

Appendix A. High Tech Cluster's Wage, Employment, and Concentration Analysis ('01~'05)

NAICS Name	'05 Establishment	'05 Ag. Wage (OR)	'05 Ag. Wage (US)	'05 Relative Wage	'05 Payroll (\$1,000)	'01 Employment (OR)	'05 Employment (OR)	'01~'05 Employment Growth Rate (OR)	'01 Employment (US)	'05 Employment (US)	'01~'05 Employment Growth Rate (US)	'01~'05 Relative Growth Rate	L.Q. in 2005
Computer and Electronic Products Manufacturing													
33411 Computer and Peripheral Equipment Manufacturing	34	70,383	103,697	-32%	268,653	5,261	3,817	-27%	286,233	203,578	-29%	1%	1.50
33421 Telephone Apparatus Manufacturing	7	67,906	89,072	-24%	6,547	753	96	-87%	98,761	42,748	-57%	-31%	0.18
33422 Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing	5	64,956	76,964	-16%	15,627	700	241	-66%	105,084	78,390	-25%	-40%	0.25
33429 Other Communications Equipment Manufacturing	11	46,363	62,130	-25%	40,293	788	869	10%	33,064	25,994	-21%	32%	2.67
33431 Audio and Video Equipment Manufacturing	12	50,806	58,499	-13%	22,541	394	444	13%	47,359	32,610	-31%	44%	1.09
33441 Semiconductor and Other Electronic Component Manufacturing	162	85,347	70,872	20%	2,548,973	34,829	29,866	-14%	643,352	446,503	-31%	16%	5.33
33451 Navigational, Measuring, Electromedical, and Control Instruments Manufacturing	107	72,263	73,584	-2%	403,522	6,724	5,584	-17%	471,717	433,812	-8%	-9%	1.03
33461 Manufacturing and Reproducing Magnetic and Optical Med	8	38,816	63,863	-39%	4,244	14	109	679%	62,565	44,309	-29%	708%	0.20
Software Publisher													
51121 Software Publishers	467	84,137	100,454	-16%	612,093	9,129	7,275	-20%	271,263	236,916	-13%	-8%	2.45
Computer System Design													
54151 Computer Systems Design and Related Services	1506	69,504	80,274	-13%	595,970	11,485	8,575	-25%	1,278,831	1,196,884	-6%	-19%	0.57
Retailers													
44312 Computer and Software Stores	146	33,933	56,742	-40%	43,449	1,477	1,280	-13%	202,693	148,339	-27%	13%	0.69
Total					4,561,912		58,156						

<Source: Bureau of Labor Statistics, U.S. Department of Labor>

Appendix B. Forest Cluster's Wage, Employment, and Concentration Analysis ('01~'05)

NAICS,Name	'05 Establis hment	'05 Ag. Wage (OR)	'05 Ag. Wage (US)	'05 Relative Wage	'05 Payroll (\$1,000)	'01 Employment t (OR)	'05 Employment t (OR)	'01~'05 Employment Growth Rate (OR)	'01 Employment nt (US)	'05 Employment (US)	'01~'05 Employment nt Growth Rate (US)	01~~'05 Relative Growth Rate	L.Q. in 2005
Primary													
321113_Sawmills	119	45,902	35,584	29%	395,018	8,485	8,606	1%	112,323	108,260	-4%	5%	6.34
32121 Veneer, Plywood, and Engineered Wood Product Manufacturing	118	40,329	36,660	10%	444,549	12,351	11,023	-11%	116,555	122,090	5%	-16%	7.20
32211 Pulp Mills	1	ND	72,766	NC	ND	ND	ND	NC	7,709	6,527	-15%	NC	ND
32212 Paper Mills	9	66,201	64,284	3%	166,848	2,638	2,520	-4%	128,454	96,093	-25%	21%	2.09
32213 Paperboard Mills	6	ND	63,572	NC	ND	ND	ND	NC	41,744	37,834	-9%	NC	ND
Secondary													
32191 Millwork	143	32,351	34,417	-6%	280,252	8,544	8,663	1%	153,920	158,934	3%	-2%	4.35
32192 Wood Container and Pallet Manufacturing	44	24,619	25,849	-5%	16,523	516	671	30%	64,685	57,548	-11%	41%	0.93
32199 All Other Wood Product Manufacturing	81	34,014	33,480	2%	106,655	2,997	3,136	5%	110,456	100,891	-9%	13%	2.48
32221 Paperboard Container Manufacturing	16	48,942	45,367	8%	50,056	1,118	1,023	-8%	211,879	182,174	-14%	6%	0.45
32222 Paper Bag and Coated and Treated Paper Manufacturing	18	43,314	46,090	-6%	40,622	974	938	-4%	85,239	74,523	-13%	9%	1.00
32223 Stationery Product Manufacturing	2	ND	41,840	NC	ND	ND	ND	NC	42,261	34,676	-18%	NC	ND
32229 Other Converted Paper Product Manufacturing	2	ND	50,798	NC	ND	ND	ND	NC	59,743	51,096	-14%	NC	ND
33711 Wood Kitchen Cabinet and Countertop Manufacturing	325	30,545	32,239	-5%	128,378	3,064	4,203	37%	149,641	169,818	13%	24%	1.97
33712 Household and Institutional Furniture Manufacturing	84	27,282	30,121	-9%	48,115	1,975	1,764	-11%	267,356	210,118	-21%	11%	0.67

337211 Wood Office Furniture Manufacturing	15	0	38,279	NC	ND	180	ND	NC	33,748	24,111	-29%	NC	ND
337212 Custom Architectural Woodwork and Millwork Manufacturing	14	33,863	41,164	-18%	9,973	ND	295	NC	13,293	17,280	30%	NC	1.36
Service													
11311 Timber Tract Operations	47	58,794	51,852	13%	16,815	344	286	-17%	3,925	3,748	-5%	-12%	6.09
11321 Forest Nurseries and Gathering of Forest Products	10	24,965	23,658	6%	2,894	120	116	-3%	2,432	2,607	7%	-11%	3.55
11331 Logging	845	38,950	31,674	23%	292,923	7,528	7,520	0%	71,063	64,870	-9%	9%	9.25
11531 Support Activities for Forestry	323	26,186	29,124	-10%	104,103	3,934	3,976	1%	16,309	15,493	-5%	6%	20.47
321114 Wood Preservation	17	38,607	37,032	4%	21,153	429	548	28%	12,358	11,339	-8%	36%	3.85
33321 Sawmill and Woodworking Machinery Manufacturing	38	ND	41,916	NC	ND	1435	ND	NC	9400	7946	-15%	NC	ND
333291 Paper Industry Machinery Manufacturing	9	ND	53,902	NC	ND	261	ND	NC	15942	11128	-30%	NC	ND
42321 Furniture Merchant Wholesalers	31	49,663	48,117	3%	9,593	276	193	-30%	47,037	44,741	-5%	-25%	0.34
42331 Lumber, Plywood, Millwork, and Wood Panel Merchant Wholesalers	181	75,341	48,662	55%	233,689	2,915	3,102	6%	123,386	135,175	10%	-3%	1.83
42411 Printing and Writing Paper Merchant Wholesalers	13	56,032	61,220	-8%	23,706	513	423	-18%	17,802	16,561	-7%	-11%	2.04
42413 Industrial and Personal Service Paper Merchant Wholesalers	47	58,652	55,334	6%	29,566	512	504	-2%	70,340	66,297	-6%	4%	0.61
44211 Furniture Stores	390	29,976	31,268	-4%	108,038	3,195	3,604	13%	281,893	297,185	5%	7%	0.97
Total					2,529,469		63,114						

<Source: Bureau of Labor Statistics, U.S. Department of Labor>

ND: Not Disclosable, data do not meet BLS or State agency disclosure standards.

NC: Not Calculable, data do not exist or it is zero.

Appendix C. Food Processing and Agriculture Cluster's Wage, Employment, and Concentration Analysis ('01-'05)

NAICS, Name	'05 Establis hment	'05 Ag. Wage (OR)	'05 Ag. Wage (US)	'05 Relative Wage	'05 Payroll (\$1,000)	'01 Employment t (OR)	'05 Employment t (OR)	'01-'05 Employment Growth Rate (OR)	'01 Employment t (US)	'05 Employment (US)	'01-'05 Employment Growth Rate (US)	'01-'05 Relative Growth Rate	L.Q. in 2005
Primary													
11114 Wheat Farming	43	22,083	21,258	4%	5,072	369	230	-38%	4,029	4,241	5%	-43%	4.33
11115 Corn Farming	1	ND	29,242	NC	ND	25	ND	NC	268,327	321,610	20%	NC	ND
11119 Other Grain Farming	53	21,114	29,242	-28%	1,116	40	53	33%	10,258	10,998	7%	25%	0.43
11121 Vegetable and Melon Farming	168	21,460	21,294	1%	58,828	2,977	2,741	-8%	98,581	98,475	0%	-8%	2.22
11133 Noncitrus Fruit and Tree Nut Farming	390	14,767	18,085	-18%	106,999	7,267	7,246	0%	149,996	154,167	3%	-3%	3.75
11141 Food Crops Grown Under Cover	376	21,824	26,190	-17%	8,215	623	376	-40%	19,556	21,390	9%	-49%	1.40
11199 All Other Crop Farming	358	21,311	22,223	-4%	82,561	3,769	3,874	3%	66,862	45,454	-32%	35%	6.80
11211 Beef Cattle Ranching and Farming	151	21,857	24,433	-11%	16,985	746	777	4%	28,853	30,165	5%	0%	2.05
11212 Cattle Feedlots	9	28,781	30,456	-5%	4,902	183	170	-7%	15,452	14,842	-4%	-3%	0.91
11212 Dairy Cattle and Milk Production	100	26,523	23,905	11%	35,950	970	1,355	40%	63,995	75,678	18%	21%	1.43
11221 Hog and Pig Farming	2	ND	27,952	NC	ND	10	ND	NC	23,767	24,795	4%	NC	ND
11231 Chicken Egg Production	4	35,327	26,981	31%	8,634	299	244	-18%	15,227	14,651	-4%	-15%	1.33
11232 Broilers and Other Meat Type Chicken Production	2	ND	29,965	NC	ND	ND	ND	NC	7,957	8,750	10%	NC	ND
11233 Turkey Production	ND	ND	30,629	NC	ND	ND	ND	NC	8,041	5,810	-28%	NC	NC
11234 Poultry Hatcheries	5	27,484	30,338	-9%	1,844	58	67	16%	9,222	9,516	3%	12%	0.56
11239 Other Poultry Production	1	ND	25,308	NC	ND	ND	ND	NC	2,255	1,985	-12%	NC	ND
11241 Sheep Farming	6	ND	20,348	NC	ND	31	ND	NC	1,036	1,058	2%	NC	ND

11242 Goat Farming	ND	ND	22,890	NC	ND	ND	ND	NC	269	244	-9%	NC	NC
11251 Animal Aquaculture	11	20,938	27,429	-24%	1,802	78	86	10%	6,386	5,886	-8%	18%	1.17
11291 Apiculture	8	24,488	26,575	-8%	977	20	40	100%	1,418	1,515	7%	93%	2.11
11411 Fishing	130	46,121	57,715	-20%	11,715	316	254	-20%	7,598	7,069	-7%	-13%	2.87
11421 Hunting and Trapping	3	12,618	21,912	-42%	77	7	6	-14%	3,619	1,966	-46%	31%	0.24
Secondary													
31111 Animal Food Manufacturing	21	41,344	45,078	-8%	11,222	326	271	-17%	53,120	48,560	-9%	-8%	0.45
31121 Flour Milling and Malt Manufacturing	6	46,694	44,597	5%	14,148	257	303	18%	21,052	18,409	-13%	30%	1.31
31122 Starch and Vegetable Fats and Oils Manufacturing	5	ND	57,180	NC	ND	ND	ND	NC	27,919	27,587	-1%	NC	ND
31123 Breakfast Cereal Manufacturing	2	ND	64,513	NC	ND	ND	ND	NC	14,566	14,831	2%	NC	ND
31131 Sugar Manufacturing	1	ND	48,125	NC	ND	ND	ND	NC	15,195	13,082	-14%	NC	ND
31132 Chocolate and Confectionery Manufacturing from Cacao Beans	2	ND	44,850	NC	ND	ND	ND	NC	9,087	8,168	-10%	NC	ND
31133 Confectionery Manufacturing from Purchased Chocolate	23	15,632	33,169	-53%	3,920	238	251	5%	42,921	37,402	-13%	18%	0.54
31134 Nonchocolate Confectionery Manufacturing	9	20,488	39,568	-48%	2,341	62	114	84%	23,665	17,532	-26%	110%	0.52
31141 Frozen Food Manufacturing	32	26,388	33,906	-22%	160,046	6,724	6,065	-10%	99,128	89,180	-10%	0%	5.42
31142 Fruit and Vegetable Canning, Pickling, and Drying	46	30,932	39,409	-22%	90,711	2,712	2,933	8%	98,890	87,743	-11%	19%	2.67
31151 Dairy Product (except Frozen) Manufacturing	19	39,880	44,858	-11%	74,433	1,760	1,866	6%	112,741	109,168	-3%	9%	1.36
31152 Ice Cream and Frozen Dessert Manufacturing	9	37,415	39,943	-6%	11,290	229	302	32%	22,778	22,258	-2%	34%	1.08
31161 Animal Slaughtering and Processing	55	29,746	28,906	3%	46,328	2,070	1,557	-25%	514,473	502,891	-2%	-23%	0.25
31171 Seafood Product Preparation and Packaging	25	22,619	32,047	-29%	23,275	1,093	1,029	-6%	46,571	41,607	-11%	5%	1.97

31181 Bread and Bakery Product Manufacturing	156	27,740	29,800	-7%	82,972	2,910	2,991	3%	223,594	208,658	-7%	9%	1.14
31182 Cookie, Cracker, and Pasta Manufacturing	22	43,355	38,088	14%	36,303	1,024	837	-18%	63,032	55,111	-13%	-6%	1.21
31183 Tortilla Manufacturing	5	24,744	25,684	-4%	5,429	143	219	53%	14,885	16,481	11%	42%	1.06
31191 Snack Food Manufacturing	11	35,282	40,295	-12%	15,362	677	435	-36%	45,751	44,997	-2%	-34%	0.77
31192 Coffee and Tea Manufacturing	23	41,068	44,651	-8%	21,896	441	533	21%	12,235	13,704	12%	9%	3.10
31193 Flavoring Syrup and Concentrate Manufacturing	1	ND	99,379	NC	ND	ND	ND	NC	11,450	10,686	-7%	NC	ND
31194 Seasoning and Dressing Manufacturing	12	ND	47,761	NC	ND	ND	ND	NC	28,013	31,374	12%	NC	ND
31199 All Other Food Manufacturing	43	30,185	48,131	-37%	35,568	667	1,178	77%	30,870	27,457	-11%	88%	1.63
31211 Soft Drink and Ice Manufacturing	8	41,115	42,126	-2%	13,578	668	330	-51%	115,369	100,209	-13%	-37%	0.66
31212 Breweries	12	ND	67,481	NC	ND	ND	ND	NC	27,805	26,340	-5%	NC	ND
31213 Wineries	114	23,058	41,588	-45%	32,331	837	1,402	68%	25,363	33,565	32%	35%	3.33
Related													
11511 Support Activities for Crop Production	223	18,661	19,380	-4%	83,208	3,815	4,459	17%	274,652	280,336	2%	15%	1.27
11521 Support Activities for Animal Production	84	17,822	27,245	-35%	4,105	177	230	30%	25,087	26,578	6%	24%	0.69
333111 Farm Machinery and Equipment Manufacturing	40	40,223	46,072	-13%	23,322	ND	580	NC	60,575	59,378	-2%	NC	0.78
42382 Farm and Garden Machinery and Equipment Merchant Wholesalers	122	40,492	39,769	2%	60,205	1,594	1,487	-7%	102,366	100,493	-2%	-5%	1.18
42441 General Line Grocery Merchant Wholesalers	28	49,688	45,873	8%	154,709	3,425	3,114	-9%	218,315	214,823	-2%	-7%	1.16
42442 Packaged Frozen Food Merchant Wholesalers	22	33,953	44,584	-24%	17,777	316	524	66%	29,102	29,909	3%	63%	1.40
42443 Dairy Product (except Dried or Canned) Merchant Wholesalers	17	ND	42,089	NC	ND	308	ND	NC	34,142	39,616	16%	NC	ND

42444 Poultry and Poultry Product Merchant Wholesalers	2	ND	38,231	NC	ND	ND	ND	NC	11,782	12,190	3%	NC	ND
42445 Confectionery Merchant Wholesalers	35	44,357	44,426	0%	20,733	407	467	15%	44,701	49,355	10%	4%	0.75
42446 Fish and Seafood Merchant Wholesalers	17	37,666	39,439	-4%	13,889	ND	369	NC	22,633	22,308	-1%	NC	1.32
42447 Meat and Meat Product Merchant Wholesalers	29	41,243	41,960	-2%	16,336	334	396	19%	35,745	36,499	2%	16%	0.87
42448 Fresh Fruit and Vegetable Merchant Wholesalers	70	29,810	38,948	-23%	64,374	1,857	2,160	16%	72,623	75,276	4%	13%	2.29
42449 Other Grocery and Related Products Merchant Wholesalers	201	38,656	43,634	-11%	127,052	3,401	3,287	-3%	206,251	215,593	5%	-8%	1.22
42451 Grain and Field Bean Merchant Wholesalers	19	83,608	42,791	95%	13,795	200	165	-18%	45,027	42,720	-5%	-12%	0.31
42452 Livestock Merchant Wholesalers	11	9,284	12,357	-25%	1,810	241	195	-19%	23,186	20,988	-9%	-10%	0.74
42459 Other Farm Product Raw Material Merchant Wholesalers	5	32,077	44,155	-27%	2,069	39	65	67%	8,952	9,147	2%	64%	0.57
42481 Beer and Ale Merchant Wholesalers	41	38,363	43,903	-13%	73,280	1,537	1,910	24%	80,393	87,089	8%	16%	1.75
42482 Wine and Distilled Alcoholic Beverage Merchant Wholesalers	25	42,124	62,893	-33%	16,825	378	399	6%	49,188	57,968	18%	-12%	0.55
42491 Farm Supplies Merchant Wholesalers	258	33,404	39,758	-16%	99,603	2,735	2,982	9%	111,552	108,278	-3%	12%	2.20
44511 Supermarkets and Other Grocery (except Convenience) Stores	615	22,401	20,332	10%	628,020	27,572	28,036	2%	2,384,763	2,289,246	-4%	6%	0.98
44512 Convenience Stores	660	14,227	15,669	-9%	53,678	3,960	3,773	-5%	147,296	142,863	-3%	-2%	2.11
44521 Meat Markets	50	18,258	21,009	-13%	5,672	308	311	1%	51,793	49,497	-4%	5%	0.50
44522 Fish and Seafood Markets	31	15,224	22,031	-31%	2,771	148	182	23%	14,982	13,753	-8%	31%	1.06
44523 Fruit and Vegetable Markets	39	22,109	25,207	-12%	5,291	415	239	-42%	48,133	43,595	-9%	-33%	0.44
44529 Other Specialty Food Stores	313	15,011	21,763	-31%	42,158	3,084	2,808	-9%	150,780	132,220	-12%	3%	1.69

44531 Beer, Wine, and Liquor Stores	182	17,097	21,374	-20%	14,721	879	861	-2%	140,893	136,981	-3%	1%	0.50
Total					2,572,233		99,134						

<Source: Bureau of Labor Statistics, U.S. Department of Labor>

ND: Not Disclosable, data do not meet BLS or State agency disclosure standards.

NC: Not Calculable, data do not exist or it is zero.

