

# APPENDIX THREE

## Alaska's Green Occupations

SOC(2000) <sup>1</sup>	SOC(2010)	SOC title	Estimated green employment <sup>2</sup>	Estimated employment <sup>3</sup>	Green score 1-10 <sup>4</sup>
		TOTAL (occupations with green employment)	4,973	140,172	
111011	111011	Chief Executives	34	1,685	1
111021	111021	General and Operations Managers	139	3,780	1
112021	112021	Marketing Managers	3	290	1
112031	112031	Public Relations Managers	7	152	1
113011	113011	Administrative Services Managers	29	1,397	1
113031	113031	Financial Managers	4	1,090	1
113049	113121	Human Resources Managers, All Other	4	215	1
119021	119021	Construction Managers	27	971	1
119041	119041	Engineering Managers	8	345	1
119051	119051	Food Service Managers	6	463	1
119121	119121	Natural Sciences Managers	17	28	3
119151	119151	Social and Community Service Managers	7	343	1
119199	119199	Managers, All Other	40	2,358	1
131023	131023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	3	266	1
131051	131051	Cost Estimators	3	144	1
131073	131151	Training and Development Specialists	32	156	2
131199	131199	Business Operations Specialists, All Other	1	492	1
132011	132011	Accountants and Auditors	13	1,438	1
132072	132072	Loan Officers	2	358	1
171011	171011	Architects, Except Landscape and Naval	12	188	1
171021	171021	Cartographers and Photogrammetrists	5	57	1
172041	172041	Chemical Engineers	40	48	4
172051	172051	Civil Engineers	28	573	1
172071	172071	Electrical Engineers	32	299	1
172081	172081	Environmental Engineers	60	177	3
172111	172111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	21	233	1
172141	172141	Mechanical Engineers	45	303	1
172151	172151	Mining and Geological Engineers, Including Mining Safety Engineers	41	154	1
172199	172199	Engineers, All Other	65	1,059	1
173019	173019	Drafters, All Other	11	157	1
173023	173023	Electrical and Electronic Engineering Technicians	3	216	1
173025	173025	Environmental Engineering Technicians	93	253	2
173027	173027	Mechanical Engineering Technicians	8	45	1
191013	191013	Soil and Plant Scientists	*	*	2
191023	191023	Zoologists and Wildlife Biologists	166	254	7
191029	191029	Biological Scientists, All Other	13	84	2
191031	191031	Conservation Scientists	23	28	5
191032	191032	Foresters	*	*	5
192031	192031	Chemists	2	43	1
192032	192032	Materials Scientists	*	*	9
192041	192041	Environmental Scientists and Specialists, Including Health	254	401	4
192042	192042	Geoscientists, Except Hydrologists and Geographers	3	279	1
193011	193011	Economists	*	*	2
193051	193051	Urban and Regional Planners	5	167	1
194021	194021	Biological Technicians	7	59	2
194041	194041	Geological and Petroleum Technicians	144	649	3
194091	194091	Environmental Science and Protection Technicians, Including Health	158	158	8
211021	211021	Child, Family, and School Social Workers	2	559	1
211093	211093	Social and Human Service Assistants	2	581	1
211099	211099	Community and Social Service Specialists, All Other	3	417	1
231011	231011	Lawyers	21	442	1

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232011	232011	Paralegals and Legal Assistants	14	295	1
251053	251053	Environmental Science Teachers, Postsecondary	*	*	10
259021	259021	Farm and Home Management Advisors	*	*	3
259031	259031	Instructional Coordinators	2	273	1
271025	271025	Interior Designers	12	37	1
352012	352012	Cooks, Institution and Cafeteria	6	686	1
352014	352014	Cooks, Restaurant	4	2,185	1
371012	371012	First-Line Supervisors/Managers of Landscaping, Lawn Service, and Groundskeeping Workers	13	65	2
372011	372011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	7	5,230	1
372012	372012	Maids and Housekeeping Cleaners	14	3,610	1
373011	373011	Landscaping and Groundskeeping Workers	7	801	1
373019	373019	Grounds Maintenance Workers, All Other	36	703	1
396021	397011	Tour Guides and Escorts	440	1,133	3
396022	397012	Travel Guides	*	*	3
411011	411011	First-Line Supervisors/Managers of Retail Sales Workers	10	1,878	1
412031	412031	Retail Salespersons	247	11,520	1
413099	413099	Sales Representatives, Services, All Other	14	1,267	1
414011	414011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	33	304	1
414012	414012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	5	1,012	1
419031	419031	Sales Engineers	20	45	3
419099	419099	Sales and Related Workers, All Other	5	2,108	1
431011	431011	First-Line Supervisors/Managers of Office and Administrative Support Workers	3	1,845	1
433031	433031	Bookkeeping, Accounting, and Auditing Clerks	10	4,109	1
433061	433061	Procurement Clerks	1	126	1
434051	434051	Customer Service Representatives	13	2,630	1
434171	434171	Receptionists and Information Clerks	6	3,156	1
435061	435061	Production, Planning, and Expediting Clerks	4	381	1
435081	435081	Stock Clerks and Order Fillers	10	2,565	1
436011	436011	Executive Secretaries and Administrative Assistants	12	3,736	1
439061	439061	Office Clerks, General	51	6,236	1
439199	439199	Office and Administrative Support Workers, All Other	52	4,604	1
451011	451011	First-Line Supervisors/Managers of Farming, Fishing, and Forestry Workers	52	125	3
452092	452092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	29	411	1
452099	452099	Agricultural Workers, All Other	58	246	2
453011	453011	Fishers and Related Fishing Workers <sup>5</sup>	266	605	4
454011	454011	Forest and Conservation Workers	5	47	1
454021	454021	Fallers	18	106	1
454022	454022	Logging Equipment Operators	11	50	2
454029	454029	Logging Workers, All Other	20	33	2
471011	471011	First-Line Supervisors/Managers of Construction Trades and Extraction Workers	52	1,134	1
472011	472011	Boilermakers	30	44	5
472031	472031	Carpenters	275	3,343	1
472061	472061	Construction Laborers	212	5,461	1
472073	472073	Operating Engineers and Other Construction Equipment Operators	26	3,147	1
472081	472081	Drywall and Ceiling Tile Installers	9	202	1
472111	472111	Electricians	5	2,362	1
472131	472131	Insulation Workers, Floor, Ceiling, and Wall	44	194	1
472152	472152	Plumbers, Pipefitters, and Steamfitters	20	1,762	1
472181	472181	Roofers	111	324	2

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472211	472211	Sheet Metal Workers	3	424	1
473012	473012	Helpers, Carpenters	17	357	1
473013	473013	Helpers, Electricians	3	121	1
473019	473019	Helpers, Construction Trades, All Other	80	500	2
474041	474041	Hazardous Materials Removal Workers	58	327	1
474051	474051	Highway Maintenance Workers	5	106	1
474099	474099	Construction and Related Workers, All Other	56	729	1
475013	475013	Service Unit Operators, Oil, Gas, and Mining	63	660	1
475021	475021	Earth Drillers, Except Oil and Gas	2	148	1
475071	475071	Roustabouts, Oil and Gas	12	1,668	1
491011	491011	First-Line Supervisors/Managers of Mechanics, Installers, and Repairers	2	634	1
		Telecommunications Equipment Installers and Repairers, Except Line			
492022	492022	Installers	3	774	1
		Electrical and Electronics Repairers, Commercial and Industrial Equip-			
492094	492094	ment	11	201	1
492095	492095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	2	108	1
493023	493023	Automotive Service Technicians and Mechanics	5	1,610	1
493092	493092	Recreational Vehicle Service Technicians	12	48	1
499021	499021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	23	308	1
499041	499041	Industrial Machinery Mechanics	7	220	1
499051	499051	Electrical Power Line Installers and Repairers	14	400	1
499042	499071	Maintenance and Repair Workers, General	47	2,309	1
N/A	499081	Wind Turbine Service Technicians	*	*	10
499098	499098	Helpers, Installation, Maintenance, and Repair Workers	13	781	1
499099	499099	Installation, Maintenance, and Repair Workers, All Other	41	1,483	1
511011	511011	First-Line Supervisors/Managers of Production and Operating Workers	39	747	1
513022	513022	Meat, Poultry, and Fish Cutters and Trimmers	15	7,943	1
		Molding, Coremaking, and Casting Machine Setters, Operators, and			
514072	514072	Tenders, Metal and Plastic	14	30	5
514121	514121	Welders, Cutters, Solderers, and Brazers	9	765	1
518012	518012	Power Distributors and Dispatchers	17	34	5
518013	518013	Power Plant Operators	49	441	1
518031	518031	Water and Liquid Waste Treatment Plant and System Operators	22	568	1
518099	518099	Plant and System Operators, All Other	12	233	1
519032	519032	Cutting and Slicing Machine Setters, Operators, and Tenders	7	71	1
519192	519192	Cleaning, Washing, and Metal Pickling Equipment Operators/Tenders	*	*	8
519198	519198	Helpers--Production Workers	6	105	1
519199	519199	Production Workers, All Other	24	1,293	1
		First-Line Supervisors/Managers of Transportation and Material-Moving			
531031	531031	Machine and Vehicle Operators	2	325	1
533031	533031	Driver/Sales Workers	8	1,063	1
535021	535021	Captains, Mates, and Pilots of Water Vessels	12	531	1
535031	535031	Ship Engineers	93	208	5
537021	537021	Crane and Tower Operators	2	136	1
537032	537032	Excavating and Loading Machine and Dragline Operators	3	251	1
537051	537051	Industrial Truck and Tractor Operators	43	421	1
537062	537062	Laborers and Freight, Stock, and Material Movers, Hand	34	4,459	1
537081	537081	Refuse and Recyclable Material Collectors	26	321	1
537121	537121	Tank Car, Truck, and Ship Loaders	22	206	1

<sup>1</sup> The Standard Occupational Classification (SOC) system is used by federal and state statistical agencies to classify workers and jobs into occupational categories for collecting, calculating, analyzing, or disseminating data.

<sup>2</sup> Employment is an August 2010 estimate.

<sup>3</sup> Employment is a third quarter 2010 estimate.

<sup>4</sup> The green score for an occupation is generated by taking a weighted average of time spent on green activities within a given occupation. The numbers are indexed between 1 and 10, with 10 representing that 100 percent of the occupation's work is within a green category, 9 representing 90 percent, and so on.

<sup>5</sup> Excludes most commercial fishermen

Note: All numbers exclude state and federal employment.

An asterisk (\*) means data are suppressed due to confidentiality and/or reliability reasons.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section