

KIPDA Area Occupational Outlook to 2018



Education and Workforce Development Cabinet
Department of Workforce Investment
Office of Employment and Training



**KIPDA Area
Occupational Outlook to 2018**

**STEVEN L. BESHEAR
Governor**

**A LABOR MARKET INFORMATION PUBLICATION BY:
RESEARCH AND STATISTICS BRANCH**

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AUXILIARY AIDS AND SERVICES ARE AVAILABLE UPON REQUEST TO INDIVIDUALS WITH DISABILITIES

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PREFACE

The information and projections contained in this publication are based on a broad range of labor market information and statistics that are collected and analyzed by the staff of the Labor Market Information (LMI) section.

The Occupational Employment Statistics (OES) survey of approximately 20,000 Kentucky employers provided the occupational employment data used in the study. The data obtained from the Current Employment Statistics (CES) and the Quarterly Census of Employment and Wages (QCEW) programs were used to project industries to the year 2018. Staff utilized data from all programs to create the 2018 occupational outlook publications for each of the ADDs below:

ADD 1-Purchase Area	ADD 8&9-Buffalo Trace and Gateway Areas
ADD 2-Pennyrile Area	ADD 10-FIVCO Area
ADD 3-Green River Area	ADD 11-Big Sandy Area
ADD 4-Barren River Area	ADD 12-Kentucky River Area
ADD 5-Lincoln Trail Area	ADD 13-Cumberland Valley Area
ADD 6-Louisville (KIPDA) Area	ADD 14-Lake Cumberland Area
ADD 7-Northern Kentucky Area	ADD 15-Bluegrass Area

The U.S. Department of Labor (USDOL), Employment and Training Administration (ETA) provided funding for the publication and projections. The national industry and occupational projections developed by the U. S. Department of Labor, Bureau of Labor Statistics (BLS), were used in conjunction with state and regional trends to project Kentucky's industries and occupations. The Bureau of Labor Statistics and the U.S. Department of Commerce, Bureau of Economic Analysis, provided additional statistics necessary in the projection process. The Utah Department of Economic Security developed the personal computer-based model used for the projections. Special thanks to Kentucky employers who completed the questionnaires that provide the employment information necessary to complete this project.

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INTRODUCTION

KIPDA Area

Which jobs will be in demand? Which occupations will provide the largest number of job openings? Which are likely to grow or decline? The *KIPDA Area Occupational Outlook to 2018* offers answers and insight regarding these often-asked questions. Students, job seekers, counselors and others will find this information beneficial.

Tables listing the 50 occupations with the largest number of annual job openings and the 50 fastest-growing occupations are included. They also provide occupational employment projections, the number and percentage of expected change and the average number of annual job openings for the period 2008 to 2018.

Please note that the estimates and projections are subject to limitations that are a part of any effort to determine future conditions. Long-term job trends offer insight into the occupational growth or decline in the area. The projections are carefully prepared using accepted methods within a framework of national, state and area assumptions. However, they will be modified in future publications if long-term changes occur in the area's economic outlook or as more current information becomes available.

The estimates in this report reflect only the demand for labor from 2008 through 2018. The supply, or the number of educated or trained workers available to fill future job openings, is beyond the scope of this report.

The development and utilization of our human resources is always a priority for those concerned with employment training. It is crucial that education and training planners, business, labor, government, and job seekers have the necessary occupational information to aid them in the development of education and training programs. This publication was intended to assist in these efforts.

NOTE: Prior to 2000, the Occupational Employment Statistics (OES) codes were used to classify occupations. The 2008-2018 projections use the Standard Occupational Classification (SOC) system. Because of this change, the titles and content of major occupational groups and many detailed occupations are substantially different from those used before 2000. Several major groups have been renamed, combined or reorganized. Some individual occupations have been renamed, reclassified, or are no longer listed. Many newer occupations may be listed for the first time. Because of these changes, the 2008-2018 projections are not comparable to those completed before 2000. Information on the SOC system is available on the U.S. Bureau of Labor Statistics SOC Home Page <http://www.bls.gov/soc/home.htm>.

**KIPDA
HIGHLIGHTS
2008-2018**

- ✓ Employment is projected to grow from 527,608 to 570,576, a gain of 8.1 percent.
- ✓ Total annual job openings are expected to be about 16,900.
- ✓ Growth in employment will create about 5,056 job openings annually.
- ✓ Approximately 11,844 annual job openings will result from separations from the labor force due to retirement or those who transfer to other jobs.
- ✓ Thirty percent of job openings will result from growth; the remaining 70 percent will result from separations from the labor force.
- ✓ The greatest number of annual job openings will be in Office and Administrative Support Occupations (2,575), followed by Sales and Related Occupations (2,031) and Food Preparation and Serving Related Occupations (1,786).
- ✓ The two occupations with the largest projected number of annual job openings are Retail Salespersons (569) and Cashiers (554).
- ✓ The highest growth rates among occupational groups are likely to be in Occupational and Physical Therapist Assistant and Aide Occupations (28.9%), followed by Other Healthcare Support Occupations (24.5%) and Postsecondary Teacher Occupations (24.2%).
- ✓ Some specific occupations with the largest percentage change are Network Systems and Data Communications Analysts (52.8%), Home Health Aides (43.9%) and Computer Software Engineers, Applications (42.5%).

USER'S GUIDE TO OCCUPATIONAL OUTLOOK STATISTICS

When looking at an occupation, what key outlook data should you review?	<p>1) Total average annual job openings, and 2) employment change expressed as a percentage.</p> <p>The total number of job openings estimates the likely annual demand for workers in each occupation. The percentage of employment change shows how much each occupation is likely to grow or decline.</p>
What creates job openings?	<p>1) Employment growth (new jobs), and 2) employment separations (job vacancies created by persons separating from an occupation).</p>
What causes employment change?	<p><i>Industrial growth or decline</i> has the greatest influence. This occurs when the demand for goods and services rises, thus the demand for workers increases. <i>Technological change</i> may raise the demand for some skills while eliminating the demand for others. <i>Self-service, out-sourcing, or 24 hour operations</i> can also affect employment change.</p>
What about employment separations?	<p>Employment separations are still important when evaluating the potential outlook for an occupation. Job openings are created when employees separate from occupations because of retirements, promotions, career changes, death, etc. The number of separations can exceed new jobs.</p>
Do workers tend to leave one occupation more than other occupations?	<p>Every occupation has a different rate of employment separation. Occupations requiring more education and training and/or having a high percentage of full time workers tend to have low separation rates. Those requiring little education and/or training tend to have higher separation rates.</p>
What factors affect the number of job openings for an occupation?	<p>1) The number of workers who are currently employed, 2) the number of job vacancies created by worker separation, and 3) the rate of change, i.e., how fast the occupation is growing or declining.</p>
Which factor is more important?	<p>The size of employment and separation rate is more important than rate of change.</p>
What is the best way to compare one occupation with another?	<p>Look at the total average annual job openings, not just openings resulting from growth. A large number of openings indicates it should be relatively easy to find a job in that occupation. Also, consider the rate of employment change. A high percentage increase denotes there may be excellent chances for advancement and for earnings increases because demand is likely to remain strong for some time.</p>

**Top 50
Fastest Growing KIPDA Area Occupations**

Rank	Code	Occupational Title	Employment		Change		Avg. Annual Openings
			2008	2018	Number	Percent	
1	15-1081	Network Systems & Data Communications Analysts	1,200	1,834	634	52.8	87
2	25-9021	Farm and Home Management Advisors	35	52	17	48.6	3
3	31-1011	Home Health Aides	618	889	271	43.9	33
4	15-1031	Computer Software Engineers, Applications	2,261	3,221	960	42.5	129
5	39-9021	Personal and Home Care Aides	1,212	1,719	507	41.8	72
6	39-5092	Manicurists and Pedicurists	211	299	88	41.7	11
7	21-1014	Mental Health Counselors	417	589	172	41.2	25
8	31-9092	Medical Assistants	2,146	2,911	765	35.6	104
9	29-2056	Veterinary Technologists and Technicians	308	415	107	34.7	20
10	19-4092	Forensic Science Technicians	33	44	11	33.3	2
11	29-2052	Pharmacy Technicians	1,577	2,100	523	33.2	100
12	39-9041	Residential Advisors	573	761	188	32.8	35
13	31-2021	Physical Therapist Assistants	190	252	62	32.6	8
14	17-3025	Environmental Engineering Technicians	34	45	11	32.4	2
15	21-2011	Clergy	145	191	46	31.7	7
16	17-2081	Environmental Engineers	193	254	61	31.6	12
17	21-1011	Substance Abuse & Behavioral Disorder Couns.	261	343	82	31.4	13
18	29-1131	Veterinarians	223	293	70	31.4	11
19	19-4091	Environmental Sci. & Protection Techs., Incl. Health	103	135	32	31.1	7
20	51-9082	Medical Appliance Technicians	84	110	26	31.0	5
21	15-1061	Database Administrators	634	827	193	30.4	26
22	39-3099	Entertainment Attend. & Related Workers, Other	156	203	47	30.1	13
23	31-2012	Occupational Therapist Aides	40	52	12	30.0	2
24	19-1031	Conservation Scientists	85	110	25	29.4	6
25	21-1022	Medical and Public Health Social Workers	408	526	118	28.9	21

**Top 50 (cont.)
Fastest Growing KIPDA Area Occupations**

Rank	Code	Occupational Title	Employment		Change		Avg. Annual Openings
			2008	2018	Number	Percent	
26	29-2021	Dental Hygienists	610	783	173	28.4	29
27	29-1071	Physician Assistants	108	138	30	27.8	5
28	31-9091	Dental Assistants	1,054	1,343	289	27.4	47
29	21-1093	Social and Human Service Assistants	755	961	206	27.3	30
30	31-2011	Occupational Therapist Assistants	81	103	22	27.2	3
31	25-1124	Foreign Language and Literature Teachers, Post. **	52	66	14	26.9	2
32	25-1121	Art, Drama, and Music Teachers, Postsecondary **	192	243	51	26.6	8
33	25-1125	History Teachers, Postsecondary **	46	58	12	26.1	2
34	51-9081	Dental Laboratory Technicians	250	315	65	26.0	12
35	25-1082	Library Science Teachers, Postsecondary **	31	39	8	25.8	2
36	17-1021	Cartographers and Photogrammetrists	105	132	27	25.7	6
37	29-1123	Physical Therapists	405	509	104	25.7	15
38	31-2022	Physical Therapist Aides	184	231	47	25.5	7
39	29-1122	Occupational Therapists	286	359	73	25.5	11
40	29-2031	Cardiovascular Technologists and Technicians	452	567	115	25.4	18
41	25-1081	Education Teachers, Postsecondary **	205	257	52	25.4	8
42	53-2021	Air Traffic Controllers	75	94	19	25.3	4
43	25-1032	Engineering Teachers, Postsecondary **	79	99	20	25.3	3
44	53-1011	Aircraft Cargo Handling Supervisors	329	412	83	25.2	15
45	25-1066	Psychology Teachers, Postsecondary **	72	90	18	25.0	3
46	25-1191	Graduate Teaching Assistants	227	283	56	24.7	10
47	25-1122	Communications Teachers, Postsecondary **	69	86	17	24.6	3
48	25-1071	Health Specialties Teachers, Postsecondary **	866	1,078	212	24.5	36
49	25-1072	Nursing Instructors & Teachers, Postsecondary **	119	148	29	24.4	5
50	25-1011	Business Teachers, Postsecondary **	115	143	28	24.3	5

Top 50
KIPDA Area Occupations with Most Annual Job Openings

Rank	Code	Occupational Title	Employment		Change		Avg. Annual Openings
			2008	2018	Number	Percent	
1	41-2031	Retail Salespersons	13,903	15,311	1,408	10.1	569
2	41-2011	Cashiers	11,657	11,433	-224	-1.9	554
3	35-3031	Waiters and Waitresses	8,864	9,420	556	6.3	538
4	29-1111	Registered Nurses	13,151	15,903	2,752	20.9	492
5	43-4051	Customer Service Representatives	9,652	11,610	1,958	20.3	465
6	53-7062	Laborers & Freight, Stock & Material Movers, Hand	11,879	12,062	183	1.5	398
7	35-3021	Combined Food Preparation & Service Workers	10,290	11,782	1,492	14.5	344
8	39-9011	Child Care Workers	4,772	5,649	877	18.4	225
9	37-2011	Janitors & Cleaners, Excl. Maids & Housekeeping	6,773	7,646	873	12.9	217
10	31-1012	Nursing Aides, Orderlies, and Attendants	6,931	8,452	1,521	21.9	214
11	43-4171	Receptionists and Information Clerks	5,245	6,029	784	14.9	206
12	53-3032	Truck Drivers, Heavy and Tractor-Trailer	7,084	7,744	660	9.3	192
13	43-5081	Stock Clerks and Order Fillers	7,967	7,653	-314	-3.9	189
14	43-6011	Executive Secretaries & Admin. Assistants	6,879	7,560	681	9.9	178
15	11-1021	General and Operations Managers	7,162	7,019	-143	-2.0	173
16	43-9061	Office Clerks, General	6,691	7,181	490	7.3	172
17	41-4012	Sales Reps., Wholesale & Manuf., Excl. Tech. & Sci.	6,206	6,539	333	5.4	170
18	43-3031	Bookkeeping, Accounting, and Auditing Clerks	6,819	7,398	579	8.5	165
19	41-2021	Counter and Rental Clerks	2,847	3,335	488	17.1	158
20	41-1011	Managers of Retail Sales Workers	6,216	6,458	242	3.9	154
21	43-1011	Managers of Office & Admin. Support Workers	6,516	6,679	163	2.5	151
22	43-5071	Shipping, Receiving, and Traffic Clerks	4,943	5,201	258	5.2	144
23	53-7051	Industrial Truck and Tractor Operators	5,680	5,508	-172	-3.0	143
24	51-2092	Team Assemblers	6,865	6,450	-415	-6.0	143
25	41-3099	Sales Representatives, Services, All Other	3,281	3,916	635	19.4	141

Top 50 (cont.)
KIPDA Area Occupations with Most Annual Job Openings

Rank	Code	Occupational Title	Employment		Change		Avg. Annual Openings
			2008	2018	Number	Percent	
26	53-2011	Airline Pilots, Copilots, and Flight Engineers	3,191	3,636	445	13.9	138
27	37-2012	Maids and Housekeeping Cleaners	4,305	4,820	515	12.0	133
28	35-3022	Counter Attendants, Cafeteria & Food Concession	1,695	1,814	119	7.0	130
29	15-1031	Computer Software Engineers, Applications	2,261	3,221	960	42.5	129
30	35-2021	Food Preparation Workers	2,536	2,902	366	14.4	125
31	13-2011	Accountants and Auditors	3,720	4,253	533	14.3	118
32	33-9032	Security Guards	3,594	4,033	439	12.2	117
33	29-2061	Licensed Practical & Licensed Voc. Nurses	2,676	3,098	422	15.8	115
34	53-3033	Truck Drivers, Light or Delivery Services	4,281	4,584	303	7.1	106
35	35-9031	Hosts & Hostesses, Restaurant & Lounge	1,439	1,523	84	5.8	106
36	31-9092	Medical Assistants	2,146	2,911	765	35.6	104
37	51-2099	Assemblers and Fabricators, All Other	4,979	4,386	-593	-11.9	103
38	47-2111	Electricians	2,734	3,052	318	11.6	102
39	29-2052	Pharmacy Technicians	1,577	2,100	523	33.2	100
40	25-2031	Sec. School Teachers, Excl. Special and Voc. Ed. **	2,652	2,833	181	6.8	97
41	47-2031	Carpenters	3,316	3,807	491	14.8	94
42	43-3011	Bill and Account Collectors	2,638	3,167	529	20.1	93
43	47-2152	Plumbers, Pipefitters, and Steamfitters	2,516	2,908	392	15.6	91
44	25-9041	Teacher Assistants **	3,628	3,948	320	8.8	91
45	35-2014	Cooks, Restaurant	2,660	2,841	181	6.8	90
46	13-1199	Business Operations Specialists, All Other	3,027	3,593	566	18.7	89
47	15-1081	Network Systems & Data Communications Analysts	1,200	1,834	634	52.8	87
48	11-9021	Construction Managers	2,339	2,825	486	20.8	85
49	35-3011	Bartenders	1,955	2,073	118	6.0	83
50	15-1051	Computer Systems Analysts	1,619	1,967	348	21.5	78

Explanation of Data Elements in the Occupational Outlook Table

Occupational Employment Outlook

Occupational		Employment 2008 2018		Job Growth 2008 2018		Average Annual Job Openings			Average Wage	Education/ Training Required		
Code	Title	Estimated	Projected	Number	Percent	Growth	Separations	Total	2010			
<p>Occupational Codes & Titles used in this report are based on the Standard Occupational Coding (SOC) structure.</p> <p>NOTE: Alphabetical listing beginning on page 50 will help locate a specific occupation within the tables.</p>		<p>Estimated 2008 employment is based on the Occupational Employment Statistics (OES) Survey of employers.</p> <p>Projected 2018 levels of occupational employment are based on projections of industry employment and projections of occupational change factors between 2008 and 2018.</p> <p>NOTE: The occupational employment estimates for 2008 to 2018 include all classes of workers such as public and private, wage and salaried workers; agricultural workers; private household workers; and self-employed.</p>		<p>Number The total number of jobs in an occupation gained or lost over the 2008 to 2018 period.</p> <p>Percent Percent change in employment in an occupation over the 10 year period.</p> <p>NOTE: In Kentucky, the average growth for all occupations is projected to be 7.5 percent between 2008-2018.</p> <p>The growth of an occupation is classified as one of the following based on its percent change:</p> <ol style="list-style-type: none"> 1) Declining (< -4.0%) 2) Stable (-4.0% - 4.0%) 3) Growing (4.1% - 10.0%) 4) Fast Growing (10.1% - 15.0%) 5) Very Fast Growing (> 15.0%) 		<p>Growth Provides estimates of the average number of job openings expected to occur due to employment growth each year between 2008 and 2018.</p> <p>Separations Provides estimates of the average number of job openings expected to occur each year in an occupation from workers separating or leaving for reasons such as retirement, promotion, or simply transferring among occupations. These separations would require replacement workers.</p> <p>Total The sum of openings due to growth and openings due to separations for an occupation.</p> <p>NOTE: If employment growth is negative, the total number of job openings will equal the number of separations.</p>			<p>Average Wage in this report always refers to the 2010 statewide mean hourly wage for each occupation.</p> <p>NOTE: For area-specific wage information, please visit the Occupational Wages section of our web site.</p>		<p>Education and/or Training Levels Required are developed by the Bureau of Labor Statistics and group occupations into eleven categories (1-11).</p> <p>NOTE: The various categories are described in detail on page 49 of this report.</p>	

KIPDA Area

Management Occupations

Occupational Employment Outlook

Occupational Code	Occupational Title	Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
00-0000 Total, All Occupations		527,608	570,576	42,968	8.15	5,056	11,844	16,900	18.21	n/a
11-0000 Management Occupations		30,713	32,195	1,482	4.80	175	659	834	40.00	n/a
11-1000	Top Executives	9,053	8,870	-183	-2.00	0	224	224	n/a	n/a
11-1011	Chief Executives	1,868	1,827	-41	-2.20	0	51	51	66.40	4
11-1021	General and Operations Managers	7,162	7,019	-143	-2.00	0	173	173	42.16	4
11-1031	Legislators	*	*	*	*	*	*	*	14.31	4
11-2000	Adv., Market., Promo., P.R. & Sales Managers	2,574	2,704	130	5.05	13	58	71	n/a	n/a
11-2011	Advertising and Promotions Managers	138	134	-4	-2.90	0	3	3	27.94	4
11-2021	Marketing Managers	756	802	46	6.08	5	17	22	45.99	4
11-2022	Sales Managers	1,138	1,163	25	2.20	3	25	28	44.25	4
11-2031	Public Relations Managers	542	605	63	11.62	6	13	19	33.19	4
11-3000	Operations Specialties Managers	6,635	6,903	268	4.04	34	139	173	n/a	n/a
11-3011	Administrative Services Managers	672	715	43	6.40	4	18	22	33.25	4
11-3021	Computer and Information Systems Mgrs.	1,027	1,119	92	8.96	9	17	26	45.86	4
11-3031	Financial Managers	2,561	2,706	145	5.66	15	37	52	39.81	4
11-3041	Compensation and Benefits Managers	89	89	0	0.00	0	2	2	34.01	4
11-3042	Training and Development Managers	124	130	6	4.84	1	2	3	33.75	4
11-3049	Human Resources Managers, All Other	476	500	24	5.04	2	9	11	41.11	4
11-3051	Industrial Production Managers	840	780	-60	-7.14	0	29	29	39.37	8
11-3061	Purchasing Managers	322	307	-15	-4.66	0	9	9	40.82	4
11-3071	Transportation, Storage, & Distribution Mgrs.	524	557	33	6.30	3	16	19	37.37	8
11-9000	Other Management Occupations	12,451	13,718	1,267	10.18	127	239	366	n/a	n/a
11-9011	Farm, Ranch, and Other Agricultural Mgrs.	411	416	5	1.22	1	3	4	22.66	4
11-9012	Farmers and Ranchers	*	*	*	*	*	*	*	n/a	9
11-9021	Construction Managers	2,339	2,825	486	20.78	49	36	85	32.81	5
11-9031	Education Admin., Preschool and Child Care	138	152	14	10.14	1	4	5	22.74	4
11-9032	Education Admin., Elementary and Secondary	723	788	65	8.99	7	20	27	n/a	4
11-9033	Education Administrators, Postsecondary	224	260	36	16.07	4	6	10	43.87	4
11-9039	Education Administrators, All Other	34	39	5	14.71	1	1	2	30.69	4
11-9041	Engineering Managers	513	522	9	1.75	1	10	11	48.32	4
11-9051	Food Service Managers	1,556	1,575	19	1.22	2	37	39	22.26	8

* Employment under 30 and unreliable data suppressed n/a - Not Available ~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

KIPDA Area

Management Occupations (cont'd)

Occupational Employment Outlook

Occupational		Employment*		Change		Job Openings			Average	Educ/
Code	Title	2008	2018	2008-2018		Average Annual 2008-2018			Wage	Training
		Estimated	Projected	Number	Percent	Growth	Separations	Total	2010	Req'd~
11-9061	Funeral Directors	155	187	32	20.65	3	4	7	21.15	6
11-9071	Gaming Managers	*	*	*	*	*	*	*	n/a	8
11-9081	Lodging Managers	213	218	5	2.35	1	5	6	23.20	8
11-9111	Medical and Health Services Managers	1,469	1,709	240	16.34	24	27	51	39.34	4
11-9121	Natural Sciences Managers	70	78	8	11.43	1	2	3	41.56	4
11-9131	Postmasters and Mail Superintendents	42	38	-4	-9.52	0	1	1	26.93	8
11-9141	Property, Real Estate, Community Assoc. Mgrs.	1,152	1,244	92	7.99	9	16	25	21.35	5
11-9151	Social and Community Service Managers	551	639	88	15.97	9	11	20	26.19	5
11-9199	Managers, All Other	2,840	3,005	165	5.81	17	57	74	39.25	8

* Employment under 30 and unreliable data suppressed n/a - Not Available ~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

KIPDA Area

Business & Financial Operations Occs.

Occupational Employment Outlook

Occupational Code	Occupational Title	Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
13-0000 Business and Financial Operations Occupations		21,796	24,113	2,317	10.63	240	385	625	26.17	n/a
13-1000	Business Operations Specialists	12,774	14,124	1,350	10.57	139	232	371	n/a	n/a
13-1011	Agents & Mgrs.- Artists, Performers & Athletes	*	*	*	*	*	*	*	39.68	4
13-1021	Purchasing Agents and Buyers, Farm Products	45	44	-1	-2.22	0	1	1	30.22	9
13-1022	Wholesale & Retail Buyers, Excl. Farm Products	199	186	-13	-6.53	0	5	5	23.51	9
13-1023	Purchasing Agents, Excl. Wholesale, Retail & Farm	775	749	-26	-3.35	0	17	17	24.74	9
13-1031	Claims Adjusters, Examiners, and Investigators	1,634	1,737	103	6.30	10	42	52	26.54	9
13-1032	Insurance Appraisers, Auto Damage	40	43	3	8	0	1	1	24.53	7
13-1041	Compliance Ofcr., Excl. Ag., Constr., Health & Trans.	666	706	40	6.01	4	8	12	22.09	9
13-1051	Cost Estimators	777	930	153	19.69	15	16	31	25.49	5
13-1061	Emergency Management Specialists	*	*	*	*	*	*	*	18.08	8
13-1071	Employment, Recruitment & Placement Specialists	729	786	57	7.82	6	16	22	19.53	5
13-1072	Compensation, Benefits & Job Analysis Specialists	420	461	41	9.76	4	9	13	27.46	5
13-1073	Training and Development Specialists	819	917	98	11.97	10	18	28	23.17	5
13-1079	Human Res., Trng. & Labor Relations Spec., Other	1,495	1,624	129	8.63	13	32	45	23.21	5
13-1081	Logisticians	240	285	45	18.75	5	4	9	30.93	5
13-1111	Management Analysts	1,755	1,892	137	7.81	14	30	44	33.10	4
13-1121	Meeting and Convention Planners	111	126	15	13.51	2	2	4	18.94	5
13-1199	Business Operations Specialists, All Other	3,027	3,593	566	18.70	57	32	89	28.23	5
13-2000	Financial Specialists	9,022	9,989	967	10.72	101	153	254	n/a	n/a
13-2011	Accountants and Auditors	3,720	4,253	533	14.33	53	65	118	26.98	5
13-2021	Appraisers and Assessors of Real Estate	284	338	54	19.01	5	6	11	25.43	6
13-2031	Budget Analysts	240	265	25	10.42	3	6	9	26.60	5
13-2041	Credit Analysts	110	109	-1	-0.91	0	4	4	31.38	5
13-2051	Financial Analysts	643	754	111	17.26	11	4	15	32.06	5
13-2052	Personal Financial Advisors	470	541	71	15.11	7	4	11	33.84	5
13-2053	Insurance Underwriters	401	407	6	1.50	1	11	12	25.05	5
13-2061	Financial Examiners	89	94	5	5.62	1	2	3	34.95	5
13-2071	Loan Counselors	87	90	3	3.45	0	1	1	18.82	5
13-2072	Loan Officers	1,586	1,732	146	9.21	15	17	32	25.15	10
13-2081	Tax Examiners, Collectors, and Revenue Agents	209	226	17	8.13	2	5	7	22.20	5
13-2082	Tax Preparers	306	260	-46	-15.03	0	5	5	13.24	10
13-2099	Financial Specialists, All Other	877	920	43	4.90	4	23	27	25.10	5

* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

KIPDA Area

Computer & Mathematical Occupations

Occupational Employment Outlook

Occupational Code Title		Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
15-0000 Computer and Mathematical Occupations		11,139	13,680	2,541	22.81	265	238	503	29.46	n/a
15-1000	Computer Specialists	10,762	13,297	2,535	23.56	264	228	492	n/a	n/a
15-1011	Computer and Information Scientists, Research	*	*	*	*	*	*	*	n/a	2
15-1021	Computer Programmers	1,131	1,023	-108	-9.55	0	24	24	32.94	5
15-1031	Computer Software Engineers, Applications	2,261	3,221	960	42.46	96	33	129	33.90	5
15-1032	Computer Software Engineers, Systems Software	906	1,049	143	15.78	14	13	27	38.46	5
15-1041	Computer Support Specialists	1,636	1,807	171	10.45	17	51	68	19.31	6
15-1051	Computer Systems Analysts	1,619	1,967	348	21.49	35	43	78	33.94	5
15-1061	Database Administrators	634	827	193	30.44	19	7	26	28.52	5
15-1071	Network and Computer Systems Administrators	900	1,070	170	18.89	17	21	38	25.23	5
15-1081	Network Systems & Data Communications Analysts	1,200	1,834	634	52.83	63	24	87	28.71	5
15-1099	Computer Specialists, All Other	475	499	24	5.05	2	13	15	32.16	6
15-2000	Mathematical Scientists	377	383	6	1.59	1	10	11	n/a	n/a
15-2011	Actuaries	*	*	*	*	*	*	*	39.47	4
15-2021	Mathematicians	*	*	*	*	*	*	*	n/a	2
15-2031	Operations Research Analysts	205	206	1	0.49	0	4	4	32.40	3
15-2041	Statisticians	41	42	1	2	0	1	1	30.18	3
15-2099	Mathematical Science Occupations, All Other	*	*	*	*	*	*	*	25.65	3

* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

KIPDA Area

Architecture & Engineering Occupations

Occupational Employment Outlook

Occupational Code	Occupational Title	Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
17-0000 Architecture and Engineering Occupations		6,862	7,523	661	9.63	69	160	229	30.16	n/a
17-1000	Architects, Surveyors, and Cartographers	701	810	109	15.55	11	16	27	n/a	n/a
17-1011	Architects, Excl. Landscape and Naval	386	437	51	13.21	5	7	12	29.63	5
17-1012	Landscape Architects	109	121	12	11.01	1	2	3	24.72	5
17-1021	Cartographers and Photogrammetrists	105	132	27	25.71	3	3	6	20.53	5
17-1022	Surveyors	101	120	19	18.81	2	3	5	23.83	5
17-2000	Engineers	4,039	4,459	420	10.40	45	95	140	n/a	n/a
17-2011	Aerospace Engineers	81	95	14	17	1	2	3	46.45	5
17-2021	Agricultural Engineers	*	*	*	*	*	*	*	40.88	5
17-2031	Biomedical Engineers	*	*	*	*	*	*	*	n/a	5
17-2041	Chemical Engineers	225	217	-8	-3.56	0	6	6	42.62	5
17-2051	Civil Engineers	695	791	96	13.81	10	18	28	33.46	5
17-2061	Computer Hardware Engineers	187	220	33	17.65	3	6	9	45.48	5
17-2071	Electrical Engineers	429	468	39	9.09	4	10	14	37.85	5
17-2072	Electronics Engineers, Excl. Computer	306	306	0	0.00	0	7	7	39.45	5
17-2081	Environmental Engineers	193	254	61	31.61	6	6	12	33.57	5
17-2111	Health & Safety Engineers., Excl. Mining Safety	87	90	3	3.45	0	2	2	33.77	5
17-2112	Industrial Engineers	834	1,008	174	20.86	17	20	37	33.89	5
17-2121	Marine Engineers and Naval Architects	*	*	*	*	*	*	*	n/a	5
17-2131	Materials Engineers	*	*	*	*	*	*	*	35.19	5
17-2141	Mechanical Engineers	629	608	-21	-3.34	0	14	14	33.72	5
17-2151	Mining & Geological Engineers., Incl. Mining Safety	*	*	*	*	*	*	*	35.79	5
17-2161	Nuclear Engineers	*	*	*	*	*	*	*	37.46	5
17-2171	Petroleum Engineers	*	*	*	*	*	*	*	46.53	5
17-2199	Engineers, All Other	306	331	25	8.17	3	4	7	35.59	5

* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

KIPDA Area

Architecture & Engineering Occs. (cont'd)

Occupational Employment Outlook

Occupational		Employment*		Change		Job Openings			Average Wage	Educ/ Training Req'd~
		2008	2018	2008-2018		Average Annual 2008-2018				
Code	Title	Estimated	Projected	Number	Percent	Growth	Separations	Total	2010	
17-3000	Drafters, Engineering, and Mapping Technicians	2,122	2,254	132	6.22	13	49	62	n/a	n/a
17-3011	Architectural and Civil Drafters	332	340	8	2.41	1	10	11	18.19	7
17-3012	Electrical and Electronics Drafters	122	137	15	12.30	2	4	6	27.34	7
17-3013	Mechanical Drafters	305	310	5	1.64	1	9	10	20.89	7
17-3019	Drafters, All Other	62	64	2	3.23	0	2	2	22.35	7
17-3021	Aerospace Engineering and Operations Techs.	*	*	*	*	*	*	*	25.57	6
17-3022	Civil Engineering Technicians	272	283	11	4.04	1	5	6	21.26	6
17-3023	Electrical and Electronic Engineering Technicians	347	368	21	6.05	2	7	9	25.64	6
17-3024	Electro-Mechanical Technicians	*	*	*	*	*	*	*	23.48	6
17-3025	Environmental Engineering Technicians	34	45	11	32.35	1	1	2	20.53	6
17-3026	Industrial Engineering Technicians	139	154	15	10.79	2	3	5	22.82	6
17-3027	Mechanical Engineering Technicians	58	62	4	6.90	0	1	1	22.27	6
17-3029	Engineering Techs., Except Drafters, All Other	284	305	21	7.39	2	6	8	22.02	6
17-3031	Surveying and Mapping Technicians	127	147	20	15.75	2	2	4	16.84	10

* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

KIPDA Area

Life, Physical & Social Science Occupations

Occupational Employment Outlook

Occupational Code	Occupational Title	Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
19-0000	Life, Physical, and Social Science Occupations	3,059	3,503	444	14.51	45	75	120	24.83	n/a
19-1000	Life Scientists	628	747	119	18.95	12	19	31	n/a	n/a
19-1011	Animal Scientists	*	*	*	*	*	*	*	30.52	2
19-1012	Food Scientists and Technologists	31	33	2	6.45	0	1	1	32.09	5
19-1013	Soil and Plant Scientists	51	56	5	9.80	1	2	3	25.25	5
19-1021	Biochemists and Biophysicists	*	*	*	*	*	*	*	25.02	2
19-1022	Microbiologists	*	*	*	*	*	*	*	24.33	2
19-1023	Zoologists and Wildlife Biologists	*	*	*	*	*	*	*	n/a	5
19-1029	Biological Scientists, All Other	36	39	3	8.33	0	1	1	27.66	2
19-1031	Conservation Scientists	85	110	25	29.41	3	3	6	31.54	5
19-1032	Foresters	*	*	*	*	*	*	*	21.10	5
19-1041	Epidemiologists	*	*	*	*	*	*	*	26.23	3
19-1042	Medical Scientists, Excl. Epidemiologists	352	431	79	22.44	8	11	19	25.10	2
19-1099	Life Scientists, All Other	*	*	*	*	*	*	*	25.09	5
19-2000	Physical Scientists	511	559	48	9.39	6	13	19	n/a	n/a
19-2011	Astronomers	*	*	*	*	*	*	*	n/a	2
19-2012	Physicists	*	*	*	*	*	*	*	67.82	2
19-2021	Atmospheric and Space Scientists	40	42	2	5	0	1	1	43.73	5
19-2031	Chemists	197	190	-7	-3.55	0	5	5	28.91	5
19-2032	Materials Scientists	*	*	*	*	*	*	*	29.43	5
19-2041	Environmental Scientists & Specialists, Incl. Health	186	228	42	22.58	4	5	9	26.06	3
19-2042	Geoscientists, Excl. Hydrologists & Geographers	*	*	*	*	*	*	*	29.11	3
19-2043	Hydrologists	*	*	*	*	*	*	*	n/a	3
19-2099	Physical Scientists, All Other	39	44	5	12.82	1	1	2	31.56	5

* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

KIPDA Area

Life, Physical & Social Science Occs. (cont'd)

Occupational Employment Outlook

Occupational		Employment*		Change		Job Openings			Average Wage	Educ/ Training Req'd~
		2008	2018	2008-2018		Average Annual 2008-2018				
Code	Title	Estimated	Projected	Number	Percent	Growth	Separations	Total	2010	
19-3000	Social Scientists and Related Workers	1,138	1,284	146	12.83	15	15	30	n/a	n/a
19-3011	Economists	41	48	7	17.07	1	1	2	27.67	3
19-3021	Market Research Analysts	596	673	77	12.92	8	4	12	30.58	5
19-3022	Survey Researchers	*	*	*	*	*	*	*	21.18	5
19-3031	Clinical, Counseling, and School Psychologists	290	327	37	12.76	4	4	8	26.66	2
19-3039	Psychologists, All Other	*	*	*	*	*	*	*	35.29	3
19-3051	Urban and Regional Planners	52	60	8	15.38	1	2	3	20.03	3
19-3091	Anthropologists and Archeologists	*	*	*	*	*	*	*	23.10	3
19-3092	Geographers	*	*	*	*	*	*	*	31.53	3
19-3093	Historians	38	42	4	11	0	1	1	18.82	3
19-3094	Political Scientists	*	*	*	*	*	*	*	n/a	3
19-3099	Social Scientists and Related Workers, All Other	69	76	7	10.14	1	2	3	28.60	3
19-4000	Life, Physical, and Social Science Technicians	782	913	131	16.75	13	28	41	n/a	n/a
19-4011	Agricultural and Food Science Technicians	*	*	*	*	*	*	*	16.64	6
19-4021	Biological Technicians	*	*	*	*	*	*	*	16.20	5
19-4031	Chemical Technicians	182	190	8	4.40	1	6	7	19.60	6
19-4041	Geological and Petroleum Technicians	*	*	*	*	*	*	*	26.86	6
19-4061	Social Science Research Assistants	89	93	4	4.49	0	3	3	16.37	6
19-4091	Environmental Sci. & Protection Techs., Incl. Health	103	135	32	31.07	3	4	7	19.96	6
19-4092	Forensic Science Technicians	33	44	11	33.33	1	1	2	20.27	5
19-4093	Forest and Conservation Technicians	*	*	*	*	*	*	*	n/a	6
19-4099	Life, Physical & Social Science Techs., All Other	136	158	22	16.18	2	5	7	18.39	6

* Employment under 30 and unreliable data suppressed n/a - Not Available ~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

KIPDA Area

Community & Social Service Occupations

Occupational Employment Outlook

Occupational Code Title		Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
21-0000 Community and Social Services Occupations		6,283	7,359	1,076	17.13	108	115	223	18.41	n/a
21-1000	Counselors, Social Workers, Other Specialists	6,130	7,159	1,029	16.79	103	113	216	n/a	n/a
21-1011	Substance Abuse & Behavioral Disorder Couns.	261	343	82	31.42	8	5	13	16.95	5
21-1012	Educational, Vocational, and School Counselors	544	609	65	11.95	7	11	18	27.16	3
21-1013	Marriage and Family Therapists	*	*	*	*	*	*	*	20.79	3
21-1014	Mental Health Counselors	417	589	172	41.25	17	8	25	18.20	3
21-1015	Rehabilitation Counselors	281	318	37	13.17	4	6	10	17.38	3
21-1019	Counselors, All Other	*	*	*	*	*	*	*	13.76	3
21-1021	Child, Family, and School Social Workers	2,164	2,296	132	6.10	13	46	59	18.16	5
21-1022	Medical and Public Health Social Workers	408	526	118	28.92	12	9	21	20.05	5
21-1023	Mental Health & Substance Abuse Social Workers	382	454	72	18.85	7	8	15	18.00	3
21-1029	Social Workers, All Other	74	84	10	13.51	1	2	3	23.89	5
21-1091	Health Educators	84	101	17	20.24	2	1	3	18.55	5
21-1092	Probation Officers & Correctional Treatment Spec.	345	376	31	8.99	3	4	7	18.36	5
21-1093	Social and Human Service Assistants	755	961	206	27.28	21	9	30	12.30	10
21-1099	Community & Social Service Specialists, All Other	325	386	61	18.77	6	4	10	18.05	5
21-2000	Religious Workers	153	200	47	30.72	5	2	7	n/a	n/a
21-2011	Clergy	145	191	46	31.72	5	2	7	23.01	3
21-2021	Directors, Religious Activities and Education	*	*	*	*	*	*	*	37.84	5
21-2099	Religious Workers, All Other	*	*	*	*	*	*	*	10.81	5

* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

KIPDA Area

Legal Occupations

Occupational Employment Outlook

Occupational Code Title		Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
23-0000 Legal Occupations		3,891	4,222	331	8.51	35	66	101	34.32	n/a
23-1000	Lawyers, Judges, and Related Workers	2,354	2,501	147	6.24	15	45	60	n/a	n/a
23-1011	Lawyers	2,069	2,218	149	7.20	15	39	54	47.36	1
23-1021	Adm. Law Judges, Adjudicators & Hearing Officers	173	171	-2	-1	0	3	3	n/a	4
23-1022	Arbitrators, Mediators, and Conciliators	*	*	*	*	*	*	*	29.07	4
23-1023	Judges, Magistrate Judges, and Magistrates	*	*	*	*	*	*	*	62.50	4
23-2000	Legal Support Workers	1,537	1,721	184	11.97	20	22	42	n/a	n/a
23-2011	Paralegals and Legal Assistants	1,132	1,308	176	15.55	18	15	33	19.38	6
23-2091	Court Reporters	*	*	*	*	*	*	*	24.70	7
23-2092	Law Clerks	129	117	-12	-9.30	0	2	2	16.25	5
23-2093	Title Examiners, Abstractors, and Searchers	82	77	-5	-6.10	0	1	1	16.98	10
23-2099	Legal Support Workers, All Other	175	191	16	9.14	2	3	5	19.98	10

* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

KIPDA Area

Education, Training & Library Occupations

Occupational Employment Outlook

Occupational Code	Occupational Title	Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
25-0000 Education, Training, and Library Occupations		21,770	24,800	3,030	13.92	304	432	736	22.32	n/a
25-1000	Postsecondary Teachers	3,695	4,591	896	24.25	90	62	152	n/a	n/a
25-1011	Business Teachers, Postsecondary **	115	143	28	24.35	3	2	5	50.58	2
25-1021	Computer Science Teachers, Postsecondary **	84	104	20	23.81	2	1	3	44.24	2
25-1022	Mathematical Science Teachers, Postsecondary **	93	115	22	23.66	2	2	4	39.77	2
25-1031	Architecture Teachers, Postsecondary **	*	*	*	*	*	*	*	39.85	2
25-1032	Engineering Teachers, Postsecondary **	79	99	20	25.32	2	1	3	61.65	2
25-1041	Agricultural Sciences Teachers, Postsecondary **	*	*	*	*	*	*	*	50.43	2
25-1042	Biological Science Teachers, Postsecondary **	85	105	20	23.53	2	1	3	43.32	2
25-1043	Forestry & Conservation Sci. Teachers, Post. **	*	*	*	*	*	*	*	n/a	2
25-1051	Atmospheric, Earth, Marine & Space Sci., Post. **	*	*	*	*	*	*	*	44.93	2
25-1052	Chemistry Teachers, Postsecondary **	42	52	10	23.81	1	1	2	43.25	2
25-1053	Environmental Science Teachers, Postsecondary**	*	*	*	*	*	*	*	n/a	2
25-1054	Physics Teachers, Postsecondary **	*	*	*	*	*	*	*	42.43	2
25-1061	Anthropology and Archeology Teachers, Post. **	*	*	*	*	*	*	*	42.53	2
25-1062	Area, Ethnic & Cultural Studies Teachers, Post. **	*	*	*	*	*	*	*	40.78	2
25-1063	Economics Teachers, Postsecondary **	32	39	7	22	1	1	2	54.57	2
25-1064	Geography Teachers, Postsecondary **	*	*	*	*	*	*	*	38.31	2
25-1065	Political Science Teachers, Postsecondary **	43	53	10	23.26	1	1	2	45.01	2
25-1066	Psychology Teachers, Postsecondary **	72	90	18	25.00	2	1	3	41.14	2
25-1067	Sociology Teachers, Postsecondary **	*	*	*	*	*	*	*	36.75	2
25-1069	Social Sciences Teachers, Post., All Other **	*	*	*	*	*	*	*	37.74	2
25-1071	Health Specialties Teachers, Postsecondary **	866	1,078	212	24.48	21	15	36	64.95	2
25-1072	Nursing Instructors & Teachers, Postsecondary **	119	148	29	24.37	3	2	5	43.23	2
25-1081	Education Teachers, Postsecondary **	205	257	52	25	5	3	8	38.21	2
25-1082	Library Science Teachers, Postsecondary **	31	39	8	26	1	1	2	37.52	2
25-1111	Crim. Justice & Law Enforcement Teachers, Post. **	105	130	25	23.81	3	2	5	39.76	2
25-1112	Law Teachers, Postsecondary **	32	39	7	21.88	1	1	2	68.47	2
25-1113	Social Work Teachers, Postsecondary **	35	43	8	22.86	1	1	2	36.46	2

* Employment under 30 and unreliable data suppressed n/a - Not Available ~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

** Average hourly wages for these teacher occupations were calculated by assuming 9.5 working months per year at 40 hours per week.

KIPDA Area

Education, Training & Library Occs. (cont'd)

Occupational Employment Outlook

Occupational		Employment*		Change		Job Openings			Average Wage	Educ/ Training Req'd~
		2008	2018	2008-2018		Average Annual 2008-2018				
Code	Title	Estimated	Projected	Number	Percent	Growth	Separations	Total	2010	
25-1121	Art, Drama, and Music Teachers, Postsecondary **	192	243	51	26.56	5	3	8	36.50	2
25-1122	Communications Teachers, Postsecondary **	69	86	17	24.64	2	1	3	36.59	2
25-1123	English Language & Lit. Teachers, Post. **	117	145	28	23.93	3	2	5	34.33	2
25-1124	Foreign Language and Literature Teachers, Post. **	52	66	14	26.92	1	1	2	34.67	2
25-1125	History Teachers, Postsecondary **	46	58	12	26.09	1	1	2	37.79	2
25-1126	Philosophy and Religion Teachers, Post. **	*	*	*	*	*	*	*	34.69	2
25-1191	Graduate Teaching Assistants	227	283	56	24.67	6	4	10	n/a	2
25-1192	Home Economics Teachers, Postsecondary **	*	*	*	*	*	*	*	45.80	2
25-1193	Recreation and Fitness Studies Teachers, Post. **	*	*	*	*	*	*	*	33.49	2
25-1194	Vocational Education Teachers, Postsecondary	476	584	108	22.69	11	8	19	23.58	2
25-1199	Postsecondary Teachers, All Other **	303	376	73	24.09	7	5	12	34.95	2
25-2000	Primary, Secondary & Special Ed. Teachers	10,656	11,978	1,322	12.41	133	249	382	n/a	n/a
25-2011	Preschool Teachers, Excl. Special Education	789	896	107	13.56	11	13	24	13.10	7
25-2012	Kindergarten Teachers, Excl. Special Education **	451	527	76	16.85	8	8	16	29.32	5
25-2021	Elementary School Teachers, Excl. Special Ed. **	*	*	*	*	*	*	*	29.01	5
25-2022	Middle School Teachers, Excl. Special & Voc. Ed. **	1,533	1,724	191	12	19	34	53	29.61	5
25-2023	Vocational Education Teachers, Middle School **	*	*	*	*	*	*	*	32.27	4
25-2031	Sec. School Teachers, Excl. Special and Voc. Ed. **	2,652	2,833	181	6.83	18	79	97	30.31	5
25-2032	Vocational Ed. Teachers, Secondary School **	*	*	*	*	*	*	*	33.82	4
25-2041	Spec. Ed. Teachers, Pre., Kinder. & Elem. School **	786	946	160	20.36	16	18	34	29.03	5
25-2042	Special Education Teachers, Middle School **	397	466	69	17.38	7	9	16	29.38	5
25-2043	Special Education Teachers, Secondary School **	461	506	45	9.76	5	10	15	29.88	5
25-3000	Other Teachers and Instructors	1,399	1,567	168	12.01	17	15	32	n/a	n/a
25-3011	Adult Literacy, Remedial Ed. & GED Teachers	61	70	9	14.75	1	1	2	17.32	5
25-3021	Self-Enrichment Education Teachers	356	425	69	19.38	7	4	11	13.33	8
25-3099	Teachers and Instructors, All Other **	982	1,072	90	9.17	9	11	20	19.67	5
25-4000	Librarians, Curators, and Archivists	666	714	48	7	5	23	28	n/a	n/a
25-4011	Archivists	*	*	*	*	*	*	*	18.24	3
25-4012	Curators	47	54	7	15	1	2	3	22.95	3
25-4013	Museum Technicians and Conservators	*	*	*	*	*	*	*	17.29	5
25-4021	Librarians	426	449	23	5.40	2	12	14	25.17	3
25-4031	Library Technicians	159	174	15	9.43	2	8	10	13.10	7

* Employment under 30 and unreliable data suppressed n/a - Not Available ~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

** Average hourly wages for these teacher occupations were calculated by assuming 9.5 working months per year at 40 hours per week.

KIPDA Area

Education, Training & Library Occs. (cont'd)

Occupational Employment Outlook

Occupational		Employment*		Change		Job Openings			Average	Educ/
Code	Title	2008	2018	2008-2018		Average Annual 2008-2018			Wage	Training
		Estimated	Projected	Number	Percent	Growth	Separations	Total	2010	Req'd~
25-9000	Other Education, Training, and Library Occupations	5,354	5,950	596	11.13	60	83	143	n/a	n/a
25-9011	Audio-Visual Collections Specialists	*	*	*	*	*	*	*	n/a	5
25-9021	Farm and Home Management Advisors	35	52	17	48.57	2	1	3	n/a	5
25-9031	Instructional Coordinators	491	598	107	21.79	11	7	18	27.61	3
25-9041	Teacher Assistants **	3,628	3,948	320	8.82	32	59	91	n/a	11
25-9099	Education, Training, and Library Workers, All Other	1,200	1,352	152	12.67	15	16	31	21.44	5

* Employment under 30 and unreliable data suppressed n/a - Not Available ~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

** Average hourly wages for these teacher occupations were calculated by assuming 9.5 working months per year at 40 hours per week.

KIPDA Area

Arts, Design, Entertainment, Sports & Media Occs.

Occupational Employment Outlook

Occupational Code	Occupational Title	Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
27-0000	Arts, Design, Entertainment, Sports & Media Occs.	8,476	9,048	572	6.75	70	212	282	17.49	n/a
27-1000	Art and Design Workers	2,549	2,751	202	7.92	23	67	90	n/a	n/a
27-1011	Art Directors	116	124	8	6.90	1	3	4	29.61	4
27-1012	Craft Artists	*	*	*	*	*	*	*	11.33	9
27-1013	Fine Artists, Incl. Painters, Sculptors & Illustrators	58	56	-2	-3.45	0	1	1	16.07	9
27-1014	Multi-Media Artists and Animators	79	77	-2	-2.53	0	2	2	25.41	5
27-1019	Artists and Related Workers, All Other	*	*	*	*	*	*	*	10.59	9
27-1021	Commercial and Industrial Designers	81	71	-10	-12.35	0	2	2	23.50	5
27-1022	Fashion Designers	*	*	*	*	*	*	*	18.36	6
27-1023	Floral Designers	215	205	-10	-4.65	0	6	6	9.77	11
27-1024	Graphic Designers	1,206	1,320	114	9.45	11	32	43	17.45	5
27-1025	Interior Designers	181	176	-5	-2.76	0	5	5	17.30	6
27-1026	Merchandise Displayers and Window Trimmers	569	671	102	17.93	10	15	25	12.71	10
27-1027	Set and Exhibit Designers	*	*	*	*	*	*	*	15.35	5
27-1029	Designers, All Other	*	*	*	*	*	*	*	13.74	5
27-2000	Entertainers, Performers, Sports & Related	2,292	2,453	161	7.02	16	68	84	n/a	n/a
27-2011	Actors	*	*	*	*	*	*	*	10.81	9
27-2012	Producers and Directors	274	290	16	5.84	2	8	10	19.10	4
27-2021	Athletes and Sports Competitors	*	*	*	*	*	*	*	n/a	9
27-2022	Coaches and Scouts	1,233	1,339	106	8.60	11	32	43	n/a	9
27-2023	Umpires, Referees, and Other Sports Officials	39	43	4	10.26	0	1	1	n/a	9
27-2031	Dancers	*	*	*	*	*	*	*	n/a	9
27-2032	Choreographers	278	292	14	5.04	1	15	16	12.70	8
27-2041	Music Directors and Composers	*	*	*	*	*	*	*	16.63	4
27-2042	Musicians and Singers	233	238	5	2.15	1	5	6	17.70	9
27-2099	Entertainers & Performers, Sports & Related, Other	168	184	16	9.52	2	5	7	18.49	9

* Employment under 30 and unreliable data suppressed n/a - Not Available ~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

KIPDA Area

Arts, Design, Entertainment, Sports, Media Occs. (cont'd)

Occupational Employment Outlook

Occupational Code Title		Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
27-3000	Media and Communication Workers	2,688	2,838	150	5.58	24	53	77	n/a	n/a
27-3011	Radio and Television Announcers	180	142	-38	-21.11	0	6	6	11.77	9
27-3012	Public Address System and Other Announcers	94	85	-9	-9.57	0	3	3	10.12	10
27-3021	Broadcast News Analysts	*	*	*	*	*	*	*	17.13	5
27-3022	Reporters and Correspondents	266	254	-12	-4.51	0	8	8	17.86	5
27-3031	Public Relations Specialists	1,127	1,283	156	13.84	16	9	25	21.67	5
27-3041	Editors	326	293	-33	-10.12	0	10	10	21.42	5
27-3042	Technical Writers	278	345	67	24.10	7	8	15	25.88	5
27-3043	Writers and Authors	218	230	12	5.50	1	4	5	19.17	5
27-3091	Interpreters and Translators	*	*	*	*	*	*	*	19.13	9
27-3099	Media and Communication Workers, All Other	140	140	0	0.00	0	3	3	19.91	9
27-4000	Media and Communication Equipment Workers	947	1,006	59	6.23	6	25	31	n/a	n/a
27-4011	Audio and Video Equipment Technicians	83	101	18	21.69	2	3	5	19.60	7
27-4012	Broadcast Technicians	298	307	9	3.02	1	10	11	18.95	6
27-4014	Sound Engineering Technicians	*	*	*	*	*	*	*	18.37	7
27-4021	Photographers	322	342	20	6.21	2	7	9	14.51	9
27-4031	Camera Operators, TV, Video & Motion Picture	70	69	-1	-1.43	0	1	1	20.85	5
27-4032	Film and Video Editors	*	*	*	*	*	*	*	18.18	5
27-4099	Media and Communication Equip. Workers, Other	83	91	8	9.64	1	2	3	19.47	10

* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

KIPDA Area

Healthcare Practitioners & Technical Occs.

Occupational Employment Outlook

Occupational		Employment*		Change		Job Openings			Average Wage 2010	Educ/ Training Req'd~
		2008	2018	2008-2018		Average Annual 2008-2018				
Code	Title	Estimated	Projected	Number	Percent	Growth	Separations	Total		
29-0000 Healthcare Practitioners and Technical Occupations		31,822	37,858	6,036	18.97	608	600	1,208	29.73	n/a
29-1000	Health Diagnosing and Treating Practitioners	19,641	23,496	3,855	19.63	386	329	715	n/a	n/a
29-1011	Chiropractors	142	163	21	14.79	2	2	4	48.15	1
29-1021	Dentists, General	293	318	25	8.53	3	6	9	72.52	1
29-1022	Oral and Maxillofacial Surgeons	*	*	*	*	*	*	*	n/a	1
29-1023	Orthodontists	*	*	*	*	*	*	*	92.18	1
29-1029	Dentists, All Other	*	*	*	*	*	*	*	43.18	1
29-1031	Dietitians and Nutritionists	313	369	56	17.89	6	8	14	23.96	5
29-1041	Optometrists	133	146	13	9.77	1	2	3	57.32	1
29-1051	Pharmacists	890	1,101	211	23.71	21	15	36	51.31	1
29-1061	Anesthesiologists	58	68	10	17.24	1	1	2	n/a	1
29-1062	Family and General Practitioners	304	340	36	11.84	4	6	10	79.79	1
29-1063	Internists, General	86	97	11	12.79	1	2	3	91.24	1
29-1064	Obstetricians and Gynecologists	218	266	48	22.02	5	4	9	83.05	1
29-1065	Pediatricians, General	207	230	23	11.11	2	4	6	93.66	1
29-1066	Psychiatrists	30	36	6	20.00	1	1	2	86.58	1
29-1067	Surgeons	483	534	51	10.56	5	9	14	102.22	1
29-1069	Physicians and Surgeons, All Other	1,069	1,226	157	14.69	16	19	35	81.85	1
29-1071	Physician Assistants	108	138	30	27.78	3	2	5	39.81	3
29-1081	Podiatrists	40	46	6	15	1	1	2	70.21	1
29-1111	Registered Nurses	13,151	15,903	2,752	20.93	275	217	492	28.19	6
29-1121	Audiologists	59	61	2	3.39	0	1	1	37.82	1
29-1122	Occupational Therapists	286	359	73	25.52	7	4	11	34.25	3
29-1123	Physical Therapists	405	509	104	25.68	10	5	15	36.73	3
29-1124	Radiation Therapists	*	*	*	*	*	*	*	31.12	6
29-1125	Recreational Therapists	49	47	-2	-4.08	0	1	1	19.08	5
29-1126	Respiratory Therapists	568	672	104	18.31	10	8	18	21.62	6
29-1127	Speech-Language Pathologists	254	286	32	12.60	3	5	8	28.90	3
29-1129	Therapists, All Other	185	193	8	4.32	1	2	3	34.79	5
29-1131	Veterinarians	223	293	70	31.39	7	4	11	46.09	1
29-1199	Health Diagnosing & Treating Practitioners, Other	*	*	*	*	*	*	*	28.92	5

* Employment under 30 and unreliable data suppressed n/a - Not Available ~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

KIPDA Area

Healthcare Practitioners & Tech. Occs. (cont'd)

Occupational Employment Outlook

Occupational		Employment*		Change		Job Openings			Average Wage 2010	Educ/ Training Req'd~
		2008	2018	2008-2018		Average Annual 2008-2018				
Code	Title	Estimated	Projected	Number	Percent	Growth	Separations	Total		
29-2000	Health Technologists and Technicians	11,699	13,816	2,117	18.10	216	262	478	n/a	n/a
29-2011	Medical and Clinical Laboratory Technologists	758	825	67	8.84	7	12	19	24.44	5
29-2012	Medical and Clinical Laboratory Technicians	391	440	49	12.53	5	6	11	17.14	6
29-2021	Dental Hygienists	610	783	173	28.36	17	12	29	27.01	6
29-2031	Cardiovascular Technologists and Technicians	452	567	115	25.44	12	6	18	20.12	6
29-2032	Diagnostic Medical Sonographers	189	220	31	16.40	3	3	6	27.13	6
29-2033	Nuclear Medicine Technologists	137	154	17	12.41	2	2	4	27.90	6
29-2034	Radiologic Technologists and Technicians	1,136	1,268	132	11.62	13	15	28	22.23	6
29-2041	Emergency Medical Technicians and Paramedics	1,021	1,207	186	18.22	19	12	31	13.62	7
29-2051	Dietetic Technicians	148	168	20	13.51	2	5	7	12.04	7
29-2052	Pharmacy Technicians	1,577	2,100	523	33.16	52	48	100	11.88	10
29-2053	Psychiatric Technicians	329	288	-41	-12.46	0	10	10	11.98	7
29-2054	Respiratory Therapy Technicians	*	*	*	*	*	*	*	19.94	7
29-2055	Surgical Technologists	593	734	141	23.78	14	18	32	17.08	7
29-2056	Veterinary Technologists and Technicians	308	415	107	34.74	11	9	20	12.82	6
29-2061	Licensed Practical & Licensed Voc. Nurses	2,676	3,098	422	15.77	42	73	115	17.53	7
29-2071	Medical Records & Health Info. Technicians	805	942	137	17.02	14	22	36	15.24	6
29-2081	Opticians, Dispensing	133	144	11	8.27	1	4	5	16.20	9
29-2091	Orthotists and Prosthetists	*	*	*	*	*	*	*	34.86	5
29-2099	Health Technologists and Technicians, All Other	330	357	27	8.18	3	3	6	21.04	7
29-9000	Other Healthcare Practitioners & Technical Occs.	482	546	64	13.28	6	9	15	n/a	n/a
29-9011	Occupational Health and Safety Specialists	175	208	33	18.86	3	3	6	29.77	5
29-9012	Occupational Health and Safety Technicians	*	*	*	*	*	*	*	19.57	6
29-9091	Athletic Trainers	*	*	*	*	*	*	*	n/a	5
29-9099	Healthcare Practitioners & Tech. Workers, Other	237	258	21	8.86	2	5	7	26.11	5

* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

KIPDA Area

Healthcare Support Occupations

Occupational Employment Outlook

Occupational Code Title		Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
31-0000 Healthcare Support Occupations		13,572	16,782	3,210	23.65	322	147	469	12.33	n/a
31-1000	Nursing, Psychiatric, and Home Health Aides	7,861	9,652	1,791	22.78	179	70	249	n/a	n/a
31-1011	Home Health Aides	618	889	271	43.85	27	6	33	10.49	11
31-1012	Nursing Aides, Orderlies, and Attendants	6,931	8,452	1,521	21.94	152	62	214	10.79	7
31-1013	Psychiatric Aides	312	311	-1	-0.32	0	3	3	12.29	11
31-2000	Occupational & Physical Therapist Assis. & Aides	495	638	143	28.89	14	7	21	n/a	n/a
31-2011	Occupational Therapist Assistants	81	103	22	27.16	2	1	3	24.71	6
31-2012	Occupational Therapist Aides	40	52	12	30.00	1	1	2	14.60	11
31-2021	Physical Therapist Assistants	190	252	62	32.63	6	2	8	23.02	6
31-2022	Physical Therapist Aides	184	231	47	25.54	5	2	7	12.35	11
31-9000	Other Healthcare Support Occupations	5,216	6,492	1,276	24.46	128	70	198	n/a	n/a
31-9011	Massage Therapists	136	155	19	13.97	2	2	4	16.68	7
31-9091	Dental Assistants	1,054	1,343	289	27.42	29	18	47	15.38	10
31-9092	Medical Assistants	2,146	2,911	765	35.65	77	27	104	12.88	10
31-9093	Medical Equipment Preparers	276	299	23	8.33	2	3	5	13.02	11
31-9094	Medical Transcriptionists	401	430	29	7.23	3	5	8	13.99	7
31-9095	Pharmacy Aides	38	33	-5	-13.16	0	1	1	10.91	11
31-9096	Veterinary Assist. & Laboratory Animal Caretakers	140	154	14	10.00	1	2	3	10.09	11
31-9099	Healthcare Support Workers, All Other	1,025	1,167	142	13.85	14	13	27	14.65	11

* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

KIPDA Area

Protective Service Occupations

Occupational Employment Outlook

Occupational Code Title		Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
33-0000 Protective Service Occupations		10,581	12,001	1,420	13.42	142	287	429	15.46	n/a
33-1000	Managers, Protective Service Workers	1,334	1,509	175	13.12	18	37	55	n/a	n/a
33-1011	Managers of Correctional Officers	467	515	48	10.28	5	13	18	21.92	8
33-1012	Managers of Police and Detectives	356	404	48	13.48	5	11	16	28.68	8
33-1021	Managers of Fire Fighting and Prevention Workers	292	340	48	16.44	5	9	14	25.25	8
33-1099	Managers, Protective Service Workers, All Other	219	250	31	14.16	3	4	7	18.09	8
33-2000	Fire Fighting and Prevention Workers	1,183	1,380	197	16.65	20	42	62	n/a	n/a
33-2011	Fire Fighters	1,086	1,271	185	17.04	19	40	59	16.53	9
33-2021	Fire Inspectors and Investigators	97	109	12	12	1	2	3	20.22	8
33-2022	Forest Fire Inspectors and Prevention Specialists	*	*	*	*	*	*	*	n/a	8
33-3000	Law Enforcement Workers	3,705	4,231	526	14.20	53	92	145	n/a	n/a
33-3011	Bailiffs	*	*	*	*	*	*	*	10.75	10
33-3012	Correctional Officers and Jailers	1,631	1,865	234	14.35	23	37	60	14.19	10
33-3021	Detectives and Criminal Investigators	151	185	34	22.52	3	3	6	27.56	8
33-3031	Fish and Game Wardens	*	*	*	*	*	*	*	19.13	6
33-3041	Parking Enforcement Workers	*	*	*	*	*	*	*	12.88	11
33-3051	Police and Sheriff's Patrol Officers	1,860	2,113	253	13.60	25	50	75	18.59	9
33-3052	Transit and Railroad Police	*	*	*	*	*	*	*	n/a	9
33-9000	Other Protective Service Workers	4,359	4,881	522	11.98	52	117	169	n/a	n/a
33-9011	Animal Control Workers	34	39	5	14.71	1	1	2	11.20	10
33-9021	Private Detectives and Investigators	62	71	9	14.52	1	1	2	16.74	8
33-9031	Gaming Surveillance Ofc's. & Gaming Investigators	*	*	*	*	*	*	*	n/a	10
33-9032	Security Guards	3,594	4,033	439	12.21	44	73	117	11.61	11
33-9091	Crossing Guards	172	176	4	2.33	0	5	5	11.80	11
33-9092	Lifeguards, Ski Patrol & Rec. Protective Workers	160	177	17	10.63	2	12	14	8.34	11
33-9099	Protective Service Workers, All Other	337	385	48	14.24	5	25	30	14.90	11

* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

KIPDA Area

Food Preparation & Serving Related Occs.

Occupational Employment Outlook

Occupational Code	Occupational Title	Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
35-0000 Food Preparation and Serving Related Occupations		41,350	45,189	3,839	9.28	386	1,400	1,786	9.10	n/a
35-1000	Supervisors, Food Preparation & Serving Workers	3,752	4,039	287	7.65	29	30	59	n/a	n/a
35-1011	Chefs and Head Cooks	296	305	9	3.04	1	4	5	19.74	8
35-1012	Managers of Food Preparation & Serving Workers	3,456	3,734	278	8.04	28	26	54	13.37	8
35-2000	Cooks and Food Preparation Workers	9,874	10,672	798	8.08	82	287	369	n/a	n/a
35-2011	Cooks, Fast Food	1,446	1,518	72	4.98	7	39	46	7.95	11
35-2012	Cooks, Institution and Cafeteria	1,492	1,689	197	13.20	20	40	60	10.69	10
35-2013	Cooks, Private Household	*	*	*	*	*	*	*	n/a	9
35-2014	Cooks, Restaurant	2,660	2,841	181	6.80	18	72	90	9.59	9
35-2015	Cooks, Short Order	1,633	1,617	-16	-0.98	0	44	44	8.01	11
35-2019	Cooks, All Other	*	*	*	*	*	*	*	10.50	10
35-2021	Food Preparation Workers	2,536	2,902	366	14.43	37	88	125	9.51	11
35-3000	Food and Beverage Serving Workers	23,733	26,205	2,472	10.42	247	880	1,127	n/a	n/a
35-3011	Bartenders	1,955	2,073	118	6.04	12	71	83	8.81	11
35-3021	Combined Food Preparation & Service Workers	10,290	11,782	1,492	14.50	149	195	344	7.97	11
35-3022	Counter Attendants, Cafeteria & Food Concession	1,695	1,814	119	7.02	12	118	130	8.32	11
35-3031	Waiters and Waitresses	8,864	9,420	556	6.27	56	482	538	8.41	11
35-3041	Food Servers, Nonrestaurant	929	1,116	187	20.13	19	14	33	9.65	11
35-9000	Other Food Preparation and Serving Related Workers	3,991	4,273	282	7.07	28	204	232	n/a	n/a
35-9011	Dining Room, Cafeteria Attend. & Bartender Help.	*	*	*	*	*	*	*	8.02	11
35-9021	Dishwashers	1,235	1,344	109	8.83	11	50	61	8.46	11
35-9031	Hosts & Hostesses, Restaurant & Lounge	1,439	1,523	84	5.84	8	98	106	8.16	11
35-9099	Food Prep. & Serving Related Workers, Other	*	*	*	*	*	*	*	11.60	11

* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

KIPDA Area

Building, Grounds Cleaning & Maintenance Occs.

Occupational Employment Outlook

Occupational Code Title		Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
37-0000 Building & Grounds Cleaning & Maintenance Occs.		16,426	18,481	2,055	12.51	206	280	486	10.66	n/a
37-1000 Supervisors, Bldg. & Grounds Cleaning Workers		2,306	2,564	258	11.19	26	28	54	n/a	n/a
37-1011	Managers of Housekeeping & Janitorial Workers	1,508	1,655	147	9.75	15	22	37	14.73	8
37-1012	Managers of Landscaping, Lawn & Grounds. Work.	798	909	111	13.91	11	5	16	17.19	8
37-2000 Building Cleaning and Pest Control Workers		11,257	12,668	1,411	12.53	141	215	356	n/a	n/a
37-2011	Janitors & Cleaners, Excl. Maids & Housekeeping	6,773	7,646	873	12.89	87	130	217	10.34	11
37-2012	Maids and Housekeeping Cleaners	4,305	4,820	515	11.96	52	81	133	8.97	11
37-2019	Building Cleaning Workers, All Other	43	51	8	19	1	1	2	10.79	11
37-2021	Pest Control Workers	136	151	15	11.03	2	3	5	13.02	10
37-3000 Grounds Maintenance Workers		2,863	3,249	386	13.48	39	38	77	n/a	n/a
37-3011	Landscaping and Groundskeeping Workers	2,582	2,933	351	13.59	35	34	69	10.88	11
37-3012	Pesticide Handlers, Sprayers & Applicators, Veg.	*	*	*	*	*	*	*	12.76	10
37-3013	Tree Trimmers and Pruners	*	*	*	*	*	*	*	12.09	11
37-3019	Grounds Maintenance Workers, All Other	193	219	26	13.47	3	3	6	12.70	11

* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

KIPDA Area

Personal Care & Service Occupations

Occupational Employment Outlook

Occupational		Employment*		Change		Job Openings			Average Wage 2010	Educ/ Training Req'd~
		2008	2018	2008-2018		Average Annual 2008-2018				
Code	Title	Estimated	Projected	Number	Percent	Growth	Separations	Total		
39-0000	Personal Care and Service Occupations	14,466	17,105	2,639	18.24	267	349	616	10.92	n/a
39-1000	Supervisors, Personal Care and Service Workers	1,267	1,412	145	11.44	15	27	42	n/a	n/a
39-1011	Gaming Supervisors	*	*	*	*	*	*	*	18.79	8
39-1012	Slot Key Persons	*	*	*	*	*	*	*	n/a	7
39-1021	Managers of Personal Service Workers	1,193	1,331	138	11.57	14	26	40	13.77	8
39-2000	Animal Care and Service Workers	1,064	1,234	170	15.98	17	17	34	n/a	n/a
39-2011	Animal Trainers	75	85	10	13.33	1	1	2	16.75	10
39-2021	Nonfarm Animal Caretakers	989	1,149	160	16.18	16	16	32	9.89	11
39-3000	Entertainment Attendants and Related Workers	1,400	1,575	175	13	18	61	79	n/a	n/a
39-3011	Gaming Dealers	331	365	34	10	3	7	10	9.33	7
39-3012	Gaming and Sports Book Writers and Runners	43	52	9	21	1	1	2	14.38	11
39-3019	Gaming Service Workers, All Other	*	*	*	*	*	*	*	n/a	10
39-3021	Motion Picture Projectionists	31	30	-1	-3.23	0	1	1	9.55	11
39-3031	Ushers, Lobby Attendants, and Ticket Takers	165	175	10	6	1	12	13	8.53	11
39-3091	Amusement and Recreation Attendants	627	700	73	12	7	31	38	8.42	11
39-3092	Costume Attendants	*	*	*	*	*	*	*	11.78	11
39-3093	Locker Room, Coatroom & Dressing Room Attend.	32	36	4	12.50	0	2	2	9.48	11
39-3099	Entertainment Attend. & Related Workers, Other	156	203	47	30.13	5	8	13	9.27	10
39-4000	Funeral Service Workers	127	154	27	21.26	3	3	6	n/a	n/a
39-4011	Embalmers	*	*	*	*	*	*	*	16.67	7
39-4021	Funeral Attendants	127	154	27	21.26	3	3	6	9.54	11
39-5000	Personal Appearance Workers	1,738	2,124	386	22.21	39	21	60	n/a	n/a
39-5011	Barbers	174	185	11	6.32	1	3	4	12.76	7
39-5012	Hairdressers, Hairstylists, and Cosmetologists	1,275	1,545	270	21	27	15	42	11.55	7
39-5092	Manicurists and Pedicurists	211	299	88	42	9	2	11	9.72	7
39-5093	Shampooers	*	*	*	*	*	*	*	n/a	11
39-5094	Skin Care Specialists	*	*	*	*	*	*	*	14.49	7
39-6000	Transportation, Tourism, and Lodging Attendants	147	151	4	3	1	4	5	n/a	n/a
39-6011	Baggage Porters and Bellhops	67	64	-3	-4.48	0	1	1	9.00	11
39-6012	Concierges	*	*	*	*	*	*	*	12.62	10
39-6021	Tour Guides and Escorts	65	72	7	10.77	1	3	4	11.00	10
39-6022	Travel Guides	*	*	*	*	*	*	*	n/a	10
39-6031	Flight Attendants	*	*	*	*	*	*	*	n/a	9
39-6032	Transp. Attend., Excl. Flight Attend. & Bag Porters	*	*	*	*	*	*	*	n/a	7

* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

KIPDA Area

Personal Care & Service Occs. (cont'd)

Occupational Employment Outlook

Occupational		Employment*		Change		Job Openings			Average	Educ/
Code	Title	2008	2018	2008-2018		Average Annual 2008-2018			Wage	Training
		Estimated	Projected	Number	Percent	Growth	Separations	Total	2010	Req'd~
39-9000	Other Personal Care and Service Workers	8,723	10,455	1,732	19.86	176	215	391	n/a	n/a
39-9011	Child Care Workers	4,772	5,649	877	18.38	88	137	225	8.97	11
39-9021	Personal and Home Care Aides	1,212	1,719	507	41.83	51	21	72	8.56	11
39-9031	Fitness Trainers and Aerobics Instructors	885	962	77	8.70	8	17	25	13.60	7
39-9032	Recreation Workers	1,107	1,218	111	10.03	11	21	32	11.99	11
39-9041	Residential Advisors	573	761	188	32.81	19	16	35	10.40	11
39-9099	Personal Care and Service Workers, All Other	174	146	-28	-16.09	0	4	4	10.35	11

* Employment under 30 and unreliable data suppressed n/a - Not Available ~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

KIPDA Area

Sales & Related Occupations

Occupational Employment Outlook

Occupational Code Title		Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
41-0000 Sales and Related Occupations		55,661	59,040	3,379	6.07	378	1,653	2,031	15.16	n/a
41-1000 Supervisors, Sales Workers		8,607	8,813	206	2.39	24	165	189	n/a	n/a
41-1011	Managers of Retail Sales Workers	6,216	6,458	242	3.89	24	130	154	16.26	8
41-1012	Managers of Non-Retail Sales Workers	2,391	2,355	-36	-1.51	0	35	35	28.15	8
41-2000 Retail Sales Workers		29,126	30,699	1,573	5.40	190	1,099	1,289	n/a	n/a
41-2011	Cashiers	11,657	11,433	-224	-1.92	0	554	554	8.37	11
41-2012	Gaming Change Persons and Booth Cashiers	*	*	*	*	*	*	*	n/a	11
41-2021	Counter and Rental Clerks	2,847	3,335	488	17.14	49	109	158	9.98	11
41-2022	Parts Salespersons	*	*	*	*	*	*	*	12.54	10
41-2031	Retail Salespersons	13,903	15,311	1,408	10.13	141	428	569	10.74	11
41-3000 Sales Representatives, Services		6,867	7,785	918	13.37	93	155	248	n/a	n/a
41-3011	Advertising Sales Agents	579	638	59	10.19	6	10	16	18.29	10
41-3021	Insurance Sales Agents	1,725	1,873	148	8.58	15	38	53	28.82	7
41-3031	Securities, Commodities & Financial Serv. Sales	1,122	1,206	84	7.49	8	29	37	36.88	5
41-3041	Travel Agents	160	152	-8	-5.00	0	1	1	13.02	7
41-3099	Sales Representatives, Services, All Other	3,281	3,916	635	19.35	64	77	141	25.53	8
41-4000 Sales Reps., Wholesale and Manufacturing		8,381	8,920	539	6.43	54	185	239	n/a	n/a
41-4011	Sales Reps., Wholesale & Manuf., Tech. & Sci.	2,175	2,381	206	9.47	21	48	69	38.83	8
41-4012	Sales Reps., Wholesale & Manuf., Excl. Tech. & Sci.	6,206	6,539	333	5.37	33	137	170	28.04	8
41-9000 Other Sales and Related Workers		2,680	2,823	143	5.34	18	49	67	n/a	n/a
41-9011	Demonstrators and Product Promoters	302	362	60	19.87	6	9	15	11.21	10
41-9012	Models	36	42	6	17	1	1	2	n/a	10
41-9021	Real Estate Brokers	*	*	*	*	*	*	*	16.62	8
41-9022	Real Estate Sales Agents	1,024	1,052	28	2.73	3	16	19	14.99	7
41-9031	Sales Engineers	140	139	-1	-0.71	0	4	4	33.18	5
41-9041	Telemarketers	333	298	-35	-10.51	0	12	12	11.76	11
41-9091	Door-To-Door Sales, News, Street Vend. & Related	*	*	*	*	*	*	*	12.29	11
41-9099	Sales and Related Workers, All Other	813	893	80	9.84	8	7	15	15.59	10

* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

KIPDA Area

Office & Administrative Support Occs.

Occupational Employment Outlook

Occupational		Employment*		Change		Job Openings			Average Wage 2010	Educ/ Training Req'd~
		2008	2018	2008-2018		Average Annual 2008-2018				
Code	Title	Estimated	Projected	Number	Percent	Growth	Separations	Total		
43-0000	Office and Administrative Support Occupations	91,971	95,788	3,817	4.15	625	1,950	2,575	14.32	n/a
43-1000	Supervisors, Office & Admin. Support Workers	6,516	6,679	163	2.50	16	135	151	n/a	n/a
43-1011	Managers of Office & Admin. Support Workers	6,516	6,679	163	2.50	16	135	151	20.27	8
43-2000	Communications Equipment Operators	747	576	-171	-22.89	0	14	14	n/a	n/a
43-2011	Switchboard Operators, Incl. Answering Service	524	458	-66	-12.60	0	11	11	11.97	11
43-2021	Telephone Operators	*	*	*	*	*	*	*	14.15	11
43-2099	Communications Equipment Operators, All Other	*	*	*	*	*	*	*	17.49	11
43-3000	Financial Clerks	14,435	15,802	1,367	9.47	139	258	397	n/a	n/a
43-3011	Bill and Account Collectors	2,638	3,167	529	20.05	53	40	93	13.20	11
43-3021	Billing and Posting Clerks and Machine Operators	2,849	2,989	140	4.91	14	36	50	14.62	11
43-3031	Bookkeeping, Accounting, and Auditing Clerks	6,819	7,398	579	8.49	58	107	165	14.98	10
43-3041	Gaming Cage Workers	*	*	*	*	*	*	*	n/a	11
43-3051	Payroll and Timekeeping Clerks	641	636	-5	-0.78	0	16	16	15.76	10
43-3061	Procurement Clerks	*	*	*	*	*	*	*	17.59	10
43-3071	Tellers	1,217	1,354	137	11.26	14	53	67	10.66	11
43-4000	Information and Record Clerks	23,108	25,089	1,981	8.57	290	593	883	n/a	n/a
43-4011	Brokerage Clerks	*	*	*	*	*	*	*	19.06	10
43-4021	Correspondence Clerks	*	*	*	*	*	*	*	16.71	11
43-4031	Court, Municipal, and License Clerks	852	876	24	2.82	2	20	22	14.82	11
43-4041	Credit Authorizers, Checkers, and Clerks	108	89	-19	-17.59	0	3	3	16.06	11
43-4051	Customer Service Representatives	9,652	11,610	1,958	20.29	196	269	465	13.99	10
43-4061	Eligibility Interviewers, Government Programs	153	167	14	9.15	1	3	4	20.62	10
43-4071	File Clerks	920	519	-401	-43.59	0	24	24	11.04	11
43-4081	Hotel, Motel, and Resort Desk Clerks	537	564	27	5.03	3	22	25	8.50	11
43-4111	Interviewers, Excl. Eligibility and Loan	1,715	1,747	32	1.87	3	45	48	12.09	11
43-4121	Library Assistants, Clerical	272	292	20	7.35	2	9	11	10.62	11
43-4131	Loan Interviewers and Clerks	606	583	-23	-3.80	0	11	11	13.97	11
43-4141	New Accounts Clerks	*	*	*	*	*	*	*	13.34	8
43-4151	Order Clerks	1,058	722	-336	-31.76	0	22	22	13.43	11
43-4161	H.R. Assistants, Excl. Payroll & Timekeeping	415	459	44	10.60	4	3	7	17.39	11
43-4171	Receptionists and Information Clerks	5,245	6,029	784	14.95	78	128	206	11.03	11
43-4181	Reservation, Transp. Ticket Agents & Travel Clerks	505	493	-12	-2.38	0	11	11	n/a	11
43-4199	Information and Record Clerks, All Other	587	512	-75	-12.78	0	9	9	16.37	11

* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

KIPDA Area

Office & Administrative Support Occs. (cont'd)

Occupational Employment Outlook

Occupational		Employment*		Change		Job Openings			Average Wage	Educ/ Training Req'd~
		2008	2018	2008-2018		Average Annual 2008-2018				
Code	Title	Estimated	Projected	Number	Percent	Growth	Separations	Total	2010	
43-5000	Material Recording, Dispatching & Distributing Work.	19,277	19,150	-127	-0.66	44	466	510	n/a	n/a
43-5011	Cargo and Freight Agents	972	1,036	64	6.58	6	27	33	17.57	10
43-5021	Couriers and Messengers	620	625	5	0.81	1	17	18	10.61	11
43-5031	Police, Fire, and Ambulance Dispatchers	352	407	55	15.63	6	9	15	13.74	10
43-5032	Dispatchers, Except Police, Fire, and Ambulance	881	888	7	0.79	1	22	23	16.38	10
43-5041	Meter Readers, Utilities	114	103	-11	-9.65	0	4	4	13.89	11
43-5051	Postal Service Clerks	211	197	-14	-6.64	0	5	5	24.90	11
43-5052	Postal Service Mail Carriers	1,128	1,051	-77	-6.83	0	33	33	23.03	11
43-5053	Postal Service Mail Sorters, Processors	852	719	-133	-15.61	0	9	9	21.02	11
43-5061	Production, Planning, and Expediting Clerks	1,035	1,085	50	4.83	5	28	33	19.84	10
43-5071	Shipping, Receiving, and Traffic Clerks	4,943	5,201	258	5.22	26	118	144	14.74	11
43-5081	Stock Clerks and Order Fillers	7,967	7,653	-314	-3.94	0	189	189	11.52	11
43-5111	Weigher, Measurer, Checker & Sampler, Records	202	185	-17	-8.42	0	5	5	13.39	11
43-6000	Secretaries and Administrative Assistants	13,843	14,652	809	5.84	87	220	307	n/a	n/a
43-6011	Executive Secretaries & Admin. Assistants	6,879	7,560	681	9.90	68	110	178	16.90	8
43-6012	Legal Secretaries	704	743	39	5.54	4	11	15	15.55	6
43-6013	Medical Secretaries	1,455	1,600	145	9.97	15	23	38	13.01	10
43-6014	Secretaries, Excl. Legal, Medical, and Executive	4,805	4,749	-56	-1.17	0	77	77	12.48	10
43-9000	Other Office and Administrative Support Workers	14,045	13,840	-205	-1.46	49	264	313	n/a	n/a
43-9011	Computer Operators	462	356	-106	-22.94	0	7	7	17.06	10
43-9021	Data Entry Keyers	1,284	1,265	-19	-1.48	0	32	32	13.38	10
43-9022	Word Processors and Typists	224	202	-22	-9.82	0	4	4	15.07	10
43-9031	Desktop Publishers	*	*	*	*	*	*	*	17.89	7
43-9041	Insurance Claims and Policy Processing Clerks	2,696	2,520	-176	-6.53	0	32	32	15.52	10
43-9051	Mail Clerks & Mail Machine Operators, Excl. Postal	775	637	-138	-17.81	0	20	20	12.72	11
43-9061	Office Clerks, General	6,691	7,181	490	7.32	49	123	172	12.44	11
43-9071	Office Machine Operators, Excl. Computer	254	223	-31	-12.21	0	8	8	12.69	11
43-9081	Proofreaders and Copy Markers	214	190	-24	-11.22	0	4	4	14.82	11
43-9111	Statistical Assistants	*	*	*	*	*	*	*	n/a	10
43-9199	Office & Admin. Support Workers, All Other	1,333	1,158	-175	-13.13	0	30	30	15.79	11

* Employment under 30 and unreliable data suppressed n/a - Not Available ~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

KIPDA Area

Farming, Fishing & Forestry Occupations

Occupational Employment Outlook

Occupational Code Title		Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
45-0000	Farming, Fishing, and Forestry Occupations	1,435	1,426	-9	-0.63	3	35	38	12.65	n/a
45-1000	Supervisors, Farming, Fishing & Forestry Workers	100	106	6	6.00	1	2	3	n/a	n/a
45-1011	Managers of Farming, Fishing & Forestry Workers	100	106	6	6.00	1	2	3	19.73	8
45-1012	Farm Labor Contractors	*	*	*	*	*	*	*	n/a	8
45-2000	Agricultural Workers	1,319	1,306	-13	-0.99	2	33	35	n/a	n/a
45-2011	Agricultural Inspectors	*	*	*	*	*	*	*	19.21	8
45-2021	Animal Breeders	*	*	*	*	*	*	*	13.16	8
45-2041	Graders and Sorters, Agricultural Products	*	*	*	*	*	*	*	14.94	8
45-2091	Agricultural Equipment Operators	86	79	-7	-8.14	0	2	2	13.81	11
45-2092	Farmworkers & Laborers, Crop, Nursery	890	867	-23	-2.58	0	22	22	10.13	11
45-2093	Farmworkers, Farm and Ranch Animals	251	269	18	7.17	2	6	8	10.53	11
45-2099	Agricultural Workers, All Other	*	*	*	*	*	*	*	10.90	11
45-3000	Fishing and Hunting Workers	*	*	*	*	*	*	*	n/a	n/a
45-3011	Fishers and Related Fishing Workers	*	*	*	*	*	*	*	n/a	11
45-4000	Forest, Conservation, and Logging Workers	*	*	*	*	*	*	*	n/a	n/a
45-4011	Forest and Conservation Workers	*	*	*	*	*	*	*	n/a	10
45-4021	Fallers	*	*	*	*	*	*	*	12.02	10
45-4022	Logging Equipment Operators	*	*	*	*	*	*	*	12.75	10
45-4023	Log Graders and Scalers	*	*	*	*	*	*	*	17.41	10
45-4029	Logging Workers, All Other	*	*	*	*	*	*	*	n/a	10

* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

KIPDA Area

Construction & Extraction Occupations

Occupational Employment Outlook

Occupational Code	Occupational Title	Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
47-0000 Construction and Extraction Occupations		24,088	27,453	3,365	13.97	339	449	788	18.74	n/a
47-1000	Supervisors, Construction and Extraction Workers	2,118	2,421	303	14.31	30	30	60	n/a	n/a
47-1011	Managers of Constr. Trades & Extraction Workers	2,118	2,421	303	14.31	30	30	60	26.19	8
47-2000	Construction Trades Workers	19,154	21,863	2,709	14.14	273	351	624	n/a	n/a
47-2011	Boilermakers	59	71	12	20.34	1	2	3	23.63	9
47-2021	Brickmasons and Blockmasons	610	705	95	15.57	10	13	23	19.96	9
47-2022	Stonemasons	*	*	*	*	*	*	*	15.97	9
47-2031	Carpenters	3,316	3,807	491	14.81	49	45	94	17.16	9
47-2041	Carpet Installers	84	84	0	0.00	0	1	1	14.64	10
47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles	40	30	-10	-25.00	0	1	1	13.58	10
47-2043	Floor Sanders and Finishers	147	152	5	3.40	1	2	3	17.99	10
47-2044	Tile and Marble Setters	325	386	61	18.77	6	5	11	15.71	9
47-2051	Cement Masons and Concrete Finishers	588	684	96	16.33	10	17	27	15.58	10
47-2053	Terrazzo Workers and Finishers	*	*	*	*	*	*	*	n/a	9
47-2061	Construction Laborers	2,644	3,032	388	14.67	39	20	59	14.56	10
47-2071	Paving, Surfacing & Tamping Equip. Operators	114	129	15	13.16	2	2	4	16.78	10
47-2072	Pile-Driver Operators	*	*	*	*	*	*	*	n/a	10
47-2073	Operating Engineers & Other Constr. Equip. Ops.	1,342	1,504	162	12.07	16	26	42	18.95	10
47-2081	Drywall and Ceiling Tile Installers	840	942	102	12.14	10	12	22	16.76	10
47-2082	Tapers	51	58	7	13.73	1	1	2	17.60	10
47-2111	Electricians	2,734	3,052	318	11.63	32	70	102	20.63	9
47-2121	Glaziers	244	278	34	13.93	3	4	7	14.85	9
47-2131	Insulation Workers, Floor, Ceiling, and Wall	173	193	20	11.56	2	4	6	17.99	10
47-2132	Insulation Workers, Mechanical	*	*	*	*	*	*	*	22.09	10
47-2141	Painters, Construction and Maintenance	1,223	1,443	220	17.99	22	22	44	14.96	10
47-2142	Paperhangers	111	100	-11	-9.91	0	2	2	n/a	10
47-2151	Pipelayers	66	74	8	12.12	1	1	2	19.03	11
47-2152	Plumbers, Pipefitters, and Steamfitters	2,516	2,908	392	15.58	39	52	91	21.74	9
47-2161	Plasterers and Stucco Masons	45	51	6	13.33	1	1	2	16.50	9
47-2171	Reinforcing Iron and Rebar Workers	*	*	*	*	*	*	*	22.79	9
47-2181	Roofers	635	762	127	20.00	13	15	28	16.17	10
47-2211	Sheet Metal Workers	463	533	70	15.12	7	11	18	19.87	9
47-2221	Structural Iron and Steel Workers	499	557	58	11.62	6	16	22	22.46	9

* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

KIPDA Area

Construction & Extraction Occs. (cont'd)

Occupational Employment Outlook

Occupational		Employment*		Change		Job Openings			Average Wage 2010	Educ/ Training Req'd~
		2008	2018	2008-2018		Average Annual 2008-2018				
Code	Title	Estimated	Projected	Number	Percent	Growth	Separations	Total		
47-3000	Helpers, Construction Trades	1,521	1,737	216	14.20	22	39	61	n/a	n/a
47-3011	Helpers--Brick, Block, Stone, Tile & Marble Setters	113	132	19	16.81	2	3	5	15.91	11
47-3012	Helpers--Carpenters	226	260	34	15.04	3	6	9	12.46	11
47-3013	Helpers--Electricians	492	547	55	11.18	6	12	18	11.61	11
47-3014	Helpers--Painter, Paperhanger, Plasterer & Stucco	*	*	*	*	*	*	*	10.90	11
47-3015	Helpers--Pipelayer & fitter, Plumber & Steamfitter	493	579	86	17.44	9	13	22	11.99	11
47-3016	Helpers--Roofers	119	133	14	11.76	1	3	4	12.55	11
47-3019	Helpers, Construction Trades, All Other	*	*	*	*	*	*	*	12.34	11
47-4000	Other Construction and Related Workers	1,173	1,305	132	11.25	13	26	39	n/a	n/a
47-4011	Construction and Building Inspectors	263	298	35	13.31	4	5	9	22.56	8
47-4021	Elevator Installers and Repairers	*	*	*	*	*	*	*	30.86	9
47-4031	Fence Erectors	61	59	-2	-3.28	0	1	1	9.70	10
47-4041	Hazardous Materials Removal Workers	200	221	21	10.50	2	4	6	15.61	10
47-4051	Highway Maintenance Workers	177	189	12	6.78	1	3	4	12.65	10
47-4061	Rail-Track Laying and Maint. Equip. Operators	*	*	*	*	*	*	*	20.61	10
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	41	45	4	9.76	0	1	1	12.53	10
47-4099	Construction and Related Workers, All Other	154	178	24	15.58	2	4	6	14.68	10
47-5000	Extraction Workers	122	127	5	4.10	1	4	5	n/a	n/a
47-5011	Derrick Operators, Oil and Gas	*	*	*	*	*	*	*	12.42	10
47-5012	Rotary Drill Operators, Oil and Gas	*	*	*	*	*	*	*	27.52	10
47-5013	Service Unit Operators, Oil, Gas, and Mining	*	*	*	*	*	*	*	17.14	10
47-5021	Earth Drillers, Excl. Oil and Gas	68	76	8	11.76	1	2	3	19.97	10
47-5031	Explosives Workers, Ordnance Handling & Blasters	*	*	*	*	*	*	*	19.45	10
47-5041	Continuous Mining Machine Operators	*	*	*	*	*	*	*	21.77	10
47-5042	Mine Cutting and Channeling Machine Operators	*	*	*	*	*	*	*	28.50	10
47-5049	Mining Machine Operators, All Other	*	*	*	*	*	*	*	20.58	10
47-5051	Rock Splitters, Quarry	*	*	*	*	*	*	*	n/a	10
47-5061	Roof Bolters, Mining	*	*	*	*	*	*	*	21.49	10
47-5071	Roustabouts, Oil and Gas	*	*	*	*	*	*	*	13.90	10
47-5081	Helpers--Extraction Workers	*	*	*	*	*	*	*	17.34	11
47-5099	Extraction Workers, All Other	*	*	*	*	*	*	*	19.02	10

* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

KIPDA Area

Installation, Maintenance & Repair Occs.

Occupational Employment Outlook

Occupational Code Title		Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
49-0000 Installation, Maintenance, and Repair Occupations		23,775	25,198	1,423	5.99	160	415	575	19.24	n/a
49-1000 Supervisors of Installation, Maint. & Repair Workers		2,307	2,388	81	3.51	8	54	62	n/a	n/a
49-1011	Managers of Mechanics, Installers, and Repairers	2,307	2,388	81	3.51	8	54	62	25.60	8
49-2000 Electrical & Electronic Equip. Mechanics & Installers		3,044	3,012	-32	-1.05	7	62	69	n/a	n/a
49-2011	Computer, Automated Teller & Office Mach. Repair	1,155	1,129	-26	-2.25	0	13	13	18.42	7
49-2021	Radio Mechanics	*	*	*	*	*	*	*	22.85	7
49-2022	Telecommunications Equip. Installers & Repairers	851	792	-59	-6.93	0	21	21	22.93	7
49-2091	Avionics Technicians	*	*	*	*	*	*	*	24.26	7
49-2092	Electric Motor, Power Tool, and Related Repairers	272	278	6	2.21	1	10	11	15.96	7
49-2093	Elec. & Electron. Install. & Repair., Transp. Equip.	*	*	*	*	*	*	*	21.11	7
49-2094	Elec. & Electron. Repair- Comm. & Ind. Equip.	291	311	20	6.87	2	10	12	22.28	7
49-2095	Elec. & Electron. Repair- Pwrhouse, Subst. & Relay	*	*	*	*	*	*	*	26.08	7
49-2096	Electron. Equip. Install. & Repair., Motor Vehicles	76	79	3	3.95	0	2	2	17.51	7
49-2097	Electron. Home Entertain. Equip. Install & Repair	135	117	-18	-13.33	0	1	1	15.70	7
49-2098	Security and Fire Alarm Systems Installers	192	234	42	21.88	4	3	7	20.58	7
49-3000 Vehicle and Mobile Equip. Mechanics, Installers		6,560	6,922	362	5.52	39	132	171	n/a	n/a
49-3011	Aircraft Mechanics and Service Technicians	596	669	73	12.25	7	6	13	33.51	7
49-3021	Automotive Body and Related Repairers	607	604	-3	-0.49	0	14	14	19.03	9
49-3022	Automotive Glass Installers and Repairers	141	151	10	7.09	1	5	6	15.46	9
49-3023	Automotive Service Technicians and Mechanics	2,195	2,277	82	3.74	8	44	52	14.97	7
49-3031	Bus & Truck Mechanics & Diesel Eng. Specialists	1,405	1,487	82	5.84	8	31	39	17.87	7
49-3041	Farm Equipment Mechanics	96	86	-10	-10.42	0	2	2	13.34	9
49-3042	Mobile Heavy Equip. Mechanics, Excl. Engines	718	815	97	13.51	10	14	24	19.80	9
49-3043	Rail Car Repairers	66	71	5	7.58	1	1	2	20.70	9
49-3051	Motorboat Mechanics	*	*	*	*	*	*	*	12.82	9
49-3052	Motorcycle Mechanics	51	50	-1	-1.96	0	1	1	15.94	9
49-3053	Outdoor Power Equip. & Other Small Eng. Mech.	232	215	-17	-7.33	0	5	5	14.77	10
49-3091	Bicycle Repairers	36	39	3	8	0	1	1	12.51	10
49-3092	Recreational Vehicle Service Technicians	*	*	*	*	*	*	*	14.92	9
49-3093	Tire Repairers and Changers	400	440	40	10.00	4	8	12	11.69	11

* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

KIPDA Area

Installation, Maintenance & Repair Occs. (cont'd)

Occupational Employment Outlook

Occupational		Employment*		Change		Job Openings			Average Wage 2010	Educ/ Training Req'd~
		2008	2018	2008-2018		Average Annual 2008-2018				
Code	Title	Estimated	Projected	Number	Percent	Growth	Separations	Total		
49-9000	Other Installation, Maintenance & Repair Occs.	11,864	12,876	1,012	8.53	105	167	272	n/a	n/a
49-9011	Mechanical Door Repairers	*	*	*	*	*	*	*	14.47	10
49-9012	Control & Valve Install. & Repair., Excl. Mech. Door	131	147	16	12.21	2	2	4	17.09	10
49-9021	Heating, A.C. & Refrigeration Mech. & Installers	662	758	96	14.50	10	12	22	18.04	7
49-9031	Home Appliance Repairers	421	402	-19	-4.51	0	10	10	16.69	9
49-9041	Industrial Machinery Mechanics	1,665	1,766	101	6.07	10	28	38	22.27	9
49-9042	Maintenance and Repair Workers, General	4,136	4,385	249	6.02	25	10	35	16.27	10
49-9043	Maintenance Workers, Machinery	111	110	-1	-0.90	0	2	2	18.13	10
49-9044	Millwrights	314	354	40	12.74	4	4	8	25.73	9
49-9045	Refractory Materials Repairers, Excl. Brickmasons	*	*	*	*	*	*	*	n/a	10
49-9051	Electrical Power-Line Installers and Repairers	1,012	1,180	168	16.60	17	32	49	23.94	9
49-9052	Telecommunications Line Installers and Repairers	1,187	1,378	191	16.09	19	31	50	22.26	9
49-9061	Camera and Photographic Equipment Repairers	43	40	-3	-7	0	1	1	14.91	9
49-9062	Medical Equipment Repairers	298	353	55	18.46	6	8	14	19.58	6
49-9063	Musical Instrument Repairers and Tuners	92	99	7	7.61	1	3	4	14.85	9
49-9064	Watch Repairers	*	*	*	*	*	*	*	18.11	9
49-9069	Precision Instrument & Equip. Repairers, Other	191	195	4	2.09	0	5	5	31.52	10
49-9091	Coin, Vending & Amusement Mach. Serv. & Repair.	112	96	-16	-14.29	0	3	3	13.49	10
49-9092	Commercial Divers	*	*	*	*	*	*	*	n/a	10
49-9093	Fabric Menders, Excl. Garment	*	*	*	*	*	*	*	n/a	10
49-9094	Locksmiths and Safe Repairers	40	42	2	5	0	1	1	16.01	10
49-9095	Manufactured Building and Mobile Home Installers	*	*	*	*	*	*	*	11.01	10
49-9096	Riggers	*	*	*	*	*	*	*	26.54	11
49-9097	Signal and Track Switch Repairers	*	*	*	*	*	*	*	n/a	10
49-9098	Helpers--Installation, Maint. & Repair Workers	346	378	32	9	3	8	11	13.55	11
49-9099	Installation, Maint. & Repair Workers, All Other	1,090	1,180	90	8.26	9	7	16	18.53	10

* Employment under 30 and unreliable data suppressed n/a - Not Available ~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

KIPDA Area

Production Occupations

Occupational Employment Outlook

Occupational Code	Occupational Title	Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
51-0000 Production Occupations		40,411	38,133	-2,278	-5.64	59	811	870	15.80	n/a
51-1000	Supervisors, Production Workers	2,588	2,429	-159	-6.14	0	43	43	n/a	n/a
51-1011	Managers of Production and Operating Workers	2,588	2,429	-159	-6.14	0	43	43	24.26	8
51-2000	Assemblers and Fabricators	12,679	11,545	-1,134	-8.94	1	261	262	n/a	n/a
51-2011	Aircraft Structure, Surface, Rig & Systems Assemb.	*	*	*	*	*	*	*	27.06	10
51-2021	Coil Winders, Tapers, and Finishers	55	37	-18	-32.73	0	1	1	13.90	11
51-2022	Electrical and Electronic Equipment Assemblers	395	290	-105	-26.58	0	7	7	14.94	11
51-2023	Electromechanical Equipment Assemblers	*	*	*	*	*	*	*	16.83	11
51-2031	Engine and Other Machine Assemblers	*	*	*	*	*	*	*	18.72	11
51-2041	Structural Metal Fabricators and Fitters	259	268	9	3.47	1	5	6	15.87	10
51-2091	Fiberglass Laminators and Fabricators	*	*	*	*	*	*	*	12.55	10
51-2092	Team Assemblers	6,865	6,450	-415	-6.05	0	143	143	14.86	10
51-2093	Timing Device Assemblers, Adjusters & Calibrators	*	*	*	*	*	*	*	n/a	10
51-2099	Assemblers and Fabricators, All Other	4,979	4,386	-593	-11.91	0	103	103	17.41	10
51-3000	Food Processing Workers	1,374	1,519	145	10.55	15	40	55	n/a	n/a
51-3011	Bakers	262	301	39	14.89	4	6	10	12.23	9
51-3021	Butchers and Meat Cutters	262	258	-4	-1.53	0	8	8	14.27	9
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	376	435	59	15.69	6	12	18	11.07	11
51-3023	Slaughterers and Meat Packers	76	88	12	15.79	1	2	3	11.28	10
51-3091	Food & Tobacco Roast., Baking, Drying Mach. Ops.	*	*	*	*	*	*	*	11.33	11
51-3092	Food Batchmakers	294	329	35	11.90	4	8	12	15.06	11
51-3093	Food Cooking Machine Operators and Tenders	*	*	*	*	*	*	*	10.41	11
51-4000	Metal Workers and Plastic Workers	7,558	7,125	-433	-5.73	9	147	156	n/a	n/a
51-4011	Computer-Controlled Machine Tool Operators	278	273	-5	-1.80	0	3	3	16.01	10
51-4012	Numerical Tool and Process Control Programmers	56	51	-5	-8.93	0	1	1	21.33	8
51-4021	Extruding & Drawing Mach. Setters, Ops. & Tenders	223	206	-17	-7.62	0	6	6	17.19	10
51-4022	Forging Machine Setters, Operators & Tenders	*	*	*	*	*	*	*	16.59	10
51-4023	Rolling Machine Setters, Operators, and Tenders	173	168	-5	-2.89	0	4	4	15.10	10

* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

KIPDA Area

Production Occupations (cont'd)

Occupational Employment Outlook

Occupational		Employment*		Change		Job Openings			Average	Educ/
Code	Title	2008	2018	2008-2018		Average Annual 2008-2018			Wage	Training
		Estimated	Projected	Number	Percent	Growth	Separations	Total	2010	Req'd~
51-4031	Cut, Punch & Press Mach. Setters, Ops. & Tenders	1,277	1,086	-191	-14.96	0	31	31	14.29	10
51-4032	Drill & Boring Mach. Tool Setters, Ops. & Tenders	77	63	-14	-18.18	0	2	2	15.66	10
51-4033	Grind, Lap, Polish & Buff Mach. Tool Setters, Ops.	279	240	-39	-13.98	0	3	3	15.46	10
51-4034	Lathe & Turning Mach. Tool Setters, Ops. & Tenders	194	167	-27	-13.92	0	4	4	15.37	10
51-4035	Milling & Planing Machine Setters, Ops. & Tenders	*	*	*	*	*	*	*	15.22	10
51-4041	Machinists	1,131	1,154	23	2.03	2	18	20	18.18	9
51-4051	Metal-Refining Furnace Operators and Tenders	*	*	*	*	*	*	*	19.16	10
51-4052	Pourers and Casters, Metal	*	*	*	*	*	*	*	16.29	10
51-4061	Model Makers, Metal and Plastic	*	*	*	*	*	*	*	19.91	9
51-4062	Patternmakers, Metal and Plastic	*	*	*	*	*	*	*	n/a	9
51-4071	Foundry Mold and Coremakers	*	*	*	*	*	*	*	n/a	10
51-4072	Molding, Coremaking & Casting Mach. Setters, Ops.	392	349	-43	-10.97	0	9	9	13.95	10
51-4081	Multiple Mach. Tool Setters, Ops. & Tenders	378	380	2	0.53	0	8	8	14.47	10
51-4111	Tool and Die Makers	537	479	-58	-10.80	0	7	7	21.85	9
51-4121	Welders, Cutters, Solderers, and Brazers	1,630	1,693	63	3.87	6	35	41	16.11	7
51-4122	Welding, Soldering & Brazing Mach. Setters, Ops.	173	173	0	0.00	0	4	4	15.37	7
51-4191	Heat Treating Equip. Setters, Ops. & Tenders	*	*	*	*	*	*	*	15.70	10
51-4192	Lay-Out Workers, Metal and Plastic	*	*	*	*	*	*	*	16.46	10
51-4193	Plating & Coating Mach. Setters, Ops. & Tenders	160	142	-18	-11.25	0	5	5	13.48	10
51-4194	Tool Grinders, Filers, and Sharpeners	88	81	-7	-7.95	0	2	2	17.31	10
51-4199	Metal Workers and Plastic Workers, All Other	218	164	-54	-24.77	0	4	4	15.12	10
51-5000	Printing Workers	2,596	2,397	-199	-7.67	0	48	48	n/a	n/a
51-5011	Bindery Workers	458	374	-84	-18.34	0	7	7	15.53	11
51-5012	Bookbinders	55	49	-6	-10.91	0	1	1	15.67	10
51-5021	Job Printers	194	193	-1	-0.52	0	2	2	16.23	9
51-5022	Prepress Technicians and Workers	432	352	-80	-18.52	0	7	7	16.66	7
51-5023	Printing Machine Operators	1,457	1,429	-28	-1.92	0	32	32	16.79	10

* Employment under 30 and unreliable data suppressed n/a - Not Available ~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

KIPDA Area

Production Occupations (cont'd)

Occupational Employment Outlook

Occupational Code Title		Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
51-6000	Textile, Apparel, and Furnishings Workers	1,597	1,624	27	1.69	11	27	38	n/a	n/a
51-6011	Laundry and Dry-Cleaning Workers	791	894	103	13.02	10	18	28	9.67	10
51-6021	Pressers, Textile, Garment, and Related Materials	222	225	3	1.35	0	2	2	9.24	11
51-6031	Sewing Machine Operators	322	288	-34	-10.56	0	3	3	9.93	10
51-6041	Shoe and Leather Workers and Repairers	*	*	*	*	*	*	*	n/a	9
51-6042	Shoe Machine Operators and Tenders	*	*	*	*	*	*	*	n/a	10
51-6051	Sewers, Hand	*	*	*	*	*	*	*	12.25	11
51-6052	Tailors, Dressmakers, and Custom Sewers	81	76	-5	-6.17	0	1	1	13.69	9
51-6061	Textile Bleaching & Dyeing Mach. Ops. & Tenders	*	*	*	*	*	*	*	n/a	10
51-6062	Textile Cutting Mach. Setters, Ops. & Tenders	*	*	*	*	*	*	*	10.79	10
51-6063	Textile Knitting & Weaving Mach. Setters, Ops.	*	*	*	*	*	*	*	12.28	9
51-6064	Textile Wind, Twist. & Drawing Out Mach. Setters	*	*	*	*	*	*	*	14.34	10
51-6091	Extruding & Forming Mach. Setters, Ops. & Tenders	*	*	*	*	*	*	*	12.94	10
51-6092	Fabric and Apparel Patternmakers	*	*	*	*	*	*	*	n/a	9
51-6093	Upholsterers	110	89	-21	-19.09	0	2	2	14.48	9
51-6099	Textile, Apparel & Furnishings Workers, All Other	*	*	*	*	*	*	*	19.29	11
51-7000	Woodworkers	884	902	18	2.04	2	22	24	n/a	n/a
51-7011	Cabinetmakers and Bench Carpenters	236	235	-1	-0.42	0	7	7	14.83	9
51-7021	Furniture Finishers	42	38	-4	-9.52	0	1	1	13.10	9
51-7031	Model Makers, Wood	*	*	*	*	*	*	*	n/a	9
51-7032	Patternmakers, Wood	*	*	*	*	*	*	*	n/a	9
51-7041	Sawing Machine Setters, Ops. & Tenders, Wood	239	262	23	9.62	2	5	7	11.82	10
51-7042	Woodworking Machine Setters, Ops. & Tenders	361	362	1	0.28	0	9	9	11.88	10
51-7099	Woodworkers, All Other	*	*	*	*	*	*	*	9.51	10

* Employment under 30 and unreliable data suppressed n/a - Not Available ~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

KIPDA Area

Production Occupations (cont'd)

Occupational Employment Outlook

Occupational		Employment*		Change		Job Openings			Average Wage	Educ/ Training Req'd~
		2008	2018	2008-2018		Average Annual 2008-2018				
Code	Title	Estimated	Projected	Number	Percent	Growth	Separations	Total	2010	
51-8000	Plant and System Operators	679	629	-50	-7.36	2	18	20	n/a	n/a
51-8012	Power Distributors and Dispatchers	*	*	*	*	*	*	*	35.30	9
51-8013	Power Plant Operators	*	*	*	*	*	*	*	30.10	9
51-8021	Stationary Engineers and Boiler Operators	95	91	-4	-4.21	0	2	2	18.20	9
51-8031	Water & Liquid Waste Treatment Plant & Sys. Ops.	86	98	12	13.95	1	2	3	15.71	9
51-8091	Chemical Plant and System Operators	294	225	-69	-23.47	0	8	8	24.73	9
51-8092	Gas Plant Operators	*	*	*	*	*	*	*	26.28	9
51-8093	Petroleum Pump System Ops., Refinery Ops.	*	*	*	*	*	*	*	27.02	9
51-8099	Plant and System Operators, All Other	42	44	2	4.76	0	1	1	22.82	9
51-9000	Other Production Occupations	10,456	9,963	-493	-4.72	19	206	225	n/a	n/a
51-9011	Chemical Equipment Operators and Tenders	517	450	-67	-12.96	0	12	12	23.62	10
51-9012	Separate, Filter, Clarify, Precipitate & Still Mach. Ops.	192	184	-8	-4.17	0	4	4	19.03	10
51-9021	Crush, Grind & Polish Mach. Setters, Ops. & Tenders	112	96	-16	-14.29	0	2	2	13.72	10
51-9022	Grinding and Polishing Workers, Hand	84	77	-7	-8.33	0	1	1	13.57	10
51-9023	Mixing & Blending Mach. Setters, Ops. & Tenders	462	426	-36	-7.79	0	8	8	14.15	10
51-9031	Cutters and Trimmers, Hand	41	44	3	7.32	0	1	1	14.86	11
51-9032	Cutting & Slicing Mach. Setters, Ops. & Tenders	474	410	-64	-13.50	0	7	7	13.68	10
51-9041	Extrude, Form, Press & Compact Mach. Ops.	116	99	-17	-14.66	0	2	2	14.92	10
51-9051	Furnace, Kiln, Oven, Drier & Kettle Ops. & Tenders	197	173	-24	-12.18	0	5	5	16.71	10
51-9061	Inspectors, Testers, Sorters, Samplers & Weighers	2,158	2,107	-51	-2.36	0	32	32	16.17	10
51-9071	Jewelers and Precious Stone and Metal Workers	46	39	-7	-15.22	0	1	1	16.20	7
51-9081	Dental Laboratory Technicians	250	315	65	26.00	7	5	12	18.34	10
51-9082	Medical Appliance Technicians	84	110	26	30.95	3	2	5	16.34	9
51-9083	Ophthalmic Laboratory Technicians	*	*	*	*	*	*	*	14.00	10
51-9111	Packaging & Filling Machine Ops. & Tenders	1,464	1,334	-130	-8.88	0	27	27	14.54	11
51-9121	Coating, Painting & Spraying Mach. Setters, Ops.	491	423	-68	-13.85	0	10	10	15.01	10
51-9122	Painters, Transportation Equipment	272	266	-6	-2.21	0	5	5	21.10	10
51-9123	Painting, Coating, and Decorating Workers	106	131	25	23.58	3	2	5	11.22	11
51-9131	Photographic Process Workers	91	55	-36	-39.56	0	3	3	11.64	11
51-9132	Photographic Processing Machine Operators	99	55	-44	-44.44	0	3	3	9.85	11

* Employment under 30 and unreliable data suppressed n/a - Not Available ~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

KIPDA Area

Production Occupations (cont'd)

Occupational Employment Outlook

Occupational		Employment*		Change		Job Openings			Average	Educ/
Code	Title	2008	2018	2008-2018		Average Annual 2008-2018			Wage	Training
		Estimated	Projected	Number	Percent	Growth	Separations	Total	2010	Req'd~
51-9191	Cementing & Gluing Machine Ops. & Tenders	*	*	*	*	*	*	*	12.77	10
51-9192	Clean, Wash & Metal Pickling Equip. Ops. & Tend.	89	79	-10	-11.24	0	3	3	13.88	10
51-9193	Cooling & Freezing Equipment Ops. & Tenders	*	*	*	*	*	*	*	15.76	10
51-9194	Etchers and Engravers	49	45	-4	-8.16	0	1	1	13.17	9
51-9195	Molders, Shapers & Casters, Excl. Metal & Plastic	195	193	-2	-1.03	0	4	4	13.11	10
51-9196	Paper Goods Machine Setters, Ops. & Tenders	579	499	-80	-13.82	0	14	14	15.54	10
51-9197	Tire Builders	*	*	*	*	*	*	*	13.11	10
51-9198	Helpers--Production Workers	1,288	1,340	52	4.04	5	32	37	12.42	11
51-9199	Production Workers, All Other	947	960	13	1.37	1	20	21	13.00	10

* Employment under 30 and unreliable data suppressed n/a - Not Available ~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

KIPDA Area

Transportation & Material Moving Occs.

Occupational Employment Outlook

Occupational Code	Title	Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
53-0000 Transportation and Material Moving Occupations		48,061	49,679	1,618	3.37	252	1,128	1,380	16.14	n/a
53-1000	Supervisors, Transp. & Material Moving Workers	2,355	2,654	299	12.70	30	48	78	n/a	n/a
53-1011	Aircraft Cargo Handling Supervisors	329	412	83	25.23	8	7	15	19.04	8
53-1021	Mgrs. of Helpers, Laborers & Material Movers, Hand	698	786	88	12.61	9	14	23	21.05	8
53-1031	Mgrs. of Transp., Material-Moving & Vehicle Ops.	1,328	1,456	128	9.64	13	27	40	23.22	8
53-2000	Air Transportation Workers	3,285	3,752	467	14.22	47	96	143	n/a	n/a
53-2011	Airline Pilots, Copilots, and Flight Engineers	3,191	3,636	445	13.95	45	93	138	n/a	5
53-2012	Commercial Pilots	*	*	*	*	*	*	*	n/a	7
53-2021	Air Traffic Controllers	75	94	19	25.33	2	2	4	46.30	9
53-2022	Airfield Operations Specialists	*	*	*	*	*	*	*	22.26	9
53-3000	Motor Vehicle Operators	16,639	17,804	1,165	7.00	130	279	409	n/a	n/a
53-3011	Ambulance Drivers & Attend., Excl. EMTs	*	*	*	*	*	*	*	10.78	10
53-3021	Bus Drivers, Transit and Intercity	651	750	99	15.21	10	9	19	13.13	10
53-3022	Bus Drivers, School	1,698	1,827	129	7.60	13	22	35	14.77	10
53-3031	Driver/Sales Workers	1,814	1,681	-133	-7.33	0	32	32	11.99	11
53-3032	Truck Drivers, Heavy and Tractor-Trailer	7,084	7,744	660	9.32	66	126	192	18.02	11
53-3033	Truck Drivers, Light or Delivery Services	4,281	4,584	303	7.08	30	76	106	13.74	11
53-3041	Taxi Drivers and Chauffeurs	998	1,094	96	9.62	10	13	23	8.95	11
53-3099	Motor Vehicle Operators, All Other	*	*	*	*	*	*	*	16.01	11
53-4000	Rail Transportation Workers	564	561	-3	-1	5	19	24	n/a	n/a
53-4011	Locomotive Engineers	*	*	*	*	*	*	*	n/a	10
53-4012	Locomotive Firers	*	*	*	*	*	*	*	n/a	10
53-4013	Rail Yard Engineers, Dinkey Ops. & Hostlers	*	*	*	*	*	*	*	16.78	10
53-4021	Railroad Brake, Signal, and Switch Operators	*	*	*	*	*	*	*	21.04	10
53-4031	Railroad Conductors and Yardmasters	110	129	19	17	2	4	6	21.99	10
53-4099	Rail Transportation Workers, All Other	104	94	-10	-10	0	4	4	19.23	10
53-5000	Water Transportation Workers	203	209	6	2.96	1	6	7	n/a	n/a
53-5011	Sailors and Marine Oilers	83	85	2	2.41	0	3	3	14.69	11
53-5021	Captains, Mates, and Pilots of Water Vessels	89	92	3	3.37	0	2	2	28.55	8
53-5022	Motorboat Operators	*	*	*	*	*	*	*	19.25	10
53-5031	Ship Engineers	*	*	*	*	*	*	*	32.14	8

* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

KIPDA Area

Transportation & Material Moving Occs. (cont'd)

Occupational Employment Outlook

Occupational		Employment*		Change		Job Openings			Average Wage	Educ/ Training Req'd~
		2008	2018	2008-2018		Average Annual 2008-2018				
Code	Title	Estimated	Projected	Number	Percent	Growth	Separations	Total	2010	
53-6000	Other Transportation Workers	761	786	25	3.29	4	27	31	n/a	n/a
53-6011	Bridge and Lock Tenders	*	*	*	*	*	*	*	n/a	11
53-6021	Parking Lot Attendants	166	178	12	7.23	1	5	6	10.31	11
53-6031	Service Station Attendants	343	325	-18	-5.25	0	16	16	10.40	11
53-6041	Traffic Technicians	*	*	*	*	*	*	*	19.34	11
53-6051	Transportation Inspectors	123	147	24	19.51	2	4	6	32.33	8
53-6099	Transportation Workers, All Other	113	121	8	7.08	1	2	3	14.42	11
53-7000	Material Moving Workers	24,254	23,913	-341	-1.41	36	653	689	n/a	n/a
53-7011	Conveyor Operators and Tenders	213	197	-16	-7.51	0	4	4	15.57	11
53-7021	Crane and Tower Operators	160	178	18	11.25	2	3	5	18.49	9
53-7031	Dredge Operators	*	*	*	*	*	*	*	n/a	10
53-7032	Excavating & Loading Machine & Dragline Ops.	355	417	62	17.46	6	6	12	17.56	10
53-7033	Loading Machine Operators, Underground Mining	*	*	*	*	*	*	*	21.76	10
53-7041	Hoist and Winch Operators	*	*	*	*	*	*	*	17.67	10
53-7051	Industrial Truck and Tractor Operators	5,680	5,508	-172	-3.03	0	143	143	14.20	11
53-7061	Cleaners of Vehicles and Equipment	1,230	1,314	84	6.83	8	47	55	10.55	11
53-7062	Laborers & Freight, Stock & Material Movers, Hand	11,879	12,062	183	1.54	18	380	398	11.32	11
53-7063	Machine Feeders and Offbearers	938	783	-155	-16.53	0	17	17	12.94	11
53-7064	Packers and Packagers, Hand	3,071	2,728	-343	-11.17	0	37	37	10.05	11
53-7071	Gas Compressor & Gas Pumping Station Ops.	*	*	*	*	*	*	*	n/a	10
53-7072	Pump Operators, Except Wellhead Pumpers	61	45	-16	-26	0	2	2	17.53	10
53-7073	Wellhead Pumpers	*	*	*	*	*	*	*	14.55	10
53-7081	Refuse and Recyclable Material Collectors	177	185	8	4.52	1	5	6	12.92	11
53-7111	Shuttle Car Operators	*	*	*	*	*	*	*	21.28	11
53-7121	Tank Car, Truck, and Ship Loaders	*	*	*	*	*	*	*	18.39	10
53-7199	Material Moving Workers, All Other	483	490	7	1.45	1	9	10	18.25	10

* Employment under 30 and unreliable data suppressed n/a - Not Available ~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

Educational/Training Classifications

Occupations are classified into 11 categories and listed according to these principles:

An occupation is placed into the category that best describes the education or training needed by most workers to become fully qualified.

Postsecondary awards, if generally needed for entry into the occupation, take precedence over work-related training even though additional skills or experience may be needed for a worker to become fully qualified.

The length of time an average worker generally needs to become fully qualified through a combination of on-the-job training and experience is used to categorize occupations in which a postsecondary award generally is needed for entry.

Postsecondary awards

(1) *First professional degree.* Completion of the degree usually requires at least three years of full-time academic study beyond a bachelor's degree.

(2) *Doctoral degree.* Completion of a Ph.D. or other doctoral degree usually requires at least three years of full-time academic study beyond a bachelor's degree.

(3) *Master's degree.* Completion of the degree usually requires one or two years of full time academic study beyond a bachelor's degree.

(4) *Bachelor's or higher degree, plus work experience.* Most occupations in this category are management occupations. All require experience in a related non-management position for which a bachelor's or higher degree is usually required.

(5) *Bachelor's degree.* Completion of the degree generally requires at least four years, but not more than five years, of full-time academic study.

(6) *Associate's degree.* Completion of the degree usually requires at least two years of full-time academic study.

(7) *Postsecondary vocational awards.* Some programs last only a few weeks while others may last more than a year. Programs lead to a certificate or other award, but not a degree.

Work-related training

(8) *Work experience in a related occupation.* Many occupations requiring work experience are managers of service, sales and related, production, other occupations, or are management occupations.

(9) *Long-term, on-the-job training.* More than 12 months of on-the-job training or combined work experience and formal classroom instruction are needed for workers to develop the skills necessary to be fully qualified. This category includes formal and informal apprenticeships that may last up to five years. Long-term on-the-job training also includes intensive occupation-specific, employer-sponsored programs that workers must successfully complete. These include fire and police academies and schools for air traffic controllers and flight attendants. In other occupations, like insurance sales and securities sales, for example, trainees take formal courses, often provided on the job site, to prepare for the required licensing exams. Individuals undergoing training generally are considered to be employed in the occupation. Also included in this category is the development of a natural ability - such as that possessed by musicians, athletes, actors, and other entertainers - that must be cultivated over several years, frequently in a nonwork setting.

(10) *Moderate-term, on-the-job training.* Skills needed to be fully qualified can be acquired during one to twelve months of combined on-the-job experience and informal training.

(11) *Short-term, on-the-job training.* Skills needed to be fully qualified can be acquired during a short demonstration of job duties or during one month or less of on-the-job experience or instruction.

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