



**November 15, 2016**

# **Regional Economic Sector and Skills Gap Analysis: Madera County**

*Prepared for:*

**Madera County Workforce Development Corporation**

*Prepared by:*

**Applied Development Economics, Inc.**

1756 Lacassie Avenue, Suite 100, Walnut Creek, CA 94596 ■ 925.934.8712

[www.adeusa.com](http://www.adeusa.com)



# TABLE OF CONTENTS

---

SUMMARY ..... 1

Summary of Findings ..... 1

Job Growth ..... 1

Labor Force Characteristics ..... 2

Conclusion ..... 2

ECONOMIC TRENDS ..... 4

Population and Employment Trends ..... 4

Industry Clusters ..... 11

Projected Job Openings ..... 12

LABOR FORCE CHARACTERISTICS ..... 14

Unemployment ..... 16

Educational Attainment..... 16

Underutilized Workforce..... 18

CONCLUSION ..... 39

APPENDIX..... 40

# TABLES

---

Table 1 — Annual Labor Force Trends, 2000-2015: Madera County .....	4
Table 2- Total and Household Population trends: Madera County, CCWC Region, and California .....	6
Table 3 — Trends in Total Number of Jobs: 2000-2015: Madera County .....	7
Table 4 — Employment Trends and Projections by Sectors: Madera County .....	9
Table 5 — Employment Projections for Industries Expected to Grow By 50 or More Jobs Between 2015 and 2025: Madera County.....	10 - 11
Table 6 — Employment Projections by Industry Clusters Madera County .....	12
Table 7 — Industries by Clusters That Are Expected to Decline Significantly Between 2015 and 2025: Madera County .....	12
Table 8 — Annual Openings Compared to Number of Unemployed Who Satisfy Minimum Educational Requirements.....	13
Table 9 — Summary of Overall Labor Force Trends for Select Demographic Categories: Madera County (Persons 16 and Over).....	23
Table 10 — Population by Age, Race\Ethnicity, and Educational Attainment: Madera County .....	24
Table 11 — Labor Force by Age, Race\Ethnicity, and Educational Attainment (Persons 16 and Over): Madera County .....	25
Table 12 — Part-Time Employed Labor Force by Age, Race\Ethnicity, and Educational Attainment (Persons 16 and Over): Madera County .....	26
Table 13— Unemployed Labor Force by Age, Race\Ethnicity, and Educational Attainment (Persons 16 and Over): Madera County .....	27
Table 14 Table 13— Unemployed Labor Force by Age, Race\Ethnicity, and Educational Attainment (Persons 16 and Over): Madera County.....	28
Table 15 — Labor Force by Age, Citizenship Status, and Educational Attainment (Persons 16 and over): Madera County .....	29
Table 16 — Unemployed Labor Force by Age, Citizenship Status, and Educational Attainment (Persons 16 and over): Madera County.....	30
Table 17 — Labor Force by Citizenship Status, Age, and Educational Attainment (Persons 16 and Over): Unemployment Rates: Madera County.....	31
Table 18 — Labor Force by Age, Disability Status, and Educational Attainment (Persons 16 and over): Madera County .....	32
Table 19 — Unemployed Labor Force by Age, Disability Status, and Educational Attainment (Persons 16 and over): Madera County.....	33
Table 20 — Labor Force by Disability Status, Age, and Educational Attainment (Persons 16 and Over): Unemployment Rates: Madera County.....	34
Table 21 — Labor Force by Age, Veteran Status, and Educational Attainment (Persons 16 and over): Madera County .....	35
Table 22 — Unemployed Labor Force by Age, Veteran Status, and Educational Attainment (Persons 16 and over): Madera County.....	36
Table 23 — Labor Force by Age, Veteran Status, and Educational Attainment (Persons 16 and over): Unemployment Rates: Madera County.....	37

Table 24 — Employed and Unemployed Labor Force by College Degree Status and Economic Sector  
(Persons 25 and Over): Madera County ..... 38

# FIGURES

---

Figure 1 — Household Population Annual Growth Rates .....	7
Figure 2 – Labor Force Age Distribution (Persons 16 and Over).....	14
Figure 3 – Age Distribution by Race/Ethnicity (Persons 16 and Over) .....	15
Figure 4 – Labor Force Citizenship Status and Age (16 and over).....	15
Figure 5 – Labor Force Educational Attainment (25 and over).....	16
Figure 6 – Educational Attainment by Race/Ethnicity (25 and Over) .....	17
Figure 7 - Educational Attainment by Employment Status (25 and Over) .....	18
Figure 8 – Educational Attainment for Disabled Workers and Veterans (25 and Over).....	18
Figure 9 – Annual Openings by Major Occupational Group.....	19
Figure 10 – Annual Openings by Major Occupational Group .....	20
Figure 11 – Part Time and Unemployment Workers by Occupational Class Compared To Annual Openings: Only Underutilized Workers Whose Education Matches Job Qualifications .....	21
Figure 12 – Part Time and Unemployed Workers by Educational Attainment and Occupational Class (All Underutilized Workers) .....	22

# APPENDIX

---

Appendix Table 1 — Employment Projections by Industry Clusters: Agriculture: Distribution Madera County .....	40
Appendix Table 2 — Employment Projections by Industry Clusters: Agriculture: Processing: Madera County .....	40
Appendix Table 3 — Employment Projections by Industry Clusters: Agriculture: Production Madera County .....	41
Appendix Table 4 — Employment Projections by Industry Clusters: Agriculture: Support Madera County .....	42-4
Appendix Table 5 — Employment Projections by Industry Clusters: Energy Madera County .....	44
Appendix Table 6 — Employment Projections by Industry Clusters: Health and Wellness: Delivery: Madera County .....	45
Appendix Table 7 — Employment Projections by Industry Clusters: Health and Wellness: All Others.....	46
Appendix Table 8 — Employment Projections by Industry Clusters: Logistics: Madera County .....	47
Appendix Table 9 — Employment Projections by Industry Clusters: Manufacturing: All Others Madera County .....	48 - 10
Appendix Table 10 — Employment Projections by Industry Clusters: Water Technology Madera County .....	49
Appendix Table 11 — Employment Projections by Industry Clusters: Heavy Construction Madera County .....	50
Appendix Table 12 — Employment Projections by Industry Clusters: Accommodations and Food Services, and Retail .....	50
Appendix Table 13 — Occupational Projections by Education and Training Requirement: New Jobs (Jobs Expected to Grow By At Least 50) .....	51- 13
Appendix Table 14 — Occupational Projections by Education and Training Requirement: Annual and Cumulative Projected Openings .....	53- 18
Appendix Table 15 — Unemployed Labor Force-to-Job Openings Skills Match (Persons 25 and Over) Madera County .....	57- 25
Appendix Table 16 — Part-Time Labor Force-to-Job Openings Skills Match (Persons 25 and Over) Madera County .....	63- 32

Appendix Table 17 — Population by Age, Race\Ethnicity, and Educational Attainment Madera County (source: US Census ACS 3-Year Sample 2012-2014 [via iPUMS]) .....	71
Appendix Table 18 — Employed Labor Force by Age, Race\Ethnicity, and Educational Attainment (Persons 25 and Over) Madera County .....	72
Appendix Table 19 — Full-Time Employed Labor Force by Age, Race\Ethnicity, and Educational Attainment (Persons 25 and Over) Madera County .....	73
Appendix Table 20 — Labor Force by Gender, Age, and Educational Attainment: Population Madera County .....	74
Appendix Table 21 — Labor Force by Age, Gender, and Educational Attainment (Persons 25 and Over) Madera County .....	75
Appendix Table 22 — Employed Labor Force by Age, Gender, and Educational Attainment (Persons 25 and Over) Madera County .....	76
Appendix Table 23 — Part-Time Employed Labor Force by Age, Gender, and Educational Attainment (Persons 25 and Over) Madera County .....	77
Appendix Table 24 — Unemployed Labor Force by Age, Gender, and Educational Attainment (Persons 25 and Over) Madera County .....	78
Appendix Table 25 — Unemployment Rates by Age, Gender, and Educational Attainment Madera County .....	79
Appendix Table 26 — Population by Age, Disability Status, and Educational Attainment Madera County .....	80
Appendix Table 27 — Population by Age, Veteran Status, and Educational Attainment Madera County .....	81
Appendix Table 28 — Part-Time Employed Labor Force by Broad Occupation Categories, Educational Attainment and Management Status Madera County (source: US Census ACS 3-Year Sample 2012-2014 [via iPUMS]) .....	82 - 45
Appendix Table 29 — Unemployed Labor Force by Broad Occupation Categories, Educational Attainment and Management Status (excluding Long-Term Unemployed) Madera County (source: US Census ACS 3-Year Sample 2012-2014 [via iPUMS]) .....	84- 49
Appendix Table 30 — Long-Term Unemployed Labor Force by Educational Attainment (Persons 25 and Over) Madera County (source: US Census ACS 3-Year Sample 2012-2014 [via iPUMS]) .....	88

# SUMMARY

---

Prepared under the auspices of the Central California Workforce Collaborative (CCWC), this report provides trend information and projections for jobs in Madera County by industry sector, industry clusters, and occupational openings. The analysis also provides a description of key labor force characteristics in the County and discusses the match between education and occupational background for the unemployed and part time workforce in relation to projected job openings.

## SUMMARY OF FINDINGS

### JOB GROWTH

- The County unemployment rate has declined to 9.9% in 2015, down from the peak of 16.6% in 2010, but still well above the low point before the recession of 7.0% in 2006 (Table 1).
- Before the recession, total jobs in the County peaked at 46,453 in 2007 and did not reach that level again until early 2013. Jobs grew to 48,460 in 2014 but have declined again to 47,074 in 2015 (Table 3).
- Health Care is projected to see the highest growth in jobs between 2015 and 2025 (2,014 new jobs), followed by Agriculture (1,515 new jobs)(Table 4).
- Madera County is also expected to see relatively strong growth in administrative services (960 new jobs), public administration (499 new jobs) and manufacturing (734 new jobs). Most of the new manufacturing jobs are related to food processing, with poultry processing leading the way with 354 new jobs (Table 4).
- Agriculture is also the leading industry cluster in terms of projected job growth (2,979 new jobs)(Table 6). Over 1,000 of these jobs are in food processing and distribution and the remainder are in farming and agricultural support services. Despite this overall growth, EMSI has also projected job losses in flour milling (-192 jobs) and farm labor contracting (-299), which may require worker transition services.
- As noted above, Health and Wellness also is projected to see substantial employment growth, with 2,047 new jobs (the cluster includes a few industry categories outside the NAICS 61 category shown in Table 4, which projects 2,014 new jobs)(Table 6).
- Local and visitor-serving sectors have relatively high job growth projections, with 552 new jobs projected for retail and 436 new jobs for accommodations and food services between 2015 and 2025 (Table 6).
- The projections of job openings also show a concentration in farming occupations, with 347 openings per year over the ten year period (Table 8). Other prominent occupational categories include food preparation and serving (161 openings per year), office and administrative support (149 annual openings) and sales occupations (144 annual openings).
- Additional occupational categories with at least 100 openings per year include production (105 annual openings), building maintenance (106 annual openings) and education (101 annual openings). Within the production category, meat processing has the highest number of openings, reflecting in part the projected growth in poultry processing.



- For each of these occupational categories, the report also indicates the number of unemployed and part time workers in the County that meet the minimum educational requirements for the projected job openings. These workers may need more specialized training in order to transition into these jobs.

### **LABOR FORCE CHARACTERISTICS**

- The labor force in Madera County is generally concentrated in the prime-working age group of 35-54, included in which is 43.7 percent of the County's labor force. With 17 percent in the 16-24 age group, and nearly 21 percent of the 25-34 age group, young workers comprise 38 percent of the County's labor force (Figure 2). Workers over 55 constitute about 18 percent of the labor force and a number of employers report that impending retirements are a significant issue for them in terms of anticipated openings in the future.
- Non-citizen workers constitute 24.2 percent of the workforce in Madera County, although the rate varies with age (Figure 4). At 29.3 percent of the millennial labor force (25 to 34) and 27.5 percent of the prime working age (35 to 54) labor force, non-citizens are more concentrated in these two age cohorts relative to their overall concentration level of 24.2 percent.
- The Madera County workforce exhibits comparable educational attainment to the rest of the San Joaquin Valley region. Nearly 72 percent of workers 25 years and older have obtained at least a high school diploma or equivalent and 24.0 percent have a college degree.
- Among non-citizens in Madera County, 81 percent have not obtained a high school diploma or a GED. While 11 percent of non-citizens in the labor force have earned a high school diploma or equivalent, this rate is 14 percentage points lower than the rate for citizens (i.e. 25 percent). In describing the relatively low educational attainment levels of non-citizens, it is important to recognize that many non-citizens have not had the same educational opportunities in their home countries.
- Veterans in Madera County tend to have high levels of overall educational attainment, with slightly over two percent not achieving a high school diploma (Figure 8). For the workforce as a whole, 28.3 percent do not have a high school diploma or equivalent certificate. Moreover, 43.4 percent of the veterans have a college degree versus the college degree rate for all in the labor force, or 24.0 percent. Among disabled workers, however, nearly 32 percent do not have a high school diploma.

## **CONCLUSION**

At 1.6 percent a year, Madera County's employment base is expected to grow modestly from now to 2025, although analysts project a number of sectors including Health and Logistics, to exhibit steady growth at rates that double the overall annual growth rate of 1.6 percent. However, qualified workers are in short supply for certain key job categories. Based on the analysis presented in this report and discussions with key employers and workforce training organizations, the following can be identified as potential priorities for additional training efforts.

- Medical Technicians
- Electricians

- Maintenance Mechanics
- Ability to use computer operated processing controls and instruments (and related English competency)
- Workers with supervisory, management and business skills

# ECONOMIC TRENDS

## POPULATION AND EMPLOYMENT TRENDS

The County unemployment rate has declined to 9.9 percent in 2015, down from the peak of 16.6 percent in 2010, but still well above the low point before the recession of 6.9% in 2008 (Table 1). Both employed and overall labor force levels have increased since 2010, with the former at 56,383 in 2015 from 51,300 in 2010. There are 62,567 in Madera County's labor force today, compared to 61,500 in 2010. However, labor force numbers are still below peak levels reached between 2000 and 2015. Madera County's labor force peaked in 2009 at 66,500 persons in the labor force, meaning that there are roughly 4,000 less persons in the labor force than six years before. Peak labor force employment occurred in 2008 at 58,900 jobs, meaning while the number of employed labor force members has steadily increased since the full on-set of the Great Recession, right now there are roughly 2,600 less persons who are in the labor force and employed than in 2008.

**Table 1 — Annual Labor Force Trends, 2000-2015: Madera County**

Period	Labor Force Trends	Employed Labor Force	Unemployment Rate
08-15 Ann. Growth Rate	-0.5%	-0.6%	13.4%
00-08 Ann. Growth Rate	2.1%	2.0%	8.9%
2015	62,567	56,383	9.9%
2014	63,200	56,200	11.0%
2013	62,700	54,800	12.5%
2012	62,700	53,600	14.5%
2011	61,900	51,900	16.2%
2010	61,500	51,300	16.6%
2009	66,500	57,600	13.4%
2008	65,000	58,900	9.5%
2007	63,400	58,600	7.5%
2006	62,700	58,400	7.0%
2005	61,900	57,000	7.9%
2004	61,100	55,500	9.1%
2003	59,000	52,900	10.3%
2002	55,500	49,700	10.5%
2001	53,900	48,800	9.6%
2000	55,000	50,200	8.7%

Source: Applied Development Economics, based on CA EDD LMID. Note: Unemployment rates for 2000-2008 and 2008-2015 in the table above are annual averages, not annual growth rate.

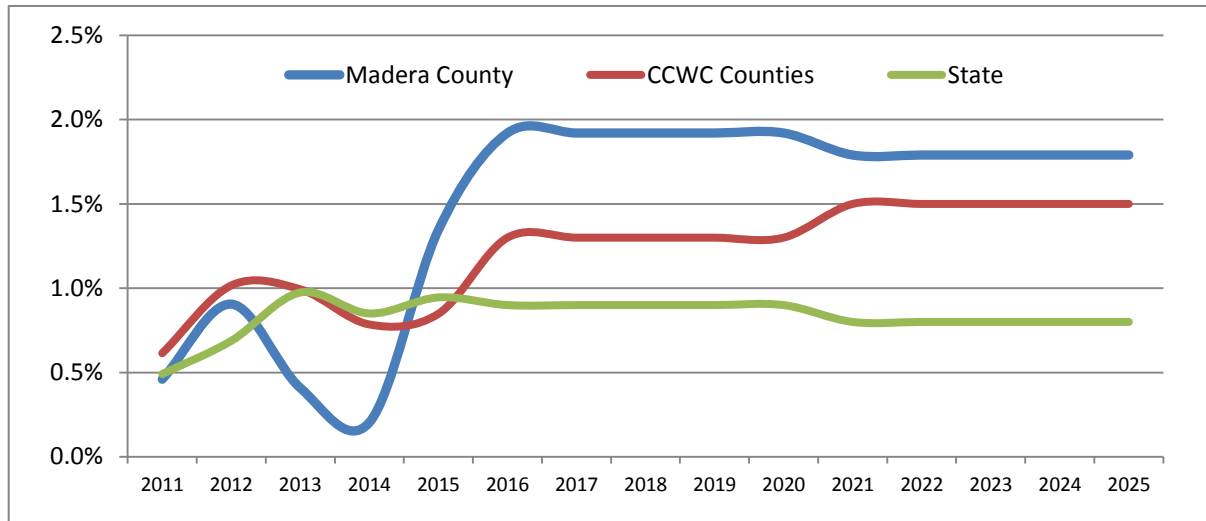
The household population has increased somewhat by 0.7 percent per year between 2010 and 2015 – a rate significantly lagging behind the annual growth rate for the multi-county CCWC region as a whole (Table 2). In addition, group quarters population declined by 800 since 2010 due in part to a decline in population at state prisons in the county. Household population growth in the San Joaquin Valley exceeded statewide growth rates between 2011 and 2013, but has slowed in the past two years. As shown in Figure 1, Madera County is projected to grow slightly faster than the CCWC region as a whole over the next five years, which will have implications for some employment sectors, as discussed below.

**Table 2- Total and Household Population trends: Madera County, CCWC Region, and California**

Year	Household Population						Total Population					
	Madera County	Growth Rate	CCWC Counties	Growth Rate	State	Growth Rate	Madera County	Annual Growth Rates	CCWC Counties	Growth Rate	State	Growth Rate
2010	142,241		3,888,941		36,412,191		150,865		4,004,407		37,253,956	
2011	142,895	0.46%	3,912,829	0.60%	36,590,965	0.50%	151,256	0.26%	4,025,282	0.50%	37,427,946	0.50%
2012	144,189	0.91%	3,952,595	1.00%	36,842,677	0.70%	151,423	0.11%	4,058,833	0.80%	37,680,593	0.70%
2013	144,778	0.41%	3,991,868	1.00%	37,201,756	1.00%	151,408	-0.01%	4,094,785	0.90%	38,030,609	0.90%
2014	145,073	0.20%	4,023,198	0.80%	37,518,013	0.90%	153,243	1.21%	4,129,749	0.90%	38,357,121	0.90%
2015	147,025	1.35%	4,057,322	0.80%	37,872,750	0.90%	154,850	1.05%	4,165,560	0.90%	38,714,725	0.90%
2010-2015	4,784	0.66%	168,381	4.30%	1,460,559	4.00%	3,985	0.52%	161,153	4.00%	1,460,769	3.90%

Source: ADE, Inc., based on California Dept. of Finance Demographic Research Unit, Table E-5 Annual Population Reports

**Figure 1 — Household Population Annual Growth Rates**



Before the recession, total jobs in the County peaked at 46,450 in 2007 and reached that level again sometime in 2013. The annual average number of jobs in 2015 is estimated at 47,074 (Table 3). Through 2008, total jobs in the County were growing at a tepid rate of 0.25 annual percentage rate. From 2000 to 2008, the number of jobs increased annually by 2.2 percent.

**Table 3 — Trends in Total Number of Jobs: 2000-2015: Madera County**

Period	Total Employment
08-15 Ann. Growth Rate	0.25%
00-08 Ann. Growth Rate	2.15%
2015	47,074
2014	48,360
2013	47,143
2012	45,316
2011	43,638
2010	43,296
2009	44,706
2008	46,263
2007	46,453
2006	45,515
2005	44,071
2004	43,316
2003	40,465
2002	37,948
2001	38,253
2000	39,016

Source: Applied Development Economics,  
based on CA EDD LMID

Farm employment grew at a 3.2 percent annual rate between 2010 and 2015 but is projected to increase at a slower rate of 1.2 percent over the next ten years (Table 4). Despite these overall trends, some job growth is projected in farm support (NAICS 115), especially within Soil Preparation (NAICS 115112), Postharvest Crop activities (NAICS 115114), and Farm Management Services (NAICS 115116) (Table 5). A number of factors affect farm employment including availability of water and continued mechanization of farming operations. In addition, employers interviewed for this study indicated that the new state minimum wage law will affect employment opportunities in both farming and food processing and related industries. In addition, current efforts in the State Assembly to limit the agricultural workday are seen as a threat to employment growth.

Manufacturing industries in Madera County are mainly ag-related. Manufacturing jobs increased recently by 1,700 jobs, from 2,819 in 2010 to 4,586 in 2015. While this sector grew by an astounding 10.2 percent a year between 2010 and 2015, it is expected to grow at a more tepid rate of 1.5 percent per year over the next ten years. Food processing industries such as Poultry Processing (NAICS 311615) and Other Snack Foods Manufacturing (NAICS 311919) are expected to grow by 400 jobs over the next ten years. Ag-related manufacturing such as Corrugated and Solid Box Manufacturing (NAICS 322211), Plastic Pipes (NAICS 326122), and Glass Container manufacturing (NAICS 327213) are expected to increase by 170 jobs (Table 5).

The construction industry exhibited modest growth in line with the low annual population growth rate of 0.66 percent between 2010 and 2015, going from 1,203 jobs in 2010 to 1,270 jobs in 2015, for a one percent annual rate of growth. However, this sector is project to growth by 4.9 percent a year over the next ten years (Table 4), driven in part by an anticipated increase of 569 jobs over this ten-year period due to the California High Speed Rail (HSR) project. ADE estimated this number of jobs based on the extent of construction for HSR within Madera County during the first phase of the project which extends from 2015 to 2025.<sup>1</sup> Structural Steel and Pre-Cast Concrete Contractors (NAICS 238120) and masonry Contractors (NAICS 238140) are expected to grow significantly at 6.9 percent and 11.8 percent a year respectively (Table 5).

Of all the sectors in Madera County, the Health Services sector is projected to see strong employment growth over the next ten years. This is a consistent finding throughout the San Joaquin Valley as well as nationally and reflects both demographic trends with the aging Baby Boomer population as well as industry trends to institute managed care with more outpatient and home health care. Employment in Health Services is projected to grow to 9,551 in 2025 from 7,537 in 2015, for an annual rate of growth of 2.4 percent. In other words, slightly over 2,000 new jobs are expected in this sector alone. In an effort to accurately characterize the state of employment in the health sector in Madera County, employment in Health Services includes employed persons in the public sector, who for purposes of analysis were moved out of NAICS 92 (Public Administration) and into NAICS 62 (Health Services). Another population based trend is the increase in retail and food services jobs. Both these sectors have been recovering from the recession over the past five years, and are projected to see more moderate growth over the next ten years.

---

<sup>1</sup> California High Speed Rail Authority. *2016 Business Plan*. May 1, 2016. The construction jobs do not include ongoing jobs at the Heavy Maintenance Facility, should that be located in Madera County.

**Table 4 — Employment Trends and Projections by Sectors: Madera County**

		Employment			Change	Ann. Growth Rate	
		2010	2015	2025 proj.	15-25	10-15	15-25
		<b>44,226</b>	<b>49,197</b>	<b>58,220</b>	<b>9,023</b>	<b>2.2%</b>	<b>1.7%</b>
11	Agriculture	10,215	11,935	13,450	1,515	3.2%	1.2%
21	Mining	34	44	60	16	5.4%	3.1%
22	Utilities	165	262	284	22	9.7%	0.8%
23	Construction	1,203	1,270	2,042	772	1.1%	4.9%
31-33	Manufacturing	2,819	4,586	5,320	734	10.2%	1.5%
42	Wholesale	631	802	1,053	251	4.9%	2.8%
44-45	Retail	3,377	3,714	4,266	552	1.9%	1.4%
48	Warehousing	582	582	727	145	0.0%	2.2%
49	Transportation	180	193	231	38	1.4%	1.8%
51	Information	438	366	361	-4	-3.6%	-0.1%
52	Finance and Insurance	377	475	599	124	4.7%	2.4%
53	Real Estate and Leasing	340	384	460	76	2.5%	1.8%
54	Professional, Scientific, Technical	646	584	747	163	-2.0%	2.5%
55	Mgt.of Companies	333	381	264	-117	2.7%	-3.6%
561	Admin Support	1,488	1,852	2,812	960	4.5%	4.3%
562	Waste Mgt.	136	84	40	-44	-9.1%	-7.1%
61	Education	4,426	4,714	5,230	516	1.3%	1.0%
62	Health	5,671	7,537	9,551	2,014	5.9%	2.4%
71	Arts, Recreation, and Entertainment	256	313	406	93	4.1%	2.6%
721	Accommodations	576	593	693	100	0.6%	1.6%
722	Food and Drinking Services	1,691	2,089	2,425	335	4.3%	1.5%
81	Other Services	1,839	1,168	1,421	254	-8.7%	2.0%
92	Public Admin (excpt.Military)	6,506	4,869	5,369	499	-5.6%	1.0%
98	Military	234	236	222	-13	0.1%	-0.6%
99	Misc.	64	162	186	24	20.3%	1.4%

Source: ADE, Inc., based on EMSI Industry Employment trends 2010, 2015, 2025 QCEW and non-QCEW Q4 Data Series. Note 1: Public education moved out of NAICS 92 and placed in NAICS 61. Note 2: Public sector health care moved out of NAICS 92 and placed in NAICS 62. Note 3: NAICS 814110 [Private households] and NAICS 624120 [Service for elderly and others] were adjusted, which are reflected in sector-level employment data for NAICS 62 [Health] and NAICS 81 [Other Services] accordingly. Prior to 2013, persons assisting the elderly were categorized under NAICS 814110 [Private households] – starting in 2013, these jobs were re-categorized under NAICS 624120 [Service for elderly and others].



**Table 5 — Employment Projections for Industries Expected to Grow By 50 or More Jobs Between 2015 and 2025: Madera County**

NAICS	Industry	2015 Jobs	2025 Projected	15-25 Change	15-25 Annual Growth Rate
<b>TOTAL (only industries with 50+ job growth)</b>		<b>29,389</b>	<b>37,506</b>	<b>8,119</b>	<b>2.3%</b>
111000	Crop Production	3,635	4,280	645	1.6%
115112	Soil Preparation, Planting, and Cultivating	1,186	1,668	482	3.5%
115114	Postharvest Crop Activities (except Cotton Ginning)	750	1,227	477	5.0%
115116	Farm Management Services	590	860	270	3.8%
	11 Agric.	6,162	8,035	1,873	2.7%
236118	Residential Remodelers	63	121	58	6.8%
237990	Other Heavy and Civil Engineering Construction	13	590	577	46.0%
238120	Structural Steel and Precast Concrete Contractors	129	250	121	6.8%
238140	Masonry Contractors	71	215	145	11.8%
	23 Const.	276	1,176	901	15.6%
311615	Poultry Processing	429	783	354	6.2%
311919	Other Snack Food Manufacturing	256	320	64	2.3%
322211	Corrugated and Solid Fiber Box Manufacturing	250	305	55	2.0%
326122	Plastics Pipe and Pipe Fitting Manufacturing	274	329	55	1.9%
327213	Glass Container Manufacturing	444	516	72	1.5%
333318	Other Commercial and Service Industry Machinery	67	118	51	5.9%
335129	Other Lighting Equipment Manufacturing	102	173	71	5.4%
	31-33 Man.	1,821	2,543	722	3.4%
444110	Home Centers	295	396	101	3.0%
445110	Supermarkets and Other Grocery (except	940	1,073	133	1.3%
452112	Discount Department Stores	320	390	70	2.0%
452990	All Other General Merchandise Stores	188	274	86	3.8%
	44-45 Retail	1,742	2,133	390	2.0%
484220	Specialized Freight (except Used Goods) Trucking,	259	309	51	1.8%
	48 Trans.	259	309	51	1.8%
541110	Offices of Lawyers	146	199	53	3.1%
	54 Prof.,Sci., Tech.	146	199	53	3.1%
561320	Temporary Help Services	571	883	313	4.5%
561612	Security Guards and Patrol Services	141	235	94	5.3%
561720	Janitorial Services	860	1,338	478	4.5%
	56 Admin,Support,Waste	1,572	2,456	885	4.6%
611110	Elementary and Secondary Schools	4,086	4,509	423	1.0%
	61 Education	4,086	4,509	423	1.0%
621111	Offices of Physicians (except Mental Health	523	637	114	2.0%
621491	HMO Medical Centers	168	248	80	4.0%
622110	General Medical and Surgical Hospitals	3,646	4,128	482	1.2%
623220	Residential Mental Health and Substance Abuse	154	272	118	5.9%
624120	Services for the Elderly and Persons with Disabilities	1,351	2,241	890	5.2%
624410	Child Day Care Services	301	446	144	4.0%
	62 Health	6,144	7,973	1,829	2.6%
721110	Hotels (except Casino Hotels) and Motels	497	569	72	1.4%
722511	Full-Service Restaurants	691	781	90	1.2%
722513	Limited-Service Restaurants	1,215	1,456	241	1.8%
	72 Accomodations and Food	2,403	2,806	403	1.6%

NAICS	Industry	2015 Jobs	2025 Projected	15-25 Change	15-25 Annual Growth Rate
811192	Car Washes	72	146	74	7.3%
	81 Other Svcs.	72	146	74	7.3%
902999	State Government, Excluding Education and Hospitals	2,668	2,886	218	0.8%
903999	Local Government, Excluding Education and Hospitals	2,038	2,336	297	1.4%
	90 Public	4,706	5,221	515	1.0%

Source: ADE, Inc., based on EMSI QCEW and non-ACEW Q4 2015

## INDUSTRY CLUSTERS

The San Joaquin Valley has defined a number of regional industry clusters that are significant components of the regional economic base, which are listed in Table 5 below. Industry clusters represent traded sectors in the regional economy and typically are the source of most of the income and wealth for the region as well as the areas where innovation occurs most frequently. In Madera County, Agriculture and Health Care are the two largest industry clusters. For this study, we have also included the retail sector and the accommodations and food services sector to reflect job opportunities in the local serving and tourism industries.

The Agriculture cluster includes not only farm production, but also food processing, related distribution and logistics, and a variety of agricultural services that include fertilizers, irrigation, soil testing, veterinary services, and marketing among others (Detailed cluster and sub-cluster employment data are in the Appendix at “Detailed Industry Cluster Employment Projects”). This cluster cuts across several of the major industry groups shown in Table 4 above. In addition, several agricultural support industries closely related to field operations are also projected to reduce jobs, as shown in Table 7 below. However, within the broader Agricultural cluster, several food processing and ag-related manufacturing industries are projected to increase employment, Poultry Processing (NAICS 311615), Other Snack Foods Manufacturing (NAICS 311919), Corrugated and Solid Box Manufacturing (NAICS 322211), Plastic Pipes (NAICS 326122), and Glass Container manufacturing (NAICS 327213). In addition, the agriculture related distribution sector is projected to add about 400 jobs over the next ten years.

The Health and Wellness cluster is projected to add almost 2,000 jobs by 2025 (Table 6). About 43 percent of the new jobs in this cluster are projected for services to elderly and disabled persons. Some of the new jobs will occur in hospital settings but many will be in outpatient facilities and various types of nursing and residential care facilities. (see Appendix Table A-6 and A-7 for detail on industries with lower job projections).

In addition to tracking growing industries, our analysis also identifies industries that expected to decline. Below are industries within various clusters expected to decline by 50 or more workers between 2015 and 2025. While food processing generally exhibits strong growth over the next ten years, Flour Milling (NAICS 311211) within the Ag Cluster is expected to decline, as are other ag-related industries such as Farm labor Contractors (NAICS 115115) and Animal Production (NAICS 112000).

**Table 6 — Employment Projections by Industry Clusters Madera County**

Clusters	2015	2025 Projected	15-25 Change	15-25 Ann. Per. Chg.
<b>Total</b>	<b>38,522</b>	<b>46,677</b>	<b>8,155</b>	<b>1.9%</b>
Energy	1,533	1,826	292	1.8%
Diversified Manufacturing	1,662	1,599	-63	-0.4%
Health and Wellness	7,801	9,848	2,047	2.4%
Agriculture	18,135	21,114	2,979	1.5%
Water Flow Technology	458	544	85	1.7%
Logistics	661	870	209	2.8%
Retail	3,714	4,266	552	1.4%
Accommodations and Food	2,683	3,118	435	1.5%
Heavy Construction	195	788	593	15.0%

Source: Applied Development Economics, based on EMSI Q4 2015 QCEW and Non-QCEW. Note: Energy Cluster excludes employment data for NAICS 541 (Professional, Scientific and Technical), Health and Wellness Cluster excludes employment data for NAICS 9012 (Military); Manufacturing Cluster is only for "manufacturing – other" industries (i.e., not included in other clusters such as Agriculture)

**Table 7 — Industries by Clusters That Are Expected to Decline Significantly Between 2015 and 2025: Madera County**

Cluster	NAICS	Industry	Employment		2015 - 2025 proj.	
			2015	2025 proj.	Change	Ann.Growth Rate
Ag and Food -- Support	115115	Farm Labor Contractors, Crew Leaders	4,375	4,076	-314	-0.7%
Ag and Food -- Processing	311211	Flour Milling	350	226	-192	-4.3%
Ag and Food -- Support	551114	Corporate, Subsidiary, Regional Offices	381	264	-119	-3.6%
Ag and Food -- Production	112000	Animal Production and Aquaculture	1,273	1,215	-58	-0.5%
Manufacturing - Other	327332	Concrete Pipe Manufacturing	169	119	-51	-3.5%

## PROJECTED JOB OPENINGS

Labor force demand is not only affected by new jobs growth but also by changes in the labor force. As discussed in the next chapter, as the Baby Boomer generation ages out of the labor force, there will be an increasing need for replacement workers. In addition, job turnover occurs for a number of other reasons. As shown in Table 8, nearly 15,500 openings are projected between 2015 and 2025, of which approximately 8,500 would be due to new job growth.

The Agricultural cluster will see a large number of these job openings in occupations related to transportation, production, and farming. The Retail and Food Services sectors are also expected to see a high rate of job availability. For the Health and Wellness cluster, direct health care occupations reflect only a portion of the health-related labor force demand. Health practitioners and support, including personal care services, represent about 1,000 total opening over the ten years to 2025. Other occupational categories will also be needed by this industry, including office and administrative support, and management.

**Table 8 — Annual Openings Compared to Number of Unemployed Who Satisfy Minimum Educational Requirements**

Major Occupational Group	Annual Openings	Unemployed Whose Educational Attainment Matches Occupational Requirement	Part-Time Labor Whose Educational Attainment Matches Occupational Requirement
<b>Total</b>	<b>1,610</b>	<b>1,090</b>	<b>7,178</b>
53 Transportation and Material Moving	101	223	284
51 Production	105	20	20
49 Installation, Maintenance, and Repair	38	0	234
47 Construction and Extraction	67	201	483
45 Farming, Fishing, and Forestry	347	208	710
43 Office and Administrative Support	149	81	1,073
41 Sales and Related	144	198	1,058
39 Personal Care and Service	63	62	768
37 Building and Grounds Cleaning and Maintenance	106	0	469
35 Food Preparation and Serving Related	161	0	952
33 Protective Service	57	0	57
31 Healthcare Support	37	0	501
29 Healthcare Practitioners and Technical	59	0	147
27 Arts, Design, Entertainment, Sports, and Media	0	0	0
25 Education, Training, and Library	101	69	363
23 Legal	0	0	0
21 Community and Social Services	14	0	0
19 Life, Physical, and Social Science	0	0	0
17 Architecture and Engineering	3	0	0
15 Computer and Mathematical	0	0	0
13 Business and Financial Operations	14	0	0
11 Management	40	29	59

*Source: Applied Development Economics, based on EMSI and US Census ACS 3-Year Sample 2012-2014 (from iPUMS)*

Based on our analysis of the labor force in Madera County, ADE has estimated the numbers of unemployed and part time employed workers who meet the minimum educational requirements for the projected job openings (Table 8). We include part time employed workers as an expression of the potentially under-employed workforce in the County, although some workers seek part time work out of choice.

It is notable that no unemployed installation, maintenance and repair workers show up in the database. Many businesses contacted for this study indicated that these occupations are among the hardest to fill. There is also a distinct lack of unemployed workers in health care occupations, as well as business and financial operations, in relation to projected openings.

# LABOR FORCE CHARACTERISTICS

---

The analysis of labor force characteristics includes details about the following groups:<sup>2</sup>

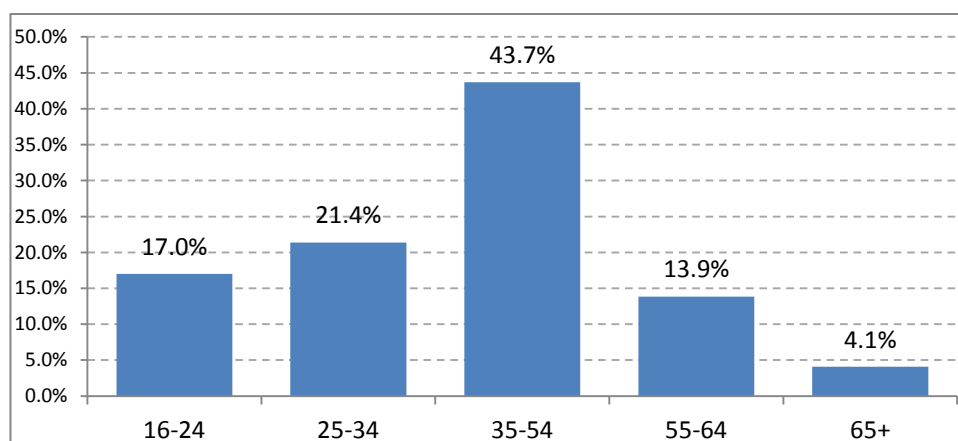
- Race and Ethnicity: White, Latino, Other
- Gender
- Veteran Status
- Disability Status
- Citizenship

The characteristics include:

- Age
- Educational Attainment
- Employment status: full time, part time, unemployed
- Occupation

The labor force in Madera County is generally concentrated in the prime-working age group of 35-54, included in which is 43.7 percent of the County's labor force. With 17 percent in the 16-24 age group, and nearly 21 percent of the 25-34 age group, young workers comprise 38 percent of the County's labor force (Figure 2). Workers over 55 constitute about 18 percent of the labor force and a number of employers report that impending retirements are a significant issue for them in terms of anticipated openings in the future.

**Figure 2 – Labor Force Age Distribution (Persons 16 and Over)**



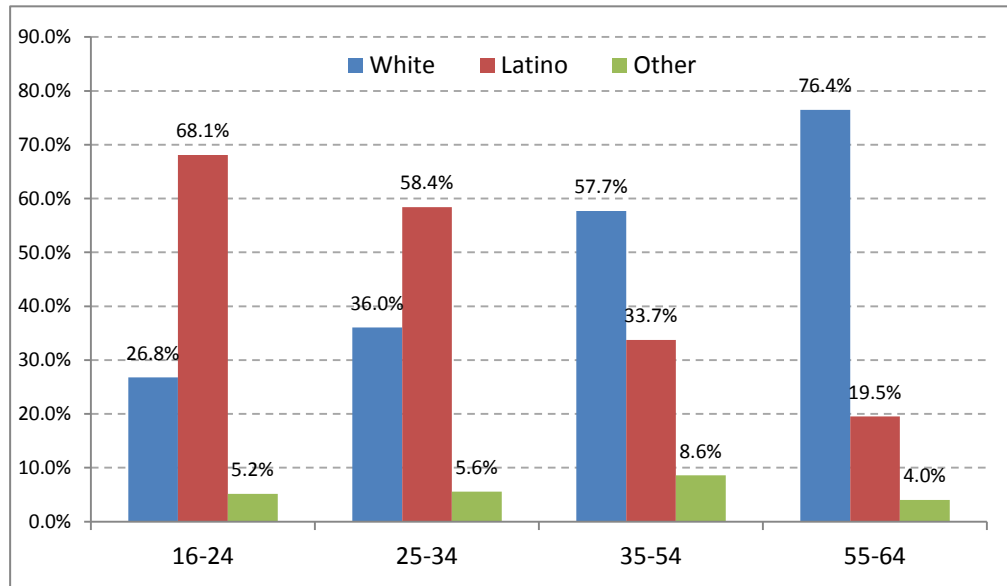
*Source: ADE, Inc., based on US Census ACS PUMS 2012-2014 from iPUMS*

---

<sup>2</sup> The analysis of labor force characteristics is based on census data for the 2012 to 2014 period, reflecting a three year average.

As shown in Figure 3, younger age groups tend to have a higher proportion of Latino workers while older age groups have higher percentages of white workers. Of the labor force between 16 and 24, almost 68 percent are Latino, while almost 27 percent are White. Similarly, for the 25-34 age cohorts, 58 percent are Latino and 36 percent are White. At 58 percent of the 35 to 54 workforce, Whites comprise the largest segment of prime working-age adults in the labor force, with Latinos at 34 percent. At 76 percent of the 55 and over workforce, Whites comprise the largest segment of prime working-age adults in the labor force, with Latinos at 19 percent.

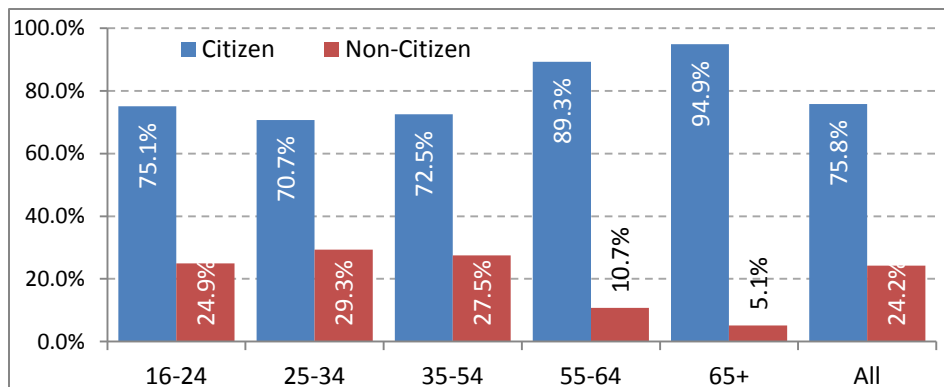
**Figure 3 – Age Distribution by Race/Ethnicity (Persons 16 and Over)**



Source: ADE, Inc., based on US Census ACS PUMS 2012-2014 from iPUMS

Non-citizen workers constitute 24.2 percent of the workforce in Madera County, although the rate varies with age (Figure 4). At 25 percent of the labor force between 16 and 24, non-citizens comprise this part of the labor force at levels consistent with the overall 24 percent all-age average. At 29.3 percent of the millennial labor force (25 to 34) and 27.5 percent of the prime working age (35 to 54) labor force, non-citizens are more concentrated in these two sub-populations relative to their overall concentration level of 24.2 percent.

**Figure 4 – Labor Force Citizenship Status and Age (16 and over)**



Source: ADE, Inc., based on US Census ACS PUMS 2012-2014 from iPUMS

## UNEMPLOYMENT

In Madera County, almost 57 percent of the 16 and over labor force is Latino, at 33,334 persons out of a labor force of 58,471 (Table 9). Thirty-seven percent is White. While the overall county-wide unemployment rate is 9.0 percent, unemployment for Latino workers is a relatively low 8.5 percent compared to 10.6 percent for Whites. Unemployment is 4.4 percent for workers in other racial and ethnic groups. At an unemployment rate of 7.2 percent, workers with no college degree exhibit slightly higher rates of joblessness than those with a college degree (6.0 percent) (Table 9).

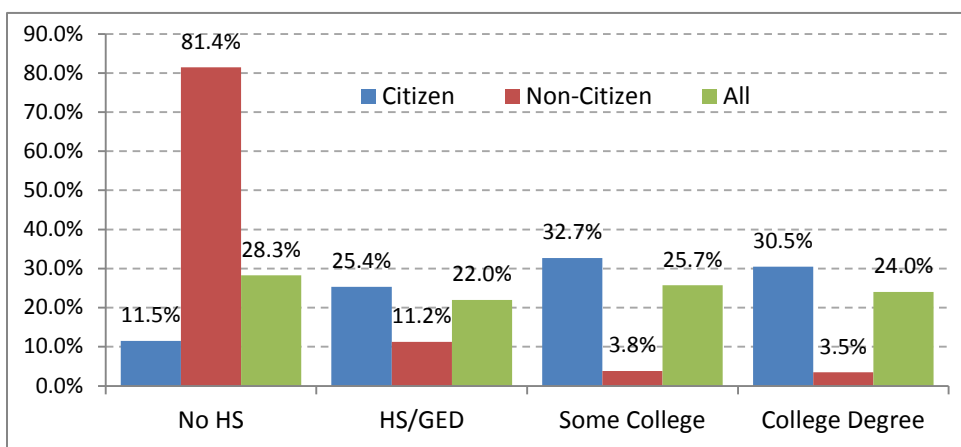
Interestingly, most other counties in the multi-county CCWC region exhibit a stark contrast in jobless rates between those with a college degree and those without a college degree. In the case of nearby Merced County, those without a college degree exhibit rates of unemployment almost twice that of persons with college degrees, at 14.9 percent versus 7.5 percent. The unemployment rate for persons in Madera County with at least one disability who are in the labor force is a relatively high 14.3 percent, while at 12.8 percent, the unemployment rate for veterans is also several percentage points above the 9.0 percent countywide average (Table 9).

## EDUCATIONAL ATTAINMENT

The Madera County workforce exhibits comparable educational attainment to the rest of the San Joaquin Valley region. Nearly 72 percent of workers 25 years and older have obtained at least a high school diploma or equivalent and 24.0 percent have a college degree (Figure 5).

Non-citizens exhibit unemployment levels almost half that of citizens, at 4.8 percent versus 10.4 percent (Table 9). Interestingly, this is not because non-citizens exhibit higher educational attainment levels than citizens: non-citizens 25 and over lack a high school diploma at higher rates than citizens (Figure 5), as 81 percent have not obtained a high school diploma or a GED. While 11 percent of non-citizens in the labor force have earned a high school diploma or equivalent, this rate is 14 percentage points lower than the rate for citizens (i.e. 25 percent). In describing the relatively low educational attainment levels of non-citizens, it is important to recognize that many non-citizens have not had the same educational opportunities in their home countries.

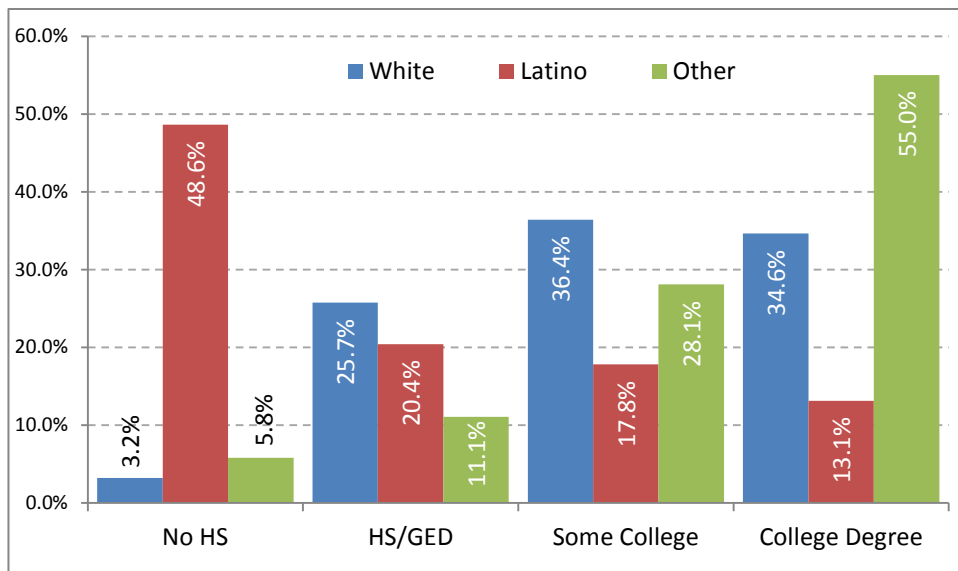
**Figure 5 – Labor Force Educational Attainment (25 and over)**



Source: ADE, Inc., based on US Census ACS PUMS 2012-2014 from iPUMS

Because 97 percent of non-citizens in Madera County are Latino, differences in educational attainment between citizens and non-citizens are reflected in differences in educational attainment between Latino workers and other workers in the labor force. Thus, 48.6 percent of Latinos in the labor force do not have a high school diploma, versus 3.2 percent of Whites in the labor force (Figure 6). Yet at 20.4 percent, it is important to note that Latinos have earned high school diplomas and GEDs at rates close to persons who are White (25.7 percent), and at levels superior to Others (11.1 percent). However, those who are not Latino are over three times more likely than Latinos to have earned a college degree: 13.1 percent of the Latinos in the labor force have earned a college degree versus 35 percent for Whites and 55 percent for Others (Figure 6).

**Figure 6 – Educational Attainment by Race/Ethnicity (25 and Over)**

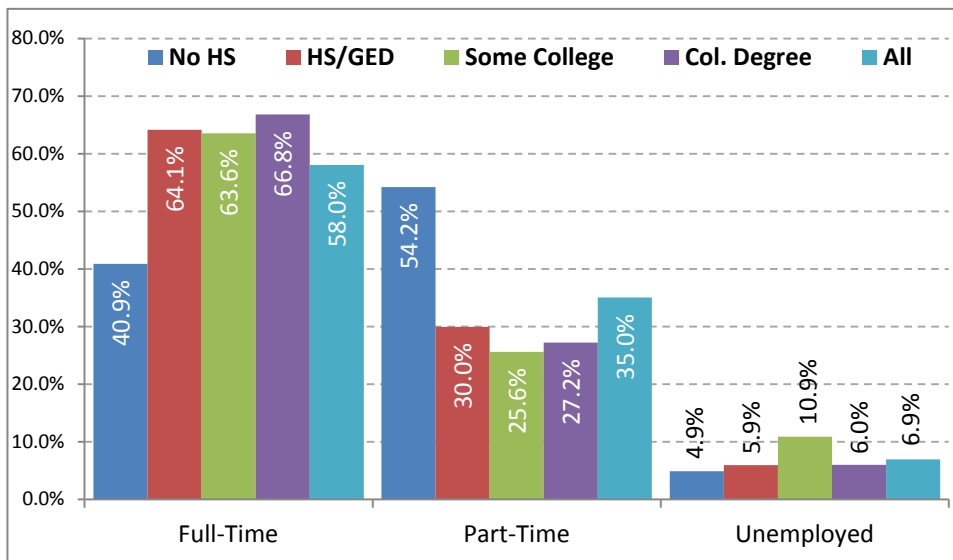


Source: ADE, Inc., based on US Census ACS PUMS 2012-2014 from iPUMS

Educational attainment also affects employment status. Of the persons with a college degree, almost 67 percent work full-time, resulting in a full-time employment rate that is 26 percentage points greater than the full-time employment rate for persons without a high school diploma (i.e. 66.8 percent versus 40.9 percent)(Figure 7). Interestingly, persons with no high school diploma (4.9 percent) and persons with a high school diploma (5.9 percent) score slightly lower unemployment rates than persons with a college degree (6.0 percent).



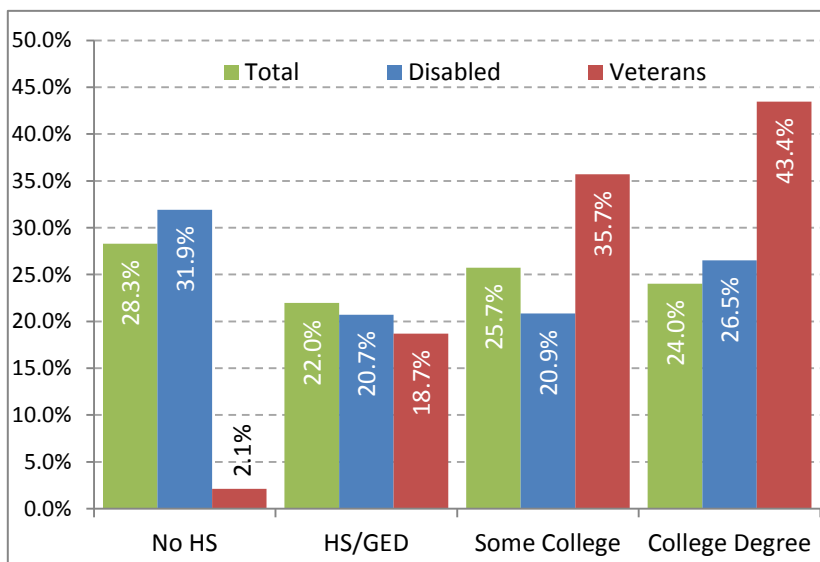
**Figure 7 - Educational Attainment By Employment Status (25 and Over)**



Source: ADE, Inc., based on US Census ACS PUMS 2012-2014 from iPUMS

Veterans in Madera County tend to have high levels of overall educational attainment, with slightly over two percent not achieving a high school diploma (Figure 8). For the workforce as a whole, 28.3 percent do not have a high school diploma or equivalent certificate. Moreover, 43.4 percent of the veterans have a college degree versus the college degree rate for all in the labor force, or 24.0 percent. Among disabled workers, however, nearly 32 percent do not have a high school diploma.

**Figure 8 – Educational Attainment for Disabled Workers and Veterans (25 and Over)**

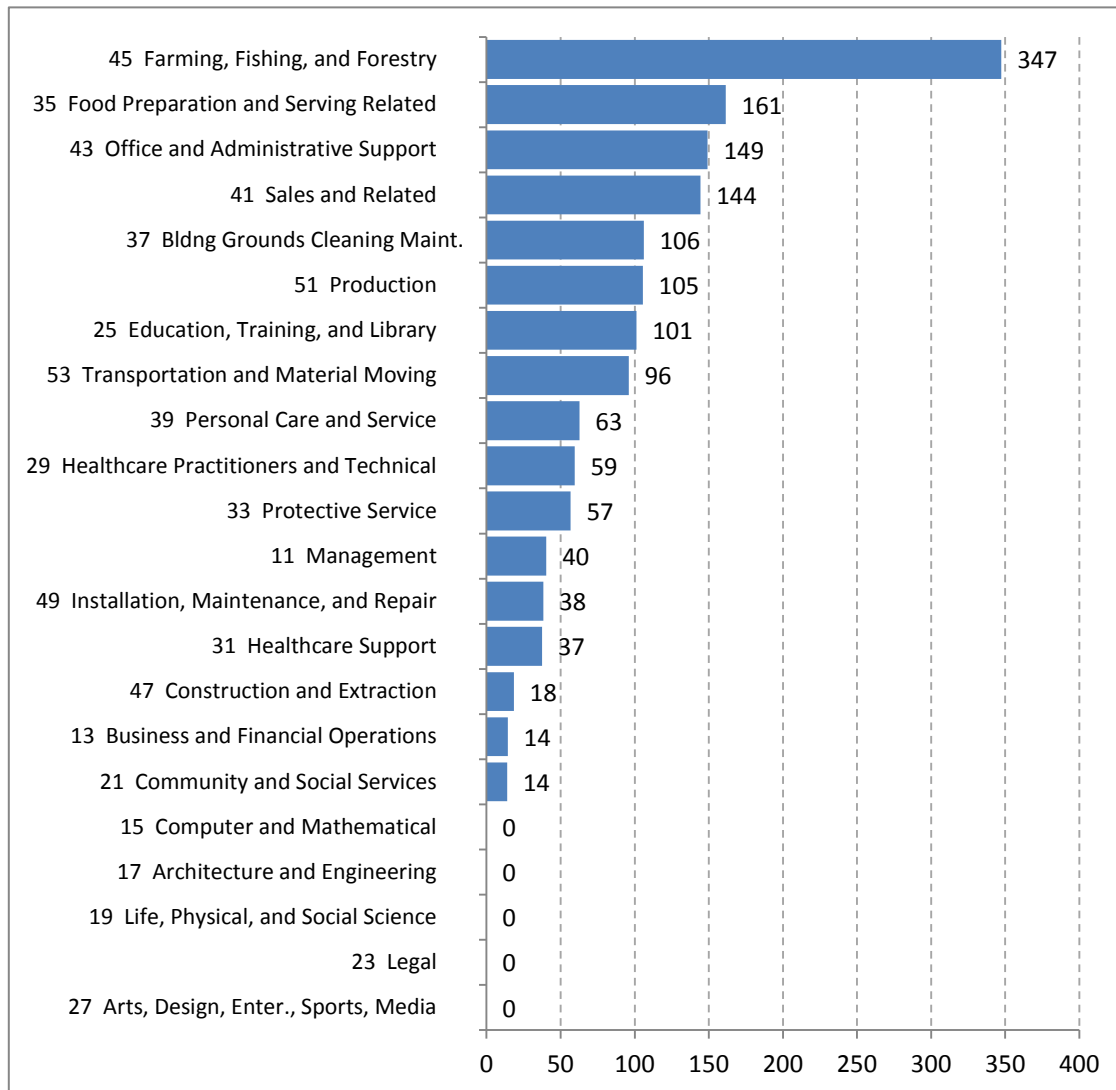


## UNDERUTILIZED WORKFORCE

This part of the report focuses on part time and unemployed workers in terms of how their educational attainment and prior occupational background matches projected annual job openings.

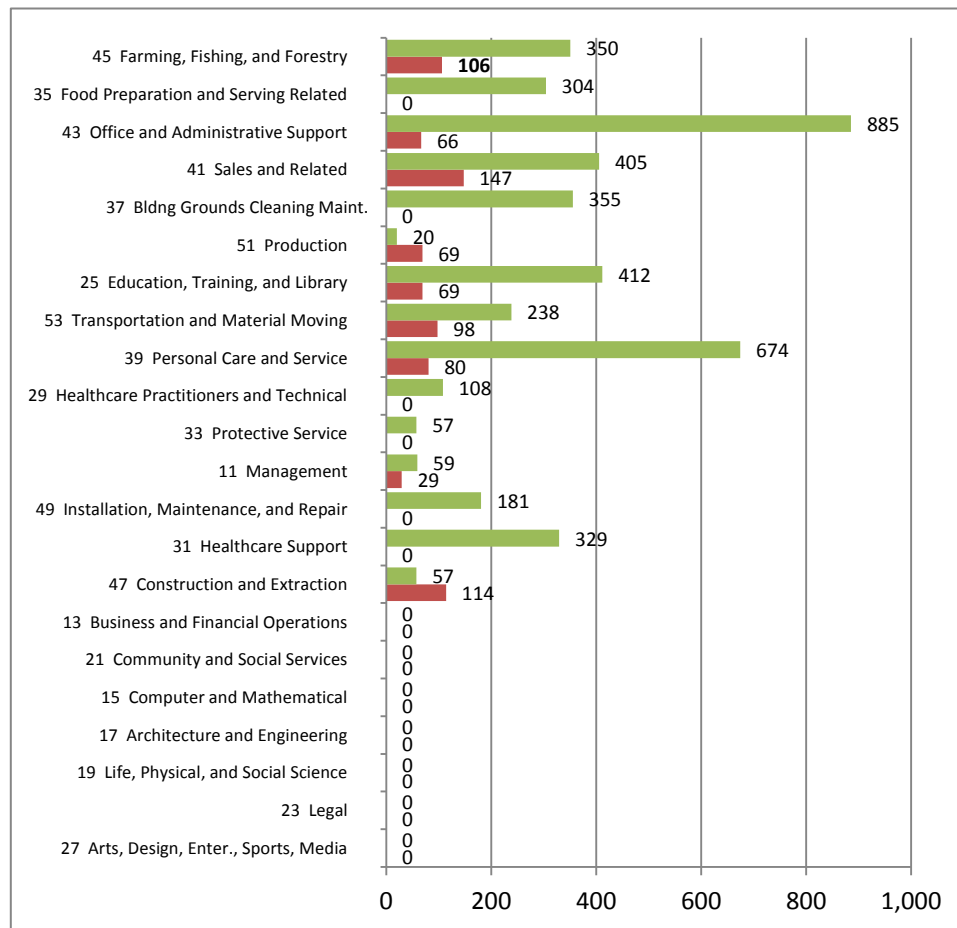
This part of the analysis addresses the underutilized segments of the Madera County workforce. Figure 9 reproduces the major categories of job openings listed earlier in Table 8. The largest numbers of openings are in lower skilled occupations such as farming, food service, sales, and administrative office occupations. However, a number of openings are also projected in education, production, and installation and maintenance mechanics, which followed closely by management and healthcare positions. Comparing these categories to the availability of currently unemployed and part time workers in Figure 10, there are significant gaps in many of the more skilled positions, particularly health care practitioners, education, and installation and maintenance mechanics.

**Figure 9 – Annual Openings by Major Occupational Group**



Source: ADE, Inc., based on US Census ACS PUMS 2012-2014 from iPUMS

**Figure 10 – Annual Openings by Major Occupational Group**

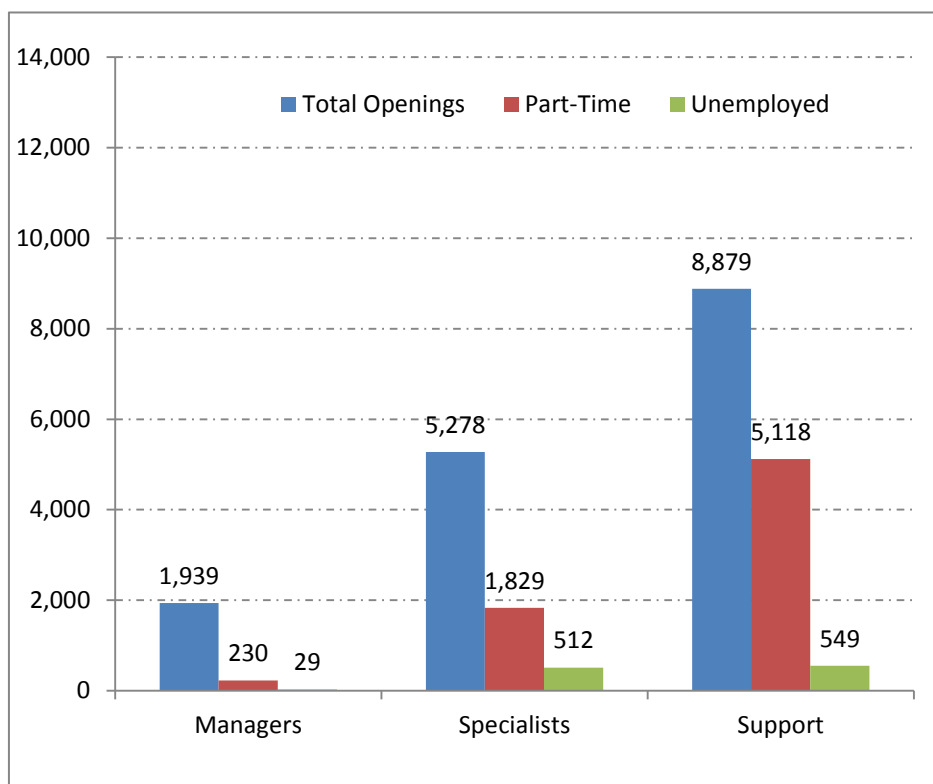


Source: ADE, Inc., based on US Census ACS PUMS 2012-2014 from iPUMS

However, at a more general level of occupational experience, the existing labor force matches better to the projected openings, suggesting that retraining and skills transfer may help improve the availability of workers for positions in demand by employers. Figure 11 groups job openings by three main categories of occupational level: managers and supervisory personnel, workers with specialty or higher level skills, and support positions that are more entry level or have a lower required skill set.<sup>3</sup> At this level, the unemployed and part time workforce combined exceeds the available openings (shown in green) for each category. For example, there are 480 annual openings for occupations requiring special skills and expertise, versus 349 persons formerly in similar occupations who are now unemployed and 1,142 persons working part-time in the same specialist occupations.

<sup>3</sup>In Figure 11, we match unemployed and part-time workers by their respective occupation with opening positions whose 6-digit occupational code corresponds to the unemployed and part-time workers. Moreover, we further narrow the available labor force by matching persons whose educational attainment levels are commensurate with minimum educational level required for each opening position.

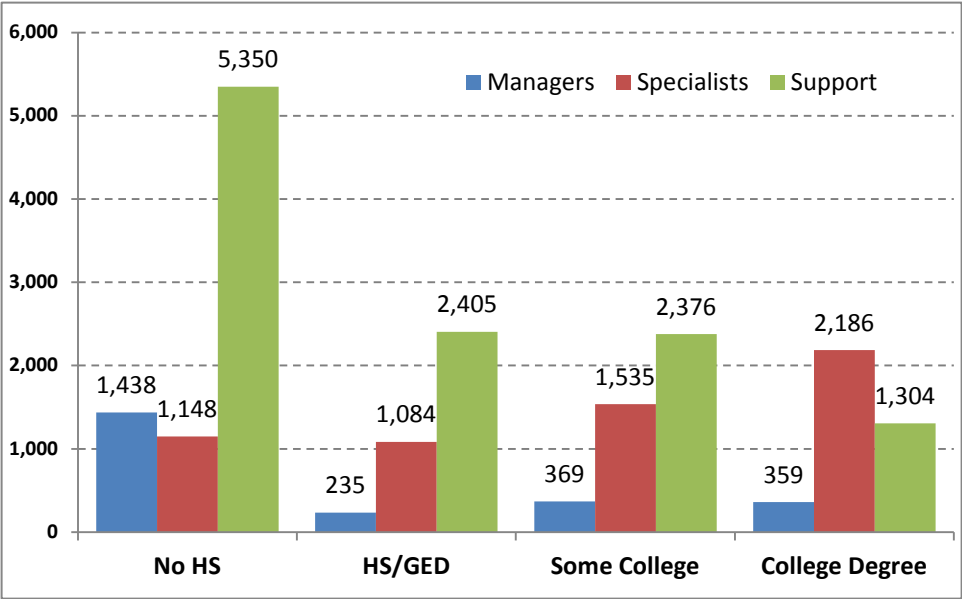
**Figure 11 – Part Time and Unemployment Workers By Occupational Class Compared To Total Openings: Only Underutilized Workers Whose Education Matches Job Qualifications**



Source: ADE, Inc., based on US Census ACS PUMS 2012-2014 from iPUMS

Figure 12 shows the educational level for the unemployed and part time workforce, categorized by occupational background. This figure tracks all unemployed and part-time workers, not just those who minimally qualify for the annually opening positions. Of the 7,936 persons in the labor force with no high school diploma, 5,350 (67 percent) are in support-related occupations, 1,148 (14.4 percent) are specialists, and 1,438 (18.1 percent) are in managerial occupations. Of the 3,850 persons with a college degree, 359 are (9.3 percent) are in management, 2,186 (56.7 percent) in specialty occupations, and 1,300 (33.9 percent) in support positions. There are relatively few managers who have not achieved a high school diploma and the greatest number have a high school diploma (771), followed closely by those with some college education (617) and with a college degree (604). Among mid-level workers with some special skills, most have either a high school diploma (3,897) or a college degree (4,480). Almost 2,000 workers who most recently worked in support positions also have a college degree.

**Figure 12 – Part Time and Unemployed Workers by Educational Attainment and Occupational Class (All Underutilized Workers)**



Source: ADE, Inc., based on US Census ACS PUMS 2012-2014 from iPUMS

**Table 9 — Summary of Overall Labor Force Trends for Select Demographic Categories: Madera County (Persons 16 and Over)**

	Labor Force Trends By Race and Ethnicity (Persons 16 and over)	Labor Force Trends By Gender (Persons 16 and over)	Labor Force Trends By Citizenship Status (Persons 16 and over)	Labor Force Trends By Educational Attainment (Persons 25 and over)	Labor Force Trends By Veteran Status (Persons 16 and over)	Labor Force Trends By Disability Status (Persons 16 and over)
	<b>White</b>	<b>Women</b>	<b>Not Citizen</b>	<b>Persons with College Degree</b>	<b>Veterans</b>	<b>Persons with at least One Disability</b>
Labor Force	21,544	26,481	14,139	11,659	2,746	4,387
Unemployed	2,287	2,546	674	699	353	625
Unemployment Rate	10.62%	9.62%	4.76%	6.00%	12.84%	14.25%
	<b>Latino</b>	<b>Men</b>	<b>Citizen</b>	<b>Persons with No College Degree</b>	<b>Not Veterans</b>	<b>Persons with No Reported Disability</b>
Labor Force	33,334	31,990	44,331	36,866	55,724	54,083
Unemployed	2,823	2,721	4,593	2,656	4,914	4,642
Unemployment Rate	8.47%	8.50%	10.36%	7.21%	8.82%	8.58%
	<b>Other</b>					
Labor Force	3,592					
Unemployed	157					
Unemployment Rate	4.36%					
	<b>Total</b>	<b>Total</b>	<b>Total</b>	<b>Total</b>	<b>Total</b>	<b>Total</b>
Labor Force	58,471	58,471	58,471	48,525	58,471	58,471
Unemployed	5,267	5,267	5,267	3,356	5,267	5,267
Unemployment Rate	9.01%	9.01%	9.01%	6.92%	9.01%	9.01%

**Table 10 — Population by Age, Race\Ethnicity, and Educational Attainment: Madera County**

	0-15	16-19	20-24	25-29	30-34	35-54	55-64	65+	Total
<b>Total</b>	<b>37,854</b>	<b>9,381</b>	<b>11,139</b>	<b>10,913</b>	<b>10,212</b>	<b>37,942</b>	<b>16,664</b>	<b>18,835</b>	<b>152,940</b>
<b>White</b>	<b>8,083</b>	<b>2,284</b>	<b>2,551</b>	<b>2,829</b>	<b>2,747</b>	<b>14,084</b>	<b>9,644</b>	<b>13,045</b>	<b>55,268</b>
Did not earn HSD\GED	6,673	1,312	154	216	268	866	716	<b>1,721</b>	11,926
HSD\GED	0	549	750	465	1,059	3,596	3,111	<b>3,824</b>	13,354
Some college -- not attending	0	90	730	1,572	917	5,007	2,862	<b>3,993</b>	15,170
Some college -- attending	0	333	677	119	19	74	23	<b>50</b>	1,294
AA	0	0	147	283	231	1,768	1,168	<b>1,105</b>	4,703
BA+	0	0	94	175	254	2,772	1,764	<b>2,353</b>	7,411
NA	1,410	0	0	0	0	0	0	<b>0</b>	1,410
<b>Latino</b>	<b>27,413</b>	<b>6,221</b>	<b>7,968</b>	<b>6,874</b>	<b>6,490</b>	<b>19,889</b>	<b>5,665</b>	<b>4,472</b>	<b>84,992</b>
Did not earn HSD\GED	21,972	4,471	2,511	2,915	3,043	9,739	2,890	<b>3,064</b>	50,606
HSD\GED	0	756	2,206	1,425	1,527	4,970	1,016	<b>630</b>	12,529
Some college -- not attending	0	208	1,314	1,194	1,106	3,187	835	<b>521</b>	8,365
Some college -- attending	0	786	1,297	207	41	157	33	<b>0</b>	2,522
AA	0	0	340	547	494	655	457	<b>102</b>	2,595
BA+	0	0	300	587	279	1,180	433	<b>156</b>	2,934
NA	5,441	0	0	0	0	0	0	<b>0</b>	5,441
<b>Other</b>	<b>2,358</b>	<b>876</b>	<b>620</b>	<b>1,209</b>	<b>975</b>	<b>3,970</b>	<b>1,355</b>	<b>1,318</b>	<b>12,680</b>
Did not earn HSD\GED	1,904	264	86	139	78	980	105	<b>118</b>	3,676
HSD\GED	0	524	176	552	374	1,430	248	<b>381</b>	3,684
Some college -- not attending	0	0	144	187	437	541	205	<b>342</b>	1,857
Some college -- attending	0	88	104	60	0	121	64	<b>0</b>	437
AA	0	0	109	65	19	197	165	<b>193</b>	748
BA+	0	0	0	207	67	701	568	<b>284</b>	1,826
NA	454	0	0	0	0	0	0	<b>0</b>	454

**Table 11 — Labor Force by Age, Race\Ethnicity, and Educational Attainment (Persons 16 and Over): Madera County**

<b>Age Groups</b>	<b>16-19</b>	<b>20-24</b>	<b>25-29</b>	<b>30-34</b>	<b>35-54</b>	<b>55-64</b>	<b>65+</b>	<b>Labor Force (25+)</b>	<b>Total Labor Force</b>
<b>Total</b>	<b>2,749</b>	<b>7,196</b>	<b>6,728</b>	<b>5,769</b>	<b>25,543</b>	<b>8,102</b>	<b>2,383</b>	<b>48,525</b>	<b>58,471</b>
<b>White</b>	<b>690</b>	<b>1,813</b>	<b>1,931</b>	<b>1,413</b>	<b>9,203</b>	<b>4,674</b>	<b>1,821</b>	<b>19,042</b>	<b>21,544</b>
Did not earn HSD\GED	NA	NA	21	161	245	130	54	<b>611</b>	NA
HSD\GED	NA	NA	319	535	1,968	1,680	399	<b>4,902</b>	NA
Some college -- not attending	NA	NA	1,085	314	3,402	1,479	449	<b>6,729</b>	NA
Some college -- attending	NA	NA	119	19	38	23	7	<b>206</b>	NA
AA	NA	NA	246	129	1,120	488	367	<b>2,349</b>	NA
BA+	NA	NA	141	254	2,431	873	546	<b>4,245</b>	NA
<b>Latino</b>	<b>1,576</b>	<b>5,131</b>	<b>4,508</b>	<b>4,000</b>	<b>14,920</b>	<b>2,734</b>	<b>466</b>	<b>26,627</b>	<b>33,334</b>
Did not earn HSD\GED	NA	NA	1,857	2,217	7,356	1,369	151	<b>12,950</b>	NA
HSD\GED	NA	NA	801	786	3,448	353	49	<b>5,437</b>	NA
Some college -- not attending	NA	NA	906	527	2,492	446	179	<b>4,549</b>	NA
Some college -- attending	NA	NA	0	41	157	0	0	<b>198</b>	NA
AA	NA	NA	504	251	412	133	54	<b>1,354</b>	NA
BA+	NA	NA	441	178	1,055	433	33	<b>2,140</b>	NA
<b>Other</b>	<b>483</b>	<b>253</b>	<b>289</b>	<b>357</b>	<b>1,420</b>	<b>695</b>	<b>96</b>	<b>2,856</b>	<b>3,592</b>
Did not earn HSD\GED	NA	NA	0	0	141	0	25	<b>166</b>	NA
HSD\GED	NA	NA	19	0	212	68	17	<b>316</b>	NA
Some college -- not attending	NA	NA	26	271	222	131	7	<b>657</b>	NA
Some college -- attending	NA	NA	25	0	121	0	0	<b>146</b>	NA
AA	NA	NA	13	19	58	107	0	<b>197</b>	NA
BA+	NA	NA	207	67	666	389	46	<b>1,375</b>	NA

Source: ADE, Inc., based on US Census ACS PUMS 2012 through 2014 from iPUMS



**Table 12 — Part-Time Employed Labor Force by Age, Race\Ethnicity, and Educational Attainment (Persons 16 and Over):  
Madera County**

Age Groups	16-19	20-24	25-29	30-34	35-54	55-64	65+	Labor Force (25+)	Total Labor Force
<b>Total</b>	<b>1,922</b>	<b>3,964</b>	<b>3,043</b>	<b>2,418</b>	<b>7,778</b>	<b>2,296</b>	<b>1,238</b>	<b>17,001</b>	<b>22,887</b>
<b>White</b>	<b>454</b>	<b>905</b>	<b>655</b>	<b>336</b>	<b>1,652</b>	<b>1,329</b>	<b>1,002</b>	<b>4,974</b>	<b>6,333</b>
Did not earn HSD\GED	NA	NA	21	0	156	48	26	<b>251</b>	NA
HSD\GED	NA	NA	34	207	517	705	255	<b>1,717</b>	NA
Some college -- not attending	NA	NA	244	29	419	243	227	<b>1,161</b>	NA
Some college -- attending	NA	NA	71	0	19	0	0	<b>90</b>	NA
AA	NA	NA	194	44	246	215	201	<b>900</b>	NA
BA+	NA	NA	92	55	296	119	294	<b>856</b>	NA
<b>Latino</b>	<b>1,076</b>	<b>2,959</b>	<b>2,387</b>	<b>1,998</b>	<b>5,905</b>	<b>728</b>	<b>211</b>	<b>11,230</b>	<b>15,265</b>
Did not earn HSD\GED	NA	NA	1,482	1,355	3,933	371	30	<b>7,171</b>	NA
HSD\GED	NA	NA	218	210	724	175	35	<b>1,362</b>	NA
Some college -- not attending	NA	NA	414	230	785	121	77	<b>1,626</b>	NA
Some college -- attending	NA	NA	0	15	118	0	0	<b>133</b>	NA
AA	NA	NA	82	107	224	0	54	<b>467</b>	NA
BA+	NA	NA	192	81	120	62	16	<b>472</b>	NA
<b>Other</b>	<b>392</b>	<b>100</b>	<b>0</b>	<b>84</b>	<b>221</b>	<b>239</b>	<b>25</b>	<b>797</b>	<b>1,289</b>
Did not earn HSD\GED	NA	NA	0	0	22	0	0	<b>22</b>	NA
HSD\GED	NA	NA	19	0	33	43	17	<b>113</b>	NA
Some college -- not attending	NA	NA	0	0	48	105	7	<b>160</b>	NA
Some college -- attending	NA	NA	25	0	0	0	0	<b>25</b>	NA
AA	NA	NA	0	17	0	48	0	<b>65</b>	NA
BA+	NA	NA	184	67	118	43	0	<b>413</b>	NA

Source: ADE, Inc., based on US Census ACS PUMS 2012 through 2014 from IPUMS

**Table 13— Unemployed Labor Force by Age, Race\Ethnicity, and Educational Attainment (Persons 16 and Over): Madera County**

<b>Age Groups</b>	<b>16-19</b>	<b>20-24</b>	<b>25-29</b>	<b>30-34</b>	<b>35-54</b>	<b>55-64</b>	<b>65+</b>	<b>Labor Force (25+)</b>	<b>Total Labor Force</b>
<b>Total</b>	<b>564</b>	<b>1,347</b>	<b>841</b>	<b>288</b>	<b>1,374</b>	<b>693</b>	<b>159</b>	<b>3,356</b>	<b>5,267</b>
<b>White</b>	<b>236</b>	<b>619</b>	<b>230</b>	<b>73</b>	<b>564</b>	<b>470</b>	<b>95</b>	<b>1,432</b>	<b>2,287</b>
Did not earn HSD\GED	NA	NA	0	0	0	22	0	<b>22</b>	NA
HSD\GED	NA	NA	0	73	99	80	0	<b>252</b>	NA
Some college -- not attending	NA	NA	206	0	199	328	50	<b>783</b>	NA
Some college -- attending	NA	NA	0	0	0	0	0	<b>0</b>	NA
AA	NA	NA	0	0	106	40	45	<b>191</b>	NA
BA+	NA	NA	24	0	160	0	0	<b>184</b>	NA
<b>Latino</b>	<b>317</b>	<b>684</b>	<b>611</b>	<b>215</b>	<b>730</b>	<b>223</b>	<b>44</b>	<b>1,822</b>	<b>2,823</b>
Did not earn HSD\GED	NA	NA	57	108	428	41	14	<b>647</b>	NA
HSD\GED	NA	NA	172	66	141	0	0	<b>379</b>	NA
Some college -- not attending	NA	NA	105	41	131	155	29	<b>462</b>	NA
Some college -- attending	NA	NA	0	0	30	0	0	<b>30</b>	NA
AA	NA	NA	100	0	0	0	0	<b>100</b>	NA
BA+	NA	NA	177	0	0	27	0	<b>204</b>	NA
<b>Other</b>	<b>11</b>	<b>44</b>	<b>0</b>	<b>0</b>	<b>81</b>	<b>0</b>	<b>20</b>	<b>101</b>	<b>157</b>
Did not earn HSD\GED	NA	NA	0	0	0	0	0	<b>0</b>	NA
HSD\GED	NA	NA	0	0	0	0	0	<b>0</b>	NA
Some college -- not attending	NA	NA	0	0	0	0	0	<b>0</b>	NA
Some college -- attending	NA	NA	0	0	81	0	0	<b>81</b>	NA
AA	NA	NA	0	0	0	0	0	<b>0</b>	NA
BA+	NA	NA	0	0	0	0	20	<b>20</b>	NA

**Table 14 — Unemployed Labor Force by Age, Race\Ethnicity, and Educational Attainment (Persons 16 and Over): Madera County**

<b>Age Groups</b>	<b>16-19</b>	<b>20-24</b>	<b>25-29</b>	<b>30-34</b>	<b>35-54</b>	<b>55-64</b>	<b>65+</b>	<b>Labor Force (25+)</b>	<b>Total Labor Force</b>
<b>Total</b>	<b>20.5%</b>	<b>18.7%</b>	<b>12.5%</b>	<b>5.0%</b>	<b>5.4%</b>	<b>8.6%</b>	<b>6.7%</b>	<b>6.9%</b>	<b>9.0%</b>
<b>White</b>	<b>34.2%</b>	<b>34.2%</b>	<b>11.9%</b>	<b>5.2%</b>	<b>6.1%</b>	<b>10.1%</b>	<b>5.2%</b>	<b>7.5%</b>	<b>10.6%</b>
Did not earn HSD\GED	NA	NA	0.0%	0.0%	0.0%	17.1%	0.0%	<b>3.7%</b>	NA
HSD\GED	NA	NA	0.0%	13.6%	5.0%	4.8%	0.0%	<b>5.1%</b>	NA
Some college -- not attending	NA	NA	19.0%	0.0%	5.9%	22.2%	11.1%	<b>11.6%</b>	NA
Some college -- attending	NA	NA	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	NA
AA	NA	NA	0.0%	0.0%	9.4%	8.2%	12.3%	<b>8.1%</b>	NA
BA+	NA	NA	17.2%	0.0%	6.6%	0.0%	0.0%	<b>4.3%</b>	NA
<b>Latino</b>	<b>20.1%</b>	<b>13.3%</b>	<b>13.6%</b>	<b>5.4%</b>	<b>4.9%</b>	<b>8.1%</b>	<b>9.4%</b>	<b>6.8%</b>	<b>8.5%</b>
Did not earn HSD\GED	NA	NA	3.1%	4.9%	5.8%	3.0%	9.5%	<b>5.0%</b>	NA
HSD\GED	NA	NA	21.5%	8.4%	4.1%	0.0%	0.0%	<b>7.0%</b>	NA
Some college -- not attending	NA	NA	11.6%	7.8%	5.3%	34.7%	16.4%	<b>10.1%</b>	NA
Some college -- attending	NA	NA	NA	0.0%	19.1%	NA	NA	<b>15.2%</b>	NA
AA	NA	NA	19.9%	0.0%	0.0%	0.0%	0.0%	<b>7.4%</b>	NA
BA+	NA	NA	40.2%	0.0%	0.0%	6.3%	0.0%	<b>9.5%</b>	NA
<b>Other</b>	<b>2.3%</b>	<b>17.4%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>5.7%</b>	<b>0.0%</b>	<b>21.3%</b>	<b>3.5%</b>	<b>4.4%</b>
Did not earn HSD\GED	NA	NA	NA	NA	0.0%	NA	0.0%	<b>0.0%</b>	NA
HSD\GED	NA	NA	0.0%	NA	0.0%	0.0%	0.0%	<b>0.0%</b>	NA
Some college -- not attending	NA	NA	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	NA
Some college -- attending	NA	NA	0.0%	NA	66.8%	NA	NA	<b>55.5%</b>	NA
AA	NA	NA	0.0%	0.0%	0.0%	0.0%	NA	<b>0.0%</b>	NA
BA+	NA	NA	0.0%	0.0%	0.0%	0.0%	44.5%	<b>1.5%</b>	NA

Source: ADE, Inc., based on US Census ACS PUMS 2012 through 2014 from iPUMS

**Table 15 — Labor Force by Age, Citizenship Status, and Educational Attainment (Persons 16 and over): Madera County**

<b>Age Groups</b>	<b>16-19</b>	<b>20-24</b>	<b>25-29</b>	<b>30-34</b>	<b>35-54</b>	<b>55-64</b>	<b>65+</b>	<b>Labor Force (25+)</b>	<b>Total Labor Force</b>
<b>Total</b>	<b>2,749</b>	<b>7,196</b>	<b>6,728</b>	<b>5,769</b>	<b>25,543</b>	<b>8,102</b>	<b>2,383</b>	<b>48,525</b>	<b>58,471</b>
<b>Citizen</b>	<b>2,238</b>	<b>5,232</b>	<b>4,772</b>	<b>4,065</b>	<b>18,527</b>	<b>7,235</b>	<b>2,261</b>	<b>36,861</b>	<b>44,331</b>
Did not earn HSD\GED	NA	NA	118	986	2,230	760	134	<b>4,228</b>	NA
HSD\GED	NA	NA	1,139	1,102	4,622	2,016	466	<b>9,344</b>	NA
Some college -- not attending	NA	NA	1,860	1,045	5,942	2,033	635	<b>11,516</b>	NA
Some college -- attending	NA	NA	144	34	316	23	7	<b>524</b>	NA
AA	NA	NA	722	399	1,530	707	420	<b>3,778</b>	NA
BA+	NA	NA	789	499	3,888	1,696	599	<b>7,471</b>	NA
<b>Not Citizen</b>	<b>511</b>	<b>1,964</b>	<b>1,956</b>	<b>1,704</b>	<b>7,016</b>	<b>867</b>	<b>122</b>	<b>11,664</b>	<b>14,139</b>
Did not earn HSD\GED	NA	NA	1,759	1,392	5,512	739	96	<b>9,499</b>	NA
HSD\GED	NA	NA	0	220	1,006	84	0	<b>1,310</b>	NA
Some college -- not attending	NA	NA	156	66	174	23	0	<b>419</b>	NA
Some college -- attending	NA	NA	0	25	0	0	0	<b>25</b>	NA
AA	NA	NA	40	0	60	21	0	<b>122</b>	NA
BA+	NA	NA	0	0	263	0	25	<b>289</b>	NA

Source: ADE, Inc., based on US Census ACS PUMS 2012 through 2014 from iPUMS

**Table 16 — Unemployed Labor Force by Age, Citizenship Status, and Educational Attainment (Persons 16 and over):  
Madera County**

Age Groups	16-19	20-24	25-29	30-34	35-54	55-64	65+	Labor Force (25+)	Total Labor Force
<b>Total</b>	<b>564</b>	<b>1,347</b>	<b>841</b>	<b>288</b>	<b>1,374</b>	<b>693</b>	<b>159</b>	<b>3,356</b>	<b>5,267</b>
<b>Citizen</b>	<b>564</b>	<b>1,175</b>	<b>744</b>	<b>132</b>	<b>1,127</b>	<b>693</b>	<b>159</b>	<b>2,854</b>	<b>4,593</b>
Did not earn HSD\GED	NA	NA	57	18	252	63	14	<b>404</b>	NA
HSD\GED	NA	NA	172	73	168	80	0	<b>493</b>	NA
Some college -- not attending	NA	NA	254	41	330	483	79	<b>1,187</b>	NA
Some college -- attending	NA	NA	0	0	111	0	0	<b>111</b>	NA
AA	NA	NA	60	0	106	40	45	<b>250</b>	NA
BA+	NA	NA	201	0	160	27	20	<b>409</b>	NA
<b>Not Citizen</b>	<b>0</b>	<b>172</b>	<b>98</b>	<b>156</b>	<b>248</b>	<b>0</b>	<b>0</b>	<b>501</b>	<b>674</b>
Did not earn HSD\GED	NA	NA	0	90	176	0	0	<b>266</b>	NA
HSD\GED	NA	NA	0	66	72	0	0	<b>138</b>	NA
Some college -- not attending	NA	NA	57	0	0	0	0	<b>57</b>	NA
Some college -- attending	NA	NA	0	0	0	0	0	<b>0</b>	NA
AA	NA	NA	40	0	0	0	0	<b>40</b>	NA
BA+	NA	NA	0	0	0	0	0	<b>0</b>	NA

Source: ADE, Inc., based on US Census ACS PUMS 2012 through 2014 from iPUMS

**Table 17 — Labor Force by Citizenship Status, Age, and Educational Attainment (Persons 16 and Over): Unemployment Rates: Madera County**

<b>Age Groups</b>	<b>16-19</b>	<b>20-24</b>	<b>25-29</b>	<b>30-34</b>	<b>35-54</b>	<b>55-64</b>	<b>65+</b>	<b>Labor Force (25+)</b>	<b>Total Labor Force</b>
<b>Total</b>	<b>20.5%</b>	<b>18.7%</b>	<b>12.5%</b>	<b>5.0%</b>	<b>5.4%</b>	<b>8.6%</b>	<b>6.7%</b>	<b>6.9%</b>	<b>9.0%</b>
<b>Citizen</b>	<b>25.2%</b>	<b>22.5%</b>	<b>15.6%</b>	<b>3.2%</b>	<b>6.1%</b>	<b>9.6%</b>	<b>7.0%</b>	<b>7.7%</b>	<b>10.4%</b>
Did not earn HSD\GED	NA	NA	47.9%	1.8%	11.3%	8.3%	10.7%	<b>9.6%</b>	NA
HSD\GED	NA	NA	15.1%	6.6%	3.6%	4.0%	0.0%	<b>5.3%</b>	NA
Some college -- not attending	NA	NA	13.6%	3.9%	5.6%	23.7%	12.5%	<b>10.3%</b>	NA
Some college -- attending	NA	NA	0.0%	0.0%	35.1%	0.0%	0.0%	<b>21.2%</b>	NA
AA	NA	NA	8.3%	0.0%	6.9%	5.7%	10.7%	<b>6.6%</b>	NA
BA+	NA	NA	25.5%	0.0%	4.1%	1.6%	3.4%	<b>5.5%</b>	NA
<b>Not Citizen</b>	<b>0.0%</b>	<b>8.8%</b>	<b>5.0%</b>	<b>9.2%</b>	<b>3.5%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>4.3%</b>	<b>4.8%</b>
Did not earn HSD\GED	NA	NA	0.0%	6.5%	3.2%	0.0%	0.0%	<b>2.8%</b>	NA
HSD\GED	NA	NA	NA	30.0%	7.2%	0.0%	NA	<b>10.5%</b>	NA
Some college -- not attending	NA	NA	36.7%	0.0%	0.0%	0.0%	NA	<b>13.7%</b>	NA
Some college -- attending	NA	NA	NA	0.0%	NA	NA	NA	<b>0.0%</b>	NA
AA	NA	NA	100.0%	NA	0.0%	0.0%	NA	<b>33.2%</b>	NA
BA+	NA	NA	NA	NA	0.0%	NA	0.0%	<b>0.0%</b>	NA

Source: ADE, Inc., based on US Census ACS PUMS 2012 through 2014 from iPUMS

**Table 18 — Labor Force by Age, Disability Status, and Educational Attainment (Persons 16 and over): Madera County**

<b>Age Groups</b>	<b>16-19</b>	<b>20-24</b>	<b>25-29</b>	<b>30-34</b>	<b>35-54</b>	<b>55-64</b>	<b>65+</b>	<b>Labor Force (25+)</b>	<b>Total Labor Force</b>
<b>Total</b>	<b>2,749</b>	<b>7,196</b>	<b>6,728</b>	<b>5,769</b>	<b>25,543</b>	<b>8,102</b>	<b>2,383</b>	<b>48,525</b>	<b>58,471</b>
<b>No Reported Disability</b>	<b>2,666</b>	<b>7,112</b>	<b>6,328</b>	<b>5,406</b>	<b>23,596</b>	<b>7,174</b>	<b>1,803</b>	<b>44,306</b>	<b>54,083</b>
Did not earn HSD\GED	NA	NA	1,877	2,084	6,974	1,266	179	<b>12,380</b>	NA
HSD\GED	NA	NA	958	1,278	5,193	1,939	412	<b>9,780</b>	NA
Some college -- not attending	NA	NA	2,017	1,112	5,572	1,905	484	<b>11,090</b>	NA
Some college -- attending	NA	NA	109	59	316	23	7	<b>515</b>	NA
AA	NA	NA	762	399	1,505	708	210	<b>3,584</b>	NA
BA+	NA	NA	604	473	4,035	1,333	511	<b>6,957</b>	NA
<b>At Least One Disability</b>	<b>84</b>	<b>85</b>	<b>400</b>	<b>364</b>	<b>1,947</b>	<b>928</b>	<b>580</b>	<b>4,219</b>	<b>4,387</b>
Did not earn HSD\GED	NA	NA	0	294	768	233	51	<b>1,346</b>	NA
HSD\GED	NA	NA	181	44	434	162	53	<b>874</b>	NA
Some college -- not attending	NA	NA	0	0	543	151	151	<b>845</b>	NA
Some college -- attending	NA	NA	34	0	0	0	0	<b>34</b>	NA
AA	NA	NA	0	0	85	20	211	<b>316</b>	NA
BA+	NA	NA	184	26	116	363	114	<b>803</b>	NA

Source: ADE, Inc., based on US Census ACS PUMS 2012 through 2014 from iPUMS

**Table 19 — Unemployed Labor Force by Age, Disability Status, and Educational Attainment (Persons 16 and over):  
Madera County**

<b>Age Groups</b>	<b>16-19</b>	<b>20-24</b>	<b>25-29</b>	<b>30-34</b>	<b>35-54</b>	<b>55-64</b>	<b>65+</b>	<b>Labor Force (25+)</b>	<b>Total Labor Force</b>
<b>Total</b>	<b>564</b>	<b>1,347</b>	<b>841</b>	<b>288</b>	<b>1,374</b>	<b>693</b>	<b>159</b>	<b>3,356</b>	<b>5,267</b>
<b>No Reported Disability</b>	<b>537</b>	<b>1,347</b>	<b>736</b>	<b>288</b>	<b>1,160</b>	<b>524</b>	<b>50</b>	<b>2,758</b>	<b>4,642</b>
Did not earn HSD\GED	NA	NA	57	108	336	22	14	<b>537</b>	NA
HSD\GED	NA	NA	67	139	233	27	0	<b>466</b>	NA
Some college -- not attending	NA	NA	311	41	264	435	36	<b>1,087</b>	NA
Some college -- attending	NA	NA	0	0	111	0	0	<b>111</b>	NA
AA	NA	NA	100	0	56	40	0	<b>196</b>	NA
BA+	NA	NA	201	0	160	0	0	<b>361</b>	NA
<b>At Least One Disability</b>	<b>27</b>	<b>0</b>	<b>106</b>	<b>0</b>	<b>215</b>	<b>169</b>	<b>109</b>	<b>598</b>	<b>625</b>
Did not earn HSD\GED	NA	NA	0	0	92	41	0	<b>132</b>	NA
HSD\GED	NA	NA	106	0	7	53	0	<b>165</b>	NA
Some college -- not attending	NA	NA	0	0	66	48	43	<b>158</b>	NA
Some college -- attending	NA	NA	0	0	0	0	0	<b>0</b>	NA
AA	NA	NA	0	0	50	0	45	<b>95</b>	NA
BA+	NA	NA	0	0	0	27	20	<b>48</b>	NA

Source: ADE, Inc., based on US Census ACS PUMS 2012 through 2014 from iPUMS



**Table 20 — Labor Force by Disability Status, Age, and Educational Attainment (Persons 16 and Over): Unemployment Rates: Madera County**

Age Groups	16-19	20-24	25-29	30-34	35-54	55-64	65+	Labor Force (25+)	Total Labor Force
<b>Total</b>	<b>20.5%</b>	<b>18.7%</b>	<b>12.5%</b>	<b>5.0%</b>	<b>5.4%</b>	<b>8.6%</b>	<b>6.7%</b>	<b>6.9%</b>	<b>9.0%</b>
<b>No Reported Disability</b>	<b>20.2%</b>	<b>18.9%</b>	<b>11.6%</b>	<b>5.3%</b>	<b>4.9%</b>	<b>7.3%</b>	<b>2.8%</b>	<b>6.2%</b>	<b>8.6%</b>
Did not earn HSD\GED	NA	NA	3.0%	5.2%	4.8%	1.8%	8.0%	<b>4.3%</b>	NA
HSD\GED	NA	NA	7.0%	10.9%	4.5%	1.4%	0.0%	<b>4.8%</b>	NA
Some college -- not attending	NA	NA	15.4%	3.7%	4.7%	22.8%	7.4%	<b>9.8%</b>	NA
Some college -- attending	NA	NA	0.0%	0.0%	35.1%	0.0%	0.0%	<b>21.5%</b>	NA
AA	NA	NA	13.1%	0.0%	3.7%	5.6%	0.0%	<b>5.5%</b>	NA
BA+	NA	NA	33.3%	0.0%	4.0%	0.0%	0.0%	<b>5.2%</b>	NA
<b>At Least One Disability</b>	<b>32.3%</b>	<b>0.0%</b>	<b>26.4%</b>	<b>0.0%</b>	<b>11.0%</b>	<b>18.2%</b>	<b>18.7%</b>	<b>14.2%</b>	<b>14.2%</b>
Did not earn HSD\GED	NA	NA	NA	0.0%	11.9%	17.4%	0.0%	<b>9.8%</b>	NA
HSD\GED	NA	NA	58.3%	0.0%	1.5%	32.8%	0.0%	<b>18.9%</b>	NA
Some college -- not attending	NA	NA	NA	NA	12.2%	31.9%	28.6%	<b>18.7%</b>	NA
Some college -- attending	NA	NA	0.0%	NA	NA	NA	NA	<b>0.0%</b>	NA
AA	NA	NA	NA	NA	58.8%	0.0%	21.4%	<b>30.1%</b>	NA
BA+	NA	NA	0.0%	0.0%	0.0%	7.5%	17.9%	<b>5.9%</b>	NA

Source: ADE, Inc., based on US Census ACS PUMS 2012 through 2014 from iPUMS

**Table 21 — Labor Force by Age, Veteran Status, and Educational Attainment (Persons 16 and over): Madera County**

<b>Age Groups</b>	<b>16-19</b>	<b>20-24</b>	<b>25-29</b>	<b>30-34</b>	<b>35-54</b>	<b>55-64</b>	<b>65+</b>	<b>Labor Force (25+)</b>	<b>Total Labor Force</b>
<b>Total</b>	<b>2,749</b>	<b>7,196</b>	<b>6,728</b>	<b>5,769</b>	<b>25,543</b>	<b>8,102</b>	<b>2,383</b>	<b>48,525</b>	<b>58,471</b>
<b>Not Veterans</b>	<b>2,704</b>	<b>6,988</b>	<b>6,483</b>	<b>5,705</b>	<b>24,669</b>	<b>7,391</b>	<b>1,785</b>	<b>46,032</b>	<b>55,724</b>
Did not earn HSD\GED	NA	NA	1,877	2,378	7,742	1,461	216	<b>13,674</b>	NA
HSD\GED	NA	NA	1,139	1,299	5,519	1,894	337	<b>10,188</b>	NA
Some college -- not attending	NA	NA	1,963	1,090	5,589	1,908	529	<b>11,079</b>	NA
Some college -- attending	NA	NA	109	59	316	23	7	<b>515</b>	NA
AA	NA	NA	665	399	1,556	627	246	<b>3,494</b>	NA
BA+	NA	NA	729	479	3,946	1,479	450	<b>7,083</b>	NA
<b>Veterans</b>	<b>46</b>	<b>208</b>	<b>245</b>	<b>64</b>	<b>874</b>	<b>711</b>	<b>598</b>	<b>2,493</b>	<b>2,746</b>
Did not earn HSD\GED	NA	NA	0	0	0	39	14	<b>53</b>	NA
HSD\GED	NA	NA	0	22	109	207	129	<b>466</b>	NA
Some college -- not attending	NA	NA	53	21	527	148	107	<b>856</b>	NA
Some college -- attending	NA	NA	34	0	0	0	0	<b>34</b>	NA
AA	NA	NA	97	0	34	101	174	<b>406</b>	NA
BA+	NA	NA	60	20	205	217	174	<b>677</b>	NA

Source: ADE, Inc., based on US Census ACS PUMS 2012 through 2014 from IPUMS

**Table 22 — Unemployed Labor Force by Age, Veteran Status, and Educational Attainment (Persons 16 and over): Madera County**

Age Groups	16-19	20-24	25-29	30-34	35-54	55-64	65+	Labor Force (25+)	Total Labor Force
<b>Total</b>	<b>564</b>	<b>1,347</b>	<b>841</b>	<b>288</b>	<b>1,374</b>	<b>693</b>	<b>159</b>	<b>3,356</b>	<b>5,267</b>
<b>Not Veterans</b>	<b>564</b>	<b>1,183</b>	<b>781</b>	<b>288</b>	<b>1,374</b>	<b>624</b>	<b>100</b>	<b>3,167</b>	<b>4,914</b>
Did not earn HSD\GED	NA	NA	57	108	428	63	0	<b>655</b>	NA
HSD\GED	NA	NA	172	139	240	80	0	<b>631</b>	NA
Some college -- not attending	NA	NA	311	41	330	414	79	<b>1,175</b>	NA
Some college -- attending	NA	NA	0	0	111	0	0	<b>111</b>	NA
AA	NA	NA	100	0	106	40	0	<b>246</b>	NA
BA+	NA	NA	141	0	160	27	20	<b>349</b>	NA
<b>Veterans</b>	<b>0</b>	<b>164</b>	<b>60</b>	<b>0</b>	<b>0</b>	<b>69</b>	<b>59</b>	<b>188</b>	<b>353</b>
Did not earn HSD\GED	NA	NA	0	0	0	0	14	<b>14</b>	NA
HSD\GED	NA	NA	0	0	0	0	0	<b>0</b>	NA
Some college -- not attending	NA	NA	0	0	0	69	0	<b>69</b>	NA
Some college -- attending	NA	NA	0	0	0	0	0	<b>0</b>	NA
AA	NA	NA	0	0	0	0	45	<b>45</b>	NA
BA+	NA	NA	60	0	0	0	0	<b>60</b>	NA

Source: ADE, Inc., based on US Census ACS PUMS 2012 through 2014 from IPUMS

**Table 23 — Labor Force by Age, Veteran Status, and Educational Attainment (Persons 16 and over): Unemployment Rates: Madera County**

Age Groups	16-19	20-24	25-29	30-34	35-54	55-64	65+	Labor Force (25+)	Total Labor Force
<b>Total</b>	<b>20.5%</b>	<b>18.7%</b>	<b>12.5%</b>	<b>5.0%</b>	<b>5.4%</b>	<b>8.6%</b>	<b>6.7%</b>	<b>6.9%</b>	<b>9.0%</b>
<b>Not Veterans</b>	<b>20.9%</b>	<b>16.9%</b>	<b>12.1%</b>	<b>5.0%</b>	<b>5.6%</b>	<b>8.4%</b>	<b>5.6%</b>	<b>6.9%</b>	<b>8.8%</b>
Did not earn HSD\GED	NA	NA	3.0%	4.5%	5.5%	4.3%	0.0%	<b>4.8%</b>	NA
HSD\GED	NA	NA	15.1%	10.7%	4.3%	4.2%	0.0%	<b>6.2%</b>	NA
Some college -- not attending	NA	NA	15.8%	3.8%	5.9%	21.7%	15.0%	<b>10.6%</b>	NA
Some college -- attending	NA	NA	0.0%	0.0%	35.1%	0.0%	0.0%	<b>21.5%</b>	NA
AA	NA	NA	15.0%	0.0%	6.8%	6.4%	0.0%	<b>7.0%</b>	NA
BA+	NA	NA	19.4%	0.0%	4.0%	1.8%	4.5%	<b>4.9%</b>	NA
<b>Veterans</b>	<b>0.0%</b>	<b>79.0%</b>	<b>24.5%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>9.7%</b>	<b>9.9%</b>	<b>7.6%</b>	<b>12.8%</b>
Did not earn HSD\GED	NA	NA	NA	NA	NA	0.0%	100.0%	<b>27.0%</b>	NA
HSD\GED	NA	NA	NA	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	NA
Some college -- not attending	NA	NA	0.0%	0.0%	0.0%	46.6%	0.0%	<b>8.1%</b>	NA
Some college -- attending	NA	NA	0.0%	NA	NA	NA	NA	<b>0.0%</b>	NA
AA	NA	NA	0.0%	NA	0.0%	0.0%	25.9%	<b>11.1%</b>	NA
BA+	NA	NA	100.0%	0.0%	0.0%	0.0%	0.0%	<b>8.9%</b>	NA

Source: ADE, Inc., based on US Census ACS PUMS 2012 through 2014 from iPUMS

**Table 24 — Employed and Unemployed Labor Force by College Degree Status and Economic Sector (Persons 25 and Over): Madera County**

Industry Categories	College Degree				No College Degree			
	Full-Time	Part-Time	Unemployed	UER	Full-Time	Part-Time	Unemployed	UER
<b>Total</b>	<b>7,789</b>	<b>3,171</b>	<b>699</b>	<b>6.0%</b>	<b>20,380</b>	<b>13,830</b>	<b>2,656</b>	<b>7.2%</b>
11 Agriculture	173	8	12	8.4%	2,332	5,562	233	18.6%
21 Mining	0	0	0	0.0%	0	0	0	6.7%
22 Utilities	90	0	0	0.0%	647	0	0	2.5%
23 Construction	345	113	0	4.4%	1,276	667	282	13.2%
31 Manufacturing	574	78	76	8.5%	3,295	265	184	13.6%
42 Wholesale	124	68	46	2.3%	796	379	113	10.7%
43 Retail	315	261	33	12.1%	2,356	1,388	265	10.8%
48 Transportation	174	35	0	5.8%	937	128	0	8.6%
49 Warehousing	0	0	0	9.1%	418	57	0	12.7%
51 Information	68	0	0	8.6%	702	149	100	11.8%
52 Finance	548	0	70	5.8%	288	88	137	15.4%
53 Real Estate	42	60	0	7.9%	184	84	30	15.0%
54 Professional Technical	253	398	61	4.0%	284	119	85	12.6%
55 MCE	0	0	0	0.0%	0	0	0	0.0%
56 Admin Support	148	209	0	20.3%	866	521	38	16.9%
56 Waste Mgt	43	0	0	0.0%	42	0	15	3.5%
61 Education	1,533	780	135	4.7%	605	910	77	11.1%
62 Health	1,874	883	186	5.2%	1,451	1,320	185	13.6%
71 Arts, Entertainment, etc.	137	55	0	8.2%	413	46	177	17.8%
72 Accommodations	0	69	0	9.3%	229	167	92	9.8%
72 Food Services	123	17	20	11.3%	715	503	61	13.5%
81 Other Services	124	34	24	4.4%	1,274	1,162	35	9.2%
92 Public Sector	1,059	102	15	6.9%	1,168	314	0	7.1%
98 Military	41	0	0	7.1%	101	0	0	4.1%
99 Long Term Unemployed			21	0.0%			547	0.0%

Source: ADE, Inc., based on US Census ACS PUMS 2012 through 2014 from IPUMS

# CONCLUSION

---

At 1.6 percent a year, Madera County's employment base is expected to grow modestly from now to 2025, although analysts project a number of sectors including Health and Logistics, to exhibit steady growth at rates that double the overall annual growth rate of 1.6 percent. However, qualified workers are in short supply for certain key job categories. Based on the analysis presented in this report and discussions with key employers and workforce training organizations, the following can be identified as potential priorities for additional training efforts.

- Medical Technicians
- Electricians
- Maintenance Mechanics
- Ability to use computer operated processing controls and instruments (and related English competency)
- Workers with supervisory, management and business skills

# APPENDIX

**Appendix Table 1 — Employment Projections by Industry Clusters: Agriculture: Distribution Madera County**

Ag and Food -- Distribution		Employment		Change	Ann. Growth Rate
NAICS	Industry	2015	2025p	2015-2025	
	<b>Total</b>	<b>1,926</b>	<b>2,338</b>	<b>412</b>	<b>2.0%</b>
445110	Supermarkets and Other Grocery (except	940	1,073	133	1.3%
484220	Specialized Freight (except Used Goods) Trucking,	259	309	51	1.8%
424820	Wine and Distilled Alcoholic Beverage Merchant	107	150	43	3.5%
484121	General Freight Trucking, Long-Distance, Truckload	78	117	39	4.1%
493120	Refrigerated Warehousing and Storage	44	80	35	6.0%
424480	Fresh Fruit and Vegetable Merchant Wholesalers	54	80	26	4.0%
424910	Farm Supplies Merchant Wholesalers	54	77	22	3.5%
488510	Freight Transportation Arrangement	32	55	22	5.4%
424410	General Line Grocery Merchant Wholesalers	46	64	18	3.4%
424490	Other Grocery and Related Products Merchant	21	36	15	5.5%
424590	Other Farm Product Raw Material Merchant	14	25	11	6.2%
424440	Poultry and Poultry Product Merchant Wholesalers	3	13	10	15.7%
484122	Gen. Freight Trucking, Long-Distance, Less Than	3	12	9	15.0%
445210	Meat Markets	18	26	8	3.6%
424450	Confectionery Merchant Wholesalers	23	28	5	2.0%
482110	Rail transportation	36	41	5	1.3%
445120	Convenience Stores	24	25	1	0.3%
424430	Dairy Product (except Dried or Canned)	<10	<10		
424460	Fish and Seafood Merchant Wholesalers	<10	<10		
424520	Livestock Merchant Wholesalers	<10	<10		
424930	Flower, Nursery Stock, and Florists' Supplies	<10	<10		
445291	Baked Goods Stores	<10	<10		
445292	Confectionery and Nut Stores	<10	<10		
484230	Specialized Freight Trucking, Long-Distance	<10	<10		
488991	Packing and Crating	<10	<10		
493110	General Warehousing and Storage	<10	<10		
484110	General Freight Trucking, Local	74	72	-2	-0.3%
445310	Beer, Wine, and Liquor Stores	25	18	-7	-3.1%
488190	Other Support Activities for Air Transportation	12	3	-9	-12.8%
424510	Grain and Field Bean Merchant Wholesalers	15	3	-12	-14.8%
445299	All Other Specialty Food Stores	16	3	-13	-15.2%

Source: ADE, based on EMSI 2015 Q4 QCEW and Non QCEW Industry Employment Trends (note: p = projections)

**Appendix Table 2 — Employment Projections by Industry Clusters: Agriculture: Processing: Madera County**

Ag and Food -- Processing		Employment		Change	Ann. Growth Rate
NAICS	Industry	2015	2025 proj.	2015-2025	
	<b>Total</b>	<b>2,242</b>	<b>2,873</b>	<b>631</b>	<b>2.5%</b>
311615	Poultry Processing	429	783	366	6.2%
327213	Glass Container Manufacturing	444	516	74	1.5%
311919	Other Snack Food Manufacturing	256	320	67	2.3%
322211	Corrugated and Solid Fiber Box Manufacturing	250	305	56	2.0%
311811	Retail Bakeries	3	46	45	31.4%
312130	Wineries	219	262	44	1.8%
311119	Other Animal Food Manufacturing	99	142	40	3.6%
311411	Frozen Fruit, Juice, and Vegetable Manufacturing	56	96	36	5.5%
321920	Wood Container and Pallet Manufacturing	32	62	32	6.8%
311991	Perishable Prepared Food Manufacturing	28	49	21	5.6%
311423	Dried and Dehydrated Food Manufacturing	<10	<10		
311812	Commercial Bakeries	<10	<10		
312112	Bottled Water Manufacturing	<10	<10		
322212	Folding Paperboard Box Manufacturing	<10	<10		
332439	Other Metal Container Manufacturing	<10	<10		
311421	Fruit and Vegetable Canning	60	53	-7	-1.3%
311211	Flour Milling	350	226	-192	-4.3%

Source: ADE, based on EMSI 2015 Q4 QCEW and Non QCEW Industry Employment Trends (note: p = projections)

**Appendix Table 3 — Employment Projections by Industry Clusters: Agriculture: Production Madera County**

Ag and Food -- Production		Employment	Change	Ann. Growth Rate	
NAICS	Industry	2015	2025p.	2015-2025	
	<b>Total</b>	<b>4,908</b>	<b>5,495</b>	<b>587</b>	<b>1.1%</b>
111000	Crop Production	3,635	4,280	645	1.6%
112000	Animal Production and Aquaculture	1,273	1,215	-58	-0.5%

Source: Applied Development Economics, based on EMSI



**Appendix Table 4 — Employment Projections by Industry Clusters: Agriculture: Support  
Madera County**

		Employment		Change	Ann. Growth Rate
Ag and Food -- Support					
NAICS	Industry	2015	2025p.	2015-2025	
	<b>Total</b>	<b>9,059</b>	<b>10,407</b>	<b>1,349</b>	<b>1.4%</b>
115112	Soil Preparation, Planting, and Cultivating	1,186	1,668	482	3.5%
115114	Postharvest Crop Activities (except Cotton Ginning)	750	1,227	477	5.0%
561320	Temporary Help Services	571	883	313	4.5%
115116	Farm Management Services	590	860	270	3.8%
811310	Commercial and Industrial Machinery and Equipment (except Automotive and Electronic) Repair and Maintenance	103	138	35	2.9%
561710	Exterminating and Pest Control Services	69	95	26	3.3%
423820	Farm and Garden Machinery and Equipment Merchant Wholesalers	70	93	23	2.9%
541620	Environmental Consulting Services	34	56	22	5.1%
541360	Geophysical Surveying and Mapping Services	3	21	18	21.4%
333111	Farm Machinery and Equipment Manufacturing	104	119	15	1.4%
541690	Other Scientific and Technical Consulting Services	64	79	15	2.1%
221310	Water Supply and Irrigation Systems	52	66	14	2.4%
561730	Landscaping Services	101	114	13	1.3%
541940	Veterinary Services	62	73	12	1.8%
423840	Industrial Supplies Merchant Wholesalers	3	14	11	16.4%
332420	Metal Tank (Heavy Gauge) Manufacturing	33	43	10	2.7%
237110	Water and Sewer Line and Related Structures Construction	116	124	8	0.7%
332311	Prefabricated Metal Building and Component Manufacturing	35	43	7	1.9%
561110	Office Administrative Services	27	32	5	1.9%
541380	Testing Laboratories	22	26	5	2.0%
115113	Crop Harvesting, Primarily by Machine	87	90	4	0.4%
444220	Nursery, Garden Center, and Farm Supply Stores	119	121	2	
423850	Service Establishment Equipment and Supplies Merchant Wholesalers	<10	<10		
541614	Process, Physical Distribution, and Logistics Consulting Services	<10	<10		
541810	Advertising Agencies	<10	<10		
115310	Support Activities for Forestry	<10	<10		
333911	Pump and Pumping Equipment Manufacturing	<10	<10		
333992	Welding and Soldering Equipment Manufacturing	<10	<10		
423860	Transportation Equipment and Supplies (except Motor Vehicle) Merchant Wholesalers	<10	<10		
444210	Outdoor Power Equipment Stores	<10	<10		
522292	Real Estate Credit	<10	<10		
532490	Other Commercial and Industrial Machinery and Equipment Rental and Leasing	<10	<10		

<b>Ag and Food -- Support</b>		<b>Employment</b>		<b>Change</b>	<b>Ann. Growth Rate</b>
<b>NAICS</b>	<b>Industry</b>	<b>2015</b>	<b>2025 proj.</b>	<b>2015-2025</b>	
541370	Surveying and Mapping (except Geophysical) Services	<10	<10		
541613	Marketing Consulting Services	<10	<10		
541890	Other Services Related to Advertising	<10	<10		
562920	Materials Recovery Facilities	<10	<10		
325314	Fertilizer (Mixing Only) Manufacturing	26	20	-7	-3.0%
115210	Support Activities for Animal Production	10	3	-7	-11.5%
423830	Industrial Machinery and Equipment Merchant Wholesalers	24	16	-7	-3.7%
551114	Corporate, Subsidiary, and Regional Managing Offices	381	264	-117	-3.6%
115115	Farm Labor Contractors and Crew Leaders	4,375	4,076	-299	-0.7%

Source: ADE, based on EMSI 2015 Q4 QCEW and Non QCEW Industry Employment Trends (note: p = projections)

**Appendix Table 5 — Employment Projections by Industry Clusters: Energy Madera County**

			Employment		Change	Ann. Growth Rate
Energy Cluster and Sub-Clusters	NAICS	Industry	2015	2025 proj.	2015-2025	
		<b>Total</b>	<b>1,533</b>	<b>1,826</b>	<b>501</b>	<b>1.8%</b>
06 Energy--01 Energy Core--01 Petroleum	213111	Drilling Oil and Gas Wells	11	24	267	7.9%
06 Energy--01 Energy Core--02 Petroleum Distribution	424720	Petroleum and Petroleum Products Merchant Wholesalers (except Bulk Stations and Terminals)	40	17	0	-8.3%
06 Energy--01 Energy Core--03 Power Generation	221210	Natural Gas Distribution	122	138	10	1.2%
06 Energy--01 Energy Core--04 Alt Energy Production	237110	Water and Sewer Line and Related Structures Construction	116	124	4	0.7%
06 Energy--01 Energy Core--04 Alt Energy Production	238160	Roofing Contractors	67	17	-48	-12.9%
06 Energy--01 Energy Core--05 Alt Energy Distribution	423720	Plumbing and Heating Equipment and Supplies (Hydronics) Merchant Wholesalers	16	26	41	5.0%
06 Energy--01 Energy Core--05 Alt Energy Distribution	423610	Electrical Apparatus and Equipment, Wiring Supplies, and Related Equipment Merchant Wholesalers	3	3	5	0.0%
06 Energy--01 Energy Core--06 Energy Efficiency	238210	Electrical Contractors and Other Wiring Installation Contractors	146	186	-25	2.4%
06 Energy--01 Energy Core--06 Energy Efficiency	238220	Plumbing, Heating, and Air-Conditioning Contractors	141	148	69	0.5%
06 Energy--01 Energy Core--06 Energy Efficiency	238310	Drywall and Insulation Contractors	31	6	13	-15.1%
06 Energy--01 Energy Core--07 Energy Equipment Mfg	335129	Other Lighting Equipment Manufacturing	102	173	-29	5.4%
06 Energy--02 Energy related--01 Manufacturing	334519	Other Measuring and Controlling Device Manufacturing	3	13	16	16.0%
06 Energy--02 Energy related--02 Services	811310	Commercial and Industrial Machinery and Equipment (except Automotive and Electronic) Repair and Maintenance	103	138	13	2.9%
06 Energy--02 Energy related--02 Services	533110	Lessors of Nonfinancial Intangible Assets (except Copyrighted Works)	49	68	147	3.4%
06 Energy--02 Energy related--03 Research	541	Prof., Scientific, Tech.	584	747	18	2.5%

**Appendix Table 6 — Employment Projections by Industry Clusters: Health and Wellness: Delivery: Madera County**

Health and Wellness -- Health Care - Delivery		Employment		Change	Ann. Growth Rate
NAICS	Industry	2015	2025 proj.	2015-2025	
	<b>Total</b>	<b>5,799</b>	<b>6,735</b>	<b>936</b>	<b>1.5%</b>
622110	General Medical and Surgical Hospitals	3,646	4,128	482	1.2%
623220	Residential Mental Health and Substance Abuse Facilities	154	272	118	5.9%
621111	Offices of Physicians (except Mental Health Specialists)	523	637	114	2.0%
621491	HMO Medical Centers	168	248	80	4.0%
623312	Assisted Living Facilities for the Elderly	97	144	47	4.1%
623110	Nursing Care Facilities (Skilled Nursing Facilities)	351	394	43	1.2%
621210	Offices of Dentists	256	288	32	1.2%
623990	Other Residential Care Facilities	86	115	28	2.9%
621340	Offices of Physical, Occupational and Speech Therapists, and Audiologists	55	74	19	3.0%
624310	Vocational Rehabilitation Services	194	212	18	0.9%
621910	Ambulance Services	76	87	12	1.4%
621391	Offices of Podiatrists	3	10	7	13.1%
621511	Medical Laboratories	10	17	7	5.1%
621493	Freestanding Ambulatory Surgical and Emergency Centers	31	35	5	1.4%
621330	Offices of Mental Health Practitioners (except Physicians)	0	3	3	100.0%
621410	Family Planning Centers	20	23	3	1.2%
621320	Offices of Optometrists	<10	<10		
621492	Kidney Dialysis Centers	<10	<10		
621310	Offices of Chiropractors	14	12	-2	-1.1%
621610	Home Health Care Services	25	19	-6	-2.7%
621420	Outpatient Mental Health and Substance Abuse Centers	16	3	-13	-15.4%
623210	Residential Intellectual and Developmental Disability Facilities	24	3	-21	-18.9%
621498	All Other Outpatient Care Centers	43	3	-40	-23.4%
Source: ADE, based on EMSI 2015 Q4 QCEW and Non QCEW Industry Employment Trends (note: p = projections)					

**Appendix Table 7 — Employment Projections by Industry Clusters: Health and Wellness: All Others**

<b>Madera County</b>			<b>Employment</b>		<b>Change</b>	<b>Ann. Growth Rate</b>
<b>Health and Wellness: All Others</b>	<b>NAICS</b>	<b>Industry</b>	<b>2015</b>	<b>2025 proj.</b>	<b>2015-2025</b>	
		<b>Total</b>	<b>2,002</b>	<b>3,113</b>	<b>1,111</b>	<b>4.5%</b>
03 Wellness and Fitness	446110	Pharmacies and Drug Stores	245	259	13	0.5%
03 Wellness and Fitness	446191	Food (Health) Supplement Stores	3	12	9	14.7%
03 Wellness and Fitness	446130	Optical Goods Stores	<10	<10		
03 Wellness and Fitness	446199	All Other Health and Personal Care Stores	<10	<10		
03 Wellness and Fitness	532291	Home Health Equipment Rental	<10	<10		
04 Medical devices	339116	Dental Laboratories	<10	<10		
05 Supplies and Services	813212	Voluntary Health Organizations	3	14	11	16.9%
05 Supplies and Services	424210	Drugs and Druggists' Sundries Merchant Wholesalers	<10	<10		
06 Other Services	624120	Services for the Elderly and Persons with Disabilities	1,351	2,241	890	5.2%
06 Other Services	624410	Child Day Care Services	301	446	144	4.0%
06 Other Services	624190	Other Individual and Family Services	65	94	29	3.8%
06 Other Services	624110	Child and Youth Services	16	27	11	5.4%
06 Other Services	624210	Community Food Services	0	3	3	100.0%
06 Other Services	624229	Other Community Housing Services	<10	<10		

**Appendix Table 8 — Employment Projections by Industry Clusters: Logistics: Madera County**

Logistics --		Employment	Change	Ann. Growth Rate	
NAICS	Industry	2015	2025 proj.	2015-2025	
	<b>Total</b>	<b>661</b>	<b>870</b>	<b>209</b>	<b>2.8%</b>
484220	Specialized Freight (except Used Goods) Trucking, Local	259	309	46	1.8%
484121	General Freight Trucking, Long-Distance, Truckload	78	117	40	4.1%
493120	Refrigerated Warehousing and Storage	44	80	36	6.0%
488510	Freight Transportation Arrangement	32	55	22	5.4%
485210	Interurban and Rural Bus Transportation	39	59	18	4.2%
485991	Special Needs Transportation	3	20	16	20.6%
492110	Couriers and Express Delivery Services	20	31	11	4.3%
484122	General Freight Trucking, Long-Distance, Less Than Truckload	3	12	10	15.0%
482110	Rail transportation	36	41	4	1.3%
492210	Local Messengers and Local Delivery	11	15	0	2.9%
541614	Process, Physical Distribution, and Logistics Consulting Services	3	6	0	7.2%
484210	Used Household and Office Goods Moving	<10	<10		
484230	Specialized Freight (except Used Goods) Trucking, Long-Distance	<10	<10		
485999	All Other Transit and Ground Passenger Transportation	<10	<10		
488991	Packing and Crating	<10	<10		
493110	General Warehousing and Storage	<10	<10		
484110	General Freight Trucking, Local	74	72	-7	-0.3%
488410	Motor Vehicle Towing	30	23	-7	-2.6%
488190	Other Support Activities for Air Transportation	12	3	-9	-12.8%

**Appendix Table 9 — Employment Projections by Industry Clusters: Manufacturing: All Others Madera County**

Manufacturing -- Other		Employment		Change	Ann. Growth Rate
NAICS	Industry	2015	2025 proj.	2015-2025	
	<b>Total</b>	<b>1,662</b>	<b>1,599</b>	<b>-63</b>	<b>-0.4%</b>
332812	Metal Coating, Engraving (except Jewelry and Silverware), and Allied Services to Manufacturers	76	119	43	4.6%
327390	Other Concrete Product Manufacturing	27	65	38	9.3%
334418	Printed Circuit Assembly (Electronic Assembly) Manufacturing	23	40	17	5.6%
332322	Sheet Metal Work Manufacturing	25	40	16	5.0%
332994	Small Arms, Ordnance, and Ordnance Accessories Manufacturing	15	29	14	6.8%
335929	Other Communication and Energy Wire Manufacturing	32	44	12	3.4%
334416	Capacitor, Resistor, Coil, Transformer, and Other Inductor Manufacturing	23	35	12	4.1%
332420	Metal Tank (Heavy Gauge) Manufacturing	33	43	10	2.7%
331210	Iron and Steel Pipe and Tube Manufacturing from Purchased Steel	11	21	10	6.3%
339999	All Other Miscellaneous Manufacturing	15	23	8	4.4%
332311	Prefabricated Metal Building and Component Manufacturing	35	43	7	1.9%
333515	Cutting Tool and Machine Tool Accessory Manufacturing	24	30	6	2.1%
323113	Commercial Screen Printing	19	23	4	1.8%
327331	Concrete Block and Brick Manufacturing	<10	<10		
327991	Cut Stone and Stone Product Manufacturing	<10	<10		
332323	Ornamental and Architectural Metal Work Manufacturing	<10	<10		
332912	Fluid Power Valve and Hose Fitting Manufacturing	<10	<10		
332999	All Other Miscellaneous Fabricated Metal Product Manufacturing	<10	<10		
333992	Welding and Soldering Equipment Manufacturing	<10	<10		
334511	Search, Detection, Navigation, Guidance, Aeronautical, and Nautical System and Instrument Manufacturing	<10	<10		
335221	Household Cooking Appliance Manufacturing	<10	<10		
336212	Truck Trailer Manufacturing	<10	<10		
339950	Sign Manufacturing	<10	<10		

Manufacturing -- Other		Employment		Change	Ann. Growth Rate
NAICS	Industry	2015	2025p	2015-2025	
327320	Ready-Mix Concrete Manufacturing	42	42	-1	-0.2%
326191	Plastics Plumbing Fixture Manufacturing	24	22	-2	-0.7%
331221	Rolled Steel Shape Manufacturing	3	0	-3	100.0%
332710	Machine Shops	23	17	-6	-2.9%
325314	Fertilizer (Mixing Only) Manufacturing	26	20	-7	-3.0%
333415	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing	366	356	-10	-0.3%
337110	Wood Kitchen Cabinet and Countertop Manufacturing	38	24	-14	-4.5%
323111	Commercial Printing (except Screen and Books)	21	3	-18	-17.8%
326199	All Other Plastics Product Manufacturing	30	3	-27	-20.5%
336340	Motor Vehicle Brake System Manufacturing	313	280	-33	-1.1%
327993	Mineral Wool Manufacturing	174	130	-44	-2.9%
321991	Manufactured Home (Mobile Home) Manufacturing	45	0	-45	100.0%
327332	Concrete Pipe Manufacturing	169	119	-51	-3.5%

Source: ADE, based on EMSI 2015 Q4 QCEW and Non QCEW Industry Employment Trends (note: p = projections)

**Appendix Table 10 — Employment Projections by Industry Clusters: Water Technology Madera County**

Water Flow Technology --		Employment		Change	Ann. Growth Rate
NAICS	Industry	2015	2025p	2015-2025	
	<b>Total</b>	<b>458</b>	<b>544</b>	<b>85</b>	<b>1.7%</b>
326122	Plastics Pipe and Pipe Fitting Manufacturing	274	329	55	1.9%
424910	Farm Supplies Merchant Wholesalers	54	77	22	3.5%
333111	Farm Machinery and Equipment Manufacturing	104	119	15	1.4%
333911	Pump and Pumping Equipment Manufacturing	<10	<10		
423830	Industrial Machinery and Equipment Merchant Wholesalers	24	16	-7	3.7%



**Appendix Table 11 — Employment Projections by Industry Clusters: Heavy Construction Madera County**

Heavy Construction		Employment		Change	Ann. Growth Rate
NAICS	Industry	2015	2025p	2015-2025	
	<b>Total</b>	<b>195</b>	<b>788</b>	<b>593</b>	<b>15.0%</b>
237990	Other Heavy and Civil Engineering Construction	13	590	577	46.0%
237110	Water and Sewer Line and Related Structures Construction	116	124	8	0.7%
237000	Public sector heavy cons.	44	50	6	1.3%
237310	Highway, Street, and Bridge Construction	19	21	2	1.1%
237130	Power and Communication Line and Related Structures Construction	3	3	0	0.0%

Source: ADE, based on EMSI 2015 Q4 QCEW and Non QCEW Industry Employment Trends (note: p = projections)

**Appendix Table 12 — Employment Projections by Industry Clusters: Accommodations and Food Services, and Retail**

Accommodations, Food and Retail		Employment		Change	Ann. Growth Rate
NAICS	Industries	2015	2025p	2015-2025	
44-45	Retail	3,714	4,266	552	1.4%
721	Accommodations	593	693	100	1.6%
722	Food services	2,089	2,425	335	1.5%

Source: Applied Development Economics, based on EMSI

**Appendix Table 13 — Occupational Projections by Education and Training Requirement: New Jobs (Jobs Expected to Grow By At Least 50)**

OCCCSOC	Occupation	Total	01 Less than high school	02 High school diploma or equivalent	03 Some college, no degree	04 Post-secondary non-degree award	05 Associate's degree	06 Bachelor's degree or higher
	<b>Total</b>	<b>4,638</b>	<b>2,842</b>	<b>1,104</b>	<b>58</b>	<b>184</b>	<b>268</b>	<b>182</b>
11-1021	General and Operations Managers	90	0	0	0	0	0	90
11-9013	Farmers, Ranchers, and Other Agricultural Managers	57	0	57	0	0	0	0
21-1093	Social and Human Service Assistants	75	0	75	0	0	0	0
25-2011	Preschool Teachers, Except Special Education	55	0	0	0	0	55	0
25-2021	Elementary School Teachers, Except Special Education	91	0	0	0	0	0	91
25-9041	Teacher Assistants	58	0	0	58	0	0	0
29-1141	Registered Nurses	213	0	0	0	0	213	0
31-1011	Home Health Aides	97	97	0	0	0	0	0
31-1014	Nursing Assistants	94	0	0	0	94	0	0
33-3012	Correctional Officers and Jailers	74	0	74	0	0	0	0
33-9032	Security Guards	105	0	105	0	0	0	0
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	201	201	0	0	0	0	0
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	460	460	0	0	0	0	0
37-2012	Maids and Housekeeping Cleaners	95	95	0	0	0	0	0
39-9011	Childcare Workers	97	0	97	0	0	0	0
39-9021	Personal Care Aides	346	346	0	0	0	0	0
41-2011	Cashiers	85	85	0	0	0	0	0
41-2031	Retail Salespersons	199	199	0	0	0	0	0
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	62	0	62	0	0	0	0
43-1011	First-Line Supervisors of Office and Administrative Support Workers	53	0	53	0	0	0	0
43-3031	Bookkeeping, Accounting, and Auditing Clerks	65	0	65	0	0	0	0
43-4051	Customer Service Representatives	74	0	74	0	0	0	0

OCCCSOC	Occupation	Total	01 Less than high school	02 High school diploma or equivalent	03 Some college, no degree	04 Post-secondary non-degree award	05 Associate's degree	06 Bachelor's degree or higher
43-5081	Stock Clerks and Order Fillers	64	64	0	0	0	0	0
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	99	0	99	0	0	0	0
43-9061	Office Clerks, General	88	0	88	0	0	0	0
45-2041	Graders and Sorters, Agricultural Products	50	50	0	0	0	0	0
45-2091	Agricultural Equipment Operators	81	81	0	0	0	0	0
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	700	700	0	0	0	0	0
47-2021	Brickmasons and Blockmasons	50	0	50	0	0	0	0
49-9071	Maintenance and Repair Workers, General	74	0	74	0	0	0	0
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	70	70	0	0	0	0	0
51-3023	Slaughterers and Meat Packers	52	52	0	0	0	0	0
51-9111	Packaging and Filling Machine Operators and Tenders	130	0	130	0	0	0	0
51-9198	Helpers--Production Workers	63	63	0	0	0	0	0
53-3032	Heavy and Tractor-Trailer Truck Drivers	90	0	0	0	90	0	0
53-7061	Cleaners of Vehicles and Equipment	66	66	0	0	0	0	0
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	133	133	0	0	0	0	0
53-7064	Packers and Packagers, Hand	79	79	0	0	0	0	0
		4,638	2,842	1,104	58	184	268	182
11-1021	General and Operations Managers	90	0	0	0	0	0	90
11-9013	Farmers, Ranchers, and Other Agricultural Managers	57	0	57	0	0	0	0
21-1093	Social and Human Service Assistants	75	0	75	0	0	0	0
25-2011	Preschool Teachers, Except Special Education	55	0	0	0	0	55	0
25-2021	Elementary School Teachers, Except Special Education	91	0	0	0	0	0	91
25-9041	Teacher Assistants	58	0	0	58	0	0	0
29-1141	Registered Nurses	213	0	0	0	0	213	0

Source: Applied Development Economics, based on EMSI

**Appendix Table 14 — Occupational Projections by Education and Training Requirement: Annual and Cumulative Projected Openings**

<b>US Census PUMS OCCSOC</b>	<b>Occupation</b>	<b>Annual Openings</b>	<b>Projected Annual Opening Over Ten Years (2015- 2025)</b>
	<b>Total</b>	<b>1,610</b>	<b>16,096</b>
53-7064	Packers and Packagers, Hand	14	141
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	29	289
53-7061	Cleaners of Vehicles and Equipment	12	119
53-7051	Industrial Truck and Tractor Operators	11	109
53-3030	Light Truck or Delivery Services Drivers	8	75
53-3030	Heavy and Tractor-Trailer Truck Drivers	18	175
53-1000	First-Line Supervisors of Helpers, Laborers, and Material Movers, Hand	5	50
51-91XX	Production Workers, All Other	7	69
51-9198	Helpers--Production Workers	16	165
51-9111	Packaging and Filling Machine Operators and Tenders	29	292
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	6	63
51-4120	Welders, Cutters, Solderers, and Brazers	5	53
51-4041	Machinists	7	67
51-3020	Slaughterers and Meat Packers	8	83
51-3020	Meat, Poultry, and Fish Cutters and Trimmers	10	96
51-2090	Team Assemblers	10	99
51-1011	First-Line Supervisors of Production and Operating Workers	7	68
49-9071	Maintenance and Repair Workers, General	17	167
49-904X	Industrial Machinery Mechanics	10	97
49-3023	Automotive Service Technicians and Mechanics	7	72
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	5	48
47-2111	Electricians	5	52
47-2061	Construction Laborers	8	80

<b>US Census PUMS OCCSOC</b>	<b>Occupation</b>	<b>Annual Openings</b>	<b>Projected Annual Opening Over Ten Years (2015- 2025)</b>
47-XXXX	Brickmasons and Blockmasons	5	53
45-20XX	Farmworkers, Farm, Ranch, and Aquacultural Animals	15	147
45-20XX	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	291	2,906
45-20XX	Agricultural Equipment Operators	21	206
45-2041	Graders and Sorters, Agricultural Products	12	116
45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers	10	96
43-9061	Office Clerks, General	22	216
43-6010	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	17	166
43-6010	Medical Secretaries	7	69
43-5081	Stock Clerks and Order Fillers	20	199
43-5071	Shipping, Receiving, and Traffic Clerks	8	78
43-4171	Receptionists and Information Clerks	10	104
43-4081	Hotel, Motel, and Resort Desk Clerks	11	109
43-4051	Customer Service Representatives	19	186
43-3071	Tellers	7	65
43-3031	Bookkeeping, Accounting, and Auditing Clerks	11	106
43-3021	Billing and Posting Clerks	5	54
43-1011	First-Line Supervisors of Office and Administrative Support Workers	14	138
41-4010	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	11	109
41-3099	Sales Representatives, Services, All Other	6	62
41-2031	Retail Salespersons	48	485
41-2021	Counter and Rental Clerks	6	65
41-2010	Cashiers	62	621
41-1011	First-Line Supervisors of Retail Sales Workers	10	102

<b>US Census PUMS OCCSOC</b>	<b>Occupation</b>	<b>Annual Openings</b>	<b>Projected Annual Opening Over Ten Years (2015- 2025)</b>
39-9021	Personal Care Aides	35	354
39-9011	Childcare Workers	22	223
39-3090	Amusement and Recreation Attendants	5	51
37-3010	Landscaping and Groundskeeping Workers	12	119
37-2012	Maids and Housekeeping Cleaners	17	166
37-1012	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	78	775
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	7	67
35-9021	Dishwashers	8	85
35-90XX	Dining Room and Cafeteria Attendants and Bartender Helpers	6	65
35-3031	Waiters and Waitresses	26	262
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	7	65
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	62	622
35-2021	Food Preparation Workers	11	113
35-2010	Cooks, Restaurant	7	67
35-2010	Cooks, Institution and Cafeteria	6	64
35-2010	Cooks, Fast Food	10	98
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	11	107
33-9030	Security Guards	15	153
33-3050	Police and Sheriff's Patrol Officers	7	68
33-3010	Correctional Officers and Jailers	28	283
33-1011	First-Line Supervisors of Correctional Officers	6	64
31-9092	Medical Assistants	8	81
31-1010	Nursing Assistants	18	177
31-1010	Home Health Aides	12	116

<b>US Census PUMS OCCSOC</b>	<b>Occupation</b>	<b>Annual Openings</b>	<b>Projected Annual Opening Over Ten Years (2015- 2025)</b>
29-2061	Licensed Practical and Licensed Vocational Nurses	10	97
29-1141	Registered Nurses	50	497
25-9041	Teacher Assistants	20	203
25-3000	Substitute Teachers	6	56
25-2030	Secondary School Teachers, Except Special and Career/Technical Education	14	142
25-2020	Middle School Teachers, Except Special and Career/Technical Education	9	89
25-2020	Elementary School Teachers, Except Special Education	33	327
25-2010	Preschool Teachers, Except Special Education	12	119
25-1000	Postsecondary Teachers	7	75
21-1093	Social and Human Service Assistants	14	139
13-2011	Accountants and Auditors	8	79
13-1199	Business Operations Specialists, All Other	7	65
11-9111	Medical and Health Services Managers	6	55
11-9013	Farmers, Ranchers, and Other Agricultural Managers	15	145
11-1021	General and Operations Managers	20	203
17-2051	Operating engineers/civil engineers	3	29
47-1011	First-line supervisors/managers of construction trades and extraction workers	9	86
47-2061	Construction laborers	26	258
47-207X	Other construction equipment operators	11	109
47-2031	Carpenters	4	36
53-7051	Truck drivers, heavy and tractor-trailer	5	51

Source: ADE, Inc., based on EMSI

**Appendix Table 15 — Unemployed Labor Force-to-Job Openings Skills Match: Madera County**

OCCSOC	Occupation	Annual Openings	Required Education for Openings	Unemployed In Occupation With Openings	Unemployed Whose Education Match Occupational Requirement	01 < HS\GED	02 HS\GED	03 Some College- OUT	04 Some College- Attending	05 AA	06 BA or up
	<b>Total</b>	<b>1,610</b>		<b>3,045</b>	<b>1,090</b>	<b>322</b>	<b>700</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
53-7064	Packers and Packagers, Hand	14	Less than high school	86	86	63	23	0	0	0	0
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	29	Less than high school	384	27	27	0	0	0	0	0
53-7061	Cleaners of Vehicles and Equipment	12	Less than high school	53	53	53	0	0	0	0	0
53-7051	Industrial Truck and Tractor Operators	11	Less than high school	28	28	0	28	0	0	0	0
53-3030	Driver/Sales Workers and Truck Drivers	25	High school diploma or equivalent	0	0	0	0	0	0	0	0
53-1000	Supervisors ofTransportation and Material Moving Workers	5	High school diploma or equivalent	0	0	0	0	0	0	0	0
51-91XX	Other production workers including semiconductor processors and cooling and freezing equipment operators	7	Associate's degree	0	0	0	0	0	0	0	0
51-9198	Helpers--Production Workers	16	Less than high school	0	0	0	0	0	0	0	0
51-9111	Packaging and Filling Machine Operators and Tenders	29	High school diploma or equivalent	21	0	0	0	0	0	0	0
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	6	High school diploma or equivalent	39	20	0	20	0	0	0	0
51-4120	Welding, Soldering,	5	High school diploma	49	0	0	0	0	0	0	0



OCCSOC	Occupation	Annual Openings	Required Education for Openings	Unemployed In Occupation With Openings	Unemployed Whose Education Match Occupational Requirement	01 < HS\GED	02 HS\GED	03 Some College- OUT	04 Some College- Attending	05 AA	06 BA or up
	and Brazing Workers		or equivalent								
51-4041	Machinists	7	High school diploma or equivalent	0	0	0	0	0	0	0	0
51-3020	Butchers and Other Meat, Poultry, and Fish Processing Workers	18	Less than high school	0	0	0	0	0	0	0	0
51-2090	Miscellaneous Assemblers and Fabricators	10	High school diploma or equivalent	0	0	0	0	0	0	0	0
51-1011	First-Line Supervisors of Production and Operating Workers	7	Postsecondary non- degree award	0	0	0	0	0	0	0	0
49-9071	Maintenance and Repair Workers, General	17	High school diploma or equivalent	0	0	0	0	0	0	0	0
49-904X	Industrial and Refractory Machinery Mechanic	10	High school diploma or equivalent	0	0	0	0	0	0	0	0
49-3023	Automotive Service Technicians and Mechanics	7	High school diploma or equivalent	0	0	0	0	0	0	0	0
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	5	High school diploma or equivalent	0	0	0	0	0	0	0	0
47-XXXX	Miscellaneous Construction Workers Including Solar Photovoltaic Installers, and Septic Tank Servicers and Sewer Pipe Cleaners	5	High school diploma or equivalent	0	0	0	0	0	0	0	0
47-2111	Electricians	5	High school diploma	27	0	0	0	0	0	0	0

OCCSOC	Occupation	Annual Openings	Required Education for Openings	Unemployed In Occupation With Openings	Unemployed Whose Education Match Occupational Requirement	01 < HS\GED	02 HS\GED	03 Some College- OUT	04 Some College- Attending	05 AA	06 BA or up
			or equivalent								
47-2061	Construction Laborers	8	Less than high school	148	100	60	41	0	0	0	0
45-20XX	Miscellaneous agricultural workers including animal breeders	326	High school diploma or equivalent	254	118	0	118	0	0	0	0
45-2041	Graders and Sorters, Agricultural Products	12	Less than high school	90	90	38	52	0	0	0	0
45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers	10	High school diploma or equivalent	0	0	0	0	0	0	0	0
43-9061	Office Clerks, General	22	High school diploma or equivalent	125	22	0	22	0	0	0	0
43-6010	Secretaries and Administrative Assistants	24	High school diploma or equivalent	24	0	0	0	0	0	0	0
43-5081	Stock Clerks and Order Fillers	20	Less than high school	0	0	0	0	0	0	0	0
43-5071	Shipping, Receiving, and Traffic Clerks	8	High school diploma or equivalent	0	0	0	0	0	0	0	0
43-4171	Receptionists and Information Clerks	10	High school diploma or equivalent	0	0	0	0	0	0	0	0
43-4081	Hotel, Motel, and Resort Desk Clerks	11	High school diploma or equivalent	18	0	0	0	0	0	0	0
43-4051	Customer Service Representatives	19	High school diploma or equivalent	97	58	0	58	0	0	0	0
43-3071	Tellers	7	High school diploma or equivalent	60	0	0	0	0	0	0	0
43-3031	Bookkeeping, Accounting, and Auditing Clerks	11	High school diploma or equivalent	0	0	0	0	0	0	0	0
43-3021	Billing and Posting Clerks	5	High school diploma or equivalent	0	0	0	0	0	0	0	0

OCCSOC	Occupation	Annual Openings	Required Education for Openings	Unemployed In Occupation With Openings	Unemployed Whose Education Match Occupational Requirement	01 < HS\GED	02 HS\GED	03 Some College- OUT	04 Some College- Attending	05 AA	06 BA or up
43-1011	First-Line Supervisors of Office and Administrative Support Workers	14	High school diploma or equivalent	27	0	0	0	0	0	0	0
41-4010	Sales Representatives, Wholesale and Manufacturing	11	Bachelor's degree	23	0	0	0	0	0	0	0
41-3099	Sales Representatives, Services, All Other	6	High school diploma or equivalent	0	0	0	0	0	0	0	0
41-2031	Retail Salespersons	48	Less than high school	171	114	0	114	0	0	0	0
41-2021	Counter and Rental Clerks	6	Less than high school	0	0	0	0	0	0	0	0
41-2010	Cashiers	62	Less than high school	197	85	22	63	0	0	0	0
41-1011	First-Line Supervisors of Retail Sales Workers	10	High school diploma or equivalent	34	0	0	0	0	0	0	0
39-9021	Personal Care Aides	35	Less than high school	138	20	0	20	0	0	0	0
39-9011	Childcare Workers	22	High school diploma or equivalent	106	42	0	42	0	0	0	0
39-3090	Miscellaneous Entertainment Attendants and Related Workers	5	Less than high school	129	0	0	0	0	0	0	0
37-3010	Grounds Maintenance Workers	12	Less than high school	0	0	0	0	0	0	0	0
37-2012	Maids and Housekeeping Cleaners	17	Less than high school	0	0	0	0	0	0	0	0
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	78	Less than high school	0	0	0	0	0	0	0	0

OCCSOC	Occupation	Annual Openings	Required Education for Openings	Unemployed In Occupation With Openings	Unemployed Whose Education Match Occupational Requirement	01 < HS\GED	02 HS\GED	03 Some College- OUT	04 Some College- Attending	05 AA	06 BA or up
35-90XX	Miscellaneous food preparation and serving related workers incl. dining room\cafeteria attendants, bartender helpers	6	Less than high school	0	0	0	0	0	0	0	0
35-9031	Host and Hostesses, Restaurant, Lounge, and Coffee Shop	7	Less than high school	0	0	0	0	0	0	0	0
35-9021	Dishwashers	8	Less than high school	0	0	0	0	0	0	0	0
35-3031	Waiters and Waitresses	26	Less than high school	0	0	0	0	0	0	0	0
35-3022	Counter Attendant, Cafeteria, Food Concession, and Coffee Shop	7	Less than high school	0	0	0	0	0	0	0	0
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	62	Less than high school	122	0	0	0	0	0	0	0
35-2021	Food Preparation Workers	11	Less than high school	51	0	0	0	0	0	0	0
35-2010	Cooks	23	Less than high school	49	0	0	0	0	0	0	0
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	11	High school diploma or equivalent	0	0	0	0	0	0	0	0
33-9030	Security Guards and Gaming Surveillance Officers	15	High school diploma or equivalent	0	0	0	0	0	0	0	0
33-3050	Police Officers	7	High school diploma or equivalent	0	0	0	0	0	0	0	0
33-3010	Bailiffs, Correctional	28	High school diploma	0	0	0	0	0	0	0	0

OCCSOC	Occupation	Annual Openings	Required Education for Openings	Unemployed In Occupation With Openings	Unemployed Whose Education Match Occupational Requirement	01 < HS\GED	02 HS\GED	03 Some College- OUT	04 Some College- Attending	05 AA	06 BA or up
	Officers, and Jailers		or equivalent								
33-1011	First-Line Supervisors of Correctional Officers	6	High school diploma or equivalent	0	0	0	0	0	0	0	0
31-9092	Medical Assistants	8	Postsecondary non- degree award	0	0	0	0	0	0	0	0
31-1010	Nursing, Psychiatric, and Home Health Aides	29	Less than high school	0	0	0	0	0	0	0	0
29-2061	Licensed Practical and Licensed Vocational Nurses	10	Postsecondary non- degree award	48	0	0	0	0	0	0	0
29-1141	Nurse Practitioners, and Nurse Midwives	50	Associate's degree	0	0	0	0	0	0	0	0
25-9041	Teacher Assistants	20	Some college, no degree	40	0	0	0	0	0	0	0
25-3000	Other Teachers and Instructors	6	Bachelor's degree	17	0	0	0	0	0	0	0
25-2030	Secondary School Teachers	14	Bachelor's degree	0	0	0	0	0	0	0	0
25-2020	Elementary and Middle School Teachers	42	Bachelor's degree	69	69	0	0	0	0	0	69
25-2010	Preschool and Kindergarten Teachers	12	Associate's degree	0	0	0	0	0	0	0	0
25-1000	Postsecondary Teachers	7	Doctoral or professional degree	0	0	0	0	0	0	0	0
21-1093	Social and Human Service Assistants	14	High school diploma or equivalent	0	0	0	0	0	0	0	0
13-2011	Accountants and Auditors	8	Bachelor's degree	0	0	0	0	0	0	0	0
13-1199	Business Operations Specialists, All Other	7	High school diploma or equivalent	0	0	0	0	0	0	0	0
11-9111	Medical and Health Services Managers	6	Bachelor's degree	0	0	0	0	0	0	0	0

OCCSOC	Occupation	Annual Openings	Required Education for Openings	Unemployed In Occupation With Openings	Unemployed Whose Education Match Occupational Requirement	01 < HS\GED	02 HS\GED	03 Some College- OUT	04 Some College- Attending	05 AA	06 BA or up
11-9013	Farmers, Ranchers, and Other Agricultural Managers	15	High school diploma or equivalent	41	29	0	29	0	0	0	0
11-1021	General and Operations Managers	20	Bachelor's degree	28	0	0	0	0	0	0	0
17-2051	Operating engineers/civil engineers	3	Bachelor's degree	0	0	0	0	0	0	0	0
47-1011	First-line supervisors/managers of construction trades and extraction workers	9	High school diploma or equivalent	57	0	0	0	0	0	0	0
47-2061	Construction laborers	26	Less than high school	148	100	60	41	0	0	0	0
47-207X	Other construction equipment operators	11	High school diploma or equivalent	0	0	0	0	0	0	0	0
47-2031	Carpenters	4	High school diploma or equivalent	16	0	0	0	0	0	0	0
53-7051	Truck drivers, heavy and tractor-trailer	5	Less than high school	28	28	0	28	0	0	0	0

Source: ADE, based on EMSI and US Census ACS 2012-2014 (from iPUMS)

**Appendix Table 16 — Part-Time Labor Force-to-Job Openings Skills Match Madera County**

OCCSOC	Occupation	Annual Openings	Required Education for Openings	Part-Time LF In Occupation With Openings	Part-Time LF Whose Education Match Occupational Requirement	01 < HS\GED	02 HS\GED	03 Some College-OUT	04 Some College-Attending	05 AA	06 BA or up
	<b>Total</b>	<b>1,610</b>		<b>18,215</b>	<b>7,178</b>	<b>1,887</b>	<b>3,682</b>	<b>1,114</b>	<b>39</b>	<b>115</b>	<b>340</b>
53-7064	Packers and Packagers, Hand	14	Less than high school	111	111	59	52	0	0	0	0
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	29	Less than high school	94	0	0	0	0	0	0	0
53-7061	Cleaners of Vehicles and Equipment	12	Less than high school	26	26	26	0	0	0	0	0
53-7051	Industrial Truck and Tractor Operators	11	Less than high school	58	46	46	0	0	0	0	0
53-3030	Driver/Sales Workers and Truck Drivers	25	High school diploma or equivalent	325	55	0	32	23	0	0	0
53-1000	Supervisors of Transportation and Material Moving Workers	5	High school diploma or equivalent	0	0	0	0	0	0	0	0
51-91XX	Other production workers including semiconductor processors and cooling and freezing equipment operators	7	Associate's degree	74	0	0	0	0	0	0	0
51-9198	Helpers--Production Workers	16	Less than high school	0	0	0	0	0	0	0	0
51-9111	Packaging and Filling Machine Operators and Tenders	29	High school diploma or equivalent	0	0	0	0	0	0	0	0
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	6	High school diploma or equivalent	24	0	0	0	0	0	0	0
51-4120	Welding, Soldering,	5	High school diploma	20	20	0	0	20	0	0	0

OCCSOC	Occupation	Annual Openings	Required Education for Openings	Part-Time LF In Occupation With Openings	Part-Time LF Whose Education Match Occupational Requirement	01 < HS\GED	02 HS\GED	03 Some College-OUT	04 Some College-Attending	05 AA	06 BA or up
	and Brazing Workers		or equivalent								
51-4041	Machinists	7	High school diploma or equivalent	0	0	0	0	0	0	0	0
51-3020	Butchers and Other Meat, Poultry, and Fish Processing Workers	18	Less than high school	52	0	0	0	0	0	0	0
51-2090	Miscellaneous Assemblers and Fabricators	10	High school diploma or equivalent	0	0	0	0	0	0	0	0
51-1011	First-Line Supervisors of Production and Operating Workers	7	Postsecondary non-degree award	0	0	0	0	0	0	0	0
49-9071	Maintenance and Repair Workers, General	17	High school diploma or equivalent	44	0	0	0	0	0	0	0
49-904X	Industrial and Refractory Machinery Mechanic	10	High school diploma or equivalent	0	0	0	0	0	0	0	0
49-3023	Automotive Service Technicians and Mechanics	7	High school diploma or equivalent	285	234	0	90	144	0	0	0
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	5	High school diploma or equivalent	0	0	0	0	0	0	0	0
47-XXXX	Miscellaneous Construction Workers Including Solar Photovoltaic Installers, and Septic Tank Servicers and Sewer Pipe Cleaners	5	High school diploma or equivalent	0	0	0	0	0	0	0	0
47-2111	Electricians	5	High school diploma	30	30	0	30	0	0	0	0



OCCSOC	Occupation	Annual Openings	Required Education for Openings	Part-Time LF In Occupation With Openings	Part-Time LF Whose Education Match Occupational Requirement	01 < HS\GED	02 HS\GED	03 Some College-OUT	04 Some College-Attending	05 AA	06 BA or up
			or equivalent								
47-2061	Construction Laborers	8	Less than high school	249	201	157	44	0	0	0	0
45-20XX	Miscellaneous agricultural workers including animal breeders	326	High school diploma or equivalent	5,275	554	0	449	105	0	0	0
45-2041	Graders and Sorters, Agricultural Products	12	Less than high school	156	156	118	38	0	0	0	0
45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers	10	High school diploma or equivalent	22	0	0	0	0	0	0	0
43-9061	Office Clerks, General	22	High school diploma or equivalent	93	49	0	0	49	0	0	0
43-6010	Secretaries and Administrative Assistants	24	High school diploma or equivalent	438	246	0	98	148	0	0	0
43-5081	Stock Clerks and Order Fillers	20	Less than high school	277	277	96	181	0	0	0	0
43-5071	Shipping, Receiving, and Traffic Clerks	8	High school diploma or equivalent	0	0	0	0	0	0	0	0
43-4171	Receptionists and Information Clerks	10	High school diploma or equivalent	39	0	0	0	0	0	0	0
43-4081	Hotel, Motel, and Resort Desk Clerks	11	High school diploma or equivalent	194	194	0	101	92	0	0	0
43-4051	Customer Service Representatives	19	High school diploma or equivalent	388	169	0	90	79	0	0	0
43-3071	Tellers	7	High school diploma or equivalent	29	29	0	0	29	0	0	0
43-3031	Bookkeeping, Accounting, and Auditing Clerks	11	High school diploma or equivalent	91	81	0	81	0	0	0	0
43-3021	Billing and Posting Clerks	5	High school diploma or equivalent	0	0	0	0	0	0	0	0

OCCSOC	Occupation	Annual Openings	Required Education for Openings	Part-Time LF In Occupation With Openings	Part-Time LF Whose Education Match Occupational Requirement	01 < HS\GED	02 HS\GED	03 Some College- OUT	04 Some College- Attending	05 AA	06 BA or up
43-1011	First-Line Supervisors of Office and Administrative Support Workers	14	High school diploma or equivalent	29	29	0	0	29	0	0	0
41-4010	Sales Representatives, Wholesale and Manufacturing	11	Bachelor's degree	137	0	0	0	0	0	0	0
41-3099	Sales Representatives, Services, All Other	6	High school diploma or equivalent	30	30	0	30	0	0	0	0
41-2031	Retail Salespersons	48	Less than high school	609	313	145	168	0	0	0	0
41-2021	Counter and Rental Clerks	6	Less than high school	40	0	0	0	0	0	0	0
41-2010	Cashiers	62	Less than high school	1,302	602	343	259	0	0	0	0
41-1011	First-Line Supervisors of Retail Sales Workers	10	High school diploma or equivalent	149	113	0	56	57	0	0	0
39-9021	Personal Care Aides	35	Less than high school	704	415	158	257	0	0	0	0
39-9011	Childcare Workers	22	High school diploma or equivalent	558	308	0	181	127	0	0	0
39-3090	Miscellaneous Entertainment Attendants and Related Workers	5	Less than high school	45	45	0	45	0	0	0	0
37-3010	Grounds Maintenance Workers	12	Less than high school	388	388	245	143	0	0	0	0
37-2012	Maids and Housekeeping Cleaners	17	Less than high school	115	81	81	0	0	0	0	0
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	78	Less than high school	0	0	0	0	0	0	0	0

OCCSOC	Occupation	Annual Openings	Required Education for Openings	Part-Time LF In Occupation With Openings	Part-Time LF Whose Education Match Occupational Requirement	01 < HS\GED	02 HS\GED	03 Some College-OUT	04 Some College-Attending	05 AA	06 BA or up
35-90XX	Miscellaneous food preparation and serving related workers incl. dining room\cafeteria attendants, bartender helpers	6	Less than high school	50	0	0	0	0	0	0	0
35-9031	Host and Hostesses, Restaurant, Lounge, and Coffee Shop	7	Less than high school	151	31	17	13	0	0	0	0
35-9021	Dishwashers	8	Less than high school	110	35	0	35	0	0	0	0
35-3031	Waiters and Waitresses	26	Less than high school	460	69	26	43	0	0	0	0
35-3022	Counter Attendant, Cafeteria, Food Concession, and Coffee Shop	7	Less than high school	46	46	0	46	0	0	0	0
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	62	Less than high school	507	443	22	421	0	0	0	0
35-2021	Food Preparation Workers	11	Less than high school	274	126	42	84	0	0	0	0
35-2010	Cooks	23	Less than high school	246	203	104	99	0	0	0	0
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	11	High school diploma or equivalent	0	0	0	0	0	0	0	0
33-9030	Security Guards and Gaming Surveillance Officers	15	High school diploma or equivalent	92	57	0	23	34	0	0	0
33-3050	Police Officers	7	High school diploma or equivalent	0	0	0	0	0	0	0	0
33-3010	Bailiffs, Correctional	28	High school diploma	17	0	0	0	0	0	0	0

OCCSOC	Occupation	Annual Openings	Required Education for Openings	Part-Time LF In Occupation With Openings	Part-Time LF Whose Education Match Occupational Requirement	01 < HS\GED	02 HS\GED	03 Some College-OUT	04 Some College-Attending	05 AA	06 BA or up
	Officers, and Jailers		or equivalent								
33-1011	First-Line Supervisors of Correctional Officers	6	High school diploma or equivalent	0	0	0	0	0	0	0	0
31-9092	Medical Assistants	8	Postsecondary non-degree award	132	132	0	0	132	0	0	0
31-1010	Nursing, Psychiatric, and Home Health Aides	29	Less than high school	586	369	0	369	0	0	0	0
29-2061	Licensed Practical and Licensed Vocational Nurses	10	Postsecondary non-degree award	54	54	0	0	15	39	0	0
29-1141	Nurse Practitioners, and Nurse Midwives	50	Associate's degree	93	93	0	0	0	0	93	0
25-9041	Teacher Assistants	20	Some college, no degree	225	0	0	0	0	0	0	0
25-3000	Other Teachers and Instructors	6	Bachelor's degree	397	0	0	0	0	0	0	0
25-2030	Secondary School Teachers	14	Bachelor's degree	34	0	0	0	0	0	0	0
25-2020	Elementary and Middle School Teachers	42	Bachelor's degree	453	340	0	0	0	0	0	340
25-2010	Preschool and Kindergarten Teachers	12	Associate's degree	47	22	0	0	0	0	22	0
25-1000	Postsecondary Teachers	7	Doctoral or professional degree	0	0	0	0	0	0	0	0
21-1093	Social and Human Service Assistants	14	High school diploma or equivalent	0	0	0	0	0	0	0	0
13-2011	Accountants and Auditors	8	Bachelor's degree	16	0	0	0	0	0	0	0
13-1199	Business Operations Specialists, All Other	7	High school diploma or equivalent	0	0	0	0	0	0	0	0
11-9111	Medical and Health Services Managers	6	Bachelor's degree	0	0	0	0	0	0	0	0

OCCSOC	Occupation	Annual Openings	Required Education for Openings	Part-Time LF In Occupation With Openings	Part-Time LF Whose Education Match Occupational Requirement	01 < HS\GED	02 HS\GED	03 Some College- OUT	04 Some College- Attending	05 AA	06 BA or up
11-9013	Farmers, Ranchers, and Other Agricultural Managers	15	High school diploma or equivalent	1,712	59	0	59	0	0	0	0
11-1021	General and Operations Managers	20	Bachelor's degree	0	0	0	0	0	0	0	0
17-2051	Operating engineers/civil engineers	3	Bachelor's degree	6	0	0	0	0	0	0	0
47-1011	First-line supervisors/managers of construction trades and extraction workers	9	High school diploma or equivalent	2	30	0	0	30	0	0	0
47-2061	Construction laborers	26	Less than high school	1	201	157	44	0	0	0	0
47-207X	Other construction equipment operators	11	High school diploma or equivalent	2	0	0	0	0	0	0	0
47-2031	Carpenters	4	High school diploma or equivalent	2	20	0	20	0	0	0	0
53-7051	Truck drivers, heavy and tractor-trailer	5	Less than high school	1	46	46	0	0	0	0	0

**Appendix Table 17 — Population by Age, Race\Ethnicity, and Educational Attainment Madera County (source: US Census ACS 3-Year Sample 2012-2014 [via iPUMS])**

	<b>0-15</b>	<b>16-19</b>	<b>20-24</b>	<b>25-29</b>	<b>30-34</b>	<b>35-54</b>	<b>55-64</b>	<b>65+</b>	<b>Total</b>
<b>Total</b>	<b>37,854</b>	<b>9,381</b>	<b>11,139</b>	<b>10,913</b>	<b>10,212</b>	<b>37,942</b>	<b>16,664</b>	<b>18,835</b>	<b>152,940</b>
<b>White</b>	<b>8,083</b>	<b>2,284</b>	<b>2,551</b>	<b>2,829</b>	<b>2,747</b>	<b>14,084</b>	<b>9,644</b>	<b>13,045</b>	<b>55,268</b>
Did not earn HSD\GED	6,673	1,312	154	216	268	866	716	1,721	<b>11,926</b>
HSD\GED	0	549	750	465	1,059	3,596	3,111	3,824	<b>13,354</b>
Some college -- not attending	0	90	730	1,572	917	5,007	2,862	3,993	<b>15,170</b>
Some college -- attending	0	333	677	119	19	74	23	50	<b>1,294</b>
AA	0	0	147	283	231	1,768	1,168	1,105	<b>4,703</b>
BA+	0	0	94	175	254	2,772	1,764	2,353	<b>7,411</b>
NA	1,410	0	0	0	0	0	0	0	<b>1,410</b>
<b>Latino</b>	<b>27,413</b>	<b>6,221</b>	<b>7,968</b>	<b>6,874</b>	<b>6,490</b>	<b>19,889</b>	<b>5,665</b>	<b>4,472</b>	<b>84,992</b>
Did not earn HSD\GED	21,972	4,471	2,511	2,915	3,043	9,739	2,890	3,064	<b>50,606</b>
HSD\GED	0	756	2,206	1,425	1,527	4,970	1,016	630	<b>12,529</b>
Some college -- not attending	0	208	1,314	1,194	1,106	3,187	835	521	<b>8,365</b>
Some college -- attending	0	786	1,297	207	41	157	33	0	<b>2,522</b>
AA	0	0	340	547	494	655	457	102	<b>2,595</b>
BA+	0	0	300	587	279	1,180	433	156	<b>2,934</b>
NA	5,441	0	0	0	0	0	0	0	<b>5,441</b>
<b>Other</b>	<b>2,358</b>	<b>876</b>	<b>620</b>	<b>1,209</b>	<b>975</b>	<b>3,970</b>	<b>1,355</b>	<b>1,318</b>	<b>12,680</b>
Did not earn HSD\GED	1,904	264	86	139	78	980	105	118	<b>3,676</b>
HSD\GED	0	524	176	552	374	1,430	248	381	<b>3,684</b>
Some college -- not attending	0	0	144	187	437	541	205	342	<b>1,857</b>
Some college -- attending	0	88	104	60	0	121	64	0	<b>437</b>
AA	0	0	109	65	19	197	165	193	<b>748</b>
BA+	0	0	0	207	67	701	568	284	<b>1,826</b>
NA	454	0	0	0	0	0	0	0	<b>454</b>

**Appendix Table 18 — Employed Labor Force by Age, Race\Ethnicity, and Educational Attainment (Persons 25 and Over) Madera County**

	<b>16-19</b>	<b>20-24</b>	<b>25-29</b>	<b>30-34</b>	<b>35-54</b>	<b>55-64</b>	<b>65+</b>	<b>Total</b>
<b>Total</b>	<b>2,185</b>	<b>5,849</b>	<b>5,886</b>	<b>5,481</b>	<b>24,169</b>	<b>7,409</b>	<b>2,224</b>	<b>53,204</b>
<b>White</b>	<b>454</b>	<b>1,193</b>	<b>1,701</b>	<b>1,340</b>	<b>8,639</b>	<b>4,203</b>	<b>1,726</b>	<b>19,257</b>
Did not earn HSD\GED	56	0	21	161	245	108	54	<b>645</b>
HSD\GED	207	345	319	462	1,869	1,600	399	<b>5,201</b>
Some college -- not attending	90	423	879	314	3,203	1,151	399	<b>6,459</b>
Some college -- attending	101	237	119	19	38	23	7	<b>543</b>
AA	0	95	246	129	1,014	448	322	<b>2,254</b>
BA+	0	94	117	254	2,271	873	546	<b>4,155</b>
<b>Latino</b>	<b>1,259</b>	<b>4,447</b>	<b>3,896</b>	<b>3,785</b>	<b>14,190</b>	<b>2,511</b>	<b>422</b>	<b>30,511</b>
Did not earn HSD\GED	730	1,488	1,800	2,109	6,928	1,328	137	<b>14,520</b>
HSD\GED	258	1,280	629	720	3,307	353	49	<b>6,595</b>
Some college -- not attending	123	778	800	486	2,360	291	150	<b>4,988</b>
Some college -- attending	149	714	0	41	127	0	0	<b>1,030</b>
AA	0	94	404	251	412	133	54	<b>1,347</b>
BA+	0	94	264	178	1,055	406	33	<b>2,030</b>
<b>Other</b>	<b>472</b>	<b>209</b>	<b>289</b>	<b>357</b>	<b>1,339</b>	<b>695</b>	<b>75</b>	<b>3,436</b>
Did not earn HSD\GED	0	0	0	0	141	0	25	<b>166</b>
HSD\GED	472	0	19	0	212	68	17	<b>788</b>
Some college -- not attending	0	92	26	271	222	131	7	<b>749</b>
Some college -- attending	0	7	25	0	40	0	0	<b>72</b>
AA	0	109	13	19	58	107	0	<b>306</b>
BA+	0	0	207	67	666	389	25	<b>1,355</b>

Source: Applied Development Economics, based on US Census ACS Public Use Microdata 2012-2014 from iPUMS

**Appendix Table 19 — Full-Time Employed Labor Force by Age, Race\Ethnicity, and Educational Attainment (Persons 25 and Over)  
Madera County**

	<b>16-19</b>	<b>20-24</b>	<b>25-29</b>	<b>30-34</b>	<b>35-54</b>	<b>55-64</b>	<b>65+</b>	<b>Total</b>
<b>Total</b>	<b>263</b>	<b>1,885</b>	<b>2,616</b>	<b>3,063</b>	<b>16,390</b>	<b>5,113</b>	<b>985</b>	<b>30,317</b>
<b>White</b>	<b>0</b>	<b>288</b>	<b>1,046</b>	<b>1,004</b>	<b>6,987</b>	<b>2,875</b>	<b>724</b>	<b>12,924</b>
Did not earn HSD\GED	0	0	0	161	89	60	28	<b>338</b>
HSD\GED	0	138	286	255	1,352	895	144	<b>3,070</b>
Some college -- not attending	0	30	636	285	2,784	909	172	<b>4,815</b>
Some college -- attending	0	51	48	19	19	23	7	<b>167</b>
AA	0	40	52	85	768	233	121	<b>1,299</b>
BA+	0	30	25	199	1,975	754	252	<b>3,235</b>
<b>Latino</b>	<b>183</b>	<b>1,488</b>	<b>1,509</b>	<b>1,787</b>	<b>8,285</b>	<b>1,783</b>	<b>211</b>	<b>15,246</b>
Did not earn HSD\GED	52	324	318	754	2,995	958	107	<b>5,508</b>
HSD\GED	0	434	411	511	2,583	178	14	<b>4,130</b>
Some college -- not attending	41	502	387	256	1,575	170	73	<b>3,005</b>
Some college -- attending	91	191	0	25	9	0	0	<b>316</b>
AA	0	37	322	144	188	133	0	<b>824</b>
BA+	0	0	71	97	934	344	16	<b>1,463</b>
<b>Other</b>	<b>80</b>	<b>109</b>	<b>61</b>	<b>273</b>	<b>1,118</b>	<b>456</b>	<b>51</b>	<b>2,147</b>
Did not earn HSD\GED	0	0	0	0	119	0	25	<b>144</b>
HSD\GED	80	0	0	0	179	24	0	<b>283</b>
Some college -- not attending	0	0	26	271	174	26	0	<b>497</b>
Some college -- attending	0	0	0	0	40	0	0	<b>40</b>
AA	0	109	13	2	58	59	0	<b>241</b>
BA+	0	0	22	0	548	346	25	<b>942</b>

Source: Applied Development Economics, based on US Census ACS Public Use Microdata 2012-2014 from iPUMS



**Appendix Table 20 — Labor Force by Gender, Age, and Educational Attainment: Population Madera County**

	<b>0-15</b>	<b>16-19</b>	<b>20-24</b>	<b>25-29</b>	<b>30-34</b>	<b>35-54</b>	<b>55-64</b>	<b>65+</b>	<b>Total</b>
<b>Total</b>	<b>37,854</b>	<b>9,381</b>	<b>11,139</b>	<b>10,913</b>	<b>10,212</b>	<b>37,942</b>	<b>16,664</b>	<b>18,835</b>	<b>152,940</b>
<b>Men</b>	<b>19,067</b>	<b>4,745</b>	<b>5,733</b>	<b>4,800</b>	<b>4,504</b>	<b>17,454</b>	<b>8,071</b>	<b>8,741</b>	<b>73,116</b>
Did not earn HSD\GED	15,288	3,301	1,666	1,692	1,879	6,234	1,818	2,293	<b>34,172</b>
HSD\GED	0	804	1,402	1,330	1,379	4,279	2,375	1,772	<b>13,341</b>
Some college -- not attending	0	149	1,010	1,032	825	3,976	1,773	2,198	<b>10,962</b>
Some college -- attending	0	492	1,022	91	41	157	23	8	<b>1,834</b>
AA	0	0	349	445	107	899	600	860	<b>3,260</b>
BA+	0	0	284	210	273	1,908	1,482	1,610	<b>5,766</b>
NA	3,780	0	0	0	0	0	0	0	<b>3,780</b>
<b>Women</b>	<b>18,787</b>	<b>4,636</b>	<b>5,405</b>	<b>6,113</b>	<b>5,708</b>	<b>20,489</b>	<b>8,593</b>	<b>10,094</b>	<b>79,825</b>
Did not earn HSD\GED	15,262	2,746	1,085	1,577	1,511	5,352	1,893	2,610	<b>32,036</b>
HSD\GED	0	1,025	1,730	1,112	1,580	5,717	2,000	3,063	<b>16,226</b>
Some college -- not attending	0	150	1,178	1,920	1,635	4,759	2,129	2,658	<b>14,429</b>
Some college -- attending	0	715	1,056	295	19	195	96	41	<b>2,419</b>
AA	0	0	247	450	637	1,721	1,191	540	<b>4,786</b>
BA+	0	0	110	758	327	2,745	1,282	1,182	<b>6,405</b>
NA	3,525	0	0	0	0	0	0	0	<b>3,525</b>

Source: Applied Development Economics, based on US Census ACS Public Use Microdata 2012-2014 from iPUMS (Note: "NA" refers to infants not enrolled in school or pre-school)

**Appendix Table 21 — Labor Force by Age, Gender, and Educational Attainment (Persons 25 and Over) Madera County**

	<b>16-19</b>	<b>20-24</b>	<b>25-29</b>	<b>30-34</b>	<b>35-54</b>	<b>55-64</b>	<b>65+</b>	<b>Total</b>
<b>Total</b>	<b>2,749</b>	<b>7,196</b>	<b>6,728</b>	<b>5,769</b>	<b>25,543</b>	<b>8,102</b>	<b>2,383</b>	<b>58,471</b>
<b>Men</b>	<b>1,375</b>	<b>3,977</b>	<b>3,974</b>	<b>3,124</b>	<b>13,782</b>	<b>4,440</b>	<b>1,318</b>	<b>31,990</b>
Did not earn HSD\GED	347	1,070	1,466	1,705	5,292	1,091	117	<b>11,088</b>
HSD\GED	630	1,134	944	626	2,952	1,248	260	<b>7,792</b>
Some college -- not attending	149	698	986	411	3,046	973	358	<b>6,621</b>
Some college -- attending	250	700	34	41	157	23	0	<b>1,206</b>
AA	0	221	364	107	498	221	220	<b>1,631</b>
BA+	0	154	180	234	1,837	883	364	<b>3,651</b>
<b>Women</b>	<b>1,374</b>	<b>3,220</b>	<b>2,754</b>	<b>2,646</b>	<b>11,761</b>	<b>3,662</b>	<b>1,064</b>	<b>26,481</b>
Did not earn HSD\GED	453	470	411	673	2,450	408	113	<b>4,979</b>
HSD\GED	612	1,039	195	696	2,676	852	206	<b>6,276</b>
Some college -- not attending	64	845	1,031	700	3,069	1,083	277	<b>7,070</b>
Some college -- attending	245	680	109	19	159	0	7	<b>1,219</b>
AA	0	117	398	292	1,092	507	200	<b>2,606</b>
BA+	0	68	609	266	2,315	813	261	<b>4,331</b>

Source: Applied Development Economics, based on US Census ACS Public Use Microdata 2012-2014 from iPUMS

**Appendix Table 22 — Employed Labor Force by Age, Gender, and Educational Attainment (Persons 25 and Over) Madera County**

	<b>16-19</b>	<b>20-24</b>	<b>25-29</b>	<b>30-34</b>	<b>35-54</b>	<b>55-64</b>	<b>65+</b>	<b>Total</b>
<b>Total</b>	<b>2,185</b>	<b>5,849</b>	<b>5,886</b>	<b>5,481</b>	<b>24,169</b>	<b>7,409</b>	<b>2,224</b>	<b>53,204</b>
<b>Men</b>	<b>1,093</b>	<b>3,061</b>	<b>3,631</b>	<b>3,005</b>	<b>13,085</b>	<b>4,154</b>	<b>1,239</b>	<b>29,269</b>
Did not earn HSD\GED	333	1,017	1,443	1,641	5,050	1,051	102	<b>10,636</b>
HSD\GED	452	755	868	572	2,870	1,168	260	<b>6,945</b>
Some college -- not attending	149	505	863	411	2,839	808	358	<b>5,933</b>
Some college -- attending	160	443	34	41	127	23	0	<b>828</b>
AA	0	221	352	107	455	221	175	<b>1,531</b>
BA+	0	120	71	234	1,744	883	343	<b>3,395</b>
<b>Women</b>	<b>1,092</b>	<b>2,788</b>	<b>2,255</b>	<b>2,476</b>	<b>11,084</b>	<b>3,255</b>	<b>985</b>	<b>23,935</b>
Did not earn HSD\GED	453	470	378	629	2,264	386	113	<b>4,694</b>
HSD\GED	484	869	99	611	2,518	852	206	<b>5,639</b>
Some college -- not attending	64	788	843	659	2,947	765	198	<b>6,264</b>
Some college -- attending	90	515	109	19	78	0	7	<b>818</b>
AA	0	77	310	292	1,029	467	200	<b>2,376</b>
BA+	0	68	516	266	2,248	785	261	<b>4,144</b>

Source: Applied Development Economics, based on US Census ACS Public Use Microdata 2012-2014 from iPUMS

**Appendix Table 23 — Part-Time Employed Labor Force by Age, Gender, and Educational Attainment (Persons 25 and Over) Madera County**

	<b>16-19</b>	<b>20-24</b>	<b>25-29</b>	<b>30-34</b>	<b>35-54</b>	<b>55-64</b>	<b>65+</b>	<b>Total</b>
<b>Total</b>	<b>1,922</b>	<b>3,964</b>	<b>3,270</b>	<b>2,418</b>	<b>7,778</b>	<b>2,296</b>	<b>1,238</b>	<b>22,887</b>
<b>Men</b>	<b>864</b>	<b>1,877</b>	<b>1,977</b>	<b>1,236</b>	<b>3,515</b>	<b>879</b>	<b>507</b>	<b>10,856</b>
Did not earn HSD\GED	281	693	1,124	863	2,455	155	0	<b>5,571</b>
HSD\GED	373	408	237	138	407	367	128	<b>2,057</b>
Some college -- not attending	108	228	347	98	406	177	171	<b>1,534</b>
Some college -- attending	103	346	34	15	118	0	0	<b>617</b>
AA	0	112	235	35	33	68	98	<b>580</b>
BA+	0	90	0	87	95	112	111	<b>496</b>
<b>Women</b>	<b>1,058</b>	<b>2,087</b>	<b>1,293</b>	<b>1,182</b>	<b>4,263</b>	<b>1,417</b>	<b>731</b>	<b>12,031</b>
Did not earn HSD\GED	453	470	378	492	1,657	264	56	<b>3,770</b>
HSD\GED	484	646	34	279	866	556	180	<b>3,044</b>
Some college -- not attending	64	533	310	161	846	291	140	<b>2,346</b>
Some college -- attending	56	369	61	0	19	0	0	<b>506</b>
AA	0	0	41	134	437	195	157	<b>963</b>
BA+	0	68	469	116	439	111	199	<b>1,403</b>

Source: Applied Development Economics, based on US Census ACS Public Use Microdata 2012-2014 from iPUMS

**Appendix Table 24 — Unemployed Labor Force by Age, Gender, and Educational Attainment (Persons 25 and Over) Madera County**

	<b>16-19</b>	<b>20-24</b>	<b>25-29</b>	<b>30-34</b>	<b>35-54</b>	<b>55-64</b>	<b>65+</b>	<b>Total</b>
<b>Total</b>	<b>564</b>	<b>1,347</b>	<b>841</b>	<b>288</b>	<b>1,374</b>	<b>693</b>	<b>159</b>	<b>5,267</b>
<b>Men</b>	<b>282</b>	<b>915</b>	<b>342</b>	<b>118</b>	<b>698</b>	<b>286</b>	<b>80</b>	<b>2,721</b>
Did not earn HSD\GED	14	53	23	64	242	41	14	<b>451</b>
HSD\GED	177	378	76	54	82	80	0	<b>847</b>
Some college -- not attending	0	193	123	0	208	165	0	<b>688</b>
Some college -- attending	90	257	0	0	30	0	0	<b>378</b>
AA	0	0	12	0	43	0	45	<b>100</b>
BA+	0	34	108	0	93	0	20	<b>256</b>
<b>Women</b>	<b>283</b>	<b>432</b>	<b>499</b>	<b>170</b>	<b>677</b>	<b>407</b>	<b>79</b>	<b>2,546</b>
Did not earn HSD\GED	0	0	33	44	186	22	0	<b>285</b>
HSD\GED	128	170	96	85	158	0	0	<b>637</b>
Some college -- not attending	0	57	188	41	123	318	79	<b>806</b>
Some college -- attending	155	165	0	0	81	0	0	<b>401</b>
AA	0	40	88	0	62	40	0	<b>230</b>
BA+	0	0	93	0	67	27	0	<b>187</b>

Source: Applied Development Economics, based on US Census ACS Public Use Microdata 2012-2014 from iPUMS

**Appendix Table 25 — Unemployment Rates by Age, Gender, and Educational Attainment Madera County**

	<b>16-19</b>	<b>20-24</b>	<b>25-29</b>	<b>30-34</b>	<b>35-54</b>	<b>55-64</b>	<b>65+</b>	<b>Total</b>
	20.5%	18.7%	12.5%	5.0%	5.4%	8.6%	6.7%	<b>9.0%</b>
<b>Men</b>	<b>20.5%</b>	<b>23.0%</b>	<b>8.6%</b>	<b>3.8%</b>	<b>5.1%</b>	<b>6.4%</b>	<b>6.0%</b>	<b>8.5%</b>
Did not earn HSD\GED	4.0%	4.9%	1.6%	3.8%	4.6%	3.7%	12.3%	<b>4.1%</b>
HSD\GED	28.2%	33.4%	8.1%	8.6%	2.8%	6.4%	0.0%	<b>10.9%</b>
Some college -- not attending	0.0%	27.6%	12.5%	0.0%	6.8%	17.0%	0.0%	<b>10.4%</b>
Some college -- attending	36.1%	36.7%	0.0%	0.0%	19.1%	0.0%	NA	<b>31.3%</b>
AA	NA	0.0%	3.2%	0.0%	8.7%	0.0%	20.5%	<b>6.1%</b>
BA+	NA	22.3%	60.3%	0.0%	5.1%	0.0%	5.6%	<b>7.0%</b>
<b>Women</b>	<b>20.6%</b>	<b>13.4%</b>	<b>18.1%</b>	<b>6.4%</b>	<b>5.8%</b>	<b>11.1%</b>	<b>7.5%</b>	<b>9.6%</b>
Did not earn HSD\GED	0.0%	0.0%	8.1%	6.5%	7.6%	5.5%	0.0%	<b>5.7%</b>
HSD\GED	20.9%	16.3%	49.3%	12.2%	5.9%	0.0%	0.0%	<b>10.1%</b>
Some college -- not attending	0.0%	6.7%	18.2%	5.9%	4.0%	29.3%	28.6%	<b>11.4%</b>
Some college -- attending	63.3%	24.3%	0.0%	0.0%	50.9%	NA	0.0%	<b>32.9%</b>
AA	NA	34.0%	22.2%	0.0%	5.7%	7.9%	0.0%	<b>8.8%</b>
BA+	NA	0.0%	15.3%	0.0%	2.9%	3.4%	0.0%	<b>4.3%</b>

Source: Applied Development Economics, based on US Census ACS Public Use Microdata 2012-2014 from iPUMS

**Appendix Table 26 — Population by Age, Disability Status, and Educational Attainment Madera County**

	<b>0-15</b>	<b>16-19</b>	<b>20-24</b>	<b>25-29</b>	<b>30-34</b>	<b>35-54</b>	<b>55-64</b>	<b>65+</b>	<b>Total</b>
<b>Total</b>	<b>37,854</b>	<b>9,381</b>	<b>11,139</b>	<b>10,913</b>	<b>10,212</b>	<b>37,942</b>	<b>16,664</b>	<b>18,835</b>	<b>152,940</b>
<b>No Reported Disability</b>	<b>37,559</b>	<b>8,993</b>	<b>10,343</b>	<b>9,463</b>	<b>8,841</b>	<b>31,954</b>	<b>12,305</b>	<b>9,812</b>	<b>129,270</b>
Did not earn HSD\GED	30,254	5,757	2,382	2,908	2,684	9,264	2,233	1,765	<b>57,247</b>
HSD\GED	0	1,730	2,999	1,866	2,561	8,513	3,414	2,732	<b>23,815</b>
Some college -- not attending	0	299	2,008	2,672	2,347	7,094	2,960	2,626	<b>20,005</b>
Some college -- attending	0	1,207	2,016	352	59	353	56	15	<b>4,059</b>
AA	0	0	544	895	636	2,194	1,339	691	<b>6,299</b>
BA+	0	0	394	770	555	4,536	2,302	1,983	<b>10,540</b>
NA	7,305	0	0	0	0	0	0	0	<b>7,305</b>
<b>At Least One Disability</b>	<b>295</b>	<b>389</b>	<b>795</b>	<b>1,449</b>	<b>1,372</b>	<b>5,988</b>	<b>4,359</b>	<b>9,023</b>	<b>23,671</b>
Did not earn HSD\GED	295	290	370	362	706	2,322	1,478	3,138	<b>8,961</b>
HSD\GED	0	99	132	575	399	1,483	961	2,103	<b>5,752</b>
Some college -- not attending	0	0	180	280	113	1,641	942	2,230	<b>5,386</b>
Some college -- attending	0	0	62	34	0	0	64	34	<b>194</b>
AA	0	0	52	0	108	426	452	709	<b>1,746</b>
BA+	0	0	0	198	45	116	462	809	<b>1,631</b>
NA	0	0	0	0	0	0	0	0	<b>0</b>

Source: Applied Development Economics, based on US Census ACS Public Use Microdata 2012-2014 from iPUMS

**Appendix Table 27 — Population by Age, Veteran Status, and Educational Attainment Madera County**

	0-15	16-19	20-24	25-29	30-34	35-54	55-64
<b>Total</b>	<b>37,854</b>	<b>9,381</b>	<b>11,139</b>	<b>10,913</b>	<b>10,212</b>	<b>37,942</b>	<b>16,664</b>
<b>Not Veterans</b>	<b>0</b>	<b>6,775</b>	<b>10,905</b>	<b>10,622</b>	<b>9,912</b>	<b>36,485</b>	<b>14,745</b>
Did not earn HSD\GED	0	3,440	2,751	3,270	3,297	11,586	3,589
HSD\GED	0	1,828	2,923	2,442	2,937	9,742	3,948
Some college -- not attending	0	299	2,188	2,853	2,321	8,066	3,322
Some college -- attending	0	1,207	2,052	352	59	353	120
AA	0	0	596	797	717	2,316	1,471
BA+	0	0	394	908	579	4,423	2,296
NA	0	0	0	0	0	0	0
<b>Veterans</b>	<b>0</b>	<b>0</b>	<b>234</b>	<b>291</b>	<b>301</b>	<b>1,457</b>	<b>1,919</b>
Did not earn HSD\GED	0	0	0	0	93	0	123
HSD\GED	0	0	208	0	22	254	428
Some college -- not attending	0	0	0	99	139	669	580
Some college -- attending	0	0	26	34	0	0	0
AA	0	0	0	97	27	304	319
BA+	0	0	0	60	20	230	468
NA	0	0	0	0	0	0	0
<b>Ineligible (i.e. youth &lt; 17)</b>	<b>37,854</b>	<b>2,607</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Did not earn HSD\GED	30,549	2,607	0	0	0	0	0
HSD\GED	0	0	0	0	0	0	0
Some college -- not attending	0	0	0	0	0	0	0
Some college -- attending	0	0	0	0	0	0	0
AA	0	0	0	0	0	0	0
BA+	0	0	0	0	0	0	0
NA	7,305	0	0	0	0	0	0



**Appendix Table 28 — Part-Time Employed Labor Force by Broad Occupation Categories, Educational Attainment and Management Status Madera County (source: US Census ACS 3-Year Sample 2012-2014 [via iPUMS])**

					Managers			
	Total	Sub-Total	<HS	HS	Some Coll OUT	Some Coll IN	AA	BA
Broad Occupational Categories	<b>17,001</b>	<b>2,030</b>	<b>1,438</b>	<b>205</b>	<b>142</b>	<b>0</b>	<b>70</b>	<b>175</b>
11 Management Occupations	<b>1,782</b>	<b>1,782</b>	1,416	205	26	0	70	64
13 Business Operations Specialists	<b>68</b>	<b>0</b>	0	0	0	0	0	0
13 Financial Specialists	<b>195</b>	<b>0</b>	0	0	0	0	0	0
15 Computer and Mathematical Occupations	<b>33</b>	<b>0</b>	0	0	0	0	0	0
17 Architecture and Engineering Occupations	<b>34</b>	<b>0</b>	0	0	0	0	0	0
19 Life, Physical, and Social Science Occupations	<b>83</b>	<b>0</b>	0	0	0	0	0	0
21 Community and Social Science Occupations	<b>1,346</b>	<b>43</b>	0	0	0	0	0	43
27 Arts, Design, Entertainment, Sports, and Media Occupations	<b>500</b>	<b>0</b>	0	0	0	0	0	0
29 Healthcare Practitioners and Technical Occupations	<b>533</b>	<b>67</b>	0	0	0	0	0	67
31 Healthcare Support Occupations	<b>652</b>	<b>0</b>	0	0	0	0	0	0
33 Protective Service Occupations	<b>133</b>	<b>0</b>	0	0	0	0	0	0
35 Food Preparation and Serving Occupations	<b>628</b>	<b>0</b>	0	0	0	0	0	0
37 Building and Ground Cleaning and Maintenance Occupations	<b>833</b>	<b>0</b>	0	0	0	0	0	0
39 Personal Care and Service Occupations	<b>1,427</b>	<b>0</b>	0	0	0	0	0	0
41 Sales Occupations	<b>1,129</b>	<b>57</b>	0	0	57	0	0	0
43 Office and Administrative Support Occupations	<b>1,616</b>	<b>29</b>	0	0	29	0	0	0
45 Farming, Fishing, and Forestry Occupations	<b>4,026</b>	<b>22</b>	22	0	0	0	0	0
47 Construction Trades	<b>532</b>	<b>30</b>	0	0	30	0	0	0
47 Extraction Workers	<b>0</b>	<b>0</b>	0	0	0	0	0	0
49 Installation, Maintenance, and Repair Workers	<b>391</b>	<b>0</b>	0	0	0	0	0	0
51 Production Occupations	<b>210</b>	<b>0</b>	0	0	0	0	0	0
53 Transportation and Material Moving Occupations	<b>850</b>	<b>0</b>	0	0	0	0	0	0
55 Military Specific Occupations	<b>0</b>	<b>0</b>	0	0	0	0	0	0
99 Long-Term Unemployed For More than 5 Years	<b>0</b>	<b>0</b>	0	0	0	0	0	0
99 NA	<b>0</b>	<b>0</b>	0	0	0	0	0	0

	<b>Specialists</b>						
	<b>Sub-Total</b>	<b>&lt;HS</b>	<b>HS</b>	<b>Some Coll OUT</b>	<b>Some Coll IN</b>	<b>AA</b>	<b>BA</b>
Broad Occupational Categories	<b>4,989</b>	<b>900</b>	<b>976</b>	<b>1,195</b>	<b>78</b>	<b>730</b>	<b>1,110</b>
11 Management Occupations	<b>0</b>	0	0	0	0	0	0
13 Business Operations Specialists	<b>68</b>	41	8	18	0	0	0
13 Financial Specialists	<b>195</b>	0	76	0	0	46	73
15 Computer and Mathematical Occupations	<b>33</b>	0	0	0	0	16	17
17 Architecture and Engineering Occupations	<b>34</b>	0	22	12	0	0	0
19 Life, Physical, and Social Science Occupations	<b>83</b>	0	0	0	0	0	83
21 Community and Social Science Occupations	<b>1,068</b>	0	64	241	19	257	488
27 Arts, Design, Entertainment, Sports, and Media Occupations	<b>500</b>	0	75	133	0	33	258
29 Healthcare Practitioners and Technical Occupations	<b>466</b>	0	32	63	0	277	94
31 Healthcare Support Occupations	<b>0</b>	0	0	0	0	0	0
33 Protective Service Occupations	<b>41</b>	17	0	0	0	0	24
35 Food Preparation and Serving Occupations	<b>258</b>	116	59	59	25	0	0
37 Building and Ground Cleaning and Maintenance Occupations	<b>12</b>	12	0	0	0	0	0
39 Personal Care and Service Occupations	<b>253</b>	0	118	135	0	0	0
41 Sales Occupations	<b>119</b>	0	0	59	0	60	0
43 Office and Administrative Support Occupations	<b>0</b>	0	0	0	0	0	0
45 Farming, Fishing, and Forestry Occupations	<b>0</b>	0	0	0	0	0	0
47 Construction Trades	<b>503</b>	88	137	205	34	0	38
47 Extraction Workers	<b>0</b>	0	0	0	0	0	0
49 Installation, Maintenance, and Repair Workers	<b>298</b>	95	90	113	0	0	0
51 Production Occupations	<b>210</b>	79	61	67	0	2	0
53 Transportation and Material Moving Occupations	<b>850</b>	451	235	91	0	38	35
55 Military Specific Occupations	<b>0</b>	0	0	0	0	0	0
99 Long-Term Unemployed For More than 5 Years	<b>0</b>	0	0	0	0	0	0
99 NA	<b>0</b>	0	0	0	0	0	0

**Appendix Table 29 — Unemployed Labor Force by Broad Occupation Categories, Educational Attainment and Management Status (excluding Long-Term Unemployed) Madera County (source: US Census ACS 3-Year Sample 2012-2014 [via iPUMS])**

	Support						
	Sub-Total	<HS	HS	Some Coll OUT	Some Coll IN	AA	BA
Broad Occupational Categories	<b>9,982</b>	<b>5,106</b>	<b>2,010</b>	<b>1,610</b>	<b>170</b>	<b>631</b>	<b>455</b>
11 Management Occupations	<b>0</b>	0	0	0	0	0	0
13 Business Operations Specialists	<b>0</b>	0	0	0	0	0	0
13 Financial Specialists	<b>0</b>	0	0	0	0	0	0
15 Computer and Mathematical Occupations	<b>0</b>	0	0	0	0	0	0
17 Architecture and Engineering Occupations	<b>0</b>	0	0	0	0	0	0
19 Life, Physical, and Social Science Occupations	<b>0</b>	0	0	0	0	0	0
21 Community and Social Science Occupations	<b>235</b>	0	76	65	0	46	49
27 Arts, Design, Entertainment, Sports, and Media Occupations	<b>0</b>	0	0	0	0	0	0
29 Healthcare Practitioners and Technical Occupations	<b>0</b>	0	0	0	0	0	0
31 Healthcare Support Occupations	<b>652</b>	0	269	231	0	152	0
33 Protective Service Occupations	<b>92</b>	0	23	34	0	0	35
35 Food Preparation and Serving Occupations	<b>370</b>	48	81	223	0	17	0
37 Building and Ground Cleaning and Maintenance Occupations	<b>822</b>	504	80	39	15	0	182
39 Personal Care and Service Occupations	<b>1,174</b>	380	465	238	0	52	39
41 Sales Occupations	<b>953</b>	248	100	407	13	135	50
43 Office and Administrative Support Occupations	<b>1,588</b>	178	724	332	24	230	100
45 Farming, Fishing, and Forestry Occupations	<b>4,004</b>	3,654	192	41	118	0	0
47 Construction Trades	<b>0</b>	0	0	0	0	0	0
47 Extraction Workers	<b>0</b>	0	0	0	0	0	0
49 Installation, Maintenance, and Repair Workers	<b>93</b>	93	0	0	0	0	0
51 Production Occupations	<b>0</b>	0	0	0	0	0	0
53 Transportation and Material Moving Occupations	<b>0</b>	0	0	0	0	0	0
55 Military Specific Occupations	<b>0</b>	0	0	0	0	0	0
99 Long-Term Unemployed For More than 5 Years	<b>0</b>	0	0	0	0	0	0
99 NA	<b>0</b>	0	0	0	0	0	0

		Managers						
	Total	Sub-Total	<HS	HS	Some Coll OUT	Some Coll IN	AA	BA
Broad Occupational Categories	3,356	371	0	29	227	0	21	94
11 Management Occupations	110	110	0	29	39	0	21	20
13 Business Operations Specialists	28	0	0	0	0	0	0	0
13 Financial Specialists	0	0	0	0	0	0	0	0
15 Computer and Mathematical Occupations	36	0	0	0	0	0	0	0
17 Architecture and Engineering Occupations	0	0	0	0	0	0	0	0
19 Life, Physical, and Social Science Occupations	0	0	0	0	0	0	0	0
21 Community and Social Science Occupations	126	0	0	0	0	0	0	0
27 Arts, Design, Entertainment, Sports, and Media Occupations	73	0	0	0	0	0	0	0
29 Healthcare Practitioners and Technical Occupations	74	0	0	0	0	0	0	0
31 Healthcare Support Occupations	0	0	0	0	0	0	0	0
33 Protective Service Occupations	0	0	0	0	0	0	0	0
35 Food Preparation and Serving Occupations	88	40	0	0	40	0	0	0
37 Building and Ground Cleaning and Maintenance Occupations	59	0	0	0	0	0	0	0
39 Personal Care and Service Occupations	373	0	0	0	0	0	0	0
41 Sales Occupations	423	138	0	0	92	0	0	46
43 Office and Administrative Support Occupations	456	27	0	0	0	0	0	27
45 Farming, Fishing, and Forestry Occupations	242	0	0	0	0	0	0	0
47 Construction Trades	307	57	0	0	57	0	0	0
47 Extraction Workers	0	0	0	0	0	0	0	0
49 Installation, Maintenance, and Repair Workers	69	0	0	0	0	0	0	0
51 Production Occupations	134	0	0	0	0	0	0	0
53 Transportation and Material Moving Occupations	191	0	0	0	0	0	0	0
55 Military Specific Occupations	0	0	0	0	0	0	0	0
99 Long-Term Unemployed For More than 5 Years	568	0	0	0	0	0	0	0
99 NA	0	0	0	0	0	0	0	0

	Specialists						
	Sub- Total	<HS	HS	Some Coll OUT	Some Coll IN	AA	BA
Broad Occupational Categories	<b>964</b>	<b>248</b>	<b>107</b>	<b>237</b>	<b>26</b>	<b>136</b>	<b>210</b>
11 Management Occupations	<b>0</b>	0	0	0	0	0	0
13 Business Operations Specialists	<b>28</b>	0	0	28	0	0	0
13 Financial Specialists	<b>0</b>	0	0	0	0	0	0
15 Computer and Mathematical Occupations	<b>36</b>	0	0	0	0	36	0
17 Architecture and Engineering Occupations	<b>0</b>	0	0	0	0	0	0
19 Life, Physical, and Social Science Occupations	<b>0</b>	0	0	0	0	0	0
21 Community and Social Science Occupations	<b>86</b>	0	0	0	0	17	69
27 Arts, Design, Entertainment, Sports, and Media Occupations	<b>73</b>	0	0	0	0	25	48
29 Healthcare Practitioners and Technical Occupations	<b>74</b>	0	0	0	26	48	0
31 Healthcare Support Occupations	<b>0</b>	0	0	0	0	0	0
33 Protective Service Occupations	<b>0</b>	0	0	0	0	0	0
35 Food Preparation and Serving Occupations	<b>49</b>	0	0	49	0	0	0
37 Building and Ground Cleaning and Maintenance Occupations	<b>0</b>	0	0	0	0	0	0
39 Personal Care and Service Occupations	<b>0</b>	0	0	0	0	0	0
41 Sales Occupations	<b>10</b>	0	0	0	0	10	0
43 Office and Administrative Support Occupations	<b>33</b>	33	0	0	0	0	0
45 Farming, Fishing, and Forestry Occupations	<b>0</b>	0	0	0	0	0	0
47 Construction Trades	<b>251</b>	60	100	91	0	0	0
47 Extraction Workers	<b>0</b>	0	0	0	0	0	0
49 Installation, Maintenance, and Repair Workers	<b>0</b>	0	0	0	0	0	0
51 Production Occupations	<b>134</b>	65	0	69	0	0	0
53 Transportation and Material Moving Occupations	<b>191</b>	90	8	0	0	0	93
55 Military Specific Occupations	<b>0</b>	0	0	0	0	0	0
99 Long-Term Unemployed For More than 5 Years	<b>0</b>	0	0	0	0	0	0
99 NA	<b>0</b>	0	0	0	0	0	0

	Support						
	Sub-Total	<HS	HS	Some Coll OUT	Some Coll IN	AA	BA
Broad Occupational Categories	<b>1,453</b>	<b>244</b>	<b>395</b>	<b>566</b>	<b>30</b>	<b>134</b>	<b>84</b>
11 Management Occupations	<b>0</b>	0	0	0	0	0	0
13 Business Operations Specialists	<b>0</b>	0	0	0	0	0	0
13 Financial Specialists	<b>0</b>	0	0	0	0	0	0
15 Computer and Mathematical Occupations	<b>0</b>	0	0	0	0	0	0
17 Architecture and Engineering Occupations	<b>0</b>	0	0	0	0	0	0
19 Life, Physical, and Social Science Occupations	<b>0</b>	0	0	0	0	0	0
21 Community and Social Science Occupations	<b>40</b>	0	0	0	0	40	0
27 Arts, Design, Entertainment, Sports, and Media Occupations	<b>0</b>	0	0	0	0	0	0
29 Healthcare Practitioners and Technical Occupations	<b>0</b>	0	0	0	0	0	0
31 Healthcare Support Occupations	<b>0</b>	0	0	0	0	0	0
33 Protective Service Occupations	<b>0</b>	0	0	0	0	0	0
35 Food Preparation and Serving Occupations	<b>0</b>	0	0	0	0	0	0
37 Building and Ground Cleaning and Maintenance Occupations	<b>59</b>	0	29	0	30	0	0
39 Personal Care and Service Occupations	<b>373</b>	0	62	266	0	45	0
41 Sales Occupations	<b>275</b>	22	92	128	0	33	0
43 Office and Administrative Support Occupations	<b>395</b>	49	144	103	0	15	84
45 Farming, Fishing, and Forestry Occupations	<b>242</b>	174	68	0	0	0	0
47 Construction Trades	<b>0</b>	0	0	0	0	0	0
47 Extraction Workers	<b>0</b>	0	0	0	0	0	0
49 Installation, Maintenance, and Repair Workers	<b>69</b>	0	0	69	0	0	0
51 Production Occupations	<b>0</b>	0	0	0	0	0	0
53 Transportation and Material Moving Occupations	<b>0</b>	0	0	0	0	0	0
55 Military Specific Occupations	<b>0</b>	0	0	0	0	0	0
99 Long-Term Unemployed For More than 5 Years	<b>0</b>	0	0	0	0	0	0
99 NA	<b>0</b>	0	0	0	0	0	0

**Appendix Table 30 — Long-Term Unemployed Labor Force by Educational Attainment (Persons 25 and Over) Madera County (source: US Census ACS 3-Year Sample 2012-2014 [via iPUMS])**

	<b>Total</b>	<b>&lt;HS</b>	<b>HS</b>	<b>Some Coll OUT</b>	<b>Some Coll IN</b>	<b>AA</b>	<b>BA or up</b>
Long-Term Unemployed persons	<b>1,225</b>	191	404	214	321	40	55

*Source: Applied Development Economics, based on US Census ACS Public Use Microdata 2012-2014 from iPUMS*