

TECHNICAL TABLE A-10

Unit response rates, by industry and survey form type: 2016

(Number)

Industry	NAICS code	Active reporting units ^a	Reporting units that met the response criteria ^b	Reporting units that met the response criteria (%)
All companies				
All industries	21–23, 31–33, 42–81	42,122	33,800	80.2
Manufacturing industries	31–33	17,779	14,250	80.2
Food	311	903	693	76.7
Beverages and tobacco products	312	275	227	82.5
Textiles, apparel, and leather products	313–16	645	496	76.9
Wood products	321	577	471	81.6
Paper	322	402	344	85.6
Printing and related support activities	323	923	748	81.0
Petroleum and coal products	324	187	152	81.3
Chemicals	325	2,291	1,871	81.7
Basic chemicals	3251	266	217	81.6
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	283	229	80.9
Pesticides, fertilizers, and other agricultural chemicals	3253	135	110	81.5
Pharmaceuticals and medicines	3254	781	665	85.1
Soaps, cleaning compounds, and toilet preparations	3256	348	275	79.0
Paints, coatings, adhesives, and other chemicals	3255, 3259	478	375	78.5
Plastics and rubber products	326	1,024	803	78.4
Nonmetallic mineral products	327	460	381	82.8
Primary metals	331	443	352	79.5
Fabricated metal products	332	1,921	1,567	81.6
Machinery	333	2,067	1,671	80.8
Agricultural implements	33311	233	186	79.8
Semiconductor machinery	333242	96	78	81.3
Engines, turbines, and power transmission equipment	3336	149	124	83.2
Other machinery	other 333	1,589	1,283	80.7
Computer and electronic products	334	1,844	1,411	76.5
Communications equipment	3342	225	174	77.3
Semiconductors and other electronic components	3344	522	419	80.3
Navigational, measuring, electromedical, and control instruments	3345	851	642	75.4
Electromedical, electrotherapeutic, and irradiation apparatuses	334510, 334517	195	139	71.3
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	120	97	80.8
Other measuring and controlling devices	other 3345	536	406	75.7
Other computer and electronic products	other 334	246	176	71.5
Electrical equipment, appliances, and components	335	683	542	79.4
Transportation equipment	336	1,137	915	80.5
Motor vehicles, bodies, trailers, and parts	3361–63	577	461	79.9
Aerospace products and parts	3364	255	214	83.9
Aircraft, aircraft engines, and aircraft parts	336411–13	213	181	85.0
Guided missiles, space vehicles, and related parts	336414–15, 336419	42	33	78.6

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Industry	NAICS code	Active reporting units ^a	Reporting units that met the response criteria ^b	Reporting units that met the response criteria (%)
Military armored vehicles, tanks, and tank components	336992	32	23	71.9
Other transportation equipment	other 336	273	217	79.5
Furniture and related products	337	659	537	81.5
Miscellaneous manufacturing	339	1,338	1,069	79.9
Medical equipment and supplies	3391	651	517	79.4
Other miscellaneous	3399	687	552	80.3
Nonmanufacturing industries	21–23, 42–81	24,343	19,550	80.3
Mining, extraction, and support activities	21	570	460	80.7
Utilities	22	167	149	89.2
Wholesale trade	42	3,403	2,746	80.7
Electronic shopping and electronic auctions	454111–12	380	299	78.7
Transportation and warehousing	48–49	803	640	79.7
Information	51	2,388	1,854	77.6
Publishing	511	984	764	77.6
Newspaper, periodical, book, and directory publishers	5111	426	340	79.8
Software publishers	5112	558	424	76.0
Telecommunications	517	264	212	80.3
Data processing, hosting, and related services	518	788	612	77.7
Other information	other 51	352	266	75.6
Finance and insurance	52	1,147	993	86.6
Real estate and rental and leasing	53	616	478	77.6
Lessors of nonfinancial intangible assets (except copyrighted works)	533	86	61	70.9
Other real estate and rental and leasing	other 53	530	417	78.7
Professional, scientific, and technical services	54	9,288	7,372	79.4
Architectural, engineering, and related services	5413	1,635	1,360	83.2
Computer systems design and related services	5415	2,058	1,544	75.0
Scientific research and development services	5417	3,307	2,552	77.2
Biotechnology research and development	541711	760	541	71.2
Physical, engineering, and life sciences (except biotechnology) research and development	541712	2,335	1,824	78.1
Social sciences and humanities research and development	541720	212	187	88.2
Other professional, scientific, and technical services	other 54	2,288	1,916	83.7
Health care services	621–23	2,120	1,772	83.6
Other nonmanufacturing	23, 44–45 (excluding 454111–12), 55–56, 624, 71–72, 81	3,461	2,787	80.5
Form BRDI-1 companies				
All industries	21–23, 31–33, 42–81	7,009	5,460	77.9
Manufacturing industries	31–33	4,187	3,417	81.6
Food	311	174	136	78.2
Beverages and tobacco products	312	25	20	80.0

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Industry	NAICS code	Active reporting units ^a	Reporting units that met the response criteria ^b	Reporting units that met the response criteria (%)
Textiles, apparel, and leather products	313-16	64	54	84.4
Wood products	321	24	23	95.8
Paper	322	42	34	81.0
Printing and related support activities	323	33	24	72.7
Petroleum and coal products	324	24	19	79.2
Chemicals	325	927	769	83.0
Basic chemicals	3251	130	110	84.6
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	63	45	71.4
Pesticides, fertilizers, and other agricultural chemicals	3253	18	15	83.3
Pharmaceuticals and medicines	3254	541	468	86.5
Soaps, cleaning compounds, and toilet preparations	3256	66	48	72.7
Paints, coatings, adhesives, and other chemicals	3255, 3259	109	83	76.1
Plastics and rubber products	326	229	183	79.9
Nonmetallic mineral products	327	62	53	85.5
Primary metals	331	76	60	78.9
Fabricated metal products	332	271	232	85.6
Machinery	333	545	451	82.8
Agricultural implements	33311	45	38	84.4
Semiconductor machinery	333242	30	25	83.3
Engines, turbine, and power transmission equipment	3336	33	26	78.8
Other machinery	other 333	437	362	82.8
Computer and electronic products	334	718	553	77.0
Communications equipment	3342	113	85	75.2
Semiconductors and other electronic components	3344	191	156	81.7
Navigational, measuring, electromedical, and control instruments	3345	325	248	76.3
Electromedical, electrotherapeutic, and irradiation apparatuses	334510, 334517	88	57	64.8
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	38	35	92.1
Other measuring and controlling devices	other 3345	199	156	78.4
Other computer and electronic products	other 334	89	64	71.9
Electrical equipment, appliances, and components	335	215	181	84.2
Transportation equipment	336	324	270	83.3
Motor vehicles, bodies, trailers, and parts	3361-63	183	145	79.2
Aerospace products and parts	3364	89	80	89.9
Aircraft, aircraft engines, and aircraft parts	336411-13	75	68	90.7
Guided missiles, space vehicles, and related parts	336414-15, 336419	14	12	85.7
Military armored vehicles, tanks, and tank components	336992	6	5	83.3
Other transportation equipment	other 336	46	40	87.0
Furniture and related products	337	45	34	75.6
Miscellaneous manufacturing	339	389	321	82.5

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Industry	NAICS code	Active reporting units ^a	Reporting units that met the response criteria ^b	Reporting units that met the response criteria (%)
Medical equipment and supplies	3391	252	207	82.1
Other miscellaneous	3399	137	114	83.2
Nonmanufacturing industries	21–23, 42–81	2,822	2,043	72.4
Mining, extraction, and support activities	21	54	39	72.2
Utilities	22	41	36	87.8
Wholesale trade	42	121	55	45.5
Electronic shopping and electronic auctions	454111–12	12	9	75.0
Transportation and warehousing	48–49	16	12	75.0
Information	51	790	623	78.9
Publishing	511	271	207	76.4
Newspaper, periodical, book, and directory publishers	5111	5	4	80.0
Software publishers	5112	266	203	76.3
Telecommunications	517	61	49	80.3
Data processing, hosting, and related services	518	389	323	83.0
Other information	other 51	69	44	63.8
Finance and insurance	52	101	76	75.2
Real estate and rental and leasing	53	13	9	69.2
Lessors of nonfinancial intangible assets (except copyrighted works)	533	3	3	100.0
Other real estate and rental and leasing	other 53	10	6	60.0
Professional, scientific, and technical services	54	1,492	1,048	70.2
Architectural, engineering, and related services	5413	216	159	73.6
Computer systems design and related services	5415	311	206	66.2
Scientific research and development services	5417	791	556	70.3
Biotechnology research and development	541711	207	116	56.0
Physical, engineering, and life sciences (except biotechnology) research and development	541712	565	424	75.0
Social sciences and humanities research and development	541720	19	16	84.2
Other professional, scientific, and technical services	other 54	174	127	73.0
Health care services	621–23	60	41	68.3
Other nonmanufacturing	23, 44–45 (excluding 454111–12), 55–56, 624, 71–72, 81	122	95	77.9
Form BRDI-1(S) companies				
All industries	21–23, 31–33, 42–81	35,113	28,340	80.7
Manufacturing industries	31–33	13,592	10,833	79.7
Food	311	729	557	76.4
Beverages and tobacco products	312	250	207	82.8
Textiles, apparel, and leather products	313–16	581	442	76.1
Wood products	321	553	448	81.0
Paper	322	360	310	86.1
Printing and related support activities	323	890	724	81.3
Petroleum and coal products	324	163	133	81.6

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Industry	NAICS code	Active reporting units ^a	Reporting units that met the response criteria ^b	Reporting units that met the response criteria (%)
Chemicals	325	1,364	1,102	80.8
Basic chemicals	3251	136	107	78.7
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	220	184	83.6
Pesticides, fertilizers, and other agricultural chemicals	3253	117	95	81.2
Pharmaceuticals and medicines	3254	240	197	82.1
Soaps, cleaning compounds, and toilet preparations	3256	282	227	80.5
Paints, coatings, adhesives, and other chemicals	3255, 3259	369	292	79.1
Plastics and rubber products	326	795	620	78.0
Nonmetallic mineral products	327	398	328	82.4
Primary metals	331	367	292	79.6
Fabricated metal products	332	1,650	1,335	80.9
Machinery	333	1,522	1,220	80.2
Agricultural implements	33311	188	148	78.7
Semiconductor machinery	333242	66	53	80.3
Engines, turbines, and power transmission equipment	3336	116	98	84.5
Other machinery	other 333	1,152	921	79.9
Computer and electronic products	334	1,126	858	76.2
Communications equipment	3342	112	89	79.5
Semiconductors and other electronic components	3344	331	263	79.5
Navigational, measuring, electromedical, and control instruments	3345	526	394	74.9
Electromedical, electrotherapeutic, and irradiation apparatuses	334510, 334517	107	82	76.6
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	82	62	75.6
Other measuring and controlling devices	other 3345	337	250	74.2
Other computer and electronic products	other 334	157	112	71.3
Electrical equipment, appliances, and components	335	468	361	77.1
Transportation equipment	336	813	645	79.3
Motor vehicles, bodies, trailers, and parts	3361–63	394	316	80.2
Aerospace products and parts	3364	166	134	80.7
Aircraft, aircraft engines, and aircraft parts	336411–13	138	113	81.9
Guided missiles, space vehicles, and related parts	336414–15, 336419	28	21	75.0
Military armored vehicles, tanks, and tank components	336992	26	18	69.2
Other transportation equipment	other 336	227	177	78.0
Furniture and related products	337	614	503	81.9
Miscellaneous manufacturing	339	949	748	78.8
Medical equipment and supplies	3391	399	310	77.7
Other miscellaneous	3399	550	438	79.6
Nonmanufacturing industries	21–23, 42–81	21,521	17,507	81.3
Mining, extraction, and support activities	21	516	421	81.6
Utilities	22	126	113	89.7

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Industry	NAICS code	Active reporting units ^a	Reporting units that met the response criteria ^b	Reporting units that met the response criteria (%)
Wholesale trade	42	3,282	2,691	82.0
Electronic shopping and electronic auctions	454111-12	368	290	78.8
Transportation and warehousing	48-49	787	628	79.8
Information	51	1,598	1,231	77.0
Publishing	511	713	557	78.1
Newspaper, periodical, book, and directory publishers	5111	421	336	79.8
Software publishers	5112	292	221	75.7
Telecommunications	517	203	163	80.3
Data processing, hosting, and related services	518	399	289	72.4
Other information	other 51	283	222	78.4
Finance and insurance	52	1,046	917	87.7
Real estate and rental and leasing	53	603	469	77.8
Lessors of nonfinancial intangible assets (except copyrighted works)	533	83	58	69.9
Other real estate and rental and leasing	other 53	520	411	79.0
Professional, scientific, and technical services	54	7,796	6,324	81.1
Architectural, engineering, and related services	5413	1,419	1,201	84.6
Computer systems design and related services	5415	1,747	1,338	76.6
Scientific research and development services	5417	2,516	1,996	79.3
Biotechnology research and development	541711	553	425	76.9
Physical, engineering, and life sciences (except biotechnology) research and development	541712	1,770	1,400	79.1
Social sciences and humanities research and development	541720	193	171	88.6
Other professional, scientific, and technical services	other 54	2,114	1,789	84.6
Health care services	621-23	2,060	1,731	84.0
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	3,339	2,692	80.6

NAICS = 2012 North American Industry Classification System.

^a Active reporting units are defined as reporting units of active companies that are in the scope of the survey (for-profit companies with locations in the United States, 5 or more employees, business activities in the survey year, and primary business activities in the NAICS codes listed above) after all of the data have been processed. Because of special handling requests made by company respondents, some sampled companies were mailed more than one form. For the calculation of the unit response rates, these reporting units remained disaggregated.

^b Reporting units were considered to have fulfilled the response criteria if they reported that they performed or funded R&D. If not, a reporting unit fulfilled the response criteria if they reported a value for worldwide sales or domestic sales, or if they reported a positive value for paid worldwide employees or paid domestic employees. Form type breakout is based on the status at the time of the initial mailout.

Note(s)

Companies were sent the detailed survey form (BRDI-1) if their R&D spending was at least \$1.0 million in 2014 or 2015 (except companies that did not respond in these prior 2 years). All other companies received an abbreviated form (BRDI-1(S)).

Source(s)

National Science Foundation, National Center for Science and Engineering Statistics, and U.S. Census Bureau, Business R&D and Innovation Survey, 2016.