

TABLE A-2. Companies in the target population and selected for the sample, by industry and company size: 2011

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	1,964,757	43,108	23,483	19,625
Manufacturing industries	31-33	146,124	19,129	9,966	9,163
Food	311	12,176	1,040	547	493
Beverage and tobacco products	312	1,920	266	148	118
Textile, apparel, and leather products	313-316	7,245	680	426	254
Wood products	321	7,251	695	482	213
Paper	322	2,117	448	223	225
Printing and related support activities	323	12,802	837	559	278
Petroleum and coal products ^b	324	533	185	53	132
Chemicals	325	6,318	2,003	745	1,258
Basic chemicals	3251	953	356	133	223
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	626	215	82	133
Pesticide, fertilizer, and other agricultural chemical	3253	374	132	49	83
Pharmaceuticals and medicines	3254	1,383	564	75	489
Soap, cleaning compound, and toilet preparation	3256	1,115	266	137	129
Paint, coating, adhesive, and other chemicals	3255, 3259	1,867	470	269	201
Plastics and rubber products	326	6,899	1,128	583	545
Nonmetallic mineral products	327	5,841	630	402	228
Primary metals	331	2,471	522	273	249
Fabricated metal products	332	30,299	2,049	1,165	884
Machinery	333	13,616	2,036	1,004	1,032
Agricultural implements	33311	716	221	107	114
Semiconductor machinery	333295	150	120	1	119
Engine, turbine, and power transmission equipment	3336	551	197	80	117
Other machinery	other 333	12,199	1,498	816	682
Computer and electronic products	334	7,395	2,110	887	1,223
Communications equipment	3342	872	315	109	206
Semiconductor and other electronic components	3344	2,705	589	255	334
Navigational, measuring, electromedical, and control instruments	3345	2,670	890	392	498
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	403	192	48	144
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	333	126	26	100
Other measuring and controlling devices	other 3345	1,934	572	318	254
Other computer and electronic products	other 334	1,148	316	131	185
Electrical equipment, appliances, and components	335	3,182	772	394	378
Transportation equipment	336	6,029	1,113	481	632
Motor vehicles, bodies, trailers, and parts	3361-63	3,823	570	255	315
Aerospace products and parts	3364	915	253	80	173
Aircraft, aircraft engine, and aircraft parts	336411-13	854	206	80	126
Guided missile, space vehicle, and related parts	336414, 336415, 336419	61	47	0	47
Military armored vehicle, tank, and tank component	336992	41	24	1	23
Other transportation equipment	other 336	1,250	266	145	121
Furniture and related products	337	7,671	795	517	278
Miscellaneous manufacturing	339	11,980	1,706	1,019	687
Medical equipment and supplies	3391	4,527	768	433	335

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Other miscellaneous	3399	7,453	938	586	352
Unclassified	–	379	114	58	56
Nonmanufacturing industries	21–23, 42–81	1,818,633	23,979	13,517	10,462
Mining, extraction, and support activities ^b	21	8,886	742	472	270
Utilities	22	1,240	204	35	169
Wholesale trade	42	131,603	2,724	1,847	877
Electronic shopping and electronic auctions ^c	454111–12	4,234	411	290	121
Transportation and warehousing	48–49	53,548	500	273	227
Information	51	26,531	2,603	1,325	1,278
Publishing	511	9,453	1,131	550	581
Newspaper, periodical, book, and directory publishers	5111	6,258	433	300	133
Software publishers	5112	3,195	698	250	448
Telecommunications	517	3,869	380	200	180
Data processing, hosting, and related services	518	3,740	545	208	337
Other information	other 51	9,469	547	367	180
Finance and insurance	52	66,403	806	372	434
Real estate and rental and leasing	53	56,396	513	259	254
Lessors of nonfinancial intangible assets (except copyrighted works)	533	831	67	3	64
Other real estate and rental and leasing	other 53	55,565	446	256	190
Professional, scientific, and technical services	54	215,017	7,269	2,703	4,566
Architectural, engineering, and related services	5413	32,720	1,224	703	521
Computer systems design and related services	5415	27,897	1,759	915	844
Scientific research and development services	5417	4,465	2,999	316	2,683
Biotechnology research and development	541711	1,181	839	116	723
Physical, engineering, and life sciences (except biotechnology) research and development	541712	2,973	1,899	192	1,707
Social sciences and humanities research and development	541720	311	261	8	253
Other professional, scientific, and technical services	other 54	149,935	1,287	769	518
Health care services	621–23	244,690	1,668	1,124	544
Other nonmanufacturing ^d	23, 44–45 (excluding 454111–12), 55–56, 624, 71–72, 81	1,008,646	6,197	4,668	1,529
Unclassified	–	1,439	342	149	193
Company size (number of domestic employees)	–	–	–	–	–
All companies	–	1,964,757	43,108	23,483	19,625
< 5 ^e	–	112,876	2,048	1,115	933
5–9	–	835,302	6,948	5,915	1,033
10–24	–	639,861	8,410	6,878	1,532
25–49	–	205,972	5,843	4,098	1,745
50–99	–	93,005	5,419	2,846	2,573
100–249	–	51,251	6,132	1,792	4,340
250–499	–	13,585	3,117	458	2,659
500–999	–	6,264	1,944	183	1,761
1,000–4,999	–	5,158	2,251	166	2,085

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5,000–9,999	–	704	411	17	394
10,000–24,999	–	482	331	12	319
25,000 or more	–	297	254	3	251

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 2011 BRDIS sample. These estimates do not include 42 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 2011 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 five paid employees, but these companies are in-scope to Business R&D and Innovation Survey 2011 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 codes 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, 2011.