

TABLE 136. Importance of trade secrets for R&D-active and non-R&D-active companies, by industry: 2010  
(Percent)

Industry and company size	NAICS code	All companies			R&D-active companies <sup>a</sup>			Non-R&D-active companies		
		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	6.5	6.7	86.8	40.6	21.2	38.2	5.0	6.1	89.0
Manufacturing industries	31–33	17.9	14.4	67.7	43.3	24.4	32.4	9.9	11.3	78.8
Food	311	23.2	16.2	60.6	43.3	25.3	31.5	17.9	13.9	68.2
Beverage and tobacco products	312	15.4	13.7	70.9	50.3	37.8	11.9	13.2	12.2	74.7
Textiles, apparel, and leather products	313–316	11.9	23.0	65.1	26.2	52.5	21.3	7.7	14.3	78.0
Wood products	321	3.1	7.2	89.7	30.7	20.2	49.1	1.4	6.4	92.2
Paper	322	11.4	10.8	77.9	50.7	23.4	26.0	7.0	9.4	83.6
Printing and related support activities	323	9.4	11.2	79.3	22.0	23.6	54.4	8.5	10.3	81.3
Petroleum and coal products	324	33.1	8.0	58.9	65.5	17.7	16.8	12.9	D	D
Chemicals	325	44.4	23.9	31.7	55.5	28.2	16.3	28.1	17.6	54.3
Basic chemicals	3251	49.5	14.7	35.8	62.1	9.5	28.4	S	S	S
Resin, synthetic rubber, fibers, and filaments	3252	38.0	7.1	54.9	72.4	16.6	10.9	S	2.7	75.7
Pesticide, fertilizer, and other agricultural chemical	3253	31.5	34.0	S	62.6	D	D	S	38.1	S
Pharmaceuticals and medicines	3254	55.1	38.9	6.0	52.0	41.5	6.5	S	D	D
Soap, cleaning compound, and toilet preparation	3256	38.0	19.0	43.0	45.2	15.3	39.4	30.2	23.0	46.8
Paint, coating, adhesive, and other chemical	3255, 3259	37.7	20.0	42.2	59.7	24.6	15.8	16.7	15.7	67.6
Plastics and rubber products	326	17.8	18.1	64.1	41.3	25.6	33.1	9.6	15.4	75.0
Nonmetallic mineral products	327	16.8	12.9	70.3	48.9	21.6	29.5	10.6	11.2	78.3
Primary metals	331	18.5	15.9	65.6	42.0	27.2	30.7	14.1	13.8	72.1
Fabricated metal products	332	11.4	12.0	76.6	28.6	17.2	54.2	8.7	11.2	80.1
Machinery	333	23.5	16.4	60.0	45.4	20.9	33.7	10.8	13.8	75.4
Agricultural implement	33311	19.0	28.1	52.9	30.8	35.9	33.3	8.2	21.0	70.8
Semiconductor machinery	333295	55.8	25.8	18.4	64.5	25.4	10.1	D	D	56.7
Engine, turbine, and power transmission equipment	3336	38.9	12.6	48.5	79.0	10.8	10.2	5.5	14.2	80.3
Other machinery	other 333	22.5	15.8	61.6	43.6	20.3	36.1	11.1	13.4	75.5
Computer and electronic products	334	41.2	16.7	42.1	57.6	20.1	22.3	18.6	11.9	69.5
Communications equipment	3342	42.0	18.8	S	56.3	26.3	17.4	S	D	D
Semiconductor and other electronic components	3344	40.1	14.5	45.4	62.7	16.1	21.3	18.7	13.0	68.3
Navigational, measuring, electromedical, and control instruments	3345	45.7	19.9	34.4	58.1	21.6	20.2	23.4	16.8	59.8
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	55.8	11.4	32.9	66.9	14.5	18.5	D	D	71.4
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments	334511	34.2	42.8	22.9	39.0	47.4	13.6	D	D	S
Other measuring and controlling instruments	other 3345	45.6	17.5	36.9	61.0	16.5	22.5	24.2	18.9	56.9
Other computer and electronic products	other 334	35.4	13.6	51.0	50.7	18.1	31.2	15.6	7.8	76.6
Electrical equipment, appliances, and components	335	32.0	17.6	50.5	47.1	23.1	29.9	16.0	11.7	72.3
Transportation equipment	336	21.8	16.8	61.4	44.7	25.1	30.2	7.6	11.7	80.7
Automobiles, bodies, trailers, and parts	3361–3363	23.6	16.6	59.7	49.1	19.0	31.8	7.3	15.1	77.6
Aerospace products and parts	3364	S	S	S	39.3	S	24.0	S	S	S
Aircraft, aircraft engine, and aircraft parts	336411–336413	S	S	S	43.5	24.6	31.9	S	S	S
Guided missile, space vehicle, and related parts	336414, 336415, 336419	S	D	D	S	D	D	D	0.0	D
Military armored vehicle, tank, and tank components	336992	D	0.0	D	D	0.0	D	0.0	0.0	100.0
Other transportation	other 336	15.8	14.3	69.8	36.6	31.2	32.2	7.8	7.8	84.4
Furniture and related products	337	6.3	9.8	83.9	22.8	21.6	55.6	4.2	8.3	87.5

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Miscellaneous manufacturing	339	19.2	13.1	67.7	42.5	25.8	31.6	8.3	7.1	84.6
Medical equipment and supplies	3391	25.9	13.7	60.4	55.2	24.5	20.2	7.1	6.8	86.2
Other miscellaneous manufacturing	3399	15.2	12.7	72.2	31.6	27.0	41.4	8.9	7.2	83.9
Nonmanufacturing industries	21–23, 42–81	5.4	6.0	88.6	38.1	18.3	43.6	4.6	5.7	89.7
Mining, extraction, and support activities	21	9.1	5.5	85.4	37.4	3.4	59.2	6.7	5.7	87.6
Utilities	22	7.0	12.8	80.2	47.6	18.5	33.9	3.1	12.3	84.6
Construction	23	3.3	4.5	92.3	24.5	25.8	49.7	3.1	4.2	92.7
Wholesale trade	42	10.1	9.0	80.9	34.6	21.9	43.5	9.2	8.5	82.3
Retail trade	44, 45	3.4	5.7	90.9	49.3	4.2	46.4	3.2	5.7	91.1
Electronic shopping and electronic auctions	454111, 454112	21.4	15.9	62.7	79.2	8.4	12.4	16.2	16.6	67.2
Other retail trade	other 44, 45	3.1	5.6	91.3	34.1	2.1	63.8	3.0	5.6	91.4
Transportation and warehousing	48, 49	5.2	4.2	90.5	17.2	0.4	82.5	4.9	4.3	90.7
Information	51	19.4	14.9	65.6	49.9	24.3	25.8	11.3	12.5	76.2
Publishing	511	25.8	14.4	59.8	51.0	18.1	30.9	16.8	13.1	70.0
Newspaper, periodical, book, and directory publishers	5111	15.0	13.6	71.4	7.5	7.7	84.8	15.5	14.0	70.6
Software publishers	5112	52.3	16.5	31.2	59.8	20.2	20.0	29.5	5.2	65.3
Telecommunications	517	6.3	9.2	84.5	41.5	18.6	39.9	3.8	8.5	87.6
Data processing, hosting, and related services	518	34.1	20.8	45.0	56.2	22.1	21.7	20.5	20.1	59.5
Other information	other 51	12.4	15.6	72.0	43.4	S	S	7.1	11.6	81.4
Finance and insurance	52	4.6	5.9	89.4	27.5	S	69.9	3.9	6.0	90.0
Real estate and rental and leasing	53	5.2	5.0	89.7	63.4	D	D	5.2	5.0	89.8
Professional, scientific, and technical services	54	8.9	8.7	82.4	43.0	22.9	34.1	5.5	7.2	87.3
Architectural, engineering, and related services	5413	11.2	8.5	80.3	34.0	14.6	51.4	7.5	7.5	85.0
Computer systems design and related services	5415	24.6	18.2	57.2	45.3	27.8	26.9	12.3	12.5	75.2
Scientific R&D services	5417	45.8	16.6	37.6	59.6	18.0	22.5	S	S	S
Biotechnology R&D	541711	59.2	11.8	29.0	67.9	11.0	21.1	S	S	S
Physical, engineering, and life sciences (except biotechnology) R&D	541712	43.2	19.1	37.8	57.1	22.0	20.9	S	S	S
Social sciences and humanities R&D	541720	14.9	14.5	70.6	21.6	15.4	63.1	11.2	14.1	74.7
Other professional, scientific, and technical services	other 54	4.6	6.7	88.7	30.1	24.6	45.3	4.2	6.5	89.3
Health care services	621–623	2.2	3.3	94.6	26.7	0.7	72.6	1.8	3.3	94.9
Other nonmanufacturing	55, 56, 624, 71, 72, 81	5.5	6.1	88.3	30.7	15.8	53.4	5.3	6.0	88.7
All companies (number of employees)	–	6.5	6.7	86.8	40.6	21.2	38.2	5.0	6.1	89.0
Small companies (number of employees) <sup>b</sup>										
5–499	–	6.3	6.7	87.0	39.8	21.2	39.0	4.9	6.1	89.0
5–99	–	6.0	6.6	87.5	37.4	21.5	41.1	4.7	6.0	89.3
5–49	–	5.7	6.3	88.0	35.5	21.8	42.7	4.6	5.8	89.7
5–9	–	4.1	5.6	90.3	27.7	20.4	51.9	3.4	5.2	91.3
10–24	–	6.7	6.6	86.8	41.1	20.0	38.9	5.5	6.1	88.5
25–49	–	7.3	7.8	84.9	36.8	26.1	37.0	5.4	6.5	88.1
50–99	–	10.1	9.5	80.4	50.1	19.6	30.3	7.0	8.7	84.2
100–249	–	11.3	10.4	78.4	57.6	19.0	23.4	5.4	9.3	85.3
250–499	–	23.3	7.9	68.8	55.0	20.0	25.0	19.2	6.3	74.5

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Medium and large companies (number of employees)										
500–999	–	24.3	9.4	66.3	53.2	23.0	23.8	18.7	6.8	74.5
1,000–4,999	–	21.8	11.6	66.7	59.3	20.2	20.4	10.6	9.0	80.5
5,000–9,999	–	33.8	10.8	55.4	73.1	15.3	11.7	10.5	8.1	81.3
10,000–24,999	–	42.2	11.9	45.9	78.2	16.9	4.9	14.1	8.0	77.9
25,000 or more	–	61.1	8.7	30.2	84.5	8.7	6.8	35.0	8.7	56.3

D = data withheld to avoid disclosing operations of individual companies; S = data withheld because more than 50% of 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 United States that performed or funded R&D.

<sup>b</sup> Upper bound based on U.S. Small Business Administration's definition of small business; Business R&D and Innovation Survey (BRDIS) 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, 2010.