

Table 1. Industry Statistics on NAICS Basis With Distribution Among 1987 SIC-Based Industries: 1997

[NAICS codes appear in bold type. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

NAICS or SIC code	Industry	Com-panies ¹	All estab-lish-ments ²	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expendi-tures (\$1,000)
				Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
336414	Guided missile & space vehicle mfg	15	22	52 158	3 156 221	18 722	36 483	824 117	8 582 966	5 598 036	14 791 466	637 729
376100	Guided missiles & space vehicles	N	22	52 158	3 156 221	18 722	36 483	824 117	8 582 966	5 598 036	14 791 466	637 729

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

²Includes establishments with payroll at any time during the year.

Table 2. Industry Statistics for Selected States: 1997

[States that are disclosures or with less than 100 employees are not shown. For explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expendi-tures (\$1,000)
		Total	With 20 em-ploy-ees or more	Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
336414, GUIDED MISSILE & SPACE VEHICLE MFG												
United States	-	22	18	52 158	3 156 221	18 722	36 483	824 117	8 582 966	5 598 036	14 791 466	637 729
California	-	8	8	31 286	1 904 029	6 299	13 747	270 330	4 864 244	2 812 134	8 092 229	519 547

* Hawaii has no incorporated places in the sense of functioning governmental units; however, in agreement with Hawaiian law, the Bureau of the Census reports data for census designated places (CDPs) which have been designated as place equivalents. Those CDPs, only for the state of Hawaii, with 2,500 or more population are recognized.

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of the figures shown: 1-10 to 19 percent; 2-20 to 29 percent; 3-30 to 39 percent; 4-40 to 49 percent; 5-50 to 59 percent; 6-60 to 69 percent; 7-70 to 79 percent; 8-80 to 89 percent; 9-90 percent or more.

Table 3. Detailed Statistics by Industry: 1997

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Value	Item	Value
336414, GUIDED MISSILE & SPACE VEHICLE MFG		336414, GUIDED MISSILE & SPACE VEHICLE MFG	
— Con.		— Con.	
Companies ¹	number.. 15	Value added	\$1,000.. 8 582 966
All establishments	number.. 22	Total inventories, beginning of year	\$1,000.. 3 322 328
Establishments with 1 to 19 employees	number.. 4	Finished goods inventories, beginning of year	\$1,000.. D
Establishments with 20 to 99 employees	number.. 3	Work-in-process inventories, beginning of year	\$1,000.. 3 036 929
Establishments with 100 employees or more	number.. 15	Materials and supplies inventories, beginning of year	\$1,000.. D
All employees	number.. 52 158	Total inventories, end of year	\$1,000.. 2 637 923
Total compensation ²	\$1,000.. 3 942 227	Finished goods inventories, end of year	\$1,000.. D
Annual payroll	\$1,000.. 3 156 221	Work-in-process inventories, end of year	\$1,000.. 2 426 444
Total fringe benefits	\$1,000.. 786 006	Materials and supplies inventories, end of year	\$1,000.. D
Production workers, average for year	number.. 18 722	Gross book value of total assets at beginning of year	\$1,000.. 5 074 992
Production workers on March 12	number.. 18 791	Total capital expenditures (new and used)	\$1,000.. 637 729
Production workers on May 12	number.. 18 715	Capital expenditures for buildings and other structures (new and used)	\$1,000.. 251 009
Production workers on August 12	number.. 18 726	Capital expenditures for machinery and equipment (new and used)	\$1,000.. 386 720
Production workers on November 12	number.. 18 656	Total retirements ²	\$1,000.. 371 907
Production-worker hours	1,000.. 36 483	Gross book value of total assets at end of year	\$1,000.. 5 340 814
Production-worker wages	\$1,000.. 824 117	Total depreciation during year ²	\$1,000.. 376 614
Total cost of materials	\$1,000.. 5 598 036	Total rental payments ²	\$1,000.. 96 351
Cost of materials, parts, containers, etc., consumed	\$1,000.. 3 410 584	Buildings and other structures rental payments ²	\$1,000.. 57 607
Cost of resales	\$1,000.. D	Machinery and equipment rental payments ²	\$1,000.. 38 744
Cost of fuels	\$1,000.. 9 081	Cost of purchased services for the repair of buildings and other structures ³	\$1,000.. 36 809
Cost of purchased electricity	\$1,000.. 61 710	Response coverage ratio ⁴	percent.. 98
Cost of contract work	\$1,000.. D	Cost of purchased services for the repair of machinery and equipment ³	\$1,000.. 19 580
Quantity of electricity purchased for heat and power	1,000 kWh.. 1 081 045	Response coverage ratio ⁴	percent.. 98
Quantity of electricity generated less sold for heat and power	1,000 kWh.. —	Cost of purchased communications services ³	\$1,000.. 53 712
Total value of shipments	\$1,000.. 14 791 466	Response coverage ratio ⁴	percent.. 98
Primary products value of shipments	\$1,000.. 12 061 536	Cost of purchased legal services ³	\$1,000.. 28 795
Secondary products value of shipments	\$1,000.. 2 016 648	Response coverage ratio ⁴	percent.. 98
Total miscellaneous receipts	\$1,000.. 713 282	Cost of purchased accounting and bookkeeping services ³	\$1,000.. 14 154
Value of resales	\$1,000.. D	Response coverage ratio ⁴	percent.. 98
Contract receipts	\$1,000.. D	Cost of purchased advertising services ³	\$1,000.. 7 613
Other miscellaneous receipts	\$1,000.. D	Response coverage ratio ⁴	percent.. 98
Primary products specialization ratio	percent.. 85	Cost of purchased software and other data processing services ³	\$1,000.. 222 786
Value of primary products shipments made in all industries	\$1,000.. 12 671 414	Response coverage ratio ⁴	percent.. 98
Value of primary products shipments made in this industry	\$1,000.. 12 061 536	Cost of purchased refuse removal (including hazardous waste) services ³	\$1,000.. 5 635
Value of primary products shipments made in other industries	\$1,000.. 609 878	Response coverage ratio ⁴	percent.. 98
Coverage ratio	percent.. 95		

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

²These items are collected in the ASM and estimated for the remaining establishments; therefore, the levels of estimation are higher than for other items in the table.

³Based on ASM sample data.

⁴A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those ASM establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note: The amounts shown for purchased services reflect only those services that establishments purchase from other companies.

Table 4. Industry Statistics by Employment Size: 1997

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Employment size class	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
	E ¹	Total	With 20 employees or more	Number	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
336414. GUIDED MISSILE & SPACE VEHICLE MFG												
All establishments	-	22	18	52 158	3 156 221	18 722	36 483	824 117	8 582 966	5 598 036	14 791 466	637 729
Establishments with 1 to 4 employees	9	1	-	D	D	D	D	D	D	D	D	D
Establishments with 5 to 9 employees	-	-	-	-	-	-	-	-	-	-	-	-
Establishments with 10 to 19 employees	-	3	-	D	D	D	D	D	D	D	D	D
Establishments with 20 to 49 employees	9	1	1	D	D	D	D	D	D	D	D	D
Establishments with 50 to 99 employees	-	2	2	D	D	D	D	D	D	D	D	D
Establishments with 100 to 249 employees	-	2	2	D	D	D	D	D	D	D	D	D
Establishments with 250 to 499 employees	-	2	2	D	D	D	D	D	D	D	D	D
Establishments with 500 to 999 employees	-	3	3	D	D	D	D	D	D	D	D	D
Establishments with 1,000 to 2,499 employees	-	1	1	D	D	D	D	D	D	D	D	D
Establishments with 2,500 employees or more	-	7	7	47 526	2 904 583	16 285	31 713	715 698	7 918 159	4 902 717	13 450 692	608 402
Administrative records ²	-	-	-	-	-	-	-	-	-	-	-	-

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of the figures shown: 1-10 to 19 percent; 2-20 to 29 percent; 3-30 to 39 percent; 4-40 to 49 percent; 5-50 to 59 percent; 6-60 to 69 percent; 7-70 to 79 percent; 8-80 to 89 percent; 9-90 percent or more.

²Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Table 5. Industry Statistics by Industry and Primary Product Class Specialization: 1997

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

NAICS industry or product class code	Industry or primary product class	All establishments	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
336414	Guided missile & space vehicle mfg	22	52 158	3 156 221	18 722	36 483	824 117	8 582 966	5 598 036	14 791 466	637 729
3364141	Complete guided missiles	3	7 233	483 348	1 850	4 531	56 810	808 637	732 650	1 866 018	D
3364143	Research and development on complete guided missiles	4	D	D	D	D	D	D	D	D	D
3364147	Complete space vehicles (excluding propulsion systems)	7	D	D	D	D	D	D	D	D	D
3364149	Research and development on complete space vehicles	1	D	D	D	D	D	D	D	D	D
336414A	All other services on complete space vehicles	4	D	D	D	D	D	D	D	D	D

Table 6a. Products Statistics: 1997 and 1992

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

NAICS product code	Product	1997				1992			
		Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments		Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)			Quantity	Value (\$1,000)
336414	Guided missiles and space vehicles	N	X	X	12 671 414	N	X	X	13 972 083
3364141	Complete guided missiles	N	X	X	1 694 379	N	X	X	4 064 782
33641411	Complete guided missiles	N	X	X	1 694 379	N	X	X	N
3364141100	Complete guided missiles	5	X	X	1 694 379	11	X	X	4 064 782
3364143	Research and development on complete guided missiles	N	X	X	2 271 322	N	X	X	1 351 807
33641431	Research and development on complete guided missiles	N	X	X	2 271 322	N	X	X	N
3364143100	Research and development on complete guided missiles	5	X	X	2 271 322	12	X	X	1 351 807
3364145	Other services on complete guided missiles	N	X	X	D	N	X	X	1 354 797
33641451	Other services on complete guided missiles	N	X	X	D	N	X	X	N
3364145100	Other services on complete guided missiles	3	X	X	D	13	X	X	1 354 797
3364147	Complete space vehicles (excluding propulsion systems)	N	X	X	D	N	X	X	5 797 129
33641471	Complete space vehicles (excluding propulsion systems) for U.S. Government military customers	N	X	X	D	N	X	X	N
3364147101	Complete space vehicles (excluding propulsion systems) for U.S. Government military customers	7	X	X	D	8	X	X	4 409 424
33641472	Complete space vehicles (excluding propulsion systems) for other customers	N	X	X	D	N	X	X	N
3364147204	Complete space vehicles (excluding propulsion systems) for other customers	5	X	X	D	6	X	X	1 387 705
3364147Y	Complete space vehicles (excluding propulsion systems), nsk	N	X	X	-	N	X	X	N
3364147YV	Complete space vehicles (excluding propulsion systems), nsk	N	X	X	-	N	X	X	-
3364149	Research and development on complete space vehicles	N	X	X	781 841	N	X	X	588 239
33641491	Research and development on complete space vehicles	N	X	X	781 841	N	X	X	N
3364149101	Research and development on complete space vehicles for U.S. Government military customers	8	X	X	301 932	8	X	X	219 119
3364149104	Research and development on complete space vehicles for other customers	4	X	X	479 909	6	X	X	369 120
3364149Y	Research and development on complete space vehicles, nsk	N	X	X	-	N	X	X	N
3364149YV	Research and development on complete space vehicles, nsk	N	X	X	-	N	X	X	-
336414A	All other services on complete space vehicles	N	X	X	1 231 629	N	X	X	814 844
336414A1	All other services on complete space vehicles	N	X	X	1 231 629	N	X	X	N
336414A101	All other services on complete space vehicles for U.S. Government military customers	8	X	X	711 006	6	X	X	706 211
336414A104	All other services on complete space vehicles for other customers	6	X	X	520 623	6	X	X	108 633
336414AY	All other services on complete space vehicles, nsk	N	X	X	-	N	X	X	N
336414AYV	All other services on complete space vehicles, nsk	N	X	X	-	N	X	X	-
336414W	Guided missile and space vehicle manufacturing, nsk, total	N	X	X	9 646	N	X	X	485
336414WY	Guided missile and space vehicle manufacturing, nsk, total	N	X	X	9 646	N	X	X	N
336414WYV	Guided missile and space vehicle manufacturing, nsk, for nonadministrative-record establishments	N	X	X	9 646	N	X	X	485
336414WYVY	Guided missile and space vehicle manufacturing, nsk, for administrative-record establishments	N	X	X	-	N	X	X	-

Additional information is available for this item; see Appendix F.

@ Additional data are available for these codes at the aggregate U.S. level in the Current Industrial Report (CIR) series; see Appendix F for the CIR survey number and title.

\$ This product is primary to more than one industry; see Appendix F for a listing of the related product codes.

Note: For some establishments, data have been estimated from central unit values which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: P 10 to 19 percent estimated; Q 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Table 6b. Product Class Shipments for Selected States: 1997 and 1992

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 1997. For meaning of abbreviations and symbols, see introductory text. For explanations of terms, see appendixes]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)	
		1997	1992
3364141	COMPLETE GUIDED MISSILES		
	United States	1 694 379	4 064 782
3364143	RESEARCH AND DEVELOPMENT ON COMPLETE GUIDED MISSILES		
	United States	2 271 322	1 351 807
3364145	OTHER SERVICES ON COMPLETE GUIDED MISSILES		
	United States	D	1 354 797
3364147	COMPLETE SPACE VEHICLES (EXCLUDING PROPULSION SYSTEMS)		
	United States	D	5 797 129
3364149	RESEARCH AND DEVELOPMENT ON COMPLETE SPACE VEHICLES		
	United States	781 841	588 239
	California	671 145	454 747
336414A	ALL OTHER SERVICES ON COMPLETE SPACE VEHICLES		
	United States	1 231 629	814 844
	California	1 067 014	N

Additional information is available for this item; see Appendix F.
 @ Additional data are available for these codes at the aggregate U.S. level in the Current Industrial Report (CIR) series; see Appendix F for the CIR survey number and title.
 \$ This product is primary to more than one industry; see Appendix F for a listing of the related product codes.

Table 7. Materials Consumed by Kind: 1997 and 1992

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

NAICS material code	Material consumed	1997		1992	
		Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
336414	GUIDED MISSILE & SPACE VEHICLE MFG				
33641503	Guided missile and space vehicle engines and parts	X	429 341	X	620 965
33641501	Guided missile and space vehicle propulsion units and parts	X	D	X	D
33641900	Guided missile and space vehicle airframe parts	X	D	X	D
33422003	Radio communication systems and equipment, including airborne transmitters and receivers (microwave, UHF, VHF, etc.)	X	D	X	N
33451103	Navigational systems and equipment (NAV AIDS)	X	D	X	N
001900D5	Search, detection, tracking, and electronic communication systems and equipment (RADAR, SONAR, Optical)	X	D	X	N
33400025	Flight, navigational, airframe, and engine indicators, instruments, and clusters, including sensors, displays, etc.	X	D	X	N
001900B7	Resistors, capacitors, transformers, electron tubes, semiconductors, and other electronic components	X	D	X	D
00190070	Resin matrix composites	X	-	X	N
00190071	Other matrix composites, including ceramic, carbon, metal, etc.	X	D	X	8 413
33291209	Complete mechanical, hydraulic and pneumatic subassemblies	X	22 368	X	77 066
00190090	Fluid power products	X	6 978	X	26 550
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	D	X	13 263
33200063	Other fabricated metal products (except fluid power products and forgings)	X	D	X	D
33211101	Iron and steel forgings	X	D	X	D
33211201	Nonferrous forgings	X	-	X	D
33151001	Iron and steel castings (rough and semifinished)	X	D	X	N
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	X	D	X	N
33152003	Other nonferrous castings (rough and semifinished)	X	-	X	N
33100033	Metal shapes and forms, except castings, forgings, and fabricated metal products	X	D	X	12 689
32500045	Chemicals, all types (including propellants)	X	D	X	D
33510000	Special dies, tools, die sets, jigs, and fixtures, except cutting tools for machine tools	X	D	X	D
00970099	All other materials and components, parts, containers, and supplies	X	824 554	X	1 654 250
00971000	Materials, ingredients, containers, and supplies, n.s.k.	X	1 146 275	X	786 802

Additional information is available for this item; see Appendix F.

Note: For some establishments, data have been estimated from central unit values which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: P 10 to 19 percent estimated; a 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.