

Appendix

State	Naturalized Citizens	Legal Foreign-Born	Undocumented	Foreign-Born Share of All Essential Workers	Foreign-Born Share of Labor Force
Total	9,609,000	4,619,600	5,531,300	18.3	17.5
Alabama	23,300	14,700	30,100	4.5	4.5
Alaska	20,500	6,800	2,700	11.4	10.6
Arizona	183,400	104,600	133,500	18.9	17.2
Arkansas	22,900	15,000	32,300	7.5	7.3
California	2,256,200	1,076,900	1,206,600	35.9	33.3
Colorado	108,400	61,300	84,600	12.9	12.0
Connecticut	116,400	54,300	58,200	18.7	18.4
Delaware	21,300	8,400	14,200	13.2	12.1
District Of Columbia	16,600	14,600	10,900	18.6	16.7
Florida	1,020,500	474,900	396,300	28.2	26.6
Georgia	210,000	91,100	173,600	14.1	13.7
Hawaii	70,100	33,200	18,300	23.6	22.4
Idaho	21,500	10,700	26,000	10.2	8.6
Illinois	407,000	171,800	244,000	19.2	18.1
Indiana	63,200	37,500	52,500	6.7	6.8
Iowa	35,400	28,200	29,800	8.0	7.7
Kansas	41,600	18,200	39,700	9.8	9.5
Kentucky	32,600	19,100	26,500	5.5	5.2
Louisiana	28,900	15,400	35,100	5.5	5.5
Maine	11,000	7,400	2,400	4.3	4.0
Maryland	237,400	90,500	118,300	21.2	20.1
Massachusetts	291,600	149,000	88,900	22.5	20.8
Michigan	155,400	72,400	55,400	8.4	8.2
Minnesota	118,800	61,600	48,700	11.4	10.7
Mississippi	10,500	6,600	11,200	3.2	3.2
Missouri	60,300	27,300	24,900	5.5	5.4
Montana	5,800	2,500	1,000	2.4	2.3
Nebraska	29,600	19,900	22,500	9.9	9.3
Nevada	127,000	51,400	84,900	27.4	25.5
New Hampshire	21,100	7,900	2,600	6.4	6.5
New Jersey	528,900	180,500	202,600	30.6	29.2
New Mexico	31,000	20,700	34,400	13.5	12.1
New York	1,100,300	480,700	360,800	31.0	28.2
North Carolina	136,100	80,500	158,600	11.2	10.9
North Dakota	7,100	6,000	5,200	6.0	6.3

Ohio	123,700	57,100	47,900	5.7	5.8
Oklahoma	41,900	24,900	48,100	9.0	8.1
Oregon	85,400	43,200	72,400	14.6	13.2
Pennsylvania	213,900	91,100	92,800	9.1	9.2
Rhode Island	34,000	11,500	12,100	16.4	16.2
South Carolina	45,400	26,600	40,000	6.8	6.6
South Dakota	9,900	4,900	2,100	5.2	4.7
Tennessee	64,000	41,200	66,900	7.7	7.1
Texas	820,800	515,200	918,500	24.0	22.4
Utah	44,800	32,000	49,800	12.9	11.2
Vermont	9,000	3,100	1,100	5.8	5.5
Virginia	244,100	92,400	144,200	17.1	16.8
Washington	232,500	116,600	148,800	19.7	18.8
West Virginia	4,900	800	2,300	1.5	1.7
Wisconsin	60,500	35,800	43,300	6.7	6.3
Wyoming	2,600	1,800	3,500	3.6	3.9

Source: Center for Migration Studies of New York. See text for method of estimation. Data collected in the 2018 ACS.

Type of worker or economic activity	Legal status of foreign-born			Foreign-born share of essential workers
	Naturalized	Legal resident	Undocumented	
Total foreign-born essential workers	9,609,000	4,619,600	5,531,300	18.3
Essential Health Care Operations	2,026,900	635,000	351,600	16.3
Hospitals	862,400	212,000	94,800	16.1
Nursing homes or residential health care facilities or congregate care facilities	302,100	115,700	78,900	16.9
Offices of Doctors and Emergency Dentists	309,900	68,600	38,200	14.8
Home Health Care Workers or Aides for the Elderly	220,000	108,000	64,600	25.7
Walk-In Care Health Facilities	155,900	44,000	32,400	12.8
Research and Laboratory Services	78,400	46,600	24,800	22.2
Medical Wholesale and Distribution	21,400	11,300	6,300	16.2
Emergency Veterinary and Livestock Services	10,500	5,800	2,800	5.1
Other essential health care operations	66,400	22,800	8,800	11.1
Essential Infrastructure	1,045,800	424,700	376,200	21.1
Transportation Infrastructure such as Bus, Rail, or For-Hire Vehicles, Garages	571,300	238,000	181,000	22.8
Hotels and Places of Accommodation	238,400	105,200	137,000	30.7
Telecommunications and Data Centers	90,800	36,200	31,400	15.1
Airports and Airlines	77,500	25,800	15,800	18.8
Utilities, Including Power Generation, Fuel Supply, and Transmission	47,200	14,000	9,500	8.5
Public Water and Wastewater	20,600	5,500	1,500	8.6
Essential Manufacturing	1,198,800	699,400	857,000	20.8

Agriculture and Farms	108,800	159,900	310,800	31.3
Food Processing, Manufacturing Agents, Including All Foods and Beverages	199,200	145,500	193,900	26.4
Microelectronics, Semi-Conductors	186,200	69,300	54,500	30.5
Motor vehicles and motor vehicle equipment manufacturing	86,000	64,200	47,200	13.6
Medical Equipment and Instruments	97,400	30,900	24,000	24.2
Pharmaceuticals	86,400	30,600	18,500	25.2
Aircraft and parts manufacturing	83,400	20,800	13,100	16.7
Plastics product manufacturing	35,300	19,600	23,900	17.5
Electric lighting and electrical equipment manufacturing, and other electrical component manufacturing, n.e.c.	42,700	16,000	14,600	20.0
Miscellaneous fabricated metal products manufacturing	24,800	14,500	15,100	15.6
Chemicals	26,800	13,800	12,100	12.1
Structural metals, and boiler, tank, and shipping container manufacturing	22,900	12,000	17,400	13.9
Household Paper Products	24,700	10,300	13,200	12.7
Machine shops; turned product; screw, nut, and bolt manufacturing	22,300	11,000	12,800	14.1
Telecommunications	23,600	8,500	4,400	28.0
Sanitary Products	15,000	11,300	7,600	23.2
Iron and steel mills and steel product manufacturing	15,200	7,300	10,700	11.9
Other essential manufacturing	98,200	53,900	63,000	12.1
Essential Wholesale	203,300	112,600	137,200	17.6
Grocery and related product merchant wholesalers	81,200	56,600	76,300	26.0
Household appliances and electrical and electronic goods merchant wholesalers	21,500	11,100	7,700	18.4

Machinery, equipment, and supplies merchant wholesalers	21,800	7,900	9,900	9.3
Motor vehicle and motor vehicle parts and supplies merchant wholesalers	21,200	9,800	8,100	16.2
Lumber and other construction materials merchant wholesalers	11,400	4,100	9,000	14.5
Hardware, and plumbing and heating equipment, and supplies merchant wholesalers	10,500	5,200	3,900	11.0
Petroleum and petroleum products merchant wholesalers	5,800	3,800	2,500	12.2
Paper and paper products merchant wholesalers	4,600	1,600	2,700	15.2
Other essential wholesale	25,400	12,500	17,100	15.3
Energy	53,900	31,800	30,500	12.5
Support activities for mining	25,600	19,100	18,100	14.2
Petroleum refining	11,700	5,400	5,500	13.8
Oil and gas extraction	8,400	4,500	3,400	12.6
Other energy workers	8,100	2,700	3,500	7.5
Essential Retail	1,228,100	745,400	1,085,200	18.4
Restaurants	741,700	516,800	846,100	20.5
Grocery Stores including All Food and Beverage Stores	234,000	136,800	147,300	16.7
Pharmacies	100,100	29,100	20,500	16.1
Hardware and Building Material Stores	64,200	28,300	28,900	9.3
Gas Stations	56,000	22,900	26,500	18.0
Convenience Stores	28,900	10,200	13,900	15.8
Fuel dealers	3,300	1,300	2,200	7.3
Essential Services	761,200	461,700	661,100	20.2
Landscapers	109,900	112,200	277,600	35.3

Warehouse, Distribution, and Fulfillment	125,500	93,400	103,000	21.1
Auto Repair	130,600	73,000	102,200	17.0
Child Care Services	144,600	80,500	66,700	18.0
Mail and Shipping Services	139,000	44,700	26,800	13.5
Laundromats	42,600	21,500	42,800	37.9
Trash and Recycling Collection, Processing, and Disposal	33,900	16,400	25,700	15.8
Personal and Household Goods Repair	17,400	11,300	8,000	21.1
Animal Shelters	12,000	5,700	6,900	7.7
Funeral Homes, Crematoriums, and Cemeteries	6,000	3,100	1,500	7.1
News Media	46,700	20,600	16,600	12.2
Financial Institutions	1,020,900	337,100	229,300	14.4
Banks	325,100	111,900	85,000	15.8
Real Estate	255,900	66,000	51,800	14.6
Services Related to Financial Markets	166,100	65,300	41,600	14.2
Insurance	154,400	48,900	37,800	11.8
Payroll and Accounting	119,400	45,000	13,000	15.0
Providers of Basic Necessities to Economically Disadvantaged Populations and Employees at Correctional Facilities	223,300	81,700	38,600	14.8
Services to Individuals and Families	186,000	70,700	35,500	17.8
Food Banks and Shelters	11,000	4,500	2,600	11.7
Other Providers of Basic Necessities	26,300	6,600	400	6.4
Construction	799,800	604,100	1,398,500	24.8
Construction	701,600	555,900	1,320,500	26.0
Electricians	62,000	27,700	37,500	15.1
Plumbers	36,200	20,500	40,500	17.2

Defense	103,700	38,500	0	9.0
Essential Services Necessary to Maintain the Safety, Sanitation, and Essential Operations of Residences or Other Essential Businesses	539,600	336,800	342,200	19.1
Building Cleaners or Janitors	345,400	247,300	268,400	27.9
Security	80,400	33,700	24,700	13.5
Disinfection	32,200	36,500	45,100	23.2
Emergency Management and Response	9,700	2,800	3,100	5.8
Other Essential Services Necessary to Maintain Safety, Sanitation, and Essential Operations	71,900	16,500	900	5.9
Vendors that Provide Essential Services or Products, Including Logistics and Technology Support	357,100	90,200	7,300	9.8
Source: Center for Migration Studies. Data collected in the 2018 ACS. See text for method of estimation.				

Table 3: Foreign-Born Essential Workers by Select States and Industries

	California	Florida	Hawaii	Illinois	Maryland	Mass.	Mich.	Nevada	New Jersey	New York	Penn.	Texas
Number of:												
Health Care Workers	597,700	313,900	16,700	122,900	100,000	124,100	50,200	30,700	168,300	409,000	82,200	260,600
Janitors and Building Cleaners	173,000	86,900	5,000	36,400	17,900	24,200	5,200	16,100	36,600	100,300	17,500	105,600
Workers in Disinfection	33,100	12,300	1,400	2,800	700	3,400	1,000	2,500	3,200	7,500	2,000	15,100
Workers in Agriculture	291,093	35,346	2,540	3,982	1,010	1,096	5,330	1,237	3,675	6,454	7,334	32,198
Workers in Food and Beverage Manufacturing	112,800	22,800	1,700	29,600	3,100	10,200	9,400	3,300	20,300	21,900	16,600	44,600
Workers in Transport (Except Airlines)	225,700	111,500	5,900	60,400	18,300	22,000	12,900	13,300	51,500	159,200	18,600	100,100
Percentage of all:												
Health Care Workers	31.6	27.7	24.2	16.7	24.6	23.3	8.2	24.8	30.7	32.9	9.2	18.6
Janitors and Building Cleaners	52.4	41.9	31.6	28.7	32.2	39.1	4.9	51.2	46.9	40.8	13.7	41.1
Workers in Disinfection	53.7	30.5	39.2	16.8	12.7	36.2	5.9	47.3	38.6	32.7	12.8	31.6
Workers in Agriculture	68.4	48.2	35.1	7.3	8.6	10.9	12.9	19.2	32.1	15.6	14.9	30.0
Workers in Food and Beverage Manufacturing	44.1	37.7	32.6	27.0	15.5	38.5	19.8	35.7	45.5	29.6	18.5	33.6

Workers in Transport (Except Airlines)	42.5	38.1	31.8	25.9	22.9	30.8	12.3	27.7	36.7	47.1	10.3	25.3
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Source: Center for Migration Studies of New York. See text for method of estimation. Data collected in the 2018 ACS.