

TABLE A-5. Imputation rates for survey items, by industry and company size: 2006
(Percent)

Industry and company size	NAICS codes	All R&D			Basic research			Applied research		
		Total	Company funded	Federally funded	Total	Company funded	Federally funded	Total	Company funded	Federally funded
All industries	21-23, 31-33, 42, 44-81	10	10	10	20	20	20	20	20	30
Manufacturing industries	31-33	10	20	10	20	20	10	30	20	30
Food	311	10	10	0	10	10	70	10	10	60
Beverage and tobacco products	312	80	80	0	0	0	0	10	10	0
Textiles, apparel, and leather	313-16	10	10	0	10	10	0	0	0	0
Wood products	321	20	20	10	70	70	0	70	70	0
Paper, printing, and support activities	322, 323	10	10	0	10	10	0	10	10	0
Petroleum and coal products	324	10	10	0	10	10	0	0	10	0
Chemicals	325	10	10	10	10	10	10	20	20	10
Basic chemicals	3251	10	10	0	10	10	40	10	10	10
Resin, synthetic rubber, fibers, and filament	3252	10	10	0	10	10	0	10	10	0
Pharmaceuticals and medicines	3254	10	10	10	10	10	0	20	20	0
Other chemicals	other 325	10	10	0	30	30	0	10	10	0
Plastics and rubber products	326	10	10	0	20	20	0	20	20	0
Nonmetallic mineral products	327	10	10	0	10	10	0	10	10	0
Primary metals	331	10	10	0	0	0	0	10	10	0
Fabricated metal products	332	20	20	70	10	10	0	10	10	0
Machinery	333	10	10	10	20	20	0	30	30	0
Computer and electronic products	334	30	30	20	40	40	10	30	30	40
Computers and peripheral equipment	3341	20	20	20	10	10	99	20	10	99
Communications equipment	3342	40	40	30	99	99	0	40	40	20
Semiconductor and other electronic components	3344	20	20	10	30	30	10	40	40	10
Navigational, measuring, electromedical, and control instruments	3345	20	20	20	10	20	10	20	20	10
Other computer and electronic products	other 334	40	40	0	70	70	0	20	20	0
Electrical equipment, appliances, and components	335	20	20	10	20	20	0	30	30	10
Transportation equipment	336	10	10	10	20	20	10	30	30	30
Motor vehicles, trailers, and parts	3361-63	10	10	10	40	50	30	30	30	30
Aerospace products and parts	3364	10	10	10	20	20	40	20	30	20
Other transportation equipment	other 336	10	10	0	10	10	0	70	10	90
Furniture and related products	337	10	10	0	0	10	0	10	10	0
Miscellaneous manufacturing	339	10	10	10	60	60	70	30	30	10
Medical equipment and supplies	3391	10	10	10	70	70	40	30	30	10
Other miscellaneous manufacturing	other 339	10	10	0	20	10	100	10	10	0

TABLE A-5. Imputation rates for survey items, by industry and company size: 2006
(Percent)

Industry and company size	NAICS codes	All R&D			Basic research			Applied research		
		Total	Company funded	Federally funded	Total	Company funded	Federally funded	Total	Company funded	Federally funded
Nonmanufacturing industries	21–23, 42, 44–81	10	10	10	20	10	20	20	10	30
Mining, extraction, and support activities	21	10	10	0	40	40	0	10	30	100
Utilities	22	10	10	30	0	0	0	10	10	80
Construction	23	10	10	0	0	0	0	10	10	0
Wholesale trade	42	10	10	0	20	20	100	20	20	99
Retail trade	44, 45	30	30	99	0	0	0	60	60	0
Transportation and warehousing	48, 49	10	10	0	0	0	0	10	10	0
Information	51	10	10	0	10	10	0	10	10	0
Publishing	511	10	10	0	10	10	0	10	10	0
Newspaper, periodical, book, and directory	5111	40	40	0	0	0	0	40	50	0
Software	5112	10	10	0	10	10	0	10	10	0
Telecommunications	517	20	20	0	0	0	0	20	20	0
Wired and wireless (except satellite)										
telecommunications carriers	5171, 5172	20	20	0	0	0	0	10	10	0
Satellite telecommunications	5174	0	0	0	0	0	0	0	0	0
Other telecommunications	other 517	10	10	0	0	0	0	40	40	0
Internet service providers, Web search portals, and data-processing services	518	10	10	0	0	0	0	10	10	0
Internet service providers and Web search portals	5181	10	10	0	0	0	0	40	40	0
Data-processing, hosting, and related services	5182	10	10	0	0	0	0	0	0	0
Other information	other 51	0	0	0	0	0	0	0	0	0
Finance, insurance, and real estate	52, 53	20	20	0	0	0	0	10	10	0
Professional, scientific, and technical services	54	10	10	10	20	20	20	20	10	30
Architectural, engineering, and related services	5413	10	10	10	40	30	60	20	20	60
Computer systems design and related services	5415	10	10	10	10	10	0	10	10	0
Scientific R&D services	5417	10	10	10	20	20	20	20	20	30
Other professional, scientific, and technical services	other 54	10	10	10	20	20	0	10	10	10
Health care services	621–23	10	10	0	0	0	0	0	0	0
Other nonmanufacturing ^a	55, 56, 61, 624, 71, 72, 81	10	10	0	30	40	0	10	10	0

TABLE A-5. Imputation rates for survey items, by industry and company size: 2006
(Percent)

Industry and company size	NAICS codes	All R&D			Basic research			Applied research		
		Total	Company funded	Federally funded	Total	Company funded	Federally funded	Total	Company funded	Federally funded
Company size (employees)										
All companies	-	10	10	10	20	20	20	20	20	30
5-24	-	10	10	10	10	10	10	10	10	10
25-49	-	10	10	10	20	20	10	10	10	10
50-99	-	10	10	10	40	40	50	10	10	30
100-249	-	10	10	10	20	20	20	20	20	30
250-499	-	20	20	10	10	10	0	10	10	10
500-999	-	20	30	10	20	20	10	30	30	30
1,000-4,999	-	20	20	10	20	20	10	30	20	50
5,000-9,999	-	20	20	10	40	40	10	40	40	20
10,000-24,999	-	10	10	10	10	10	10	10	10	10
25,000 or more	-	10	10	10	20	20	10	30	20	40

TABLE A-5. Imputation rates for survey items, by industry and company size: 2006
(Percent)

Industry and company size	NAICS codes	Development			Type of R&D expense				
		Total	Company funded	Federally funded	Wages and salaries of R&D personnel	Fringe benefits of R&D personnel	Materials and supplies	R&D depreciation	Other costs
All industries	21-23, 31-33, 42, 44-81	20	20	20	50	60	60	50	50
Manufacturing industries	31-33	30	30	20	60	60	60	60	60
Food	311	10	10	0	40	40	40	40	30
Beverage and tobacco products	312	0	0	0	80	80	80	80	90
Textiles, apparel, and leather	313-16	10	10	0	30	30	50	30	30
Wood products	321	30	30	20	60	80	80	70	50
Paper, printing, and support activities	322, 323	10	10	0	90	90	99	90	90
Petroleum and coal products	324	40	40	0	90	99	50	90	99
Chemicals	325	20	20	30	70	70	80	60	80
Basic chemicals	3251	20	20	20	40	50	50	50	50
Resin, synthetic rubber, fibers, and filament	3252	20	20	0	10	30	10	10	50
Pharmaceuticals and medicines	3254	20	20	40	70	70	80	70	80
Other chemicals	other 325	50	50	50	40	40	50	30	70
Plastics and rubber products	326	10	10	40	40	40	10	60	40
Nonmetallic mineral products	327	10	10	0	40	30	30	40	50
Primary metals	331	50	50	80	70	70	70	80	70
Fabricated metal products	332	20	10	70	40	40	50	40	50
Machinery	333	10	10	10	60	50	60	50	40
Computer and electronic products	334	40	40	50	60	60	80	50	60
Computers and peripheral equipment	3341	20	20	0	80	80	80	90	70
Communications equipment	3342	60	60	90	40	30	70	30	60
Semiconductor and other electronic components	3344	20	20	10	40	40	50	30	40
Navigational, measuring, electromedical, and control instruments	3345	40	40	50	90	90	90	90	60
Other computer and electronic products	other 334	50	50	0	80	80	90	60	70
Electrical equipment, appliances, and components	335	20	20	10	40	40	40	40	30
Transportation equipment	336	30	30	10	60	60	50	70	30
Motor vehicles, trailers, and parts	3361-63	20	20	20	60	60	50	60	50
Aerospace products and parts	3364	40	40	20	40	60	40	70	20
Other transportation equipment	other 336	10	30	0	90	90	80	90	50
Furniture and related products	337	10	10	0	50	40	50	50	40
Miscellaneous manufacturing	339	10	10	0	50	50	60	60	40
Medical equipment and supplies	3391	20	20	0	60	60	60	60	50
Other miscellaneous manufacturing	other 339	10	10	0	40	40	50	70	30

TABLE A-5. Imputation rates for survey items, by industry and company size: 2006
(Percent)

Industry and company size	NAICS codes	Development			Type of R&D expense				
		Total	Company funded	Federally funded	Wages and salaries of R&D personnel	Fringe benefits of R&D personnel	Materials and supplies	R&D depreciation	Other costs
Nonmanufacturing industries	21–23, 42, 44–81	10	10	20	40	40	60	40	30
Mining, extraction, and support activities	21	10	30	30	10	20	20	30	10
Utilities	22	20	20	10	30	30	40	50	20
Construction	23	10	10	0	80	90	90	99	80
Wholesale trade	42	10	10	0	50	50	60	40	60
Retail trade	44, 45	30	30	99	40	30	20	60	30
Transportation and warehousing	48, 49	20	20	0	80	90	80	90	80
Information	51	10	10	0	30	40	70	40	30
Publishing	511	10	10	0	30	40	60	50	20
Newspaper, periodical, book, and directory	5111	10	10	0	40	40	70	99	50
Software	5112	10	10	0	30	40	50	40	20
Telecommunications	517	20	20	0	60	70	90	70	60
Wired and wireless (except satellite) telecommunications carriers	5171, 5172	30	30	0	50	60	90	70	50
Satellite telecommunications	5174	0	0	0	0	0	0	0	0
Other telecommunications	other 517	10	10	0	99	99	99	80	99
Internet service providers, Web search portals, and data-processing services	518	10	10	0	20	50	40	20	20
Internet service providers and Web search portals	5181	10	10	0	30	50	50	20	20
Data-processing, hosting, and related services	5182	10	10	0	20	40	40	20	20
Other information	other 51	10	10	0	40	20	20	20	20
Finance, insurance, and real estate	52, 53	10	10	0	30	40	50	50	20
Professional, scientific, and technical services	54	10	10	20	40	40	50	40	40
Architectural, engineering, and related services	5413	10	10	10	50	30	70	40	40
Computer systems design and related services	5415	10	10	10	20	20	20	20	10
Scientific R&D services	5417	20	20	40	60	50	50	50	50
Other professional, scientific, and technical services	other 54	10	10	0	40	30	70	70	70
Health care services	621–23	0	0	0	70	10	10	10	10
Other nonmanufacturing ^a	55, 56, 61, 624, 71, 72, 81	10	10	0	20	30	40	50	20

TABLE A-5. Imputation rates for survey items, by industry and company size: 2006
(Percent)

Industry and company size	NAICS codes	Development			Type of R&D expense				
		Total	Company funded	Federally funded	Wages and salaries of R&D personnel	Fringe benefits of R&D personnel	Materials and supplies	R&D depreciation	Other costs
Company size (employees)									
All companies	-	20	20	20	50	60	60	50	50
5-24	-	10	10	10	50	60	60	60	50
25-49	-	10	10	10	50	50	50	50	50
50-99	-	10	10	30	50	60	50	50	50
100-249	-	20	20	20	50	50	40	50	50
250-499	-	20	20	20	40	40	40	40	40
500-999	-	30	30	50	50	50	50	40	50
1,000-4,999	-	20	20	50	50	50	50	50	50
5,000-9,999	-	20	20	60	60	50	60	50	50
10,000-24,999	-	20	20	10	50	50	70	50	50
25,000 or more	-	20	20	20	60	70	70	60	60

TABLE A-5. Imputation rates for survey items, by industry and company size: 2006
(Percent)

Industry and company size	NAICS codes	R&D performed by other organizations			Company-funded R&D projected for next year		
		Total	Company funded	Federally funded	Total	Company funded	Federally funded
All industries	21-23, 31-33, 42, 44-81	10	20	10	60	60	80
Manufacturing industries	31-33	10	20	10	70	70	90
Food	311	10	10	0	40	40	99
Beverage and tobacco products	312	0	10	0	90	90	0
Textiles, apparel, and leather	313-16	0	0	0	30	20	60
Wood products	321	70	70	0	50	50	90
Paper, printing, and support activities	322, 323	0	0	0	80	80	99
Petroleum and coal products	324	10	10	0	70	70	90
Chemicals	325	20	20	0	70	70	40
Basic chemicals	3251	10	10	0	40	40	30
Resin, synthetic rubber, fibers, and filament	3252	10	10	0	60	60	70
Pharmaceuticals and medicines	3254	20	20	0	70	70	50
Other chemicals	other 325	10	10	0	60	60	60
Plastics and rubber products	326	10	10	0	50	50	60
Nonmetallic mineral products	327	10	20	0	40	30	40
Primary metals	331	10	10	0	60	60	90
Fabricated metal products	332	10	10	0	20	20	70
Machinery	333	50	50	0	40	40	30
Computer and electronic products	334	10	10	10	70	70	90
Computers and peripheral equipment	3341	20	20	100	80	80	99
Communications equipment	3342	10	10	0	70	70	90
Semiconductor and other electronic components	3344	20	30	0	70	70	10
Navigational, measuring, electromedical, and control instruments	3345	10	10	0	80	70	90
Other computer and electronic products	other 334	10	10	0	60	60	0
Electrical equipment, appliances, and components	335	10	10	0	40	40	30
Transportation equipment	336	10	10	0	70	70	80
Motor vehicles, trailers, and parts	3361-63	10	10	0	60	60	20
Aerospace products and parts	3364	10	10	0	70	80	70
Other transportation equipment	other 336	40	40	0	80	50	99
Furniture and related products	337	0	0	0	40	40	0
Miscellaneous manufacturing	339	10	10	0	60	60	10
Medical equipment and supplies	3391	20	20	0	60	70	10
Other miscellaneous manufacturing	other 339	10	10	0	30	30	20

TABLE A-5. Imputation rates for survey items, by industry and company size: 2006
(Percent)

Industry and company size	NAICS codes	R&D performed by other organizations			Company-funded R&D projected for next year		
		Total	Company funded	Federally funded	Total	Company funded	Federally funded
Nonmanufacturing industries	21–23, 42, 44–81	10	20	0	40	30	60
Mining, extraction, and support activities	21	10	10	0	10	10	0
Utilities	22	10	10	0	20	20	20
Construction	23	0	0	0	70	70	60
Wholesale trade	42	20	20	0	30	30	60
Retail trade	44, 45	90	90	0	80	80	100
Transportation and warehousing	48, 49	0	0	0	80	80	0
Information	51	20	20	0	30	40	20
Publishing	511	30	30	0	40	40	20
Newspaper, periodical, book, and directory	5111	60	60	0	40	40	0
Software	5112	30	30	0	40	40	20
Telecommunications	517	10	10	0	60	60	100
Wired and wireless (except satellite)							
telecommunications carriers	5171, 5172	0	0	0	50	60	100
Satellite telecommunications	5174	0	0	0	0	0	0
Other telecommunications	other 517	10	10	0	80	80	0
Internet service providers, Web search portals, and data-processing services	518	10	10	0	20	20	10
Internet service providers and Web search portals	5181	0	0	0	30	30	0
Data-processing, hosting, and related services	5182	10	10	0	20	20	10
Other information	other 51	0	0	0	20	20	0
Finance, insurance, and real estate	52, 53	10	10	0	30	30	0
Professional, scientific, and technical services	54	10	10	0	40	30	60
Architectural, engineering, and related services	5413	10	10	0	50	40	70
Computer systems design and related services	5415	10	10	0	30	30	20
Scientific R&D services	5417	10	10	0	50	40	70
Other professional, scientific, and technical services	other 54	10	10	0	20	20	10
Health care services	621–23	0	0	0	10	10	10
Other nonmanufacturing ^a	55, 56, 61, 624, 71, 72, 81	10	10	0	30	30	40

TABLE A-5. Imputation rates for survey items, by industry and company size: 2006
(Percent)

Industry and company size	NAICS codes	R&D performed by other organizations			Company-funded R&D projected for next year		
		Total	Company funded	Federally funded	Total	Company funded	Federally funded
Company size (employees)							
All companies	-	10	20	10	60	60	80
5-24	-	10	10	10	20	20	20
25-49	-	10	10	0	30	30	20
50-99	-	20	20	0	30	30	40
100-249	-	10	10	0	50	50	50
250-499	-	10	10	0	30	30	30
500-999	-	30	30	0	50	50	40
1,000-4,999	-	30	30	0	50	50	80
5,000-9,999	-	30	30	0	60	60	60
10,000-24,999	-	10	10	0	50	50	40
25,000 or more	-	20	20	0	80	70	99

TABLE A-5. Imputation rates for survey items, by industry and company size: 2006
(Percent)

Industry and company size	NAICS codes	Total	Company-funded R&D performed by other organizations				
			For-profit companies	Federal agencies or laboratories	State government agencies or laboratories	Universities or colleges	Other nonprofit organizations
All industries	21-23, 31-33, 42, 44-81	20	20	10	0	10	10
Manufacturing industries	31-33	20	10	20	0	10	10
Food	311	10	10	0	0	0	0
Beverage and tobacco products	312	0	0	0	0	0	0
Textiles, apparel, and leather	313-16	0	0	0	0	0	0
Wood products	321	100	0	0	0	0	100
Paper, printing, and support activities	322, 323	0	0	0	0	0	0
Petroleum and coal products	324	10	10	0	0	0	0
Chemicals	325	20	20	0	0	10	10
Basic chemicals	3251	10	0	0	0	0	0
Resin, synthetic rubber, fibers, and filament	3252	10	10	0	0	10	0
Pharmaceuticals and medicines	3254	20	20	0	0	10	10
Other chemicals	other 325	10	10	0	0	0	0
Plastics and rubber products	326	10	10	0	0	20	0
Nonmetallic mineral products	327	10	0	0	0	0	0
Primary metals	331	10	0	0	0	0	0
Fabricated metal products	332	10	0	0	0	0	0
Machinery	333	50	60	0	0	0	0
Computer and electronic products	334	10	10	0	0	10	20
Computers and peripheral equipment	3341	20	10	0	0	20	0
Communications equipment	3342	10	10	0	0	0	90
Semiconductor and other electronic components	3344	30	30	0	0	10	0
Navigational, measuring, electromedical, and control instruments	3345	10	10	0	0	0	0
Other computer and electronic products	other 334	10	10	0	0	30	0
Electrical equipment, appliances, and components	335	20	10	0	0	0	0
Transportation equipment	336	10	10	0	0	10	0
Motor vehicles, trailers, and parts	3361-63	10	10	0	0	10	0
Aerospace products and parts	3364	10	10	0	0	0	0
Other transportation equipment	other 336	50	0	0	0	0	0
Furniture and related products	337	0	0	0	0	0	0
Miscellaneous manufacturing	339	20	20	99	0	20	70
Medical equipment and supplies	3391	20	20	99	0	20	70
Other miscellaneous manufacturing	other 339	50	0	0	0	0	0

TABLE A-5. Imputation rates for survey items, by industry and company size: 2006
(Percent)

Industry and company size	NAICS codes	Total	Company-funded R&D performed by other organizations				
			For-profit companies	Federal agencies or laboratories	State government agencies or laboratories	Universities or colleges	Other nonprofit organizations
Nonmanufacturing industries	21–23, 42, 44–81	20	20	0	0	10	10
Mining, extraction, and support activities	21	10	10	0	0	0	0
Utilities	22	10	10	0	0	0	10
Construction	23	0	0	0	0	0	0
Wholesale trade	42	40	30	0	0	0	0
Retail trade	44, 45	90	90	0	0	0	0
Transportation and warehousing	48, 49	0	0	0	0	0	0
Information	51	20	20	0	0	10	0
Publishing	511	40	40	0	0	0	0
Newspaper, periodical, book, and directory	5111	70	70	0	0	0	0
Software	5112	30	30	0	0	0	0
Telecommunications	517	10	0	0	0	40	0
Wired and wireless (except satellite) telecommunications carriers	5171, 5172	0	0	0	0	40	0
Satellite telecommunications	5174	0	0	0	0	0	0
Other telecommunications	other 517	100	0	0	0	0	0
Internet service providers, Web search portals, and data-processing services	518	10	10	0	0	0	0
Internet service providers and Web search portals	5181	0	0	0	0	0	0
Data-processing, hosting, and related services	5182	10	10	0	0	0	0
Other information	other 51	0	0	0	0	0	0
Finance, insurance, and real estate	52, 53	10	10	0	0	0	0
Professional, scientific, and technical services	54	10	10	0	0	10	10
Architectural, engineering, and related services	5413	10	10	0	0	0	0
Computer systems design and related services	5415	10	10	0	0	0	0
Scientific R&D services	5417	10	10	0	0	10	10
Other professional, scientific, and technical services	other 54	10	10	0	0	0	0
Health care services	621–23	0	0	0	0	0	0
Other nonmanufacturing ^a	55, 56, 61, 624, 71, 72, 81	10	10	0	0	0	0

TABLE A-5. Imputation rates for survey items, by industry and company size: 2006
(Percent)

Industry and company size	NAICS codes	Company-funded R&D performed by other organizations					
		Total	For-profit companies	Federal agencies or laboratories	State government agencies or laboratories	Universities or colleges	Other nonprofit organizations
Company size (employees)							
All companies	-	20	20	10	0	10	10
5-24	-	10	10	0	0	30	0
25-49	-	20	20	0	0	10	0
50-99	-	30	20	0	0	20	10
100-249	-	10	10	90	0	20	0
250-499	-	10	20	0	0	0	70
500-999	-	30	30	0	0	10	0
1,000-4,999	-	20	20	0	0	20	50
5,000-9,999	-	30	30	0	0	10	40
10,000-24,999	-	10	10	0	0	0	0
25,000 or more	-	20	20	0	0	20	0

TABLE A-5. Imputation rates for survey items, by industry and company size: 2006
(Percent)

Industry and company size	NAICS codes	Company-funded collaborative R&D performed by other organizations							Sales	Domestic employment
		Total	For-profit companies	Federal agencies or laboratories	State government agencies or laboratories	Universities or colleges	Other nonprofit organizations			
Company size (employees)										
All companies	-	10	10	10	0	10	0	10	10	
5-24	-	20	0	0	0	80	0	10	10	
25-49	-	10	0	0	0	0	0	10	10	
50-99	-	10	10	0	0	0	0	10	10	
100-249	-	10	10	20	0	0	0	10	10	
250-499	-	10	10	0	0	0	0	10	10	
500-999	-	0	0	0	0	0	0	10	10	
1,000-4,999	-	0	0	10	0	0	0	20	20	
5,000-9,999	-	10	10	0	0	0	0	10	10	
10,000-24,999	-	0	0	0	0	0	0	10	10	
25,000 or more	-	40	40	0	0	0	0	10	10	

TABLE A-5. Imputation rates for survey items, by industry and company size: 2006
(Percent)

Industry and company size	NAICS codes	R&D area				Scientists and engineers by source of funds			
		Biotech- nology	Software development	Materials synthesis and processing	Other areas	Percentage of nanotechnology	Total	Company funded	Federally funded
All industries	21–23, 31–33, 42, 44–81	30	20	20	20	0	40	40	70
Manufacturing industries	31–33	30	20	20	30	0	50	50	80
Food	311	10	0	10	10	0	30	30	80
Beverage and tobacco products	312	0	0	10	10	0	90	80	0
Textiles, apparel, and leather	313–16	0	0	10	30	0	50	50	99
Wood products	321	0	10	10	10	0	60	50	99
Paper, printing, and support activities	322, 323	0	30	10	30	0	70	60	99
Petroleum and coal products	324	0	0	90	10	0	70	80	20
Chemicals	325	30	20	20	30	0	50	60	60
Basic chemicals	3251	10	10	10	10	0	40	40	50
Resin, synthetic rubber, fibers, and filament	3252	0	0	30	40	0	10	60	80
Pharmaceuticals and medicines	3254	30	20	30	30	0	50	60	70
Other chemicals	other 325	20	30	10	10	0	40	30	60
Plastics and rubber products	326	0	20	20	10	0	30	20	80
Nonmetallic mineral products	327	0	0	20	10	0	60	50	99
Primary metals	331	0	0	10	10	0	50	50	99
Fabricated metal products	332	90	10	10	20	0	40	40	40
Machinery	333	0	10	10	10	0	40	40	70
Computer and electronic products	334	40	40	10	30	0	50	50	99
Computers and peripheral equipment	3341	0	70	20	10	0	40	40	99
Communications equipment	3342	0	30	10	10	0	50	50	90
Semiconductor and other electronic components	3344	90	10	10	50	0	40	40	20
Navigational, measuring, electromedical, and control instruments	3345	20	30	20	30	0	60	50	99
Other computer and electronic products	other 334	0	30	30	10	0	60	60	60
Electrical equipment, appliances, and components	335	0	10	30	20	0	40	40	90
Transportation equipment	336	0	10	30	30	0	50	50	50
Motor vehicles, trailers, and parts	3361–63	0	50	30	20	0	60	60	40
Aerospace products and parts	3364	0	10	20	10	0	20	30	40
Other transportation equipment	other 336	0	50	80	80	0	40	30	80
Furniture and related products	337	0	20	10	20	0	40	40	100
Miscellaneous manufacturing	339	20	30	30	20	0	40	40	40
Medical equipment and supplies	3391	20	40	40	20	0	40	40	30
Other miscellaneous manufacturing	other 339	90	10	10	10	0	30	20	60

TABLE A-5. Imputation rates for survey items, by industry and company size: 2006
(Percent)

Industry and company size	NAICS codes	R&D area				Scientists and engineers by source of funds				
		Biotech- nology	Software development	Materials synthesis and processing	Other areas	Percentage of nanotechnology	Total	Company funded	Federally funded	
Nonmanufacturing industries	21–23, 42, 44–81	20	20	10	20	0	30	30	70	
Mining, extraction, and support activities	21	50	0	0	20	0	20	20	40	
Utilities	22	20	10	30	10	0	20	20	10	
Construction	23	0	70	0	10	0	10	60	20	
Wholesale trade	42	40	10	20	30	0	20	20	80	
Retail trade	44, 45	0	50	20	20	0	40	40	100	
Transportation and warehousing	48, 49	0	10	0	30	0	60	60	0	
Information	51	10	20	20	30	0	20	20	20	
Publishing	511	10	20	0	40	0	20	20	50	
Newspaper, periodical, book, and directory	5111	100	20	0	50	0	40	40	100	
Software	5112	0	20	0	10	0	20	20	50	
Telecommunications	517	0	40	100	30	0	60	60	0	
Wired and wireless (except satellite) telecommunications carriers	5171, 5172	0	40	100	30	0	50	50	0	
Satellite telecommunications	5174	0	0	0	0	0	0	0	0	
Other telecommunications	other 517	0	80	0	40	0	90	90	0	
Internet service providers, Web search portals, and data-processing services	518	0	10	0	0	0	20	20	10	
Internet service providers and Web search portals	5181	0	10	0	0	0	20	20	0	
Data-processing, hosting, and related services	5182	0	10	0	0	0	20	20	10	
Other information	other 51	0	0	0	20	0	10	10	100	
Finance, insurance, and real estate	52, 53	99	10	0	10	0	40	30	0	
Professional, scientific, and technical services	54	20	10	10	20	0	30	30	70	
Architectural, engineering, and related services	5413	10	10	50	10	0	50	50	70	
Computer systems design and related services	5415	20	10	10	10	0	20	20	50	
Scientific R&D services	5417	20	20	20	20	0	30	30	70	
Other professional, scientific, and technical services	other 54	0	10	50	30	0	10	10	40	
Health care services	621–23	20	10	10	10	0	20	40	99	
Other nonmanufacturing ^a	55, 56, 61, 624, 71, 72, 81	40	10	10	20	0	50	40	70	

TABLE A-5. Imputation rates for survey items, by industry and company size: 2006
(Percent)

Industry and company size	NAICS codes	R&D area				Scientists and engineers by source of funds			
		Biotech- nology	Software development	Materials synthesis and processing	Other areas	Percentage of nanotechnology	Total	Company funded	Federally funded
Company size (employees)									
All companies	-	30	20	20	20	0	40	40	70
5-24	-	10	10	10	10	0	30	30	80
25-49	-	20	10	20	10	0	30	20	50
50-99	-	30	10	20	20	0	20	20	80
100-249	-	10	20	30	30	0	40	30	80
250-499	-	30	30	10	20	0	30	30	70
500-999	-	30	30	30	20	0	40	40	50
1,000-4,999	-	40	20	20	20	0	40	40	40
5,000-9,999	-	90	20	20	50	0	50	50	20
10,000-24,999	-	0	50	10	10	0	50	50	90
25,000 or more	-	40	10	10	30	0	40	40	80

TABLE A-5. Imputation rates for survey items, by industry and company size: 2006
(Percent)

Industry and company size	NAICS codes	Company-funded R&D performed outside of the 50 United States and DC							
		Total	By organizations more than 50% owned by the company						
			Puerto Rico	Canada	China	France	Germany	India	Ireland
All industries	21-23, 31-33, 42, 44-81	20	10	10	10	30	20	10	10
Manufacturing industries	31-33	20	10	20	20	30	20	20	20
Food	311	0	0	0	0	0	0	0	0
Beverage and tobacco products	312	0	0	0	0	0	0	0	0
Textiles, apparel, and leather	313-16	10	0	0	0	0	0	0	0
Wood products	321	10	0	100	0	0	0	0	0
Paper, printing, and support activities	322, 323	0	0	0	0	0	0	0	0
Petroleum and coal products	324	0	0	0	0	0	0	0	0
Chemicals	325	30	10	50	20	20	30	10	10
Basic chemicals	3251	10	0	0	0	0	0	0	0
Resin, synthetic rubber, fibers, and filament	3252	10	0	0	0	0	10	0	0
Pharmaceuticals and medicines	3254	30	10	60	40	30	40	10	10
Other chemicals	other 325	50	30	0	0	0	0	0	0
Plastics and rubber products	326	10	99	0	20	10	0	0	70
Nonmetallic mineral products	327	10	0	0	0	0	0	0	0
Primary metals	331	0	0	0	0	0	0	0	0
Fabricated metal products	332	20	0	10	80	0	0	0	0
Machinery	333	10	0	10	0	20	10	0	0
Computer and electronic products	334	20	0	20	20	40	50	20	40
Computers and peripheral equipment	3341	10	0	40	10	10	10	20	70
Communications equipment	3342	20	0	10	10	10	20	10	0
Semiconductor and other electronic components	3344	20	0	30	20	70	40	30	20
Navigational, measuring, electromedical, and control instruments	3345	20	0	10	0	20	20	40	0
Other computer and electronic products	other 334	10	0	0	0	0	99	0	0
Electrical equipment, appliances, and components	335	10	0	20	0	70	10	0	0
Transportation equipment	336	20	0	10	20	40	20	10	0
Motor vehicles, trailers, and parts	3361-63	20	0	10	60	50	20	20	0
Aerospace products and parts	3364	10	0	0	0	0	10	0	0
Other transportation equipment	other 336	10	0	0	0	0	0	0	0
Furniture and related products	337	20	0	100	0	0	0	0	0
Miscellaneous manufacturing	339	20	0	10	10	30	40	0	10
Medical equipment and supplies	3391	20	0	10	30	30	40	0	10
Other miscellaneous manufacturing	other 339	10	0	0	0	0	0	0	0

TABLE A-5. Imputation rates for survey items, by industry and company size: 2006
(Percent)

Industry and company size	NAICS codes	Company-funded R&D performed outside of the 50 United States and DC							
		Total	By organizations more than 50% owned by the company						
			Puerto Rico	Canada	China	France	Germany	India	Ireland
Company size (employees)									
All companies	-	20	10	10	10	30	20	10	10
5-24	-	10	0	0	0	0	0	0	0
25-49	-	10	0	10	99	0	0	0	0
50-99	-	10	0	60	0	100	0	10	0
100-249	-	10	0	10	10	0	20	20	0
250-499	-	20	100	10	0	0	20	10	0
500-999	-	20	0	50	20	50	10	50	30
1,000-4,999	-	20	10	10	20	20	20	10	10
5,000-9,999	-	20	0	10	30	50	40	20	10
10,000-24,999	-	20	0	10	10	10	10	20	20
25,000 or more	-	20	10	20	10	30	20	10	10

TABLE A-5. Imputation rates for survey items, by industry and company size: 2006
(Percent)

Industry and company size	NAICS codes	Company-funded R&D performed outside of the 50 United States and DC						
		By organizations more than 50% owned by the company						
		Israel	Italy	Japan	Singapore	Sweden	United Kingdom	Other locations
All industries	21–23, 31–33, 42, 44–81	30	20	30	20	10	10	20
Manufacturing industries	31–33	30	30	40	30	20	20	30
Food	311	0	0	0	0	0	0	0
Beverage and tobacco products	312	0	0	0	0	0	0	0
Textiles, apparel, and leather	313–16	0	0	0	0	0	10	0
Wood products	321	0	0	0	0	0	0	0
Paper, printing, and support activities	322, 323	0	0	0	0	0	0	0
Petroleum and coal products	324	0	0	0	0	0	0	0
Chemicals	325	20	50	50	10	40	20	10
Basic chemicals	3251	0	0	0	0	0	0	10
Resin, synthetic rubber, fibers, and filament	3252	0	0	0	0	0	0	0
Pharmaceuticals and medicines	3254	20	50	60	10	50	20	10
Other chemicals	other 325	0	0	0	0	0	0	90
Plastics and rubber products	326	0	0	0	0	0	10	10
Nonmetallic mineral products	327	0	0	0	0	0	0	70
Primary metals	331	0	0	0	0	0	0	0
Fabricated metal products	332	0	0	0	0	10	20	0
Machinery	333	10	10	10	0	0	10	30
Computer and electronic products	334	40	0	30	30	30	20	20
Computers and peripheral equipment	3341	100	0	20	10	0	10	30
Communications equipment	3342	90	0	50	30	80	40	10
Semiconductor and other electronic components	3344	20	0	30	10	10	40	10
Navigational, measuring, electromedical, and control instruments	3345	0	0	20	80	0	10	50
Other computer and electronic products	other 334	0	0	0	0	0	0	0
Electrical equipment, appliances, and components	335	0	0	0	0	0	10	10
Transportation equipment	336	0	10	30	0	10	40	70
Motor vehicles, trailers, and parts	3361–63	0	20	50	0	10	60	90
Aerospace products and parts	3364	0	0	10	0	0	10	0
Other transportation equipment	other 336	0	0	0	0	0	0	20
Furniture and related products	337	0	0	0	0	0	0	0
Miscellaneous manufacturing	339	0	90	50	0	10	30	10
Medical equipment and supplies	3391	0	90	50	0	10	80	10
Other miscellaneous manufacturing	other 339	0	0	0	0	0	0	0

TABLE A-5. Imputation rates for survey items, by industry and company size: 2006
(Percent)

Industry and company size	NAICS codes	Company-funded R&D performed outside of the 50 United States and DC						
		By organizations more than 50% owned by the company						
		Israel	Italy	Japan	Singapore	Sweden	United Kingdom	Other locations
Nonmanufacturing industries	21–23, 42, 44–81	0	10	10	10	0	10	10
Mining, extraction, and support activities	21	0	0	0	0	0	0	0
Utilities	22	0	0	0	0	0	0	0
Construction	23	0	0	0	0	0	0	0
Wholesale trade	42	0	0	0	0	0	10	70
Retail trade	44, 45	0	0	0	0	0	0	10
Transportation and warehousing	48, 49	0	0	0	0	0	0	0
Information	51	0	0	10	0	0	10	10
Publishing	511	0	0	0	0	0	10	10
Newspaper, periodical, book, and directory	5111	0	0	0	0	0	0	0
Software	5112	0	0	0	0	0	10	10
Telecommunications	517	0	0	80	0	0	10	0
Wired and wireless (except satellite)								
telecommunications carriers	5171, 5172	0	0	80	0	0	10	0
Satellite telecommunications	5174	0	0	0	0	0	0	0
Other telecommunications	other 517	0	0	0	0	0	0	0
Internet service providers, Web search portals, and data-processing services	518	0	0	0	0	0	10	0
Internet service providers and Web search portals	5181	0	0	0	0	0	0	0
Data-processing, hosting, and related services	5182	0	0	0	0	0	10	0
Other information	other 51	0	0	0	0	0	0	0
Finance, insurance, and real estate	52, 53	0	0	0	0	0	0	0
Professional, scientific, and technical services	54	0	10	0	10	0	10	10
Architectural, engineering, and related services	5413	0	0	0	0	0	0	0
Computer systems design and related services	5415	0	0	0	0	0	10	10
Scientific R&D services	5417	0	10	0	10	0	10	10
Other professional, scientific, and technical services	other 54	0	0	0	0	0	0	0
Health care services	621–23	0	0	0	0	0	0	0
Other nonmanufacturing ^a	55, 56, 61, 624, 71, 72, 81	0	0	0	0	0	0	0

TABLE A-5. Imputation rates for survey items, by industry and company size: 2006
(Percent)

Industry and company size	NAICS codes	Company-funded R&D performed outside of the 50 United States and DC						
		By organizations more than 50% owned by the company						
		Israel	Italy	Japan	Singapore	Sweden	United Kingdom	Other locations
Company size (employees)								
All companies	-	30	20	30	20	10	10	20
5-24	-	0	0	0	0	0	0	0
25-49	-	0	70	0	0	0	40	10
50-99	-	100	0	0	0	0	30	20
100-249	-	0	0	20	0	0	20	60
250-499	-	0	0	0	10	0	0	40
500-999	-	50	0	10	10	60	20	20
1,000-4,999	-	70	10	20	70	10	10	30
5,000-9,999	-	30	0	30	10	10	20	30
10,000-24,999	-	10	0	10	0	0	10	10
25,000 or more	-	10	40	40	10	10	20	20

TABLE A-5. Imputation rates for survey items, by industry and company size: 2006
(Percent)

Industry and company size	NAICS codes	Energy R&D							
		Total				Federally funded			
		Fossil fuels	Geothermal and solar	Nuclear	All other energy sources	Fossil fuels	Geothermal and solar	Nuclear	All other energy sources
Company size (employees)									
All companies	-	10	30	30	10	0	0	0	10
5-24	-	0	0	0	0	0	0	0	0
25-49	-	0	0	0	0	0	0	0	0
50-99	-	0	0	0	0	0	0	0	0
100-249	-	0	0	0	0	0	0	0	0
250-499	-	0	0	0	10	0	0	0	10
500-999	-	0	0	0	0	0	0	0	0
1,000-4,999	-	10	10	0	10	0	0	0	0
5,000-9,999	-	30	99	100	50	0	0	0	0
10,000-24,999	-	0	0	0	0	0	0	0	0
25,000 or more	-	0	0	0	0	0	0	0	0

- = not applicable.

^a Estimates for management of companies and enterprises (NAICS 55), formerly shown separately, now are included in other nonmanufacturing.

NOTES: Method used to assign industry classifications has changed; industry-specific estimates are not directly comparable with those for years prior to 2004. Percentages in this table are imputation rates that represent the weighted proportion of imputed data to the estimate in a given table cell in the detailed statistical tables. In those tables, cells for which more than 50% of the estimate is imputed are noted with i. In this table, imputation rates greater than 0% and less than 100% are rounded up to the nearest 10%, except rates greater than 90% and less than 100% are rounded to 99% to distinguish these rates from 100%. An imputation rate of 0% indicates that no nonzero imputed data are used in the calculation of the estimate. For definitions and more information about year-to-year comparability of statistics, see "Technical Notes," appendix A.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Industrial Research and Development: 2006.