

TABLE 63

Companies that introduced new or significantly improved products, by industry, industry proportions, and company size: 2013–15

(Number and percent)

Industry	NAICS code	Companies (number) ^a	New or significantly improved products or processes		New or significantly improved products							
			Yes	No	Companies (number) ^b	Any good or service		Goods		Services		
						Yes ^c	No ^d	Yes	No	Yes	No	
	Industry (number)											
All industries	21–23, 31–33, 42–81	1,413,932	237,259	1,176,673	1,406,937	146,578	1,260,359	89,435	1,317,399	107,996	1,298,976	
Manufacturing industries	31–33	112,782	37,278	75,503	112,249	27,267	84,982	24,319	87,975	12,716	99,106	
Food	311	9,710	2,685	7,025	9,659	1,729	7,930	1,537	8,122	660	8,915	
Beverages and tobacco products	312	2,374	770	1,605	2,370	475	1,894	467	1,908	174	2,194	
Textiles, apparel, and leather products	313–16	4,301	1,018	3,283	4,301	731	3,570	649	3,651	415	3,884	
Wood products	321	5,151	1,063	4,088	5,125	662	4,463	583	4,543	446	4,679	
Paper	322	1,768	594	1,175	1,753	503	1,250	404	1,364	203	1,549	
Printing and related support activities	323	8,205	2,023	6,182	8,154	1,284	6,870	845	7,343	1,066	7,066	
Petroleum and coal products	324	248	95	152	247	79	167	65	181	45	202	
Chemicals	325	5,305	2,404	2,901	5,293	1,906	3,387	1,847	3,452	671	4,577	
Basic chemicals	3251	508	286	223	507	193	315	193	315	54	452	
Resins, synthetic rubbers, and artificial synthetic fibers and filaments	3252	859	491	368	858	396	462	388	471	53	783	
Pesticides, fertilizers, and other agricultural chemicals	3253	331	160	170	331	91	240	75	256	45	286	
Pharmaceuticals and medicines	3254	1,092	467	624	1,089	367	721	357	731	138	948	
Soaps, cleaning compounds, and toilet preparations	3256	956	410	546	956	379	576	366	590	190	759	
Paints, coatings, adhesives, and other chemicals	3255, 3259	1,560	590	970	1,552	480	1,072	468	1,089	192	1,349	
Plastics and rubber products	326	5,121	1,954	3,167	5,103	1,374	3,729	1,255	3,846	696	4,389	
Nonmetallic mineral products	327	4,123	886	3,237	4,074	590	3,484	577	3,497	275	3,847	
Primary metals	331	2,065	474	1,592	2,064	270	1,795	245	1,820	134	1,930	
Fabricated metal products	332	25,232	6,533	18,699	25,110	4,455	20,655	3,558	21,522	2,503	22,612	
Machinery	333	11,969	5,316	6,653	11,884	4,025	7,859	3,597	8,312	1,458	10,305	
Agricultural implements	33311	673	329	344	670	293	377	289	381	134	529	
Semiconductor machinery	333242	208	56	152	208	44	165	44	165	20	186	
Engines, turbines, and power transmission equipment	3336	563	387	176	562	364	199	343	219	34	528	
Other machinery	other 333	10,525	4,544	5,981	10,444	3,325	7,118	2,921	7,548	1,270	9,063	
Computer and electronic products	334	5,783	3,276	2,506	5,750	2,913	2,837	2,781	2,978	1,140	4,563	
Communications equipment	3342	924	572	353	923	524	399	522	401	139	780	
Semiconductors and other electronic components	3344	2,018	974	1,045	2,012	812	1,200	732	1,285	370	1,637	
Navigational, measuring, electromedical, and control instruments	3345	2,037	1,145	892	2,033	1,031	1,002	1,001	1,034	365	1,644	
Electromedical, electrotherapeutic, and irradiation apparatuses	334510, 334517	341	209	132	340	196	144	193	148	56	282	

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Companies that introduced new or significantly improved products, by industry, industry proportions, and company size: 2013–15

(Number and percent)

Industry	NAICS code	Companies (number) ^a	New or significantly improved products or processes		New or significantly improved products							
			Yes	No	Companies (number) ^b	Any good or service		Goods		Services		
						Yes ^c	No ^d	Yes	No	Yes	No	
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	187	98	89	186	78	108	75	112	45	140	
Other measuring and controlling devices	other 3345	1,509	838	671	1,507	756	750	733	774	264	1,222	
Other computer and electronic products	other 334	803	586	217	781	546	235	525	257	266	501	
Electrical equipment, appliances, and components	335	2,483	1,184	1,298	2,482	1,057	1,424	1,045	1,437	298	2,096	
Transportation equipment	336	4,463	2,035	2,428	4,458	1,473	2,986	1,391	3,066	554	3,891	
Automobiles, bodies, trailers, and parts	3361–63	2,701	1,241	1,460	2,696	929	1,768	854	1,843	339	2,347	
Aerospace products and parts	3364	773	364	409	773	177	596	173	599	86	687	
Aircraft, aircraft engines, and aircraft parts	336411–13	748	350	398	748	165	583	163	585	77	671	
Guided missiles, space vehicles, and related parts	336414–15, 336419	25	14	11	25	12	13	10	14	9	16	
Military armored vehicles, tanks, and tank components	336992	29	14	15	29	7	22	7	22	3	26	
Other transportation	other 336	960	416	544	960	360	600	357	603	126	831	
Furniture and related products	337	6,104	1,055	5,049	6,049	734	5,315	629	5,419	343	5,747	
Miscellaneous manufacturing	339	8,377	3,915	4,462	8,374	3,007	5,367	2,844	5,513	1,634	6,658	
Medical equipment and supplies	3391	3,060	1,497	1,563	3,058	1,279	1,779	1,235	1,807	731	2,271	
Other miscellaneous manufacturing	3399	5,317	2,418	2,899	5,316	1,728	3,588	1,610	3,706	903	4,387	
Nonmanufacturing industries	21–23, 42–81	1,301,150	199,980	1,101,170	1,294,688	119,311	1,175,376	65,115	1,229,424	95,279	1,199,870	
Mining, extraction, and support activities	21	6,403	1,070	5,332	6,395	422	5,972	161	6,234	346	6,049	
Utilities	22	835	112	724	835	100	736	59	776	94	741	
Wholesale trade	42	93,204	22,477	70,727	92,602	15,421	77,182	12,894	79,907	7,388	84,991	
Electronic shopping and electronic auctions	454111–12	3,872	1,530	2,342	3,872	889	2,983	585	3,273	533	3,339	
Transportation and warehousing	48–49	38,646	6,014	32,632	38,646	1,838	36,808	769	37,877	1,831	36,815	
Information	51	18,386	5,599	12,787	18,277	4,817	13,460	3,058	15,226	3,982	14,291	
Publishing	511	6,335	2,060	4,275	6,327	1,776	4,551	1,290	4,961	1,252	5,073	
Newspaper, periodical, book, and directory publishers	5111	3,856	718	3,138	3,855	530	3,325	203	3,581	394	3,462	
Software publishers	5112	2,478	1,342	1,137	2,472	1,246	1,226	1,087	1,380	859	1,611	
Telecommunications	517	2,771	813	1,958	2,766	615	2,150	244	2,525	600	2,164	
Data processing, hosting, and related services	518	3,863	1,640	2,222	3,768	1,512	2,257	925	2,932	1,338	2,431	
Other information	other 51	5,417	1,086	4,331	5,415	914	4,501	599	4,808	792	4,623	
Finance and insurance	52	48,033	5,523	42,510	47,782	2,589	45,193	1,363	46,418	2,274	45,709	
Real estate and rental and leasing	53	39,480	3,769	35,710	39,230	1,654	37,576	1,051	38,179	1,593	37,638	
Lessors of nonfinancial intangible assets (except copyrighted works)	533	569	245	324	568	238	330	237	331	234	335	

TABLE 63

Companies that introduced new or significantly improved products, by industry, industry proportions, and company size: 2013–15

(Number and percent)

Industry	NAICS code	Companies (number) ^a	New or significantly improved products or processes		New or significantly improved products						
			Yes	No	Companies (number) ^b	Any good or service		Goods		Services	
						Yes ^c	No ^d	Yes	No	Yes	No
Food	311	9,710	27.7	72.3	9,659	17.9	82.1	15.9	84.1	6.9	93.1
Beverages and tobacco products	312	2,374	32.4	67.6	2,370	20.1	79.9	19.7	80.3	7.4	92.6
Textiles, apparel, and leather products	313–16	4,301	23.7	76.3	4,301	17.0	83.0	15.1	84.9	9.7	90.3
Wood products	321	5,151	20.6	79.4	5,125	12.9	87.1	11.4	88.6	8.7	91.3
Paper	322	1,768	33.6	66.4	1,753	28.7	71.3	22.9	77.1	11.6	88.4
Printing and related support activities	323	8,205	24.7	75.3	8,154	15.8	84.2	10.3	89.7	13.1	86.9
Petroleum and coal products	324	248	38.4	61.6	247	32.2	67.8	26.5	73.5	18.1	81.9
Chemicals	325	5,305	45.3	54.7	5,293	36.0	64.0	34.9	65.1	12.8	87.2
Basic chemicals	3251	508	56.2	43.8	507	38.0	62.0	38.0	62.0	10.6	89.4
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	859	57.1	42.9	858	46.1	53.9	45.1	54.9	6.4	93.6
Pesticides, fertilizers, and other agricultural chemicals	3253	331	48.5	51.5	331	27.5	72.5	22.7	77.3	13.5	86.5
Pharmaceuticals and medicines	3254	1,092	42.8	57.2	1,089	33.7	66.3	32.8	67.2	12.7	87.3
Soaps, cleaning compounds, and toilet preparations	3256	956	42.9	57.1	956	39.7	60.3	38.3	61.7	20.0	80.0
Paints, coatings, adhesive, and other chemicals	3255, 3259	1,560	37.8	62.2	1,552	30.9	69.1	30.1	69.9	12.4	87.6
Plastics and rubber products	326	5,121	38.2	61.8	5,103	26.9	73.1	24.6	75.4	13.7	86.3
Nonmetallic mineral products	327	4,123	21.5	78.5	4,074	14.5	85.5	14.2	85.8	6.7	93.3
Primary metals	331	2,065	22.9	77.1	2,064	13.1	86.9	11.9	88.1	6.5	93.5
Fabricated metal products	332	25,232	25.9	74.1	25,110	17.7	82.3	14.2	85.8	10.0	90.0
Machinery	333	11,969	44.4	55.6	11,884	33.9	66.1	30.2	69.8	12.4	87.6
Agricultural implements	33311	673	48.9	51.1	670	43.7	56.3	43.1	56.9	20.2	79.8
Semiconductor machinery	333242	208	26.9	73.1	208	21.0	79.0	21.0	79.0	9.8	90.2
Engines, turbines, and power transmission equipment	3336	563	68.8	31.2	562	64.7	35.3	61.0	39.0	6.1	93.9
Other machinery	other 333	10,525	43.2	56.8	10,444	31.8	68.2	27.9	72.1	12.3	87.7
Computer and electronic products	334	5,783	56.7	43.3	5,750	50.7	49.3	48.3	51.7	20.0	80.0
Communications equipment	3342	924	61.8	38.2	923	56.7	43.3	56.5	43.5	15.2	84.8
Semiconductors and other electronic components	3344	2,018	48.2	51.8	2,012	40.4	59.6	36.3	63.7	18.4	81.6
Navigational, measuring, electromedical, and control instruments	3345	2,037	56.2	43.8	2,033	50.7	49.3	49.2	50.8	18.2	81.8
Electromedical, electrotherapeutic, and irradiation apparatuses	334510, 334517	341	61.2	38.8	340	57.7	42.3	56.7	43.3	16.7	83.3
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	187	52.3	47.7	186	41.8	58.2	40.0	60.0	24.4	75.6
Other measuring and controlling devices	other 3345	1,509	55.5	44.5	1,507	50.2	49.8	48.6	51.4	17.7	82.3
Other computer and electronic products	other 334	803	73.0	27.0	781	69.9	30.1	67.2	32.8	34.6	65.4

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Companies that introduced new or significantly improved products, by industry, industry proportions, and company size: 2013–15

(Number and percent)

Industry	NAICS code	Companies (number) ^a	New or significantly improved products or processes		New or significantly improved products							
			Yes	No	Companies (number) ^b	Any good or service		Goods		Services		
						Yes ^c	No ^d	Yes	No	Yes	No	
Electrical equipment, appliances, and components		335	2,483	47.7	52.3	2,482	42.6	57.4	42.1	57.9	12.4	87.6
Transportation equipment		336	4,463	45.6	54.4	4,458	33.0	67.0	31.2	68.8	12.5	87.5
Automobiles, bodies, trailers, and parts	3361–63	2,701	46.0	54.0	2,696	34.4	65.6	31.7	68.3	12.6	87.4	
Aerospace products and parts	3364	773	47.1	52.9	773	22.9	77.1	22.4	77.6	11.1	88.9	
Aircraft, aircraft engines, and aircraft parts	336411–13	748	46.8	53.2	748	22.1	77.9	21.8	78.2	10.3	89.7	
Guided missiles, space vehicles, and related parts	336414–15, 336419	25	55.5	44.5	25	47.4	52.6	40.9	59.1	35.2	64.8	
Military armored vehicles, tanks, and tank components	336992	29	47.0	53.0	29	25.3	74.7	25.3	74.7	11.4	88.6	
Other transportation	other 336	960	43.4	56.6	960	37.5	62.5	37.2	62.8	13.2	86.8	
Furniture and related products	337	6,104	17.3	82.7	6,049	12.1	87.9	10.4	89.6	5.6	94.4	
Miscellaneous manufacturing	339	8,377	46.7	53.3	8,374	35.9	64.1	34.0	66.0	19.7	80.3	
Medical equipment and supplies	3391	3,060	48.9	51.1	3,058	41.8	58.2	40.6	59.4	24.4	75.6	
Other miscellaneous manufacturing	3399	5,317	45.5	54.5	5,316	32.5	67.5	30.3	69.7	17.1	82.9	
Nonmanufacturing industries	21–23, 42–81	1,301,150	15.4	84.6	1,294,688	9.2	90.8	5.0	95.0	7.4	92.6	
Mining, extraction, and support activities	21	6,403	16.7	83.3	6,395	6.6	93.4	2.5	97.5	5.4	94.6	
Utilities	22	835	13.4	86.6	835	11.9	88.1	7.1	92.9	11.2	88.8	
Wholesale trade	42	93,204	24.1	75.9	92,602	16.7	83.3	13.9	86.1	8.0	92.0	
Electronic shopping and electronic auctions	454111–12	3,872	39.5	60.5	3,872	23.0	77.0	15.2	84.8	13.8	86.2	
Transportation and warehousing	48–49	38,646	15.6	84.4	38,646	4.8	95.2	2.0	98.0	4.7	95.3	
Information	51	18,386	30.5	69.5	18,277	26.4	73.6	16.7	83.3	21.8	78.2	
Publishing	511	6,335	32.5	67.5	6,327	28.1	71.9	20.6	79.4	19.8	80.2	
Newspaper, periodical, book, and directory publishers	5111	3,856	18.6	81.4	3,855	13.8	86.2	5.4	94.6	10.2	89.8	
Software publishers	5112	2,478	54.1	45.9	2,472	50.4	49.6	44.1	55.9	34.8	65.2	
Telecommunications	517	2,771	29.3	70.7	2,766	22.2	77.8	8.8	91.2	21.7	78.3	
Data processing, hosting, and related services	518	3,863	42.5	57.5	3,768	40.1	59.9	24.0	76.0	35.5	64.5	
Other information	other 51	5,417	20.0	80.0	5,415	16.9	83.1	11.1	88.9	14.6	85.4	
Finance and insurance	52	48,033	11.5	88.5	47,782	5.4	94.6	2.9	97.1	4.7	95.3	
Real estate and rental and leasing	53	39,480	9.5	90.5	39,230	4.2	95.8	2.7	97.3	4.1	95.9	
Lessors of nonfinancial intangible assets (except copyrighted works)	533	569	43.1	56.9	568	41.9	58.1	41.8	58.2	41.2	58.8	
Other real estate and rental and leasing	other 53	38,910	9.1	90.9	38,661	3.7	96.3	2.1	97.9	3.5	96.5	
Professional, scientific, and technical services	54	158,166	19.9	80.1	157,452	14.5	85.5	7.4	92.6	12.3	87.7	
Architectural, engineering, and related services	5413	25,990	21.4	78.6	25,877	15.1	84.9	7.1	92.9	11.7	88.3	

TABLE 63

Companies that introduced new or significantly improved products, by industry, industry proportions, and company size: 2013–15

(Number and percent)

Industry	NAICS code	Companies (number) ^a	New or significantly improved products or processes		New or significantly improved products						
			Yes	No	Companies (number) ^b	Any good or service		Goods		Services	
						Yes ^c	No ^d	Yes	No	Yes	No
Computer systems design and related services	5415	21,698	44.0	56.0	21,661	38.4	61.6	22.4	77.6	32.9	67.1
Scientific research and development services	5417	3,426	43.7	56.3	3,413	38.2	61.8	26.0	74.0	26.5	73.5
Biotechnology research and development	541711	829	32.5	67.5	828	24.3	75.7	19.7	80.3	17.6	82.4
Physical, engineering, and life sciences (except biotechnology) research and development	541712	2,425	49.5	50.5	2,414	44.9	55.1	29.7	70.3	30.7	69.3
Social sciences and humanities research and development	541720	172	16.5	83.5	171	12.5	87.5	4.1	95.9	11.3	88.7
Other professional, scientific, and technical services	other 54	107,053	13.9	86.1	106,501	8.7	91.3	3.8	96.2	7.8	92.2
Health care services	621–23	173,329	16.5	83.5	171,826	10.1	89.9	3.0	97.0	9.9	90.1
Other nonmanufacturing	23, 44–45 (excluding 454111–12), 55–56, 624, 71–72, 81	720,797	13.0	87.0	717,771	7.2	92.8	4.0	96.0	5.7	94.3
All companies (number of domestic employees)	–	1,413,932	16.8	83.2	1,406,937	10.4	89.6	6.4	93.6	7.7	92.3
Micro companies ^e											
5–9	–	550,695	13.4	86.6	547,828	8.1	91.9	4.5	95.5	6.3	93.7
Small companies											
10–19	–	422,056	17.8	82.2	419,354	10.8	89.2	6.4	93.6	8.3	91.7
20–49	–	287,091	18.7	81.3	286,791	11.7	88.3	7.5	92.5	8.3	91.7
Medium companies											
50–99	–	82,729	22.4	77.6	82,164	14.8	85.2	10.1	89.9	9.5	90.5
100–249	–	46,480	20.9	79.1	46,198	13.7	86.3	9.9	90.1	8.7	91.3
Large companies											
250–499	–	13,024	24.2	75.8	12,765	19.4	80.6	9.2	90.8	14.2	85.8
500–999	–	5,535	17.9	82.1	5,530	11.6	88.4	9.1	90.9	5.8	94.2
1,000–4,999	–	4,918	35.8	64.2	4,914	28.2	71.8	25.4	74.6	15.1	84.9
5,000–9,999	–	541	29.5	70.5	529	25.3	74.7	22.5	77.5	13.7	86.3
10,000–24,999	–	363	33.8	66.2	363	29.2	70.8	25.0	75.0	21.5	78.5
25,000 or more	–	500	68.9	31.1	500	14.2	85.8	11.5	88.5	12.3	87.7

NAICS = 2012 North American Industry Classification System.

^a Statistics for number of companies are based only on companies in the United States that reported data for at least one of the items on the survey relating to new or significantly improved products or processes, 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 Statistics for 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.

TABLE 63

Companies that introduced new or significantly improved products, by industry, industry proportions, and company size: 2013–15

(Number and percent)

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

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

^e 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 the percentages for any good or service are the adjacent company count column; for the remaining proportions, the denominator is not displayed but is the sum of the corresponding "Yes" and "No" responses, 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.

Note(s)

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. 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 relating to new or significantly improved products or processes.

Source(s)

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