIDE ACFT SVCS INC	76,070		
	PAGE COMMUNICATIONS ENGINEERS INC	425		
	TOTAL	800,279	1.27	35.33
14.	SPERRY CORP	773,325		
	SPERRY ELECTRO COMPONENTS	476		
	SPERRY FLIGHT SYSTEMS	2,901		
	SPERRY MARINE SYSTEMS	1,015		
	SPERRY MICROWAVE COMPONENTS	15		
	TOTAL	777,732	1.23	36.56

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF U.S. TOTAL	CUMULATIVE PERCENT OF U.S. TOTAL
15.	ROCKWELL INTERNATIONAL CORP HEIM UNIVERSAL CORP	683,776 116		
	TOTAL	683,892	1.08	37.64
16.	WESTINGHOUSE ELECTRIC CORP WEDCO CORP WESTINGHOUSE ELECTRIC SUPPLY CO WESTINGHOUSE LEARNING CORP	658,727 63 779 178		
	TOTAL	659,747	1.04	38.68
17.	HONEYWELL INC ELECTRONICS FOR MEDICINE HONEYWELL INFORMATION SYSTEMS, INC INCOTERM CORP SPECTRONICS INC	545,185 457 109,909 835 1,274		
	TOTAL	657,660	1.04	39.72
18.	AMERICAN TELEPHONE + TELEGRAPH CO CHESAPEAKE + POTOMAC TEL CO OF DC ILLINOIS BELL TEL CO MICHIGAN BELL TEL CO MOUNTAIN BELL TELEPHONE CO NEW ENGLAND TEL + TEL CO NEW JERSEY BELL TELEPHONE CO NEW YORK TELEPHONE CO NORTHWESTERN BELL TELEPHONE CO OHIO BELL TELEPHONE CO PACIFIC NORTHWEST BELL TELEPHONE PACIFIC TELEPHONE + TELEGRAPH CO SOUTH CENTRAL BELL TEL CO SOUTHERN BELL TELEPHONE + TELEGRPH SOUTHWESTERN BELL TELEPHONE TELETYPE CORP WESTERN ELECTRIC CO INC	244,678 42,453 364 407 4,373 1,980 618 730 882 1,693 296 3,147 1,898 4,010 4,930 14,298 242,650		
	TOTAL	589,607	0.90	40.62
19.	INTERNATIONAL BUSINESS MACHINES CO I B M DEUTSCHLAND GMBH	551,375 1,186		
	TOTAL	552,561	0.87	41.48
20.	MARTIN MARIETTA CORP MARTIN MARIETTA ALUMINUM INC MARTIN MARIETTA ALUMINUM SALES INC MARTIN MARIETTA DATA SYSTEMS INC	489,009 4,292 43,922 1,385		
	TOTAL	518,608	0.82	42.31
21.	FAIRCHILD INDUSTRIES, INC AMERICAN SATELLITE CORP	503,579 1,565		
	TOTAL	505,144	0.80	43.11
22.	R C A CORP BANQUET FOODS CORP HERTZ CORP R C A GLOBAL COMMUNICATIONS, INC R C A LABORATORIES SARGOFF RES CTR R C A MOBILE COMMUNICATIONS RANDOM HOUSE, INC	474,211 475 18 12,438 227 73 11		
	TOTAL	487,451	0.77	43.88

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF U.S. TOTAL	CUMULATIVE PERCENT OF U.S. TOTAL
23.	TEXTRON INC	381,211		
	BELL HELICOPTER INTL INC	83,114		
	BELL TECHNICAL OPERATIONS CORP	12,227		
	JACOBSEN MFG CO	69		
	TOTAL	476,621	0.75	44.63
24.	TODD SHIPYARDS CORP	448,651		
	DESIGNERS + PLANNERS, INC	681		
	TOTAL	449,332	0.71	45.34
25.	GENERAL MOTORS CORP	449,126	0.71	46.05
26.	L T V CORP	4,624		
	ADVANCED TECHNOLOGY CENTER, INC	15		
	JONES + LAUGHLIN STEEL CORP	249		
	KENTRON HAWAII LTD	27,213		
	LYKES BROS STEAMSHIP CO INC	20		
	VOUGHT CORP	388,850		
	WILSON FOODS CORP	4,848		
	WILSON + CO INC	21,772		
	TOTAL	447,591	0.71	46.76
27.	T R W INC	363,062		
	AERTECH INDUSTRIES	578		
	DE LEUW CATHER + CO	345		
	E S L INC	62,129		
	RAMSEY CORP	18		
	T R W COLORADO ELECTRONICS, INC	9,070		
	T R W GLOBE MASTERS	1,494		
	TOTAL	436,713	0.69	47.45
28.	TELEDYNE INC	40,973		
	MICRONETICS INC	129		
	ORDNANCE SPECIALTIES INC	298		
	TELEDYNE BATTERY PRODUCTS	19,423		
	TELEDYNE BROWN ENGINEERING	17,976		
	TELEDYNE C A E	38,209		
	TELEDYNE CAMERA SYSTEMS	2,171		
	TELEDYNE CAST PRODUCTS	400		
	TELEDYNE CONTROLS	1,186		
	TELEDYNE CRYSTALONICS	109		
	TELEDYNE DENTAL	60		
	TELEDYNE ELECTRONICS	34,622		
	TELEDYNE FIRTH STERLING INC	808		
	TELEDYNE GEOTECH	387		
	TELEDYNE GURLEY	22		
	TELEDYNE HANAU ENGINEERING	38		
	TELEDYNE HASTINGS RAYDIST	196		
	TELEDYNE HYDRA POWER	1,556		
	TELEDYNE INDUSTRIES, INC	228,626		
	TELEDYNE INET BELGIUM SA	18		
	TELEDYNE INET INC	213		
	TELEDYNE KINETICS	54		
	TELEDYNE LANDIS MACHINE CO	501		
	TELEDYNE LEWISBURG	787		
	TELEDYNE M E C	3,399		
	TELEDYNE MCCORMICK SELPH	2,737		
	TELEDYNE MCKAY	281		
	TELEDYNE MONARCH RUBBER	1,147		
	TELEDYNE MONG THANE	17		

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF U.S. TOTAL	CUMULATIVE PERCENT OF U.S. TOTAL
28.	TELEDYNE INC			
	TELEDYNE NATIONAL	122		
	TELEDYNE PEER	141		
	TELEDYNE PINES	34		
	TELEDYNE RELAYS	175		
	TELEDYNE REPUBLIC MFG	430		
	TELEDYNE SEMICONDUCTOR	535		
	TELEDYNE SPRAGUE ENGINEERING	184		
	TELEDYNE TABER	17		
	TELEDYNE THERMATICS	349		
	TELEDYNE VASCO	34		
	TELEDYNE WAM CHANG	80		
	TELEDYNE WALTERSORG	908		
	TELEDYNE WISCONSIN MOTOR	359		
	TOTAL	399,711	0.63	48.08
29.	TEXAS INSTRUMENTS INC	379,831	0.59	46.67
30.	F M C CORP	352,135	0.56	49.23
31.	SINGER CO	322,723		
	FRIDEN MAILING EQUIPMENT CORP	15		
	H R B SINGER, INC	23,316		
	SOCIETY FOR VISUAL EDUCATION, INC	53		
	TOTAL	346,107	0.55	49.78
32.	EXXON CORP	312,187		
	ESSO A G	27,999		
	ESSO ITALIANA S P A	819		
	ESSO STANDARD OIL CO S A	129		
	EXXON RESEARCH + ENGINEERING CO	318		
	TOTAL	341,462	0.54	50.32
33.	FORD MOTOR CO	259		
	FORD AEROSPACE + COMMUNICATIONS	337,499		
	TOTAL	337,758	0.53	50.85
34.	CONGOLEUM CORP			
	BATH IRON WORKS CORP	336,233		
	TOTAL	336,233	0.53	51.38
35.	BENDIX CORP	274,905		
	BENDIX AUTOLITE CORP	1,543		
	BENDIX FIELD ENGINEERING CORP	17,194		
	BENDIX HEAVY VEHICLE SYSTEMS GROUP	15		
	COURTER INC	2,591		
	FRAM CORP	22		
	SKAGIT CORP	290		
	TOLEDO STAMPING & MFG CO	35		
	UNITED GEOPHYSICAL CO OF AMERICA	73		
	TOTAL	296,668	0.47	51.85
36.	HYUN DAI CONSTRUCTION CO LTD	290,486	0.46	52.31

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF U.S. TOTAL	CUMULATIVE PERCENT OF U.S. TOTAL
37.	INTERNATIONAL TELEPHONE + TEL CORP	140,981		
	FEDERAL ELECTRIC CORP	45,286		
	I T T ARTIC SERVICES, INC	1,348		
	I T T BARTON	1,928		
	I T T BLACKBURN CORP	11		
	I T T BUSINESS SYSTEMS	63		
	I T T CONTINENTAL BAKING CO	1,938		
	I T T COURIER TERMINAL SYSTEMS INC	122		
	I T T GENERAL CONTROLS, INC	1,081		
	I T T GILFILLAN INC	50,678		
	I T T GRINNELL CORP	29		
	I T T GWALTNEY INC	3,113		
	I T T HAMMEL DAHL CONOFLW	160		
	I T T HARPER, INC	125		
	I T T HENZE SERVICE	53		
	I T T JENNINGS	426		
	I T T NORTH ELECTRIC CO	183		
	I T T POMONA ELECTRONICS INC	13		
	I T T SHERATON CORP OF AMERICA	78		
	I T T TELECOMMUNICATIONS	311		
	I T T WORLD COMMUNICATIONS, INC	9,776		
	J C C PUMP CO INC	4,233		
	TOTAL	282,936	0.42	52.73
38.	AMERICAN MOTORS CORP	32		
	A M GENERAL CORP	243,073		
	MERCURY PLASTICS CO	739		
	TOTAL	243,844	0.39	53.12
39.	STANDARD OIL CO OF CALIF	26		
	CALTEX ASIA LTD	46 (a)		
	CALTEX OIL PAKISTAN	21 (a)		
	CALTEX OIL PRODUCTS CO	32,700 (a)		
	CALTEX OVERSEAS LTD	70 (a)		
	CALTEX PHILIPPINES INC	7 (a)		
	CHEVRON INTERNATIONAL OIL CO, INC	117		
	CHEVRON OIL CO	6,788		
	CHEVRON U S A INC	201,678		
	TOTAL	241,451	0.38	53.50
40.	AMERADA HESS CORP	8,236		
	HESS OIL VIRGIN ISLANDS CORP	228,274		
	TOTAL	236,510	0.37	53.87
41.	GENERAL TELEPHONE + ELECTRONCS CORP			
	G T E AUTOMATIC ELECTRIC INC	662		
	G T E INFORMATION SYSTEMS, INC	116		
	G T E LABORATORIES, INC	185		
	G T E LENKURT, INC	432		
	G T E SYLVANIA INC	216,510		
	G T E TELECOMUNICAZIONI SPA	38		
	GENERAL TELEPHONE CO OF FLORIDA	412		
	GENERAL TELEPHONE CO OF SOUTHEAST	660		
	GENERAL TELEPHONE CO OF SOUTHWEST	262		
	HAWAIIAN TELEPHONE CO	7,625		
	TOTAL	227,120	0.36	54.23
42.	GENERAL TIRE + RUBBER CO	824		
	AERJET GENERAL CORP	219,171		
	TOTAL	219,995	0.35	54.58

(a) Stock ownership is equally divided between Standard Oil Company of California and Texaco, Inc.

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF U.S. TOTAL	CUMULATIVE PERCENT OF U.S. TOTAL
43.	HARSCO CORP	218,586	0.35	54.93
44.	GOODYEAR TIRE + RUBBER CO	47,396		
	GOODYEAR AEROSPACE CORP	170,227		
	MOTOR WHEEL CORP	359		
	TOTAL	217,982	0.34	55.27
45.	AL HUSEINI	205,622	0.33	55.60
46.	NORTH AMERICAN PHILIPS CORP	1,216		
	AMPEREX ELECTRONIC CORP	3,453		
	ANCHOR BRUSH CO INC	202		
	CHICAGO MAGNETIC WIRE CO	302		
	GENERAL ATRONICS CORP	1,143		
	MAGNAVOX CO	63,343		
	MAGNAVOX GOVT + INDUSTRIAL ELEC CO	127,927		
	NATIONAL COMPONENTS INDUSTRIES INC	58		
	NORTH AMERICAN PHILIPS CONTROLS CO	1,300		
	NORTH AMERICAN PHILIPS LTG CORP	115		
	PHILIPS BUSINESS SYSTEMS INC	41		
	PHILIPS ELECTRONIC INSTRUMENTS INC	348		
	PHILIPS MEDICAL SYSTEMS INC	5,376		
	PHILIPS TEST & MEASURING INSTRS	49		
	SMITH HERMAN H INC	121		
	TOTAL	204,994	0.32	55.92
47.	HERCULES, INC	168,827		
	HAVEG INDUSTRIES INC	1,600		
	TOTAL	190,627	0.30	56.22
48.	KAISER INDUSTRIES CORP	452		
	KAISER AEROSPACE + ELECTRONICS COR	16,359		
	KAISER STEEL CORP	1,509		
	NATIONAL STEEL + SHIPBUILDING CO	167,705		
	TOTAL	186,025	0.29	56.51
49.	MOTOROLA INC	185,544		
	MOTOROLA OVERSEAS CORP	160		
	TOTAL	185,724	0.29	56.80
50.	MOTOR OIL HELLAS	184,287	0.29	57.09
51.	MORRISON-KNUDSEN CO, INC	11,507		
	FERGUSON (H K) CO	2,872		
	NATIONAL STEEL + SHIPBUILDING CO	167,705		
	TOTAL	182,084	0.29	57.38
52.	E SYSTEMS, INC	186,817		
	ELECTRONIC COMMUNICATIONS INC	4,999		
	SERV AIR INC	6,736		
	TOTAL	178,552	0.28	57.66

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF U.S. TOTAL	CUMULATIVE PERCENT OF U.S. TOTAL
53.	CHIN HEUNG INTERNATIONAL INC	178,440	0.28	57.94
54.	COASTAL CORP			
	BELCHER OIL CO	15,919		
	BELCHER OIL CO OF CAPE CANAVERAL	2,241		
	BELCHER TERMINALS INC	587		
	COASTAL STATES ENERGY CO	1,872		
	COASTAL STATES MARKETING INC	92,248		
	COASTAL STATES TRADING INC	55,047		
	GLENN PETROLEUM CORP	314		
	LO - VACA GATHERING CO	6,866		
	UNION PETROLEUM CORP	3,124		
	TOTAL	178,018	0.28	58.22
55.	G K TECHNOLOGIES INC	330		
	AUTOMATION INDUSTRIES INC	173,675		
	G & H TECHNOLOGY INC	258		
	SPRAGUE ELECTRIC CO	2,345		
	TOTAL	176,609	0.28	58.50
56.	HARRIS CORP	169,371	0.27	58.77
57.	ROYAL DUTCH SHELL GROUP			
	SHELL CHEMICAL INC	147		
	SHELL CO OF THE ISLAND	283		
	SHELL CURACAO N V	48,493		
	SHELL EASTERN PETROLEUM PTE LTD	51,418		
	SHELL FRANCAISE	23,295		
	SHELL INTERNATIONAL	8,560		
	SHELL NEDERLAND	87		
	SHELL OIL CO	28,905		
	SHELL UK LTD	52		
	TOTAL	159,220	0.25	59.02
58.	EMERSON ELECTRIC CO	152,693		
	CHANCE A B CO	450		
	RIDGE TOOL CO	46		
	ROSEMOUNT INC	5,474		
	TOTAL	158,663	0.25	59.27
59.	SIGNAL COMPANIES INC (THE)	58		
	AIRESEARCH MFG CO	1,140		
	AIRESEARCH MFG CO OF ARIZONA	10,888		
	AIRESEARCH MFG CO OF CALIFORNIA	24,514		
	DUNHAM BUSH INC	854		
	GARRETT CORP	111,007		
	MACK TRUCKS INC	2,241		
	PRECISION RUBBER PRODUCTS CORP	14		
	SOUTHLAND OIL CORP	5,879		
	TOTAL	156,796	0.25	59.52
60.	GOULD, INC	150,732		
	DEVICES & COMPONENTS CO	10		
	HOFFMAN ELECTRONICS INC	474		
	I T E IMPERIAL CORP	4,517		
	IMPERIAL EASTMAN CORP	380		
	TOTAL	156,113	0.25	59.77

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF U.S. TOTAL	CUMULATIVE PERCENT OF U.S. TOTAL
61.	JOHNS HOPKINS UNIVERSITY (N)	156,079	0.25	60.02
62.	SUNMA CORP	150,143	0.24	60.26
63.	GUAM OIL + REFINING CO INC	149,716	0.24	60.50
64.	MOBIL CORP			
	CONTAINER CORP OF AMERICA	67		
	HYDRO CONDUIT CORP	284		
	MOBIL OIL CORP	143,864		
	MOBIL OIL PHILIPPINES, INC	120		
	TOTAL	144,355	0.23	60.73
65.	PAN AMERICAN WORLD AIRWAYS INC	140,085	0.22	60.95
66.	AVCO CORP	123,861		
	AVCO EVERETT RESEARCH LABORATORY	14,407		
	TOTAL	138,268	0.22	61.17
67.	AEROSPACE CORP (N)	130,373	0.21	61.38
68.	STANDARD OIL OF INDIANA			
	AMOCO CHEMICALS CORP	50		
	AMOCO OIL CO	130,206		
	TOTAL	130,256	0.21	61.59
69.	AGIP S P A	107,353		
	AGIP PETROLEUM CO INC	16,836		
	TOTAL	126,189	0.20	61.79
70.	MASSACHUSETTS INSTITUTE TECHNOLOGY	125,269	0.20	61.99
71.	SVERDRUP + PARCEL + ASSOCS INC	3,862		
	ARG INC	118,065		
	TOTAL	121,947	0.19	62.18
72.	TRACOR INC	63,242		
	LITTLEFUSE INC	37		
	RICHEY ELECTRONICS	34		
	TRACOR JITCO INC	130		
	TRACOR MARINE INC	57,405		
	TOTAL	120,848	0.19	62.37
73.	SUN CO INC	102,249		
	SUN SHIPBUILDING + DRY DOCK CO	17,423		
	TOTAL	119,672	0.19	62.56

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF U.S. TOTAL	CUMULATIVE PERCENT OF U.S. TOTAL
74.	EASTMAN KODAK CO EASTMAN KODAK STORES INC KODAK EXPORT, LTD	110,740 117 34		
	TOTAL	110,891	0.18	62.74
75.	VINNELL CORP	110,842	0.18	62.92
76.	CONTROL DATA CORP KEROTEST MFG CORP SERVICE BUREAU CORP THE	107,891 278 30		
	TOTAL	108,199	0.17	63.09
77.	BAUTECHNIK AKTIENGESELLSCHAFT	105,010	0.17	63.26
78.	PACIFIC RESOURCES INC GASCO INC HAWAIIAN INDEPENDENT REFINERY INC	598 102,878		
	TOTAL	103,476	0.16	63.42
79.	COMPUTER SCIENCES CORP	103,124	0.16	63.58
80.	H B H JV	102,362	0.16	63.74
81.	DUPONT E I DE NEMOURS + CO ENDO LABORATORIES, INC REMINGTON ARMS CO, INC	11,683 429 89,911		
	TOTAL	102,003	0.16	63.90
82.	FELEC SERVICES INC	97,072	0.15	64.05
83.	THICKOL CORP	96,101	0.15	64.20
84.	TEXACO INC CALTEX ASIA LTD CALTEX OIL PAKISTAN CALTEX OIL PRODUCTS CO CALTEX OVERSEAS LTD CALTEX PHILIPPINES INC DEUTSCHE TEXACO VERKAUF GMBH JEFFERSON CHEMICAL CO INC TEXACO EXPORT INC TEXACO INTERNATIONAL TRADER INC TEXACO UK LTD	1,644 48 (a) 20 (a) 32,699 (a) 69 (a) 6 (a) 3,921 1,575 20,546 22,691 7,813		
	TOTAL	90,729	0.14	64.34
85.	SANDERS ASSOCIATES INC	88,345	0.14	64.48

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RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF U.S. TOTAL	CUMULATIVE PERCENT OF U.S. TOTAL
86.	CHAMBERLAIN MFG CORP	86,055	0.14	64.62
87.	HEWLETT PACKARD CO DATAMEC CORP	85,746 84		
	TOTAL	85,830	0.14	64.76
88.	MITRE (THE) CORP (N)	84,832	0.13	64.89
89.	NORRIS INDUSTRIES CONNELL BROS CO LTD PRESSED STEEL TANK CO, INC	82,568 50 49		
	TOTAL	82,667	0.13	65.02
90.	BETHLEHEM STEEL CORP BETHLEHEM STEEL EXPORT CORP	82,549 43		
	TOTAL	82,592	0.13	65.15
91.	REYNOLDS (RJ) INDUSTRIES, INC RJR FOODS, INC SEA-LAND SERVICE, INC UNITED STATES LINES INC	26,788 3,308 1,827 49,062		
	TOTAL	80,983	0.13	65.28
92.	LEAR SIEGLER INC	80,525	0.13	65.41
93.	ROLLS ROYCE LTD	78,612	0.12	65.53
94.	XEROX CORP FUJI-XEROX CO, LTD GINN + CO KOREA XEROX CO LTD RANK XEROX LTD XEROX COLLEGE PUBLISHING XEROX DATA SYSTEMS, INC XEROX ELECTRO OPTICAL SYSTEMS INC XEROX LEARNING SYSTEMS	70,750 1,010 302 482 1,152 15 369 4,378 13		
	TOTAL	78,471	0.12	65.65
95.	SWANN L A OIL CO	78,456	0.12	65.77
96.	DYNAELECTRON CORP GRIFFIN CONSTRUCTION CO	73,860 3,599		
	TOTAL	77,459	0.12	65.89
97.	GULF OIL CORP GULF OIL TRADING CO GULF PETROLEUM SA PANAMA GULF RESEARCH + DEVELOPMENT CO INDUSTRIAL ASPHALT INC JONES (T A D) + CO, INC	42,088 2,254 622 124 71 582		

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF U.S. TOTAL	CUMULATIVE PERCENT OF U.S. TOTAL
97.	GULF OIL CORP	31,322		
	KOREA OIL CORP	-----		
	TOTAL	77,063	0.12	66.01
98.	BEECH AIRCRAFT CORP	71,553		
	BEECH AEROSPACE SERVICES	5,266		
	DENVER BEECHCRAFT, INC	78		
	TOTAL	76,896	0.12	66.13
99.	EATON CORP	1,273		
	CUTLER HAMMER INC	76,429		
	TOTAL	76,702	0.12	66.25
100.	COASTAL DRY DOCK REPAIR	76,164	0.12	66.37