

TABLE A-2. Companies in the target population and selected for the sample, by industry and company size: 2014

Industry and company size	NAICS code	Companies in target population ^a	Companies selected for the sample		
			All companies	Noncertainties	Certainties
All industries	21-23, 31-33, 42-81	1,998,858	44,162	24,601	19,561
Manufacturing industries	31-33	145,735	18,903	9,801	9,102
Food	311	12,589	1,063	689	374
Beverages and tobacco products	312	2,563	401	271	130
Textiles, apparel, and leather products	313-16	7,023	738	450	288
Wood products	321	6,902	626	422	204
Paper	322	1,996	426	223	203
Printing and related support activities	323	11,622	809	542	267
Petroleum and coal products ^b	324	515	167	28	139
Chemicals	325	6,227	1,904	666	1,238
Basic chemicals	3251	914	319	103	216
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	626	225	70	155
Pesticides, fertilizers, and other agricultural chemicals	3253	373	119	38	81
Pharmaceuticals and medicines	3254	1,421	467	59	408
Soaps, cleaning compounds, and toilet preparations	3256	1,135	305	171	134
Paints, coatings, adhesives, and other chemicals	3255, 3259	1,758	469	225	244
Plastics and rubber products	326	6,638	1,051	536	515
Nonmetallic mineral products	327	5,668	653	410	243
Primary metals	331	2,528	541	266	275
Fabricated metal products	332	31,055	2,135	1,203	932
Machinery	333	13,734	2,134	1,050	1,084
Agricultural implements	33311	760	206	86	120
Semiconductor machinery	333295	137	69	14	55
Engines, turbines, and power transmission equipment	3336	546	158	60	98
Other machinery	other 333	12,291	1,701	890	811
Computer and electronic products	334	7,321	2,023	840	1,183
Communications equipment	3342	879	240	41	199
Semiconductors and other electronic components	3344	2,592	561	245	316
Navigational, measuring, electromedical, and control instruments	3345	2,704	881	382	499
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	423	194	72	122
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	333	119	22	97
Other measuring and controlling devices	other 3345	1,948	568	288	280
Other computer and electronic products	other 334	1,146	341	172	169
Electrical equipment, appliances, and components	335	3,224	740	370	370
Transportation equipment	336	6,205	1,084	416	668
Motor vehicles, bodies, trailers, and parts	3361-63	3,921	551	207	344
Aerospace products and parts	3364	968	263	87	176
Aircraft, aircraft engines, and aircraft parts	336411-13	916	229	87	142
Guided missiles, space vehicles, and related parts	336414, 336415, 336419	52	34	0	34
Military armored vehicles, tanks, and tank components	336992	42	25	D	D
Other transportation equipment	other 336	1,274	245	D	D
Furniture and related products	337	7,282	725	464	261

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Miscellaneous manufacturing	339	11,843	1,497	848	649
Medical equipment and supplies	3391	4,311	712	397	315
Other miscellaneous	3399	7,532	785	451	334
Unclassified	–	800	186	107	79
Nonmanufacturing industries	21–23, 42–81	1,853,123	25,259	14,800	10,459
Mining, extraction, and support activities ^b	21	9,740	850	505	345
Utilities	22	1,285	211	47	164
Wholesale trade	42	129,648	2,651	1,809	842
Electronic shopping and electronic auctions	454111–12	5,178	401	299	102
Transportation and warehousing	48–49	56,283	656	276	380
Information	51	26,192	2,636	1,318	1,318
Publishing	511	8,733	975	394	581
Newspaper, periodical, book, and directory publishers	5111	5,672	348	176	172
Software publishers	5112	3,061	627	218	409
Telecommunications	517	3,688	345	187	158
Data processing, hosting, and related services	518	3,703	723	359	364
Other information	other 51	10,068	593	378	215
Finance and insurance	52	66,013	1,007	442	565
Real estate and rental and leasing	53	57,799	619	283	336
Lessors of nonfinancial intangible assets (except copyrighted works)	533	866	94	4	90
Other real estate and rental and leasing	other 53	56,933	525	279	246
Professional, scientific, and technical services	54	223,014	8,798	3,785	5,013
Architectural, engineering, and related services	5413	32,579	1,488	750	738
Computer systems design and related services	5415	30,953	2,336	1,210	1,126
Scientific R&D services	5417	4,764	2,762	500	2,262
Biotechnology R&D	541711	1,368	889	179	710
Physical, engineering, and life sciences (except biotechnology) R&D	541712	3,077	1,613	294	1,319
Social sciences and humanities R&D	541720	319	260	27	233
Other professional, scientific, and technical services	other 54	154,718	2,212	1,325	887
Health care services	621–23	246,134	1,789	1,174	615
Other nonmanufacturing	23, 44–45 (excluding 454111–12), 55–56, 624, 71–72, 81	1,031,193	5,455	4,778	677
Unclassified	–	644	186	84	102
Company size (number of domestic employees)	–	–	–	–	–
All companies	–	1,998,858	44,162	24,601	19,561
< 5 ^c	–	125,349	2,178	1,395	783
5–9	–	847,791	7,124	6,335	789
10–24	–	627,382	8,194	6,788	1,406
25–49	–	217,337	5,988	4,182	1,806
50–99	–	99,124	5,807	2,946	2,861
100–249	–	52,660	6,239	1,896	4,343
250–499	–	14,971	3,221	546	2,675
500–999	–	7,113	2,091	260	1,831
1,000–4,999	–	5,542	2,307	200	2,107

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5,000–9,999	–	773	455	21	434
10,000–24,999	–	503	331	20	311
25,000 or more	–	313	227	12	215

D = data withheld to avoid disclosing operations of individual companies.

NAICS = 2012 North American Industry Classification System.

^a Estimates of the number of companies in the target population are based on the original sampling frame that was created to select the 2014 Business R&D and Innovation Survey (BRDIS) sample. These estimates do not include 37 R&D performers from the previous year's sample, which were not on the original sampling frame but were found during the survey's annual contact update procedures. These companies were added to the 2014 sample with certainty but are not reflected in the number of certainties selected for the sample.

^b Because of the widespread practice of the larger petroleum extraction and refining companies vertically integrating their activities, petroleum refineries (NAICS 32411) and oil and gas extraction (NAICS 211) were combined during sampling.

^c This category includes companies that are represented on the sampling frame as having missing or fewer than five paid employees, but these companies are in scope to BRDIS because they have at least \$250,000 for annual payroll.

NOTES: Certainties are companies whose probability of selection is one based on prior-year R&D expenditures equal to or greater than \$3 million and also others included in the sample for analytical purposes (analytical certainties). Noncertainties are companies whose probability of selection is less than one. Companies that were missing or had an incomplete 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 sample size reflects the time between sample selection and survey mailout; that is, the sample was updated before the actual mailout took place.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, and U.S. Census Bureau, Business R&D and Innovation Survey, 2014