

TABLE A-2

Companies in the target population and selected for the sample, by industry and company size: 2022

(Number of companies)

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	1,104,000	45,500	22,000	23,500
Manufacturing industries	31–33	93,000	18,000	8,600	9,200
Food	311	9,400	1,100	650	450
Beverage and tobacco products	312	3,800	350	250	150
Textile, apparel, and leather products	313–16	3,300	550	350	200
Wood products	321	4,700	550	400	150
Paper	322	1,400	350	200	150
Printing and related support activities	323	5,000	800	500	300
Petroleum and coal products ^b	324	350	150	20	150
Chemicals	325	5,300	2,200	500	1,700
Basic chemicals	3251	700	300	90	200
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	550	200	60	150
Pesticide, fertilizer, and other agricultural chemicals	3253	300	150	<i>N < 15</i>	150
Pharmaceuticals and medicines	3254	1,800	1,000	90	900
Soap, cleaning compound, and toilet preparations	3256	800	250	100	150
Paint, coating, adhesive, and other chemicals	3255, 3259	1,200	350	150	200
Plastics and rubber products	326	4,600	1,000	500	500
Nonmetallic mineral products	327	3,800	550	350	200
Primary metals	331	1,600	450	250	200
Fabricated metal products	332	19,000	2,200	1,400	850
Machinery	333	8,900	1,900	950	1,000
Agricultural implement	33311	550	200	50	150
Semiconductor machinery	333242	80	70	0	70
Engine, turbine, and power transmission equipment	3336	350	150	20	150
Other machinery	other 333	7,900	1,500	900	650
Computer and electronic products	334	4,500	1,600	450	1,200
Communications equipment	3342	550	200	30	200
Semiconductor and other electronic components	3344	1,700	450	150	300
Navigational, measuring, electromedical, and control instruments	3345	1,800	750	250	500
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	350	200	30	150
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments	334511	200	150	<i>N < 15</i>	150
Other measuring and controlling devices	other 3345	1,200	450	200	250
Other computer and electronic products	other 334	550	250	40	200
Electrical equipment, appliances, and components	335	2,100	600	300	300
Transportation equipment	336	4,700	1,200	450	750

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Motor vehicles, bodies, trailers, and parts	3361-63	3,000	700	300	400
Aerospace products and parts	3364	850	300	60	200
Aircraft, aircraft engine, and aircraft parts	336411-13	750	250	60	150
Guided missile, space vehicle, and related parts	336414, 336415, 336419	60	50	0	50
Military armored vehicle, tank, and tank components	336992	30	20	0	20
Other transportation	other 336	900	250	100	100
Furniture and related products	337	4,200	800	500	300
Miscellaneous	339	6,100	1,400	700	700
Medical equipment and supplies	3391	2,300	650	250	400
Other miscellaneous manufacturing	3399	3,800	700	400	300
Unclassified	-	100	70	<i>N < 15</i>	70
Nonmanufacturing industries	21-23, 42-81	1,008,000	25,000	13,500	11,500
Mining, quarrying, oil and gas extraction, and support activities	21	4,400	550	300	250
Utilities	22	800	200	40	150
Wholesale trade	42	62,500	5,100	3,700	1,500
Electronic shopping and electronic auctions	454111-12	5,800	450	350	100
Transportation and warehousing	48-49	37,000	550	150	400
Information	51	15,500	3,500	1,300	2,300
Publishing	511	5,200	1,300	500	750
Newspaper, periodical, book, and directory publishers	5111	2,000	350	200	150
Software publishers	5112	3,200	900	300	600
Telecommunications	517	2,500	450	250	200
Data processing, hosting, and related services	518	3,700	1,300	250	1,100
Other information	other 51	4,200	550	250	250
Finance and insurance	52	25,500	1,000	100	900
Real estate and rental and leasing	53	24,500	400	100	300
Lessors of nonfinancial intangible assets (except copyrighted works)	533	450	80	<i>N < 15</i>	70
Other real estate and rental and leasing	other 53	24,000	350	100	250
Professional, scientific, and technical services	54	100,000	7,500	4,000	3,500
Architectural, engineering, and related services	5413	17,500	2,700	1,600	1,100
Computer systems design and related services	5415	17,000	3,000	1,700	1,300
Scientific research and development services	5417	2,800	2,800	0	2,800
Research and development in nanotechnology	541713	150	150	0	150
Research and development in biotechnology (except nanobiotechnology)	541714	750	750	0	750
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	1,700	1,700	0	1,700

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			All companies	Noncertainties	Certainties
Research and development in the social sciences and humanities	541720	200	200	0	200
Other professional, scientific, and technical services ^c	other 54	65,500	1,700	650	1,100
Health care services	621-23	116,000	1,600	550	1,100
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	616,000	3,900	3,100	800
Unclassified	-	450	150	40	100
Company size (number of domestic employees)					
All companies	-	1,104,000	45,500	22,000	23,500
< 10 ^d	-	10,000	500	200	300
10-19	-	560,000	10,000	7,700	2,400
20-49	-	346,000	10,000	6,700	3,400
50-99	-	102,000	6,800	3,800	3,000
100-249	-	55,000	7,400	2,800	4,500
250-499	-	16,000	3,800	800	3,000
500-999	-	7,700	3,100	70	3,000
1,000-4,999	-	6,200	2,800	70	2,700
5,000-9,999	-	850	500	20	500
10,000-24,999	-	550	350	N < 15	300
25,000 or more	-	350	200	N < 15	200

NAICS = 2017 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 2022 Business Enterprise Research and Development (BERD) Survey sample. These estimates do not include 150 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 2022 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 Contains companies classified in scientific research and development services (NAICS 5417) that, as of sampling, were not fully classified to the level of detail in research and development in nanotechnology (NAICS 541713), research and development in biotechnology (except nanobiotechnology) (NAICS 541714), research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology) (NAICS 541715), or research and development in the social sciences and humanities (NAICS 541720).

^d This category includes companies that are represented on the sampling frame as having missing data, but these companies are in scope to the BERD Survey because they have at least \$500,000 in annual payroll.

Note(s):

Beginning in survey year 2019, counts reflect a change in rounding methodology. Detail may not add to total because of rounding. Certainties are companies whose probability of selection is 1 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 1. 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.

Source(s):

National Center for Science and Engineering Statistics and Census Bureau, Business Enterprise Research and Development Survey, 2022.