

TABLE 43. Importance of trade secrets for companies with and without R&D activity, by industry and company size: 2011  
(Percent)

Industry and company size	NAICS code	All companies			With R&D activity <sup>a</sup>			Without R&D activity		
		Very important	Somewhat important	Not important	Very important	Somewhat important	Not important	Very important	Somewhat important	Not important
All industries	21-23, 31-33, 42-81	6.4	7.3	86.3	42.8	21.9	35.3	4.7	6.6	88.7
Manufacturing industries	31-33	18.5	13.7	67.9	48.1	22.9	28.9	9.8	11.0	79.2
Food	311	28.7	13.5	57.7	52.6	17.8	29.5	22.7	12.5	64.8
Beverage and tobacco products	312	13.0	18.5	68.5	54.3	11.9	33.7	7.7	19.3	73.0
Textile, apparel, and leather products	313-316	16.1	13.1	70.8	41.2	21.8	37.0	11.4	11.4	77.2
Wood products	321	4.4	9.7	85.9	31.9	27.8	40.2	2.5	8.5	89.0
Paper	322	19.5	20.2	60.3	48.5	22.5	29.0	11.9	19.5	68.6
Printing and related support activities	323	8.1	7.8	84.1	28.5	28.5	43.1	7.0	6.8	86.2
Petroleum and coal products	324	49.8	8.8	41.5	88.9	8.0	3.1	13.5	9.5	77.0
Chemicals	325	48.7	16.6	34.6	67.9	18.0	14.2	25.0	15.0	60.1
Basic chemicals	3251	58.1	18.0	23.9	79.4	11.4	9.2	24.8	28.3	46.9
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	S	S	S	68.0	11.3	20.7	S	S	S
Pesticide, fertilizer, and other agricultural chemical	3253	53.3	7.9	38.8	85.6	11.0	3.4	24.2	5.1	70.6
Pharmaceuticals and medicines	3254	54.6	15.5	29.9	62.1	21.8	16.2	39.6	2.9	57.6
Soap, cleaning compound, and toilet preparation	3256	45.9	29.2	24.9	55.5	29.2	15.3	27.6	29.1	43.3
Paint, coating, adhesive, and other chemicals	3255, 3259	40.7	13.1	46.3	71.1	12.4	16.5	16.0	13.5	70.4
Plastics and rubber products	326	23.1	17.0	59.9	49.0	31.2	19.8	11.6	10.6	77.7
Nonmetallic mineral products	327	11.5	10.7	77.8	40.7	18.1	41.2	8.5	9.9	81.6
Primary metals	331	13.5	15.4	71.1	46.1	19.2	34.7	6.0	14.5	79.5
Fabricated metal products	332	10.2	12.4	77.4	39.1	22.6	38.3	6.5	11.1	82.3
Machinery	333	21.7	18.7	59.6	44.5	24.4	31.1	9.1	15.5	75.4
Agricultural implement	33311	27.4	17.6	55.0	36.0	28.5	35.4	19.8	S	72.3
Semiconductor machinery	333295	27.0	38.0	35.1	62.4	30.2	7.4	4.7	42.8	52.5
Engine, turbine, and power transmission equipment	3336	28.7	24.9	46.4	41.8	36.9	21.2	14.5	12.1	73.4
Other machinery	other 333	21.1	18.1	60.8	44.8	23.3	31.9	8.6	15.4	75.9
Computer and electronic products	334	42.1	15.0	42.9	59.3	17.1	23.6	19.7	12.3	68.0
Communications equipment	3342	33.2	28.0	S	42.7	39.0	18.3	S	S	S
Semiconductor and other electronic components	3344	43.4	12.2	44.3	70.6	8.9	20.5	20.0	15.1	64.9
Navigational, measuring, electromedical, and control instruments	3345	42.7	12.1	45.2	53.9	15.3	30.8	26.5	7.4	66.1
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	44.2	17.4	38.4	61.6	29.0	9.5	D	0.0	D
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	55.3	21.3	23.4	67.3	16.5	16.2	D	D	49.0
Other measuring and controlling device	other 3345	40.9	10.1	49.1	50.3	12.9	36.8	28.6	6.4	65.0
Other computer and electronic products	other 334	44.9	17.5	37.6	68.5	15.0	16.5	4.2	21.7	74.1
Electrical equipment, appliances, and components	335	24.9	19.9	55.1	37.4	33.1	29.5	11.1	5.4	83.5
Transportation equipment	336	16.1	17.1	66.8	34.9	28.7	36.4	7.2	11.5	81.3
Motor vehicles, bodies, trailers, and parts	3361, 3362, 3363	15.9	10.1	74.0	38.9	16.1	45.0	6.6	7.7	85.7

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Aerospace products and parts	3364	23.3	21.3	55.3	36.4	26.1	37.5	13.1	17.6	69.3
Aircraft, aircraft engine, and aircraft parts	336411-13	22.5	21.0	56.5	34.5	26.5	39.0	13.3	16.8	69.9
Guided missile, space vehicle, and related parts	336414-15, 336419	48.3	D	D	76.5	D	D	D	D	D
Military armored vehicle, tank, and tank component	336992	9.6	D	D	41.4	D	D	0.0	D	D
Other transportation equipment	other 336	12.9	32.5	54.6	25.6	56.4	18.0	6.0	19.5	74.5
Furniture and related products	337	10.8	9.7	79.5	32.7	24.9	42.4	8.9	8.3	82.8
Miscellaneous manufacturing	339	19.8	14.4	65.8	45.6	25.5	29.0	9.0	9.8	81.2
Medical equipment and supplies	3391	23.6	14.9	61.5	52.1	30.6	17.3	8.8	6.8	84.3
Other miscellaneous manufacturing	3399	17.4	14.1	68.5	40.3	21.3	38.3	9.1	11.4	79.5
Nonmanufacturing industries	21-23, 42-81	5.3	6.8	87.9	39.1	21.3	39.6	4.3	6.3	89.3
Mining, extraction, and support activities	21	5.0	4.3	90.8	54.8	16.6	28.6	2.7	3.7	93.6
Utilities	22	11.5	12.7	75.8	52.5	34.2	13.3	5.7	9.7	84.7
Wholesale trade	42	10.4	12.1	77.5	34.7	30.1	35.2	8.8	11.0	80.2
Electronic shopping and electronic auctions	454111-12	12.4	17.4	70.2	29.7	45.8	24.5	10.1	13.7	76.2
Transportation and warehousing	48-49	0.5	5.5	94.0	29.9	58.8	11.3	0.5	5.4	94.1
Information	51	21.3	14.5	64.2	51.9	18.0	30.1	11.3	13.4	75.3
Publishing	511	26.9	12.4	60.7	66.3	10.4	23.2	9.9	13.2	76.8
Newspaper, periodical, book, and directory publishers	5111	6.7	13.5	79.8	8.1	4.4	87.6	6.6	14.2	79.2
Software publishers	5112	70.2	10.0	19.8	77.7	11.6	10.7	41.9	4.0	54.2
Telecommunications	517	10.5	11.3	78.1	21.8	36.0	42.3	9.0	8.0	83.0
Data processing, hosting, and related services	518	26.7	26.4	46.9	46.2	25.1	28.7	11.0	27.4	61.6
Other information	other 51	16.6	13.4	70.0	33.7	22.1	44.2	13.6	11.8	74.6
Finance and insurance	52	9.1	8.0	82.8	32.1	1.9	66.0	7.9	8.4	83.8
Real estate and rental and leasing	53	1.6	2.8	95.6	95.9	2.2	1.9	0.7	2.8	96.5
Lessors of nonfinancial intangible assets (except copyrighted works)	533	50.7	1.4	47.8	78.1	D	D	49.4	0.6	50.0
Other real estate and rental and leasing	other 53	1.0	2.8	96.2	97.1	1.1	1.8	0.2	2.8	97.0
Professional, scientific, and technical services	54	10.8	11.1	78.0	47.1	25.2	27.8	6.5	9.5	84.0
Architectural, engineering, and related services	5413	12.9	10.7	76.3	47.6	17.8	34.5	8.1	9.8	82.1
Computer systems design and related services	5415	28.2	23.6	48.2	42.2	33.6	24.2	20.0	17.8	62.2
Scientific research and development services	5417	50.3	18.4	31.3	57.3	18.1	24.6	S	19.8	59.0
Biotechnology research and development	541711	58.8	16.2	25.0	62.9	17.3	19.8	S	S	S
Physical, engineering, and life sciences (except biotechnology) research and development	541712	49.5	19.3	31.2	55.9	18.2	25.9	20.4	24.3	55.3
Social sciences and humanities research and development	541720	17.3	19.9	62.9	21.0	24.7	54.3	15.5	17.6	66.9
Other professional, scientific, and technical services	other 54	5.9	8.7	85.4	49.0	19.1	32.0	4.5	8.4	87.2
Health care services	621-23	1.9	4.8	93.3	13.7	12.1	74.2	1.7	4.7	93.6
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	4.2	5.7	90.1	21.3	15.3	63.4	4.1	5.6	90.3

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		Very important	Somewhat important	Not important	Very important	Somewhat important	Not important	Very important	Somewhat important	Not important
All companies (number of domestic employees)	-	6.4	7.3	86.3	42.8	21.9	35.3	4.7	6.6	88.7
Small companies <sup>b</sup>										
5-499	-	6.3	7.3	86.5	41.9	22.2	36.0	4.7	6.6	88.7
5-99	-	5.9	7.0	87.0	41.4	22.5	36.0	4.5	6.4	89.1
5-49	-	5.6	6.7	87.7	40.7	21.5	37.8	4.3	6.1	89.6
5-9	-	4.9	5.7	89.4	36.6	19.6	43.8	3.9	5.2	90.8
10-24	-	5.5	7.1	87.4	44.9	23.0	32.1	4.1	6.5	89.3
25-49	-	7.8	8.2	84.1	40.3	21.8	37.9	5.8	7.3	86.9
50-99	-	9.5	11.6	78.9	46.3	29.4	24.2	7.0	10.3	82.7
100-249	-	12.3	13.2	74.5	44.6	21.0	34.4	8.0	12.1	79.9
250-499	-	17.8	10.5	71.7	43.8	17.9	38.2	11.1	8.6	80.2
Medium and large companies										
500-999	-	16.5	10.2	73.4	52.2	20.6	27.2	7.3	7.5	85.3
1,000-4,999	-	28.9	10.3	60.8	69.8	15.5	14.6	8.7	7.7	83.6
5,000-9,999	-	29.1	9.5	61.4	49.8	16.8	33.4	18.3	5.7	75.9
10,000-24,999	-	32.6	9.8	57.6	75.9	17.4	6.6	11.7	6.1	82.3
25,000 or more	-	55.1	15.2	29.7	77.6	11.4	11.0	29.1	19.6	51.3

D = data withheld to avoid disclosing operations of individual companies; S = data withheld as > 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS = 2007 North American Industry Classification System.

<sup>a</sup> Statistics are representative of companies located in the United States that performed or funded R&D.

<sup>b</sup> Upper bound based on U.S. Small Business Administration's definition of a small business; Business R&D and Innovation Survey does not include companies with fewer than five domestic employees.

NOTES: Industry classification based on dominant business code for domestic R&D performance where available. For companies that did not report business codes, classification used for sampling was assigned.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics and U.S. Census Bureau, Business R&D and Innovation Survey, 2011.