

TABLE A-2. Companies in the target population and selected for the sample, by industry and company size: 2012

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	1,971,731	43,655	24,370	19,285
Manufacturing industries	31-33	146,283	19,005	9,874	9,131
Food	311	12,252	1,022	559	463
Beverage and tobacco products	312	2,036	200	78	122
Textile, apparel, and leather products	313-16	7,133	711	428	283
Wood products	321	7,105	659	443	216
Paper	322	2,079	409	218	191
Printing and related support activities	323	12,311	831	559	272
Petroleum and coal products ^b	324	538	200	53	147
Chemicals	325	6,305	1,980	786	1,194
Basic chemicals	3251	944	304	129	175
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	621	249	112	137
Pesticide, fertilizer, and other agricultural chemicals	3253	363	113	19	94
Pharmaceuticals and medicines	3254	1,399	501	77	424
Soap, cleaning compound, and toilet preparations	3256	1,132	282	151	131
Paint, coating, adhesive, and other chemicals	3255, 3259	1,846	531	298	233
Plastics and rubber products	326	6,897	1,140	599	541
Nonmetallic mineral products	327	5,782	592	357	235
Primary metals	331	2,542	539	246	293
Fabricated metal products	332	30,984	2,136	1,232	904
Machinery	333	13,818	1,911	963	948
Agricultural implements	33311	747	224	105	119
Semiconductor machinery	333295	149	76	17	59
Engine, turbine, and power transmission equipment	3336	571	132	36	96
Other machinery	other 333	12,351	1,479	805	674
Computer and electronic products	334	7,496	2,111	879	1,232
Communications equipment	3342	889	275	79	196
Semiconductor and other electronic components	3344	2,739	619	275	344
Navigational, measuring, electromedical, and control instruments	3345	2,713	907	398	509
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	405	158	44	114
Search, detection, navigation, guidance, aeronautical, and nautical system and instrument	334511	323	114	19	95
Other measuring and controlling devices	other 3345	1,985	635	335	300
Other computer and electronic products	other 334	1,155	310	127	183
Electrical equipment, appliances, and components	335	3,261	810	422	388
Transportation equipment	336	6,114	1,117	468	649
Automobiles, bodies, trailers, and parts	3361-63	3,850	553	259	294
Aerospace products and parts	3364	968	260	76	184
Aircraft, aircraft engine, and aircraft parts	336411-13	901	208	75	133
Guided missile, space vehicle, and related parts	336414-15, 336419	67	52	1	51
Military armored vehicle, tank, and tank component	336992	41	30	0	30
Other transportation equipment	other 336	1,255	274	133	141
Furniture and related products	337	7,374	773	487	286
Miscellaneous	339	11,896	1,734	1,029	705
Medical equipment and supplies	3391	4,496	800	459	341
Other miscellaneous	3399	7,400	934	570	364
Unclassified	NA	360	130	68	62
Nonmanufacturing industries	21-23, 42-81	1,825,448	24,650	14,496	10,154
Mining, extraction, and support activities ^b	21	9,304	643	319	324
Utilities	22	1,271	261	94	167
Wholesale trade	42	131,346	2,889	1,940	949
Electronic shopping and electronic auctions ^c	454111-12	4,506	421	322	99
Transportation and warehousing	48-49	54,920	565	279	286
Information	51	26,453	2,782	1,429	1,353
Publishing	511	9,201	1,089	503	586
Newspaper, periodical, book, and directory publishers	5111	6,023	407	262	145
Software publishers	5112	3,178	682	241	441
Telecommunications	517	3,814	441	254	187

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			All companies	Noncertainties	Certainties
Data processing, hosting, and related services	518	3,710	660	324	336
Other information	other 51	9,728	592	348	244
Finance and insurance	52	65,396	956	368	588
Real estate and rental and leasing	53	56,094	544	252	292
Lessors of nonfinancial intangible assets (except copyrighted works)	533	850	79	3	76
Other real estate and rental and leasing	other 53	55,244	465	249	216
Professional, scientific, and technical services	54	216,546	8,228	3,638	4,590
Architectural, engineering, and related services	5413	31,924	1,299	701	598
Computer systems design and related services	5415	28,787	2,040	1,164	876
Scientific research and development services	5417	4,614	2,941	481	2,460
Biotechnology research and development	541711	1,331	868	141	727
Physical, engineering, and life sciences (except biotechnology)	541712	2,954	1,805	316	1,489
Social sciences and humanities research and development	541720	329	268	24	244
Other professional, scientific, and technical services	other 54	151,221	1,948	1,292	656
Health care services	621-23	247,091	1,851	1,117	734
Other nonmanufacturing ^d	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	1,011,565	5,233	4,649	584
Unclassified	na	956	277	89	188
Company size (number of domestic employees)					
All companies	na	1,971,731	43,655	24,370	19,285
< 5 ^e	na	116,958	2,390	1,429	961
5-9	na	849,982	7,277	6,382	895
10-24	na	622,869	8,165	6,827	1,338
25-49	na	208,918	5,961	4,167	1,794
50-99	na	95,817	5,621	2,913	2,708
100-249	na	49,998	5,965	1,761	4,204
250-499	na	13,928	3,110	489	2,621
500-999	na	6,555	1,981	209	1,772
1,000-4,999	na	5,208	2,234	160	2,074
5,000-9,999	na	714	412	15	397
10,000-24,999	na	475	319	12	307
25,000 or more	na	309	220	6	214

na = not applicable.

NAICS = 2007 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 2012 Business R&D and Innovation Survey (BRDIS) sample. These estimates do not include 46 R&D performers from the previous year's sample that were not on the original sampling frame but were found during the survey's annual contact update procedures. These companies were added to the 2012 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 Estimates for mail-order houses (NAICS 454113), formerly included with electronic shopping (NAICS 454111) and electronic auctions (NAICS 454112), are now included in Other nonmanufacturing.

^d Estimates for construction (NAICS 23), other retail trade (NAICS 44-45, excluding 454111-12), and management of companies and enterprises (NAICS 55), formerly shown separately, now are included in Other nonmanufacturing.

^e This category includes companies that are represented on the sampling frame as having missing or fewer than 5 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 as well as 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 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, 2012.