

TABLE 64. Companies that introduced new or significantly improved products new to the company's market or new only to the company, by industry, industry proportions, and company size: 2012–14 (Number and percent)

Industry and company size	NAICS code	New or significantly improved products (number)			New or significantly improved products (number)					
		Companies ^a	Yes ^b	No ^c	New to company's market			New only to company		
					Companies ^d	Yes	No	Companies ^d	Yes	No
All industries	21–23, 31–33, 42–81	1,266,982	118,894	1,148,088	118,894	69,109	49,791	118,894	77,763	41,136
Manufacturing industries	31–33	103,517	23,793	79,724	23,793	15,716	8,080	23,793	16,581	7,214
Food	311	9,116	1,717	7,398	1,717	1,037	680	1,717	1,109	608
Beverages and tobacco products	312	1,797	435	1,362	435	254	181	435	286	149
Textiles, apparel, and leather products	313–16	3,954	607	3,347	607	471	136	607	376	231
Wood products	321	4,797	482	4,315	482	351	131	482	262	220
Paper	322	1,162	211	951	211	165	46	211	145	66
Printing and related support activities	323	8,024	1,066	6,957	1,066	526	540	1,066	862	206
Petroleum and coal products	324	393	110	283	110	87	23	110	43	67
Chemicals	325	5,012	1,700	3,312	1,700	1,185	516	1,700	1,187	513
Basic chemicals	3251	595	210	385	210	175	35	210	157	53
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	472	148	323	148	107	41	148	97	51
Pesticides, fertilizers, and other agricultural chemicals	3253	264	67	197	67	50	17	67	60	7
Pharmaceuticals and medicines	3254	1,333	503	830	503	337	166	503	347	156
Soaps, cleaning compounds, and toilet preparations	3256	848	358	490	358	278	80	358	223	135
Paints, coatings, adhesives, and other chemicals	3255, 3259	1,500	413	1,087	413	238	176	413	302	111
Plastics and rubber products	326	5,073	1,235	3,838	1,235	780	455	1,235	808	427
Nonmetallic mineral products	327	4,455	656	3,799	656	352	303	656	428	228
Primary metals	331	1,709	217	1,492	217	163	54	217	155	62
Fabricated metal products	332	21,800	3,611	18,189	3,611	2,235	1,376	3,611	2,536	1,075
Machinery	333	10,667	3,525	7,142	3,525	2,265	1,260	3,525	2,472	1,053
Agricultural implements	33311	463	193	270	193	140	53	193	162	31
Semiconductor machinery	333295	96	82	14	82	23	60	82	30	53
Engines, turbines, and power transmission equipment	3336	344	72	272	72	45	26	72	57	14
Other machinery	other 333	9,764	3,178	6,586	3,178	2,058	1,120	3,178	2,222	956
Computer and electronic products	334	5,121	2,406	2,715	2,406	1,677	731	2,406	1,733	673
Communications equipment	3342	615	346	269	346	243	103	346	266	80
Semiconductors and other electronic components	3344	1,706	525	1,181	525	372	155	525	441	84
Navigational, measuring, electromedical, and control instruments	3345	2,015	1,012	1,003	1,012	714	297	1,012	709	303
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	432	120	312	120	89	31	120	78	42
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	209	46	163	46	25	21	46	32	14
Other measuring and controlling devices	other 3345	1,374	846	528	846	601	245	846	598	247
Other computer and electronic products	other 334	786	524	262	524	348	176	524	318	206
Electrical equipment, appliances, and components	335	2,880	1,348	1,533	1,348	1,093	255	1,348	1,039	309
Transportation equipment	336	4,016	1,287	2,729	1,287	885	402	1,287	937	350
Automobiles, bodies, trailers, and parts	3361–63	2,525	816	1,710	816	500	316	816	631	185
Aerospace products and parts	3364	739	184	555	184	148	36	184	139	45
Aircraft, aircraft engines, and aircraft parts	336411–13	714	172	542	172	139	33	172	131	41

TABLE 64. Companies that introduced new or significantly improved products new to the company's market or new only to the company, by industry, industry proportions, and company size: 2012–14 (Number and percent)

Industry and company size	NAICS code	New or significantly improved products			New or significantly improved products					
		Companies			New to company's market			New only to company		
		(number) ^a	Yes ^b	No ^c	(number) ^d	Yes	No	(number) ^d	Yes	No
Guided missiles, space vehicles, and related parts	336414–15, 336419	25	12	13	12	9	3	12	8	4
Military armored vehicles, tanks, and tank components	336992	64	6	58	6	6	0	6	D	D
Other transportation	other 336	687	281	407	281	231	50	281	D	D
Furniture and related products	337	5,318	888	4,429	888	615	273	888	628	260
Miscellaneous manufacturing	339	8,225	2,292	5,933	2,292	1,574	718	2,292	1,576	718
Medical equipment and supplies	3391	2,632	908	1,724	908	658	250	908	534	376
Other miscellaneous manufacturing	3399	5,593	1,384	4,209	1,384	916	468	1,384	1,042	342
Nonmanufacturing industries	21–23, 42–81	1,163,466	95,102	1,068,364	95,102	53,393	41,711	95,102	61,181	33,922
Mining, extraction, and support activities	21	6,884	434	6,450	434	312	122	434	234	200
Utilities	22	865	104	761	104	88	16	104	62	42
Wholesale trade	42	87,298	11,753	75,545	11,753	8,113	3,640	11,753	7,729	4,024
Electronic shopping and electronic auctions	454111–12	3,148	406	2,742	406	185	221	406	304	102
Transportation and warehousing	48–49	36,507	1,574	34,932	1,574	770	805	1,574	813	761
Information	51	18,061	4,655	13,406	4,655	2,739	1,916	4,655	3,115	1,541
Publishing	511	6,541	1,741	4,800	1,741	1,181	560	1,741	1,249	492
Newspaper, periodical, book, and directory publishers	5111	4,155	284	3,871	284	59	224	284	204	79
Software publishers	5112	2,386	1,458	929	1,458	1,122	336	1,458	1,044	413
Telecommunications	517	2,980	839	2,141	839	373	466	839	643	196
Data processing, hosting, and related services	518	2,883	1,189	1,694	1,189	776	413	1,189	813	376
Other information	other 51	5,657	886	4,771	886	408	477	886	410	476
Finance and insurance	52	40,324	3,477	36,847	3,477	1,294	2,184	3,477	1,405	2,073
Real estate and rental and leasing	53	37,481	1,766	35,716	1,766	1,016	750	1,766	1,257	509
Lessors of nonfinancial intangible assets (except copyrighted works)	533	296	242	54	242	7	235	242	237	5
Other real estate and rental and leasing	other 53	37,185	1,524	35,662	1,524	1,009	515	1,524	1,020	504
Professional, scientific, and technical services	54	140,599	17,699	122,900	17,699	10,378	7,322	17,699	11,926	5,774
Architectural, engineering, and related services	5413	23,448	3,597	19,852	3,597	2,138	1,460	3,597	1,943	1,654
Computer systems design and related services	5415	19,902	6,186	13,716	6,186	3,984	2,202	6,186	4,150	2,036
Scientific R&D services	5417	2,639	998	1,641	998	695	303	998	577	421
Biotechnology R&D	541711	611	295	316	295	185	110	295	179	116
Physical, engineering, and life sciences (except biotechnology) R&D	541712	1,836	666	1,170	666	485	181	666	376	290
Social sciences and humanities R&D	541720	192	37	155	37	25	12	37	22	15
Other professional, scientific, and technical services	other 54	94,610	6,919	87,691	6,919	3,561	3,358	6,919	5,256	1,663
Health care services	621–23	157,545	14,073	143,472	14,073	5,495	8,579	14,073	9,952	4,122
Other nonmanufacturing	23, 44–45 (excluding 454111–12), 55–56, 624, 71–72, 81	634,752	39,160	595,593	39,160	23,005	16,155	39,160	24,386	14,774
All companies (number of domestic employees)	–	1,266,982	118,894	1,148,088	118,894	69,109	49,791	118,894	77,763	41,136
Small companies ^e	–	1,256,691	117,212	1,139,479	117,212	68,013	49,203	117,212	76,492	40,723

TABLE 64. Companies that introduced new or significantly improved products new to the company's market or new only to the company, by industry, industry proportions, and company size: 2012–14
(Number and percent)

Industry and company size	NAICS code	New or significantly improved products			New or significantly improved products					
		Companies			New to company's market			New only to company		
		(number) ^a	Yes ^b	No ^c	(number) ^d	Yes	No	(number) ^d	Yes	No
5–99	–	1,204,639	111,059	1,093,580	111,059	64,484	46,579	111,059	71,954	39,106
5–49	–	1,127,700	101,811	1,025,889	101,811	58,692	43,120	101,811	65,462	36,349
5–9	–	492,237	39,019	453,218	39,019	20,498	18,521	39,019	24,050	14,969
10–24	–	461,310	43,223	418,087	43,223	26,507	16,716	43,223	28,294	14,929
25–49	–	174,153	19,569	154,583	19,569	11,687	7,884	19,569	13,118	6,451
50–99	–	76,939	9,248	67,691	9,248	5,792	3,458	9,248	6,492	2,757
100–249	–	41,655	4,142	37,513	4,142	2,552	1,590	4,142	2,962	1,182
250–499	–	10,396	2,011	8,385	2,011	977	1,034	2,011	1,576	435
Medium and large companies										
500–999	–	4,992	649	4,343	649	454	195	649	514	136
1,000–4,999	–	4,212	646	3,567	646	432	215	646	482	164
5,000–9,999	–	379	119	260	119	85	34	119	88	31
10,000–24,999	–	522	206	315	206	75	132	206	136	70
25,000 or more	–	186	62	124	62	50	12	62	50	13
Industry proportions										
Industry and company size	NAICS code	New or significantly improved products ^f			New or significantly improved products					
		Companies			New to company's market			New only to company		
		(number) ^a	Yes (percent)	No (percent)	(number) ^d	Yes (percent)	No (percent)	(number) ^d	Yes (percent)	No (percent)
All industries	21–23, 31–33, 42–81	1,266,982	9.4	90.6	118,894	58.1	41.9	118,894	65.4	34.6
Manufacturing industries	31–33	103,517	23.0	77.0	23,793	66.1	34.0	23,793	69.7	30.3
Food	311	9,116	18.8	81.2	1,717	60.4	39.6	1,717	64.6	35.4
Beverages and tobacco products	312	1,797	24.2	75.8	435	58.4	41.6	435	65.8	34.2
Textiles, apparel, and leather products	313–16	3,954	15.4	84.6	607	77.6	22.4	607	62.0	38.0
Wood products	321	4,797	10.0	90.0	482	72.8	27.2	482	54.4	45.6
Paper	322	1,162	18.1	81.9	211	78.2	21.8	211	68.8	31.2
Printing and related support activities	323	8,024	13.3	86.7	1,066	49.3	50.7	1,066	80.9	19.3
Petroleum and coal products	324	393	27.9	72.1	110	79.2	20.8	110	39.3	60.7
Chemicals	325	5,012	33.9	66.1	1,700	69.7	30.3	1,700	69.8	30.2
Basic chemicals	3251	595	35.3	64.7	210	83.5	16.5	210	74.7	25.3
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	472	31.5	68.5	148	72.2	27.8	148	65.4	34.6
Pesticides, fertilizers, and other agricultural chemicals	3253	264	25.4	74.6	67	74.5	25.5	67	89.7	10.3
Pharmaceuticals and medicines	3254	1,333	37.7	62.3	503	67.0	33.0	503	69.1	30.9
Soaps, cleaning compounds, and toilet preparations	3256	848	42.2	57.8	358	77.5	22.5	358	62.4	37.6
Paints, coatings, adhesives, and other chemicals	3255, 3259	1,500	27.5	72.5	413	57.6	42.7	413	73.1	26.9
Plastics and rubber products	326	5,073	24.3	75.7	1,235	63.1	36.9	1,235	65.4	34.6
Nonmetallic mineral products	327	4,455	14.7	85.3	656	53.7	46.3	656	65.2	34.8
Primary metals	331	1,709	12.7	87.3	217	75.2	24.8	217	71.6	28.4
Fabricated metal products	332	21,800	16.6	83.4	3,611	61.9	38.1	3,611	70.2	29.8
Machinery	333	10,667	33.0	67.0	3,525	64.3	35.7	3,525	70.1	29.9

TABLE 64. Companies that introduced new or significantly improved products new to the company's market or new only to the company, by industry, industry proportions, and company size: 2012–14 (Number and percent)

Industry and company size	NAICS code	Industry proportions								
		New or significantly improved products ^f			New or significantly improved products					
		Companies (number) ^a	Yes (percent)	No (percent)	New to company's market			New only to company		
					Companies (number) ^d	Yes (percent)	No (percent)	Companies (number) ^d	Yes (percent)	No (percent)
Agricultural implements	33311	463	41.7	58.3	193	72.4	27.6	193	84.1	15.9
Semiconductor machinery	333295	96	85.4	14.6	82	27.4	72.6	82	36.2	63.8
Engines, turbines, and power transmission equipment	3336	344	20.9	79.1	72	63.4	36.6	72	80.0	20.0
Other machinery	other 333	9,764	32.5	67.5	3,178	64.7	35.3	3,178	69.9	30.1
Computer and electronic products	334	5,121	47.0	53.0	2,406	69.7	30.4	2,406	72.0	28.0
Communications equipment	3342	615	56.3	43.7	346	70.2	29.8	346	76.8	23.2
Semiconductor and other electronic components	3344	1,706	30.8	69.2	525	70.8	29.5	525	84.0	16.0
Navigational, measuring, electromedical, and control instruments	3345	2,015	50.2	49.8	1,012	70.6	29.4	1,012	70.0	30.0
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	432	27.8	72.2	120	74.0	26.0	120	65.0	35.0
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	209	22.0	78.0	46	54.3	45.7	46	70.2	29.8
Other measuring and controlling devices	other 3345	1,374	61.5	38.5	846	71.0	29.0	846	70.7	29.3
Other computer and electronic products	other 334	786	66.6	33.4	524	66.5	33.5	524	60.6	39.4
Electrical equipment, appliances, and components	335	2,880	46.8	53.2	1,348	81.1	18.9	1,348	77.1	22.9
Transportation equipment	336	4,016	32.0	68.0	1,287	68.8	31.2	1,287	72.8	27.2
Automobiles, bodies, trailers, and parts	3361–63	2,525	32.3	67.7	816	61.2	38.8	816	77.3	22.7
Aerospace products and parts	3364	739	24.9	75.1	184	80.3	19.7	184	75.6	24.4
Aircraft, aircraft engines, and aircraft parts	336411–13	714	24.1	75.9	172	80.7	19.3	172	76.2	23.8
Guided missiles, space vehicles, and related parts	336414–15, 336419	25	48.0	52.0	12	75.0	25.0	12	66.7	33.3
Military armored vehicles, tanks, and tank components	336992	64	9.4	90.6	6	100.0	0.0	6	D	D
Other transportation	other 336	687	40.8	59.2	281	82.3	17.7	281	D	D
Furniture and related products	337	5,318	16.7	83.3	888	69.3	30.7	888	70.7	29.3
Miscellaneous manufacturing	339	8,225	27.9	72.1	2,292	68.7	31.3	2,292	68.7	31.3
Medical equipment and supplies	3391	2,632	34.5	65.5	908	72.5	27.5	908	58.7	41.4
Other miscellaneous manufacturing	3399	5,593	24.7	75.3	1,384	66.2	33.8	1,384	75.3	24.7
Nonmanufacturing industries	21–23, 42–81	1,163,466	8.2	91.8	95,102	56.1	43.9	95,102	64.3	35.7
Mining, extraction, and support activities	21	6,884	6.3	93.7	434	71.9	28.1	434	53.9	46.1
Utilities	22	865	12.1	87.9	104	84.3	15.7	104	59.8	40.2
Wholesale trade	42	87,298	13.5	86.5	11,753	69.0	31.0	11,753	65.8	34.2
Electronic shopping and electronic auctions	454111–12	3,148	12.9	87.1	406	45.5	54.5	406	74.9	25.1
Transportation and warehousing	48–49	36,507	4.3	95.7	1,574	48.9	51.1	1,574	51.7	48.3
Information	51	18,061	25.8	74.2	4,655	58.8	41.2	4,655	66.9	33.1
Publishing	511	6,541	26.6	73.4	1,741	67.8	32.2	1,741	71.7	28.3
Newspaper, periodical, book, and directory publishers	5111	4,155	6.8	93.2	284	21.0	79.0	284	72.1	27.9
Software publishers	5112	2,386	61.1	38.9	1,458	77.0	23.0	1,458	71.7	28.3
Telecommunications	517	2,980	28.2	71.8	839	44.5	55.5	839	76.6	23.4
Data processing, hosting, and related services	518	2,883	41.2	58.8	1,189	65.3	34.7	1,189	68.3	31.7
Other information	other 51	5,657	15.7	84.3	886	46.1	53.9	886	46.3	53.8
Finance and insurance	52	40,324	8.6	91.4	3,477	37.2	62.8	3,477	40.4	59.6

TABLE 64. Companies that introduced new or significantly improved products new to the company's market or new only to the company, by industry, industry proportions, and company size: 2012–14
(Number and percent)

Industry and NAICS code	Industry proportions									
	New or significantly improved products ^f			New or significantly improved products						
	Companies (number) ^a	Yes (percent)	No (percent)	New to company's market			New only to company			
Companies (number) ^d				Yes (percent)	No (percent)	Companies (number) ^d	Yes (percent)	No (percent)		
Real estate and rental and leasing	53	37,481	4.7	95.3	1,766	57.5	42.5	1,766	71.2	28.8
Lessors of nonfinancial intangible assets (except copyrighted works)	533	296	81.8	18.2	242	2.9	97.1	242	97.9	2.1
Other real estate and rental and leasing	other 53	37,185	4.1	95.9	1,524	66.2	33.8	1,524	66.9	33.1
Professional, scientific, and technical services	54	140,599	12.6	87.4	17,699	58.6	41.4	17,699	67.4	32.6
Architectural, engineering, and related services	5413	23,448	15.3	84.7	3,597	59.4	40.6	3,597	54.0	46.0
Computer systems design and related services	5415	19,902	31.1	68.9	6,186	64.4	35.6	6,186	67.1	32.9
Scientific R&D services	5417	2,639	37.8	62.2	998	69.7	30.3	998	57.8	42.2
Biotechnology R&D	541711	611	48.3	51.7	295	62.7	37.3	295	60.8	39.2
Physical, engineering, and life sciences (except biotechnology) R&D	541712	1,836	36.3	63.7	666	72.8	27.2	666	56.5	43.5
Social sciences and humanities R&D	541720	192	19.4	80.6	37	68.2	31.8	37	58.5	41.5
Other professional, scientific, and technical services	other 54	94,610	7.3	92.7	6,919	51.5	48.5	6,919	76.0	24.0
Health care services	621–23	157,545	8.9	91.1	14,073	39.0	61.0	14,073	70.7	29.3
Other nonmanufacturing	23, 44–45 (excluding 454111–12), 55–56, 624, 71–72, 81	634,752	6.2	93.8	39,160	58.7	41.3	39,160	62.3	37.7
All companies (number of domestic employees)	–	1,266,982	9.4	90.6	118,894	58.1	41.9	118,894	65.4	34.6
Small companies ^e										
5–499	–	1,256,691	9.3	90.7	117,212	58.0	42.0	117,212	65.3	34.7
5–99	–	1,204,639	9.2	90.8	111,059	58.1	41.9	111,059	64.8	35.2
5–49	–	1,127,700	9.0	91.0	101,811	57.6	42.4	101,811	64.3	35.7
5–9	–	492,237	7.9	92.1	39,019	52.5	47.5	39,019	61.6	38.4
10–24	–	461,310	9.4	90.6	43,223	61.3	38.7	43,223	65.5	34.5
25–49	–	174,153	11.2	88.8	19,569	59.7	40.3	19,569	67.0	33.0
50–99	–	76,939	12.0	88.0	9,248	62.6	37.4	9,248	70.2	29.8
100–249	–	41,655	9.9	90.1	4,142	61.6	38.4	4,142	71.5	28.5
250–499	–	10,396	19.3	80.7	2,011	48.6	51.4	2,011	78.4	21.6
Medium and large companies										
500–999	–	4,992	13.0	87.0	649	70.0	30.0	649	79.1	20.9
1,000–4,999	–	4,212	15.3	84.7	646	66.9	33.3	646	74.7	25.3

TABLE 64. Companies that introduced new or significantly improved products new to the company's market or new only to the company, by industry, industry proportions, and company size: 2012–14 (Number and percent)

Industry and NAICS code	New or significantly improved products ^f			Industry proportions						
	Companies (number) ^a	Yes (percent)	No (percent)	New or significantly improved products						
				New to company's market			New only to company			
	Companies (number) ^a	Yes (percent)	No (percent)	Companies (number) ^d	Yes (percent)	No (percent)	Companies (number) ^d	Yes (percent)	No (percent)	
5,000–9,999	–	379	31.5	68.5	119	71.2	28.8	119	74.0	26.0
10,000–24,999	–	522	39.5	60.5	206	36.2	63.8	206	66.1	33.9
25,000 or more	–	186	33.3	66.7	62	80.7	19.3	62	80.7	20.9

D = data withheld to avoid disclosing operations of individual companies.

NAICS = 2012 North American Industry Classification System.

^a Statistics for the number of companies are based only on companies in the United States responding either "Yes" to at least one of the items or "No" to both of the items on the survey relating to new or significantly improved products, regardless of whether the company performed or funded R&D. These statistics do not include an adjustment to the weight to account for unit nonresponse.

^b Includes companies responding "Yes" to at least one of the items on the survey relating to new or significantly improved products.

^c Includes companies responding "No" to both of the items on the survey relating to new or significantly improved products.

^d Statistics for the number of companies are based only on companies in the United States that reported data for this survey item, regardless of whether the company performed or funded R&D. These statistics do not include an adjustment to the weight to account for unit nonresponse.

^e Upper bound is based on the U.S. Small Business Administration's definition of a small business; the Business R&D and Innovation Survey does not include companies with fewer than five domestic employees.

^f Statistics used for the denominator in the calculation of these percentages include companies in the United States responding either "Yes" to at least one of the items or "No" to both of the items on the survey relating to new or significantly improved products, regardless of whether the company performed or funded R&D. These statistics do not include an adjustment to the weight to account for unit nonresponse.

NOTES: Detail may not add to total because of rounding. Industry classification is based on the dominant business code for domestic R&D performance, where available. For companies that did not report business codes, the classification used for sampling was assigned. The sum of "Yes" and "No" responses may not add to the total number of companies or, for the percentages, to 100% due to item nonresponse to some items.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, and U.S. Census Bureau, Business R&D and Innovation Survey, 2014.