

TABLE A-11. Unit response rates and percentage of companies performing R&D, by industry and type of survey form: 2007

Industry and company size	NAICS codes	All companies			
		Companies receiving a questionnaire	Companies responding to the survey	% of companies responding to the survey	companies reporting R&D
All industries	21–23, 31–33, 42, 44–81	31,766	25,652	80.8	37.0
Manufacturing industries	31–33	14,940	11,952	80.0	52.9
Food	311	814	655	80.5	53.1
Beverage and tobacco products	312	226	188	83.2	14.9
Textiles, apparel, and leather	313–16	596	444	74.5	32.9
Wood products	321	554	436	78.7	18.8
Paper, printing, and support activities	322, 323	686	553	80.6	28.0
Petroleum and coal products	324	131	100	76.3	47.0
Chemicals	325	1,551	1,260	81.2	72.5
Basic chemicals	3251	228	192	84.2	79.2
Resin, synthetic rubber, fibers, and filament	3252	219	175	79.9	56.0
Pharmaceuticals and medicines	3254	390	307	78.7	81.1
Other chemicals	other 325	714	586	82.1	70.6
Plastics and rubber products	326	889	742	83.5	57.7
Nonmetallic mineral products	327	435	351	80.7	38.2
Primary metals	331	386	322	83.4	42.5
Fabricated metal products	332	1,262	1,038	82.3	44.0
Machinery	333	1,515	1,239	81.8	64.0
Computer and electronic products	334	2,026	1,524	75.2	71.5
Computers and peripheral equipment	3341	243	182	74.9	70.9
Communications equipment	3342	394	279	70.8	76.7
Semiconductor and other electronic components	3344	598	464	77.6	64.9
Navigational, measuring, electromedical, and control instruments	3345	607	468	77.1	80.3
Other computer and electronic products	other 334	184	131	71.2	53.4
Electrical equipment, appliances, and components	335	729	558	76.5	66.8
Transportation equipment	336	1,067	848	79.5	51.7
Motor vehicles, trailers, and parts	3361–63	623	494	79.3	55.5
Aerospace products and parts	3364	203	159	78.3	48.4
Other transportation equipment	other 336	241	195	80.9	44.6
Furniture and related products	337	652	554	85.0	30.3
Miscellaneous manufacturing	339	1,344	1,089	81.0	53.8
Medical equipment and supplies	3391	583	480	82.3	66.3
Other miscellaneous manufacturing	other 339	761	609	80.0	44.0
Unclassified manufacturing	-	77	51	66.2	0.0

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		Companies receiving a questionnaire	Companies responding to the survey	% of companies responding to the survey	companies reporting R&D
Nonmanufacturing industries	21–23, 42, 44–81	16,826	13,700	81.4	23.1
Mining, extraction, and support activities	21	437	369	84.4	10.6
Utilities	22	121	95	78.5	40.0
Construction	23	1,404	1,183	84.3	3.1
Wholesale trade	42	1,595	1,319	82.7	29.9
Retail trade	44, 45	1,244	1,039	83.5	5.8
Transportation and warehousing	48, 49	374	309	82.6	10.0
Information	51	2,372	1,790	75.5	42.2
Publishing	511	1,060	787	74.2	62.1
Newspaper, periodical, book, and directory	5111	231	187	81.0	15.0
Software	5112	829	600	72.4	76.8
Telecommunications	517	417	309	74.1	18.4
Wired and wireless (except satellite)					
telecommunications carriers	5171, 5172	227	176	77.5	15.9
Satellite telecommunications	5174	59	40	67.8	10.0
Other telecommunications	other 517	131	93	71.0	26.9
Internet service providers, Web search portals, and data-processing services	518	501	391	78.0	44.5
Internet service providers and Web search portals	5181	155	124	80.0	36.3
Data-processing, hosting, and related services	5182	346	267	77.2	48.3
Other information	other 51	394	303	76.9	11.9
Finance, insurance, and real estate	52, 53	945	793	83.9	8.1
Professional, scientific, and technical services	54	4,194	3,449	82.2	44.0
Architectural, engineering, and related services	5413	817	708	86.7	23.3
Computer systems design and related services	5415	1,315	1,019	77.5	56.7
Scientific R&D services	5417	1,178	955	81.1	71.6
Other professional, scientific, and technical services	other 54	884	767	86.8	11.6
Health care services	621–23	1,193	1,060	88.9	9.9
Other nonmanufacturing ^a	55, 56, 61, 624, 71, 72, 81	2,761	2,182	79.0	5.4
Unclassified nonmanufacturing	-	186	112	60.2	0.0

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Industry and company size	NAICS codes	All companies			
		Companies receiving a questionnaire	Companies responding to the survey	% of companies responding to the survey	companies reporting R&D
Company size (employees)					
All companies	-	31,766	25,652	80.8	37.0
5-24	-	10,540	8,626	81.8	12.7
25-49	-	4,709	3,836	81.5	34.1
50-99	-	4,791	3,893	81.3	44.1
100-249	-	5,150	4,132	80.2	52.4
250-499	-	2,630	2,018	76.7	57.5
500-999	-	1,567	1,237	78.9	60.1
1,000-4,999	-	1,673	1,310	78.3	66.7
5,000-9,999	-	308	258	83.8	70.5
10,000-24,999	-	232	197	84.9	73.6
25,000 or more	-	166	145	87.3	64.1

TABLE A-11. Unit response rates and percentage of companies performing R&D, by industry and type of survey form: 2007

Industry and company size	NAICS codes	Top 500 R&D-performing companies			
		Companies receiving a questionnaire	Companies responding to the survey	% of companies responding to the survey	companies reporting R&D
All industries	21–23, 31–33, 42, 44–81	500	431	86.2	99.1
Manufacturing industries	31–33	363	307	84.6	98.7
Food	311	15	14	93.3	92.9
Beverage and tobacco products	312	1	1	100.0	100.0
Textiles, apparel, and leather	313–16	1	1	100.0	100.0
Wood products	321	0	0	–	–
Paper, printing, and support activities	322, 323	7	6	85.7	100.0
Petroleum and coal products	324	4	4	100.0	100.0
Chemicals	325	105	95	90.5	100.0
Basic chemicals	3251	10	10	100.0	100.0
Resin, synthetic rubber, fibers, and filament	3252	2	2	100.0	100.0
Pharmaceuticals and medicines	3254	76	66	86.8	100.0
Other chemicals	other 325	17	17	100.0	100.0
Plastics and rubber products	326	4	4	100.0	100.0
Nonmetallic mineral products	327	3	3	100.0	100.0
Primary metals	331	3	3	100.0	100.0
Fabricated metal products	332	3	2	66.7	100.0
Machinery	333	25	21	84.0	100.0
Computer and electronic products	334	119	86	72.3	96.5
Computers and peripheral equipment	3341	16	12	75.0	100.0
Communications equipment	3342	21	16	76.2	93.8
Semiconductor and other electronic components	3344	42	30	71.4	93.3
Navigational, measuring, electromedical, and control instruments	3345	36	26	72.2	100.0
Other computer and electronic products	other 334	4	2	50.0	100.0
Electrical equipment, appliances, and components	335	7	7	100.0	100.0
Transportation equipment	336	46	43	93.5	100.0
Motor vehicles, trailers, and parts	3361–63	29	28	96.6	100.0
Aerospace products and parts	3364	12	11	91.7	100.0
Other transportation equipment	other 336	5	4	80.0	100.0
Furniture and related products	337	2	2	100.0	100.0
Miscellaneous manufacturing	339	18	15	83.3	100.0
Medical equipment and supplies	3391	14	11	78.6	100.0
Other miscellaneous manufacturing	other 339	4	4	100.0	100.0
Unclassified manufacturing	-	0	0	–	–

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Industry and company size	NAICS codes	Top 500 R&D-performing companies			
		Companies receiving a questionnaire	Companies responding to the survey	% of companies responding to the survey	companies reporting R&D
Nonmanufacturing industries	21–23, 42, 44–81	137	124	90.5	100.0
Mining, extraction, and support activities	21	3	3	100.0	100.0
Utilities	22	1	1	100.0	100.0
Construction	23	1	1	100.0	100.0
Wholesale trade	42	0	0	–	–
Retail trade	44, 45	4	4	100.0	100.0
Transportation and warehousing	48, 49	0	0	–	–
Information	51	53	48	90.6	100.0
Publishing	511	36	34	94.4	100.0
Newspaper, periodical, book, and directory	5111	2	2	100.0	100.0
Software	5112	34	32	94.1	100.0
Telecommunications	517	9	7	77.8	100.0
Wired and wireless (except satellite)					
telecommunications carriers	5171, 5172	6	4	66.7	100.0
Satellite telecommunications	5174	0	0	–	–
Other telecommunications	other 517	3	3	100.0	100.0
Internet service providers, Web search portals, and data-processing services	518	6	6	100.0	100.0
Internet service providers and Web search portals	5181	2	2	100.0	100.0
Data-processing, hosting, and related services	5182	4	4	100.0	100.0
Other information	other 51	2	1	50.0	100.0
Finance, insurance, and real estate	52, 53	8	8	100.0	100.0
Professional, scientific, and technical services	54	64	57	89.1	100.0
Architectural, engineering, and related services	5413	9	8	88.9	100.0
Computer systems design and related services	5415	18	15	83.3	100.0
Scientific R&D services	5417	35	32	91.4	100.0
Other professional, scientific, and technical services	other 54	2	2	100.0	100.0
Health care services	621–23	2	2	100.0	100.0
Other nonmanufacturing ^a	55, 56, 61, 624, 71, 72, 81	1	0	0.0	–
Unclassified nonmanufacturing	-	0	0	–	–

TABLE A-11. Unit response rates and percentage of companies performing R&D, by industry and type of survey form: 2007

Industry and company size	NAICS codes	Top 500 R&D-performing companies			
		Companies receiving a questionnaire	Companies responding to the survey	% of companies responding to the survey	companies reporting R&D
Company size (employees)					
All companies	-	500	431	86.2	99.1
5-24	-	0	0	-	-
25-49	-	0	0	-	-
50-99	-	2	2	100.0	100.0
100-249	-	19	17	89.5	100.0
250-499	-	21	18	85.7	100.0
500-999	-	55	46	83.6	97.8
1,000-4,999	-	178	143	80.3	98.6
5,000-9,999	-	62	53	85.5	100.0
10,000-24,999	-	87	82	94.3	100.0
25,000 or more	-	76	70	92.1	98.6

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Industry and company size	NAICS codes	All companies			
		Companies receiving a questionnaire	Companies responding to the survey	% of companies responding to the survey	companies reporting R&D
Form RD-1					
All industries	21-23, 31-33, 42, 44-81	3,395	2,762	81.4	93.0
Manufacturing industries	31-33	1,860	1,529	82.2	95.6
Food	311	60	54	90.0	98.1
Beverage and tobacco products	312	12	10	83.3	80.0
Textiles, apparel, and leather	313-16	29	26	89.7	80.8
Wood products	321	8	7	87.5	100.0
Paper, printing, and support activities	322, 323	41	37	90.2	94.6
Petroleum and coal products	324	10	7	70.0	100.0
Chemicals	325	322	280	87.0	96.8
Basic chemicals	3251	60	52	86.7	98.1
Resin, synthetic rubber, fibers, and filament	3252	19	19	100.0	94.7
Pharmaceuticals and medicines	3254	180	148	82.2	95.9
Other chemicals	other 325	63	61	96.8	98.4
Plastics and rubber products	326	80	67	83.8	94.0
Nonmetallic mineral products	327	29	25	86.2	96.0
Primary metals	331	37	34	91.9	97.1
Fabricated metal products	332	63	52	82.5	94.2
Machinery	333	184	151	82.1	98.7
Computer and electronic products	334	542	408	75.3	94.9
Computers and peripheral equipment	3341	62	50	80.6	94.0
Communications equipment	3342	124	85	68.5	90.6
Semiconductor and other electronic components	3344	148	113	76.4	98.2
Navigational, measuring, electromedical, and control instruments	3345	188	144	76.6	95.8
Other computer and electronic products	other 334	20	16	80.0	87.5
Electrical equipment, appliances, and components	335	93	74	79.6	95.9
Transportation equipment	336	183	157	85.8	94.9
Motor vehicles, trailers, and parts	3361-63	117	103	88.0	94.2
Aerospace products and parts	3364	42	34	81.0	97.1
Other transportation equipment	other 336	24	20	83.3	95.0
Furniture and related products	337	20	19	95.0	100.0
Miscellaneous manufacturing	339	147	121	82.3	95.9
Medical equipment and supplies	3391	111	91	82.0	94.5
Other miscellaneous manufacturing	other 339	36	30	83.3	100.0
Unclassified manufacturing	-	0	0	-	-

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Industry and company size	NAICS codes	All companies			
		Companies receiving a questionnaire	Companies responding to the survey	% of companies responding to the survey	companies reporting R&D
Nonmanufacturing industries	21–23, 42, 44–81	1,535	1,233	80.3	89.9
Mining, extraction, and support activities	21	19	17	89.5	88.2
Utilities	22	17	13	76.5	84.6
Construction	23	13	13	100.0	69.2
Wholesale trade	42	114	90	78.9	96.7
Retail trade	44, 45	18	16	88.9	81.3
Transportation and warehousing	48, 49	9	8	88.9	87.5
Information	51	345	262	75.9	91.6
Publishing	511	243	186	76.5	93.0
Newspaper, periodical, book, and directory	5111	12	10	83.3	90.0
Software	5112	231	176	76.2	93.2
Telecommunications	517	30	21	70.0	81.0
Wired and wireless (except satellite)					
telecommunications carriers	5171, 5172	17	13	76.5	76.9
Satellite telecommunications	5174	2	1	50.0	100.0
Other telecommunications	other 517	11	7	63.6	85.7
Internet service providers, Web search portals, and data-processing services	518	55	46	83.6	89.1
Internet service providers and Web search portals	5181	10	9	90.0	88.9
Data-processing, hosting, and related services	5182	45	37	82.2	89.2
Other information	other 51	17	9	52.9	100.0
Finance, insurance, and real estate	52, 53	60	50	83.3	62.0
Professional, scientific, and technical services	54	872	711	81.5	91.6
Architectural, engineering, and related services	5413	94	75	79.8	86.7
Computer systems design and related services	5415	241	185	76.8	91.4
Scientific R&D services	5417	484	407	84.1	94.8
Other professional, scientific, and technical services	other 54	53	44	83.0	70.5
Health care services	621–23	12	10	83.3	90.0
Other nonmanufacturing ^a	55, 56, 61, 624, 71, 72, 81	56	43	76.8	81.4
Unclassified nonmanufacturing	-	0	0	-	-

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Industry and company size	NAICS codes	All companies			
		Companies receiving a questionnaire	Companies responding to the survey	% of companies responding to the survey	companies reporting R&D
Company size (employees)	-	3,395	2,762	81.4	93.0
5-24	-	100	69	69.0	81.2
25-49	-	263	215	81.7	93.5
50-99	-	405	320	79.0	91.6
100-249	-	592	478	80.7	92.5
250-499	-	423	335	79.2	93.7
500-999	-	438	358	81.7	93.3
1,000-4,999	-	760	619	81.4	94.0
5,000-9,999	-	173	148	85.5	94.6
10,000-24,999	-	139	127	91.4	96.9
25,000 or more	-	102	93	91.2	91.4

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Industry and company size	NAICS codes	All companies			
		Companies receiving a questionnaire	Companies responding to the survey	% of companies responding to the survey	companies reporting R&D
Form RD-1A					
All industries	21-23, 31-33, 42, 44-81	28,371	22,890	80.7	30.2
Manufacturing industries	31-33	13,080	10,423	79.7	46.6
Food	311	754	601	79.7	49.1
Beverage and tobacco products	312	214	178	83.2	11.2
Textiles, apparel, and leather	313-16	567	418	73.7	29.9
Wood products	321	546	429	78.6	17.5
Paper, printing, and support activities	322, 323	645	516	80.0	23.3
Petroleum and coal products	324	121	93	76.9	43.0
Chemicals	325	1,229	980	79.7	65.5
Basic chemicals	3251	168	140	83.3	72.1
Resin, synthetic rubber, fibers, and filament	3252	200	156	78.0	51.3
Pharmaceuticals and medicines	3254	210	159	75.7	67.3
Other chemicals	other 325	651	525	80.6	67.4
Plastics and rubber products	326	809	675	83.4	54.1
Nonmetallic mineral products	327	406	326	80.3	33.7
Primary metals	331	349	288	82.5	36.1
Fabricated metal products	332	1,199	986	82.2	41.4
Machinery	333	1,331	1,088	81.7	59.2
Computer and electronic products	334	1,484	1,116	75.2	63.0
Computers and peripheral equipment	3341	181	132	72.9	62.1
Communications equipment	3342	270	194	71.9	70.6
Semiconductor and other electronic components	3344	450	351	78.0	54.1
Navigational, measuring, electromedical, and control instruments	3345	419	324	77.3	73.5
Other computer and electronic products	other 334	164	115	70.1	48.7
Electrical equipment, appliances, and components	335	636	484	76.1	62.4
Transportation equipment	336	884	691	78.2	41.8
Motor vehicles, trailers, and parts	3361-63	506	391	77.3	45.3
Aerospace products and parts	3364	161	125	77.6	35.2
Other transportation equipment	other 336	217	175	80.6	38.9
Furniture and related products	337	632	535	84.7	27.9
Miscellaneous manufacturing	339	1,197	968	80.9	48.6
Medical equipment and supplies	3391	472	389	82.4	59.6
Other miscellaneous manufacturing	other 339	725	579	79.9	41.1
Unclassified manufacturing	-	77	51	66.2	0.0

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Industry and company size	NAICS codes	All companies			
		Companies receiving a questionnaire	Companies responding to the survey	% of companies responding to the survey	companies reporting R&D
Nonmanufacturing industries	21–23, 42, 44–81	15,291	12,467	81.5	16.4
Mining, extraction, and support activities	21	418	352	84.2	6.8
Utilities	22	104	82	78.8	32.9
Construction	23	1,391	1,170	84.1	2.4
Wholesale trade	42	1,481	1,229	83.0	25.1
Retail trade	44, 45	1,226	1,023	83.4	4.6
Transportation and warehousing	48, 49	365	301	82.5	8.0
Information	51	2,027	1,528	75.4	33.8
Publishing	511	817	601	73.6	52.6
Newspaper, periodical, book, and directory	5111	219	177	80.8	10.7
Software	5112	598	424	70.9	70.0
Telecommunications	517	387	288	74.4	13.9
Wired and wireless (except satellite)					
telecommunications carriers	5171, 5172	210	163	77.6	11.0
Satellite telecommunications	5174	57	39	68.4	7.7
Other telecommunications	other 517	120	86	71.7	22.1
Internet service providers, Web search portals, and data-processing services	518	446	345	77.4	38.6
Internet service providers and Web search portals	5181	145	115	79.3	32.2
Data-processing, hosting, and related services	5182	301	230	76.4	41.7
Other information	other 51	377	294	78.0	9.2
Finance, insurance, and real estate	52, 53	885	743	84.0	4.4
Professional, scientific, and technical services	54	3,322	2,738	82.4	31.6
Architectural, engineering, and related services	5413	723	633	87.6	15.8
Computer systems design and related services	5415	1,074	834	77.7	49.0
Scientific R&D services	5417	694	548	79.0	54.4
Other professional, scientific, and technical services	other 54	831	723	87.0	8.0
Health care services	621–23	1,181	1,050	88.9	9.1
Other nonmanufacturing ^a	55, 56, 61, 624, 71, 72, 81	2,705	2,139	79.1	3.8
Unclassified nonmanufacturing	-	186	112	60.2	0.0

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Industry and company size	NAICS codes	All companies			
		Companies receiving a questionnaire	Companies responding to the survey	% of companies responding to the survey	companies reporting R&D
Company size (employees)					
All companies	-	28,371	22,890	80.7	30.2
5-24	-	10,440	8,557	82.0	12.1
25-49	-	4,446	3,621	81.4	30.6
50-99	-	4,386	3,573	81.5	39.9
100-249	-	4,558	3,654	80.2	47.2
250-499	-	2,207	1,683	76.3	50.3
500-999	-	1,129	879	77.9	46.5
1,000-4,999	-	913	691	75.7	42.3
5,000-9,999	-	135	110	81.5	38.2
10,000-24,999	-	93	70	75.3	31.4
25,000 or more	-	64	52	81.3	15.4

- = not applicable.

^a Estimates for management of companies and enterprises (NAICS 55), formerly shown separately, now are included in other nonmanufacturing.

NOTES: The method used to assign industry classifications has changed; industry-specific estimates are not directly comparable with those for years prior to 2004. The calculation of the percent of companies responding to the survey was based on all companies responding to the survey. It excludes companies for which total R&D expenditure data were imputed. Mathematically, the percentage was calculated by dividing the number of companies that received a questionnaire (indicated in the previous column) into the number of companies that returned a response or questionnaire regardless of the data or information supplied in the response or on the questionnaire. Companies that were missing or had an incomplete North American Classification System (NAICS) code at the time of sampling were assigned to an "unclassified" industry category temporarily. If an unclassified company reported R&D expenditures, its primary industrial activity was investigated and a NAICS code was assigned during statistical processing. The total "number of companies receiving a questionnaire" may be smaller than the number of "companies selected for the sample" in table A-1 because some companies selected for the survey went out of business or were merged with other companies between sample selection and survey mail-out; that is, the sample was updated before actual mail-out took place. For definitions and more information about year-to-year comparability of the statistics, see technical notes and survey methodology.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Industrial Research and Development: 2007.