

Appendix: Tracking Jobs in Clean Industries in New England

Supplemental materials for the article written and published in the Q3 2011 edition of New England Economic Indicators. Article written by Ross Gittel, James R. Carter Professor at the University of New Hampshire's Whittemore School of Business and Economics and former visiting scholar with the New England Public Policy Center, and Josh Stillwagon, Ph.D. Candidate in Economics, University of New Hampshire.

A. Four Definitions of Clean Industries: Discussion and Data

The Pew definition

Analysts at the Pew Charitable Trusts worked with Collaborative Economics, a consulting firm based in Silicon Valley, to construct their definition of clean industries, and to collect and analyze data.¹ The researchers relied primarily on the National Establishment Time Series (NETS) database for employment data, because it provides the most detailed information at the level of business establishments, also known as business units, which may be parts of larger companies.

The researchers selected business establishments by industry, as defined by their 8-digit Standard Industrial Code (SIC). After identifying establishments and their associated employment levels in 16 industry segments, the analysts condensed these segments into five broader categories (see Table A1). The methodology is proprietary, so the list of industries in each segment is not publicly available by SIC code.

Table A1. Clean industries according to the Pew definition

Category	Industry Segment
Clean energy	Energy generation, energy transmission, and energy storage
Energy Efficiency	Energy efficiency
Environmentally Friendly Production	Transportation, manufacturing/industrial, construction, agriculture, energy production, and materials
Conservation & Pollution Mitigation	Air & environment, recycling & waste, and water & wastewater
Training & Support	Business services, finance/investment, and research & advocacy

¹ Pew Charitable Trusts, *The Clean Energy Economy*, Washington, DC, 2009. Online at http://www.Pewcenteronthestates.org/uploadedFiles/Clean_Economy_Report_Web.pdf.

The Brookings definition

The Brookings Institution analysts worked with Battelle Technology Partnership Practice, a firm based in Cleveland, to build a database of “clean economy” establishments and employment.² Like the Pew analysts, the Brookings researchers used 8-digit SICs to identify clean industries that fit their definition.³ The Brookings analysts included 39 industry segments composed of 8-digit SIC industries and grouped the segments into five categories (see Table A2). The researchers then identified establishments and employment levels within each segment.

The Brookings definition focuses on industries whose products and services have environmental benefits, such as managing natural resources—including energy, air, and water—for greater efficiency and conservation.. This definition, unlike the one used by the Pew researchers, does not include establishments that conduct themselves in an environmentally friendly manner by such means as adopting internal environmental goals, making processes more environmentally responsible, or even contributing to knowledge about environmental challenges.

In addition, the Brookings analysts include only establishments that make products or provide services focused exclusively on the “clean economy,” rather than including establishments that make products and provide services used in a broad range of industries. This definition therefore leaves out jobs at firms that serve clean industries but do not focus exclusively on these industries.

The Brookings analysts used the NETS and Dun & Bradstreet databases to compile employment figures at the establishment level.⁴

² Mark Muro and Jonathan Rothwell, *Sizing the Clean Economy: A National and Regional Green Jobs Assessment*, Washington, DC: Brookings Institution, 2011, Online at http://www.brookings.edu/metro/Clean_Economy.aspx.

³ The Brookings analysts also included some specific firms outside these industries that they considered part of the clean economy.

⁴ The names of the specific firms in the Brookings database are not available, because of the analysts’ agreement with their data providers.

Table A2. Clean industries according to the Brookings definition

Industry Category	Segments	Standard Industrial Code (by code and industry name)
Agricultural & Natural Resources Conservation		
	Conservation	1810103 - Mats, pre-seeded: soil erosion, growing of, 8510102 - Reforestation services, 35890300 - Sewage and water treatment equipment, 38220000 - Environmental controls, 49520000 - Sewerage systems, 49590302 - Environmental cleanup services, 50399912 - Soil erosion control fabrics, 86419903 - Environmental protection organization, 87310301 - Energy research, 87489905 - Environmental consultant, 89990703 - Natural resource preservation service
	Organic food & farming	86419903 - Environmental protection organization
	Sustainable forestry products	8510102 - Reforestation services, 86419903 - Environmental protection organization
Education & Compliance		
	Regulation & compliance	38220000 - Environmental controls, 81110208 - Environmental law, 86419903 - Environmental protection organization, 87349911 - Water testing laboratory, 87449904 - Environmental remediation, 89990703 - Natural resource preservation service
	Training	86419903 - Environmental protection organization, 87489905 - Environmental consultant
Energy & Resource Efficiency		
	Appliances	17310202 - Energy management controls, 50740200 - Heating equipment (hydronic)
	Battery technologies	35890306 - Water treatment equipment industrial, 36210116 - Storage battery chargers, motor and engine generator type, 36290107 - Thermo-electric generators, 36919902 - Batteries rechargeable, 87119906 - Energy conservation engineering, 87310301 - Energy research
	Electric vehicle technologies	37110104 - Cars, electric, assembly of, 87310301 - Energy research
	Energy-saving building materials	17310203 - Environmental system control installation, 17420203 - Insulation, buildings, 17990208 - Insulation of pipes and boilers, 24930400 - Insulation and roofing material, reconstituted wood, 28999928 - Insulating compounds, 32110302 - Insulating glass, sealed units, 32310401 - Insulating glass: made from purchased glass, 34430304 - Economizers (boilers), 38220000 - Environmental controls, 50330200 - Insulation materials, 50740208 - Heating equipment and panels, solar, 52110300 - Insulation and energy conservation products, 87119906 - Energy conservation engineering, 87489904 - Energy conservation consultant
	Energy-saving consumer products	17310202 - Energy management controls, 17420203 - Insulation, buildings, 36410106 - Lamps, fluorescent, electric, 36459905 - Fluorescent lighting fixtures, residential, 38290218 - Solarimeters, 87310301 - Energy research
	Fuel cells	36290102 - Electrochemical generators (fuel cells), 36749901 - Fuel cells, solid state, 87310301 - Energy research

Green architecture and construction services	17310203 - Environmental system control installation, 17420203 - Insulation, buildings, 87110101 - Pollution control engineering, 87489904 - Energy conservation consultant
HVAC & building control systems	16290505 - Waste water and sewage treatment plant construction, 17310202 - Energy management controls, 35640101 - Air cleaning systems, 36130210 - Regulators, power, 38220000 - Environmental controls, 38260700 - Instruments measuring thermal properties, 50330200 - Insulation materials, 50740200 - Heating equipment (hydronic), 50840704 - Meters, consumption registering, 76990304 - Thermostat repair, 87110403 - Heating and ventilation engineering, 87310301 - Energy research
Lighting	17310202 - Energy management controls, 36410106 - Lamps, fluorescent, electric, 36469904 - Fluorescent lighting fixtures, commercial
Professional energy services	17310203 - Environmental system control installation, 52110301 - Energy conservation products, 87119906 - Energy conservation engineering, 87310301 - Energy research, 87489904 - Energy conservation consultant
Public mass transit	40119902 - Interurban railways, 41110000 - Local and suburban transit, 41190000 - Local passenger transportation, nec, 41310000 - Intercity and rural bus transportation, 41739901 - Bus terminal operation, 44890000 - Water passenger transportation, 47299901 - Carpool/vanpool arrangement, 47890200 - Passenger train services
Smart grid	17310202 - Energy management controls, 36130210 - Regulators, power, 36290101 - Battery chargers, rectifying or nonrotating, 73899931 - Meter readers, remote, 87119906 - Energy conservation engineering, 87310301 - Energy research, 87489904 - Energy conservation consultant
Water efficient products	35890306 - Water treatment equipment, industrial, 35999919 - Water leak detectors, 38240117 - Water meters, 38250303 - Current measuring equipment, nec, 50740102 - Water purification equipment, 50930200 - Metal scrap and waste materials, 73899931 - Meter readers, remote
Greenhouse Gas Reduction, Environmental Management, & Recycling	
Air and water purification technologies	17310203-Environmental system control installation, 28999948 -Water treating compounds, 35640101-Air Cleaning Systems, 35890304- Water Filters and softners Household type, 38229904-Electric air cleaner controls automatic, 50740102- Water purification equipment, 86419903- Environmental protection organization, 87349911 -Water testing laboratory
Carbon storage & management	13110201 - Coal Gasification
Green building materials	17420203 - Insulation, buildings, 52110302 - Insulation material, building
Green chemical products	28210401 - Carbohydrate plastics, 28739901 - Fertilizers: natural (organic), except compost, 50939905 - Oil, waste
Green consumer products	28759901 - Compost, 35999919 - Water leak detectors, 49539905 -Recycling, waste materials, 49590302 - Environmental cleanup services, 50399912 - Soil erosion control fabrics, 50939905 - Oil, waste, 87489905 - Environmental consultant
Nuclear energy	87310301 - Energy research

Pollution reduction	17310203 - Environmental system control installation, 17969906 - Pollution control equipment installation, 38220000 - Environmental controls, 38269907 - Environmental testing equipment, 50840706 - Pollution control equipment, air (environmental), 73890201 - Air pollution measuring service, 86419903 - Environmental protection organization, 87110101 - Pollution control engineering
Professional environmental services	8510102 - Reforestation services, 17310203 - Environmental system control installation, 28999928 - Insulating compounds, 38220000 - Environmental controls, 73890201 - Air pollution measuring service, 86419903 - Environmental protection organization, 87110101 - Pollution control engineering, 87310302 - Environmental research, 87489905 - Environmental consultant, 89990703 - Natural resource preservation service
Recycled-content products	24930400 - Insulation and roofing material, reconstituted wood, 28759901 - Compost, 28999928 - Insulating compounds, 38220000 - Environmental controls, 49539905 - Recycling, waste materials, 50330200 - Insulation materials, 50930105 - Waste paper, 87310301 - Energy research
Recycling & reuse	8510102 - Reforestation services, 16290505 - Waste water and sewage treatment plant construction, 28759901 - Compost, 35599937 - Recycling machinery, 35890306 - Water treatment equipment, industrial, 36919902 - Batteries, rechargeable, 49539905 - Recycling, waste materials, 49590302 - Environmental cleanup services, 50849914 - Recycling machinery and equipment, 50939905 - Oil, Waste, 52110302 - Insulation material, building, 86419903 - Environmental protection organization, 87310301 - Energy research, 87489905 - Environmental consultant, 89990703 - Natural resource preservation service
Remediation	17310202 - Energy management controls, 17990801 - Asbestos removal and encapsulation, 35899901 - Asbestos removal equipment, 49530102 - Chemical detoxification, 49590302 - Environmental cleanup services, 86419903 - Environmental protection organization, 87340301 - Hazardous waste testing, 87449904 - Environmental remediation, 87489905 - Environmental consultant
Waste management & treatment	8510102 - Reforestation services, 16290505 - Waste water and sewage treatment plant construction, 17310203 - Environmental system control installation, 28999948 - Water treating compounds, 35890306 - Water treatment equipment, industrial, 38230506 - Water quality monitoring and control systems, 49520000 - Sewerage systems, 49590302 - Environmental cleanup services, 50750103 - Air pollution control equipment and supplies, 86419903 - Environmental protection organization, 87349911 - Water testing laboratory, 87489905 - Environmental consultant
Renewable Energy	
Biofuels/biomass	17310202 - Energy management controls, 17990208 - Insulation of pipes and boilers, 28690104 - Ethyl alcohol ethanol, 28999948 - Water treating compounds, 87310301 - Energy research, 87489904 - Energy conservation consultant, 89990703 - Natural resource preservation service
Geothermal	17819901 - Geothermal drilling, 50740208 - Heating equipment and panels, solar,
Hydropower	35110207 - Wheels, water
Renewable energy services	17310101 - Cogeneration specialization, 87119906 - Energy conservation engineering, 87310301 - Energy research, 87489904 - Energy conservation consultant

Solar photovoltaic	17110403 - Solar energy contractor, 17310202 - Energy management controls, 34339904 - Solar heaters and collectors, 36740306 - Solar cells, 36919902 - Batteries, rechargeable, 38290218 - Solarimeters, 50740208 - Heating equipment and panels, solar, 52110303 - Solar heating equipment, 87119906 - Energy conservation engineering, 87310301 - Energy research, 87489904 - Energy conservation consultant
Solar thermal	17110403 - Solar energy contractor, 34339904 - Solar heaters and collectors, 50740208 - Heating equipment and panels, solar, 52110303 - Solar heating equipment, 87310301 - Energy research, 87489904 - Energy conservation consultant
Waste-to-energy	17310202 - Energy management controls, 49539905 - Recycling, waste materials, 52110301 - Energy conservation products, 87310301 - Energy research
Wave/ocean power	17310202 - Energy management controls, 87310301 - Energy research
Wind	17110403 - Solar energy contractor, 17310202 - Energy management controls, 35239906 - Windmills for pumping water, agricultural, 36219909 - Windmills, electric generating, 38220304 - Temperature sensors for motor windings, 50740208 - Heating equipment and panels, solar, 50840706 - Pollution control equipment, air (environmental), 52110300 - Insulation and energy conservation products, 87310301 - Energy research, 87489904 - Energy conservation consultant, 89990703 - Natural resource preservation service

The NAICS definition

We constructed this broad definition based on the North American Industry Classification System (NAICS), selecting clean industries at the 4-digit level (see Table A3). We included 11 industries that had significant activity in providing products and services used to store and conserve energy, produce energy from renewable and low-carbon sources, treat waste, and conserve and manage water and other natural resources.

We determined that industries had significant activity in these areas if Pew, Brookings or University of California -Berkeley analysts in a 2010 research paper included the industries in their definitions.⁵ We selected the final list of industries in consultation with Moody's Analytics, which provided employment data for the New England states and the nation from the U.S. Bureau of Labor Statistics (BLS).⁶ The BLS collects data at the establishment level whenever possible, using the primary NAICS activity of each establishment to designate its industry.

Table A3: Clean industries according to the NAICS definition and their codes

Industry Description	NAICS Code
Electric power generation, transmission, & distribution	2211
Utility system construction	2371
Ventilation, heating, air-conditioning, & commercial refrigeration equipment manufacturing	3334
Engine, turbine, & power transmission equipment manufacturing	3336
Navigational, measuring, electromedical, & control instruments manufacturing	3345
Electric lighting equipment manufacturing	3351
Other electrical equipment & component manufacturing	3359
Architectural, engineering, & related services	5413
Management, scientific, & technical consulting services	5416
Scientific research & development services	5417
Other professional, scientific, & technical services	5419

⁵ Karen Chapple, Cynthia Kroll, T. William Lester, and Sergio Montero, *Innovation in the Green Economy: The Mix of Innovation, Industries, and Regions in an Emerging Industry*. Paper presented to the annual conference of the Industry Studies Association, Chicago, May 7, 2010. Online at <http://www.industrystudies.pitt.edu/chicago10/2010%20Papers/Kroll%20-%20InnovationGreen.pdf>.

⁶ For more on NAICS, see <http://www.census.gov/eos/www/naics/>. For more on Moody's Analytics, see <http://www.moody.com/Pages/atc003.aspx>.

The NETS definition

Our fourth definition focuses on energy research and services. We based this definition on the 8-digit SIC industries that analysts at the University of California at Berkeley included in *Innovation in the Green Economy*, a 2010 research paper.⁷

We used the 2011 NETS database to identify employment at the business establishment level in these industries.⁸ The NETS database provides more detailed information on jobs at the level of the business establishment than is available in public sources. Collecting data at this level—rather than at the firm level—allows us to identify the number of clean-industries jobs more precisely. The use of SICs allows us to identify more detailed segments than the NAICS codes allow. We found a total of 596 clean industries related to energy research and services, although many provide few jobs.

Table A4 shows the top five industry segments by employment for each New England state, according to this definition of clean industries. The table also shows the industry group under which each segment appears in the NETS database. (Figure 4 in the main article focuses on these groups.)

⁷ Karen Chapple, Cynthia Kroll, T. William Lester, and Sergio Montero, *Innovation in the Green Economy: The Mix of Innovation, Industries, and Regions in an Emerging Industry*. Paper presented to the annual conference of the Industry Studies Association, Chicago, May 7, 2010. Online at <http://www.industrystudies.pitt.edu/chicago10/2010%20Papers/Kroll%20-%20InnovationGreen.pdf>.

⁸ Analysts can purchase information from NETS, a private database created by Wall and Associates and Dun & Bradstreet. See <http://youreconomy.org/nets/NETSDatabaseDescription.pdf>.

Table A4. The Top-five clean industries in the NETS definition, and their SIC codes

Connecticut		
<i>SIC</i>	<i>Industry Segment</i>	<i>Industry Group</i>
49119902	Generation, electric power	Electrical power transmission & services
87489904	Energy conservation consulting	Energy conservation & management
87119906	Energy conservation engineering	Energy engineering & architectural services
52110301	Energy conservation products	Energy conservation & building materials
49319901	Cogeneration of electric power	Electrical power transmission & services
Massachusetts		
<i>SIC</i>	<i>Industry Segment</i>	<i>Industry Group</i>
49119902	Generation, electric power	Electrical power transmission & services
87489904	Energy conservation consulting	Energy conservation & management
49119901	Distribution, electric power	Electrical power transmission & services
49119908	Hydroelectric power generation	Electrical power transmission & services
87119906	Energy conservation engineering	Engineering and architectural services
Maine		
<i>SIC</i>	<i>Industry Segment</i>	<i>Industry Group</i>
49119902	Generation, electric power	Electrical power transmission & services
49119901	Distribution, electric power	Electrical power transmission & services
49530000	Refuse systems	Other
87119906	Energy conservation engineering	Energy engineering & architectural services
49119903	Transmission, electric power	Electrical power transmission & services
New Hampshire		
<i>SIC</i>	<i>Industry Segment</i>	<i>Industry Group</i>
49119906	Nuclear electric power generation	Electrical power transmission & services
49119902	Generation, electric power	Electrical power transmission & services
49119907	Fossil fuel electrical power generation	Electrical power transmission & services
87489904	Energy conservation consulting	Energy conservation & management
87110000	Engineering services	Energy engineering & architectural services
Rhode Island		
<i>SIC</i>	<i>Industry Segment</i>	<i>Industry Group</i>
49119902	Generation, electric power	Electrical power transmission & services
87489904	Energy conservation consulting	Energy conservation & management
87110403	Heating and ventilation engineering	Energy engineering & architectural services
87119906	Energy conservation engineering	Energy engineering & architectural services
76990304	Thermostat repair	Other

Vermont		
<i>SIC</i>	<i>Industry Segment</i>	<i>Industry Group</i>
49119902	Generation, electric power	Electrical power transmission & services
49119906	Nuclear electric power generation	Electrical power transmission & services
87489904	Energy conservation consulting	Energy conservation & management
49110000	Electric services	Electrical power transmission & services
49119901	Distribution, electric power	Electrical power transmission & services

B. Changes in Clean Industries Jobs over Time

Table A5 provides data on the total number of clean-industries jobs and share of total employment in clean industries over time under the four definitions for the nation, the region, and each of the New England states.

Table A5. Total Number of Clean-Industries Jobs over Time

Pew:

	US	NE	CT	MA	ME	NH	RI	VT
1998	701,668	48,088	9,484	25,580	4,888	3,950	2,311	1,875
1999	721,836	47,503	9,677	24,604	5,010	3,882	2,476	1,854
2000	734,571	45,309	8,814	23,842	5,005	3,478	2,437	1,733
2001	751,572	47,924	10,715	24,057	5,006	3,368	2,879	1,899
2002	777,995	50,291	11,287	24,742	5,364	3,887	2,982	2,029
2003	759,374	50,706	10,976	25,220	5,719	3,850	2,822	2,119
2004	747,825	50,133	11,248	24,444	5,827	3,741	2,800	2,073
2005	738,037	50,208	11,203	24,630	5,754	3,959	2,529	2,133
2006	753,295	50,850	10,052	26,381	5,805	4,045	2,401	2,166
2007	765,060	51,343	10,147	26,678	6,000	4,029	2,328	2,161

Brookings:

	US	NE	CT	MA	ME	NH	RI	VT
2003	2,110,208	108,720	22,541	50,598	9,298	8,971	9,017	8,295
2007	2,418,207	126,275	27,728	57,753	10,304	11,667	10,192	8,631
2010	2,675,545	137,360	29,751	63,523	12,212	12,886	9,563	9,425

NAICS (Total number of clean-industries jobs over time):

	US	NE	CT	MA	ME	NH	RI	VT
1990	4,154,590	290,570	69,540	151,940	14,250	26,920	17,510	10,410
1991	4,077,170	272,270	66,100	143,540	13,080	24,280	16,030	9,240
1992	4,031,620	266,960	64,840	140,220	12,900	23,980	15,710	9,310
1993	4,048,790	267,130	64,210	140,830	13,010	24,410	15,120	9,550
1994	4,096,750	270,910	64,110	143,750	12,830	25,070	15,510	9,640
1995	4,176,450	272,960	63,800	144,880	12,900	26,150	15,470	9,760
1996	4,237,250	278,200	64,680	149,770	12,670	26,630	14,930	9,520
1997	4,356,380	286,260	66,180	154,580	12,700	27,510	15,330	9,960
1998	4,515,640	297,020	67,490	161,410	13,200	28,480	16,060	10,380
1999	4,633,270	298,740	67,110	163,120	14,100	27,690	16,090	10,630
2000	4,817,960	308,090	68,390	169,520	14,160	28,080	16,940	11,000
2001	4,854,100	310,830	66,670	173,400	14,370	28,030	16,940	11,420
2002	4,719,800	301,640	65,350	169,220	14,200	26,460	15,870	10,540
2003	4,637,900	292,450	62,360	164,540	14,030	26,090	15,400	10,030
2004	4,716,660	292,780	62,250	163,780	14,160	26,930	15,420	10,240
2005	4,908,090	297,610	62,230	168,260	14,060	27,400	15,170	10,490
2006	5,115,220	303,390	61,670	172,910	14,230	28,700	15,170	10,710
2007	5,261,130	310,900	62,750	177,860	14,910	29,370	15,040	10,970
2008	5,363,680	319,370	63,900	184,440	15,550	29,320	15,010	11,150
2009	5,061,230	304,930	59,770	178,030	14,710	27,420	14,230	10,770

NETs (Total number of clean-industries jobs over time):

	US	NE	CT	MA	ME	NH	RI	VT
1990	349,518	24,041	9,326	8,693	1,884	1,842	1,027	1,269
1991	350,138	24,453	9,144	8,635	1,829	2,722	842	1,281
1992	346,729	23,229	9,353	7,254	1,748	2,744	842	1,288
1993	354,051	21,681	9,097	5,881	1,653	2,796	833	1,421
1994	352,994	21,563	8,906	6,154	1,652	2,606	815	1,430
1995	354,143	20,934	8,466	6,096	1,649	2,565	766	1,392
1996	329,983	18,014	5,826	5,671	1,778	2,551	792	1,396
1997	334,898	17,807	5,880	5,694	1,696	2,447	722	1,368
1998	332,402	17,636	5,726	5,658	1,693	2,455	677	1,427
1999	330,064	17,447	5,787	4,811	2,276	2,459	677	1,437
2000	342,892	18,009	6,919	4,988	1,568	2,479	672	1,383
2001	336,487	18,611	6,989	6,437	1,480	1,657	673	1,375

2002	353,507	20,323	8,717	6,371	1,568	1,650	639	1,378
2003	328,646	22,761	11,382	6,275	1,659	1,543	633	1,269
2004	310,904	14,698	5,066	4,461	1,677	1,557	647	1,290
2005	305,251	14,254	4,731	4,350	1,691	1,541	633	1,308
2006	307,405	14,283	5,398	4,087	1,571	1,543	631	1,053
2007	282,467	12,418	4,148	3,905	1,123	1,542	632	1,068
2008	267,367	10,815	3,057	3,523	1,130	1,528	660	917
2009	254,701	10,514	2,947	3,481	1,017	1,536	603	930

Total Employment Figures used in Calculations

	US	NE	CT	MA	ME	NH	RI	VT
1990	108,980,761	6,363,342	1,619,667	2,988,200	535,233	508,458	454,075	257,708
1991	107,718,072	6,050,508	1,557,142	2,824,417	513,492	482,175	424,150	249,133
1992	108,294,640	5,998,467	1,526,200	2,798,183	511,792	487,017	424,092	251,183
1993	110,397,058	6,083,334	1,531,067	2,843,075	519,308	502,500	429,967	257,417
1994	113,522,758	6,203,000	1,543,650	2,906,483	531,625	523,175	434,083	263,983
1995	116,462,257	6,328,658	1,561,558	2,980,009	538,150	539,800	438,917	270,225
1996	118,933,450	6,433,791	1,582,433	3,039,350	542,500	553,683	440,708	275,117
1997	122,075,209	6,574,959	1,607,617	3,113,900	553,733	570,283	450,008	279,417
1998	125,322,536	6,728,508	1,643,392	3,183,833	569,183	589,075	457,983	285,042
1999	128,148,582	6,860,867	1,669,083	3,242,567	586,342	605,842	465,467	291,567
2000	131,094,356	7,023,216	1,693,192	3,328,933	603,525	622,075	476,792	298,700
2001	130,930,500	7,036,275	1,681,100	3,339,250	608,200	627,217	478,417	302,092
2002	129,570,372	6,927,366	1,664,867	3,259,008	606,458	618,300	479,417	299,317
2003	129,083,866	6,850,592	1,644,525	3,198,300	606,667	617,742	484,192	299,167
2004	130,622,965	6,874,942	1,649,842	3,194,758	611,667	627,325	488,408	302,942
2005	132,894,158	6,918,075	1,662,058	3,211,525	611,667	636,325	491,000	305,500
2006	135,132,041	6,983,366	1,680,525	3,245,367	614,608	641,950	493,233	307,683
2007	136,671,108	7,043,242	1,698,142	3,280,384	617,758	645,983	492,642	308,333
2008	136,090,367	7,041,909	1,699,033	3,290,250	617,283	646,133	481,992	307,217
2009	129,927,913	6,776,942	1,627,658	3,173,817	595,117	624,308	459,042	297,000
2010	129,822,172	6,767,734	1,608,958	3,186,709	592,833	623,042	458,783	297,408

Percent of Total Employment for the Four Measures

Pew:

	US	NE	CT	MA	ME	NH	RI	VT
1998	0.56%	0.71%	0.58%	0.80%	0.86%	0.67%	0.50%	0.66%
1999	0.56%	0.69%	0.58%	0.76%	0.85%	0.64%	0.53%	0.64%
2000	0.56%	0.65%	0.52%	0.72%	0.83%	0.56%	0.51%	0.58%
2001	0.57%	0.68%	0.64%	0.72%	0.82%	0.54%	0.60%	0.63%
2002	0.60%	0.73%	0.68%	0.76%	0.88%	0.63%	0.62%	0.68%
2003	0.59%	0.74%	0.67%	0.79%	0.94%	0.62%	0.58%	0.71%
2004	0.57%	0.73%	0.68%	0.77%	0.95%	0.60%	0.57%	0.68%
2005	0.56%	0.73%	0.67%	0.77%	0.94%	0.62%	0.52%	0.70%
2006	0.56%	0.73%	0.60%	0.81%	0.94%	0.63%	0.49%	0.70%
2007	0.56%	0.73%	0.60%	0.81%	0.97%	0.62%	0.47%	0.70%

Brookings:

	US	NE	CT	MA	ME	NH	RI	VT
2003	1.63%	1.59%	1.37%	1.58%	1.53%	1.45%	1.86%	2.77%
2007	1.77%	1.79%	1.63%	1.76%	1.67%	1.81%	2.07%	2.80%
2010	2.06%	2.03%	1.85%	1.99%	2.06%	2.07%	2.08%	3.17%

NAICS:

	US	NE	CT	MA	ME	NH	RI	VT
1990	3.81%	4.57%	4.29%	5.08%	2.66%	5.29%	3.86%	4.04%
1991	3.79%	4.50%	4.24%	5.08%	2.55%	5.04%	3.78%	3.71%
1992	3.72%	4.45%	4.25%	5.01%	2.52%	4.92%	3.70%	3.71%
1993	3.67%	4.39%	4.19%	4.95%	2.51%	4.86%	3.52%	3.71%
1994	3.61%	4.37%	4.15%	4.95%	2.41%	4.79%	3.57%	3.65%
1995	3.59%	4.31%	4.09%	4.86%	2.40%	4.84%	3.52%	3.61%
1996	3.56%	4.32%	4.09%	4.93%	2.34%	4.81%	3.39%	3.46%
1997	3.57%	4.35%	4.12%	4.96%	2.29%	4.82%	3.41%	3.56%
1998	3.60%	4.41%	4.11%	5.07%	2.32%	4.83%	3.51%	3.64%
1999	3.62%	4.35%	4.02%	5.03%	2.40%	4.57%	3.46%	3.65%
2000	3.68%	4.39%	4.04%	5.09%	2.35%	4.51%	3.55%	3.68%
2001	3.71%	4.42%	3.97%	5.19%	2.36%	4.47%	3.54%	3.78%
2002	3.64%	4.35%	3.93%	5.19%	2.34%	4.28%	3.31%	3.52%
2003	3.59%	4.27%	3.79%	5.14%	2.31%	4.22%	3.18%	3.35%

2004	3.61%	4.26%	3.77%	5.13%	2.31%	4.29%	3.16%	3.38%
2005	3.69%	4.30%	3.74%	5.24%	2.30%	4.31%	3.09%	3.43%
2006	3.79%	4.34%	3.67%	5.33%	2.32%	4.47%	3.08%	3.48%
2007	3.85%	4.41%	3.70%	5.42%	2.41%	4.55%	3.05%	3.56%
2008	3.94%	4.54%	3.76%	5.61%	2.52%	4.54%	3.11%	3.63%
2009	3.90%	4.50%	3.67%	5.61%	2.47%	4.39%	3.10%	3.63%

NETS:

	US	NE	CT	MA	ME	NH	RI	VT
1990	0.32%	0.38%	0.58%	0.29%	0.35%	0.36%	0.23%	0.49%
1991	0.33%	0.40%	0.59%	0.31%	0.36%	0.56%	0.20%	0.51%
1992	0.32%	0.39%	0.61%	0.26%	0.34%	0.56%	0.20%	0.51%
1993	0.32%	0.36%	0.59%	0.21%	0.32%	0.56%	0.19%	0.55%
1994	0.31%	0.35%	0.58%	0.21%	0.31%	0.50%	0.19%	0.54%
1995	0.30%	0.33%	0.54%	0.20%	0.31%	0.48%	0.17%	0.52%
1996	0.28%	0.28%	0.37%	0.19%	0.33%	0.46%	0.18%	0.51%
1997	0.27%	0.27%	0.37%	0.18%	0.31%	0.43%	0.16%	0.49%
1998	0.27%	0.26%	0.35%	0.18%	0.30%	0.42%	0.15%	0.50%
1999	0.26%	0.25%	0.35%	0.15%	0.39%	0.41%	0.15%	0.49%
2000	0.26%	0.26%	0.41%	0.15%	0.26%	0.40%	0.14%	0.46%
2001	0.26%	0.26%	0.42%	0.19%	0.24%	0.26%	0.14%	0.46%
2002	0.27%	0.29%	0.52%	0.20%	0.26%	0.27%	0.13%	0.46%
2003	0.25%	0.33%	0.69%	0.20%	0.27%	0.25%	0.13%	0.42%
2004	0.24%	0.21%	0.31%	0.14%	0.27%	0.25%	0.13%	0.43%
2005	0.23%	0.21%	0.28%	0.14%	0.28%	0.24%	0.13%	0.43%
2006	0.23%	0.20%	0.32%	0.13%	0.26%	0.24%	0.13%	0.34%
2007	0.21%	0.18%	0.24%	0.12%	0.18%	0.24%	0.13%	0.35%
2008	0.20%	0.15%	0.18%	0.11%	0.18%	0.24%	0.14%	0.30%
2009	0.20%	0.16%	0.18%	0.11%	0.17%	0.25%	0.13%	0.31%