

TABLE A-5. Companies in the target population and selected for the sample, by industry and company size: 2010

Industry and company size	NAICS codes	Companies in target population	Companies selected for sample		
			All companies	Noncertainties	Certainties
All industries	21–23, 31–33, 42–81	2,013,399	42,965	25,612	17,353
Manufacturing industries	31–33	152,088	19,308	10,179	9,129
Food	311	12,089	956	493	463
Beverage and tobacco products	312	1,802	239	130	109
Textiles, apparel, and leather products	313–316	7,579	682	415	267
Wood products	321	7,739	688	477	211
Paper	322	2,178	402	218	184
Printing and related support activities	323	13,880	833	576	257
Petroleum and coal products <sup>a</sup>	324	533	194	71	123
Chemicals	325	6,134	1,906	808	1,098
Basic chemicals	3251	945	313	137	176
Resin, synthetic rubber, fibers, and filaments	3252	638	220	88	132
Pesticide, fertilizer, and other agricultural chemical	3253	360	128	52	76
Pharmaceuticals and medicines	3254	1,185	460	65	395
Soap, cleaning compound, and toilet preparation	3256	1,087	280	165	115
Paint, coating, adhesive, and other chemical	3255, 3259	1,919	505	301	204
Plastics and rubber products	326	7,141	1,055	577	478
Nonmetallic mineral products	327	6,163	652	432	220
Primary metals	331	2,544	471	255	216
Fabricated metal products	332	31,937	1,903	1,183	720
Machinery	333	14,045	2,383	1,141	1,242
Agricultural implements	33311	724	223	116	107
Semiconductor machinery	333295	145	124	0	124
Engine, turbine, and power transmission equipment	3336	548	198	98	100
Other machinery	other 333	12,628	1,838	927	911
Computer and electronic products	334	7,615	2,230	897	1,333
Communications equipment	3342	914	318	118	200
Semiconductor and other electronic components	3344	2,793	567	233	334
Navigational, measuring, electromedical, and control instruments	3345	2,718	970	414	556
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	411	161	47	114
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments	334511	340	145	42	103
Other measuring and controlling instruments	other 3345	1,967	664	325	339
Computer and peripheral equipment and other computer and electronic products	other 334	1,190	375	132	243
Electrical equipment, appliances, and components	335	3,280	753	406	347
Transportation equipment	336	6,222	1,544	601	943
Automobiles, bodies, trailers, and parts	3361–3363	3,989	892	382	510
Aerospace products and parts	3364	917	255	84	171
Aircraft, aircraft engine, and aircraft parts	336411–336413	857	210	83	127
Guided missile, space vehicle, and related parts	336414, 336415, 336419	60	45	1	44
Military armored vehicle, tank, and tank components	336992	38	19	0	19
Other transportation equipment	other 336	1,278	378	135	243
Furniture and related products	337	8,559	790	510	280
Miscellaneous manufacturing	339	12,371	1,512	928	584
Medical equipment and supplies	3391	4,550	680	405	275
Other miscellaneous manufacturing	3399	7,821	832	523	309
Unclassified		277	115	61	54
Nonmanufacturing industries	21–23, 42–81	1,861,311	23,657	15,433	8,224
Mining, extraction, and support activities <sup>a</sup>	21	9,033	725	480	245
Utilities	22	1,226	227	87	140
Construction	23	226,079	1,559	996	563
Wholesale trade	42	135,506	2,695	1,829	866
Retail trade	44, 45	256,059	3,346	2,949	397
Electronic shopping and electronic auctions <sup>b</sup>	454111, 454112	4,049	370	278	92
Other retail trade	other 44, 45	252,010	2,976	2,671	305
Transportation and warehousing	48, 49	54,625	463	256	207
Information	51	27,436	2,586	1,329	1,257

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			All companies	Noncertainties	Certainties
Publishing	511	9,950	1,146	577	569
Newspaper, periodical, book, and directory publishers	5111	6,662	425	294	131
Software publishers	5112	3,288	721	283	438
Telecommunications	517	4,088	273	101	172
Data processing, hosting, and related services	518	3,850	633	326	307
Other information	other 51	9,548	534	325	209
Finance and insurance	52	68,366	786	348	438
Real estate and rental and leasing	53	58,122	460	279	181
Professional, scientific, and technical services	54	219,273	5,474	3,106	2,368
Architectural, engineering, and related services	5413	35,033	1,092	705	387
Computer systems design and related services	5415	27,578	1,517	1,010	507
Scientific R&D services <sup>c</sup>	5417	4,608	1,687	631	1,056
Biotechnology R&D	541711	1,202	603	217	386
Physical, engineering, and life sciences (except biotechnology) R&D	541712	3,078	879	349	530
Social sciences and humanities R&D	541720	328	205	65	140
Other professional, scientific, and technical services	other 54	152,054	1,178	760	418
Health care services	621–623	244,993	1,691	1,089	602
Other nonmanufacturing	55–56, 624, 71–72, 81	559,152	3,324	2,513	811
Unclassified		1,441	321	172	149
Company size (employees)					
All companies	–	2,013,399	42,965	25,612	17,353
< 5 <sup>d</sup>	–	105,396	1,427	1,114	313
5–24	–	1,510,304	15,672	14,273	1,399
25–49	–	216,147	5,802	4,213	1,589
50–99	–	100,012	5,496	3,104	2,392
100–249	–	53,632	6,016	2,006	4,010
250–499	–	14,470	3,074	507	2,567
500–999	–	6,629	2,042	220	1,822
1,000–4,999	–	5,260	2,338	150	2,188
5,000–9,999	–	747	457	13	444
10,000–24,999	–	493	353	11	342
25,000 or more	–	309	288	1	287

NAICS = 2007 North American Industry Classification System.

<sup>a</sup> Because of widespread practice of 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.

<sup>b</sup> Estimates for mail-order houses (NAICS 454113), formerly included with electronic shopping (NAICS 454111) and electronic auctions (NAICS 454112), are now included in Other retail trade.

<sup>c</sup> Estimates for scientific R&D services (NAICS 5417) are split into three detailed industries (NAICS 541711, 541712, and 541720).

<sup>d</sup> This category includes companies that are represented on the sampling frame as missing or having fewer than five paid employees, but these companies are considered to be in scope because they have at least \$250,000 for annual payroll.

NOTES: Estimates of the number of companies in the target population are based on the original sampling frame that was created to select the 2010 Business R&D and Innovation Survey sample. The estimates in this table do not include 49 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 2010 sample with certainty and are also not reflected in the number of certainties selected for the sample. 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 sample for analytical purposes (analytical certainties). Noncertainties are companies whose probability of selection is less than one. Companies that were missing or had incomplete NAICS codes at time of sampling were assigned to "unclassified" industry category temporarily. If unclassified company reported R&D expenditures, its primary industrial activity was investigated, and NAICS code was assigned during statistical processing. Total sample size reflects time between sample selection and survey mailout; that is, 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, 2010.