

MEMORANDUM

To: Darrell Doan, City of Elk Grove
From: David Zehnder, Ellen Martin, and Eric Simundza
Subject: Elk Grove Employment Dynamics; EPS #152109
Date: March 14, 2016

The Economics of Land Use



The City of Elk Grove (City) engaged Economic & Planning Systems, Inc. (EPS) to conduct an analysis detailing employment dynamics in the City since incorporation in 2000. The City is looking to gain a more nuanced understanding of its employment dynamics over time, including an accounting of the major employer expansions, contractions, and migrations, as well as the impact of annexation and the Great Recession on its jobs base.

EPS used the National Establishment Time-Series (NETS) Database to establish a baseline of the employers that operated in the City from 2000 to 2013 and their employees. EPS triangulated the NETS data with estimates from the City, as well as a variety of third-party sources.¹

This memorandum and the attached analysis offer a synopsis of EPS's findings, documenting establishments and location-based employment by industry sector for each year from 2000 to 2013, the last year for which NETS data is available.

*Economic & Planning Systems, Inc.
2295 Gateway Oaks Drive, Suite 250
Sacramento, CA 95833-4210
916 649 8010 tel
916 649 2070 fax*

*Oakland
Sacramento
Denver
Los Angeles*

www.epsys.com

¹ While EPS has made every effort to evaluate and verify the estimates provided by NETS, which come from employer-verified business records provided by Dun & Bradstreet (D&B), the accuracy of this employment analysis, as with any employment analysis, cannot be fully verified. EPS has made every attempt to verify the data provided but cannot be held responsible for any inaccuracies in the source data.

Summary of Analysis and Results

The EPS analysis provides information on changes in establishments and employment in the City from 2000 to 2013. All estimates are based on the City boundaries in the given year. Employment estimates, which include sole proprietors and the self-employed, are based on self-reported data from the establishments, and as a result, they represent a more stable measurement of jobs, as opposed to a count of employees that will fluctuate based on normal turnover and seasonality. EPS's analysis results are summarized in the enclosed tables. A brief description of the contents of the quantitative analysis is offered below.

Table 1 shows the City's largest current employers, based on the most current estimates available from City sources, the employers themselves, and NETS data.

Table 2 summarizes the change in establishments and employment from the City's incorporation in 2000 to 2013. Figures are reported by industry sector, using the 2-digit North American Industry Classification System (NAICS) code categories.²

Table 3 evaluates the change in establishments and employment from 2003 to 2004, during which time the City annexed Laguna West, and shows what share of growth over that time period can be attributed to the City's expansion.³

Tables 4 and 5 detail the number of establishments and employees for each year from 2000 through 2013 by major industry sector, as well as absolute year-over-year growth.

Tables 6 and 7 provide additional information related to home-based businesses, detailing the number of home-based establishments and employees for each year from 2000 through 2013 by major industry sector, as well as absolute year-over-year growth.

Table 8 shows the City's jobs-housing ratio for each year from 2000 through 2013.

Appendix A offers detail regarding the total establishments and employees for each year from 2000 through 2013. Figures are reported by major industry sector.

Appendix B provides a comparison of the NETS employment estimates to other available data sources.

Appendix C provides definitions of each 2-digit NAICS code category and details the component subcategories.

The remainder of the analysis focuses on employment dynamics from 2000 to 2013, using NETS data as adjusted by EPS.

Key Employment Dynamics and Major Milestones

Elk Grove's annexation of Laguna West accounted for 75 percent of the more than 4,000 jobs added from 2003 to 2004. More than half of the jobs added as a result of the annexation were

² Definitions of the 2-digit NAICS code categories are provided in **Appendix C**.

³ The City annexed Franklin Crossing in 2008. As there were no businesses located in the annexation area at that time, this annexation was not examined as part of the employment dynamics analysis.

Retail jobs. The annexation also brought significant growth in Wholesale Trade, Educational Services, Health Care & Social Assistance, and Manufacturing.

From 2004 until 2008, the City enjoyed steady growth of between 1,700 and 2,400 jobs annually, driven largely by gains in Retail, as well as Administrative & Waste Services.

Employment dynamics became quite uneven following 2008, as Elk Grove felt the impacts of the Great Recession. Employment increased by more than 2,800 jobs in 2009, largely because of gains in very small firms in Administrative & Waste Services. This sharp increase was followed by a decline of both establishments and jobs in 2010, the only year in which the number of jobs fell.

Since 2010, job growth has been rapid. In 2011, both establishments and employment experienced their biggest absolute gains over the period tracked, driven by growth in Administrative & Waste Services, as well as Professional, Scientific, & Technical Services.⁴ Home-based businesses accounted for almost a third of the City's overall employment growth in 2011. Studies have shown that business startup activity often increases in recessionary times, as people who have been laid off use downturns as opportunities to go into business for themselves. While this dynamic is very important in maintaining productivity, many of these new businesses do not last. While jobs continued to increase in 2012 and 2013, the number of establishments declined. Moreover, home-based employment declined significantly in 2013 after weak growth in 2012. This is likely the result of many startups that were birthed from the recession closing and the associated entrepreneurs returning to more stable employment as larger employers began to expand again.

Recent job growth has been driven by a few prominent expansions and new facilities. Apple has expanded operations at its Elk Grove campus, resulting in several hundred new jobs in the past few years.⁵ The opening of the Dignity Health Medical Plaza in late 2012 resulted in an increase of more than 1,000 jobs the following year. Also in 2012, the relocation and consolidation of California Correctional Health Care Services' facilities into a new headquarters in Elk Grove resulted in an additional 1,500 jobs. These two new facilities alone accounted for more than 80 percent of the employment growth experienced from 2012 to 2013.

Jobs-Housing Balance

Housing and employment choices are very dependent on each other. Communities that keep the provision of both housing and employment opportunities in balance tend to reduce regional congestion and lost productivity in commuting by allowing workers to live where they work. If the balance tips too far in either direction, a community can either become a bedroom

⁴ The majority of the jobs added in Administrative & Waste Services in the past few years are for establishments that filed as "Business Service Not Elsewhere Classified," a broad category that covers a wide variety of activities. This category includes independent business consultants operating in many capacities, including services such as packaging and labeling, auctioning and appraisal, inventory computing, et cetera.

⁵ Based on conversations between the City and Apple. Some of the jobs at Apple's Elk Grove campus are filled by contracting agencies headquartered elsewhere. For purposes of this analysis, all jobs at the Apple campus are counted as employees of Apple within the City.

community where residents must commute large distances, or a jobs center that must draw its employees from elsewhere. While an exact match of housing and jobs would result in a ratio of 1.0, it ignores the reality that a housing unit can house multiple workers. The prevailing consensus establishes that 1.5 is the ideal number of jobs per housing unit. The jobs-housing ratio should be used as a guide only. While some degree of jobs-housing balance is necessary if a community wants to reduce overall travel, the benefits can only be reaped if a match also exists between the skills of the residents and the employment opportunities offered.

In 2015, the Sacramento Area Council of Governments (SACOG) reported a jobs-housing ratio in 2008 of 1.22 for Sacramento County and 1.18 for the Sacramento Region.⁶ As seen in **Table 8**, from the time of its incorporation, the City's jobs-housing ratio has fluctuated from a low of 0.65 to a high of 0.86 in 2013.⁷ The considerable rise in jobs-housing ratio in the last few years is a direct result of the large expansions and new facilities discussed earlier.⁸

Data and Methodology Overview

EPS used the NETS Database prepared by Walls and Associates as the primary source of employment and establishment data. Walls and Associates uses annual D&B establishment data snapshots to construct a time series database providing longitudinal data on various dynamics of the economy, including establishment job creation and loss, sales performance, establishment mobility, and other factors.

The NETS Database supplied establishment information for the entire Sacramento Region for each year from 2000 to 2013 that included establishment address, employment, and sales. Using the NETS address information, the City GIS department evaluated which establishments were located in the City based on then-current City boundaries for each year. To conduct this analysis, the City relied on two address locators (Master Address Database and Elk Grove Streets) maintained by the City to determine the location of Elk Grove establishments by year.

Through this process, the City and EPS identified several establishments that either had insufficient (or no) address information or that otherwise did not match the address data maintained by the City. For establishments with no address data, EPS independently verified the location of the establishment for 2013. EPS then adjusted prior-year data using an adjustment factor derived from the 2013 analysis.

For those establishments with address data that did not match the City's address locators, EPS used a third-party address locator to determine which establishments were located in the City for each year included in the analysis.

This process provided EPS with a foundational database confirming initial establishment and employment data at the individual establishment level for each year from 2000 to 2013. EPS

⁶ Metropolitan Transportation Plan/Sustainable Communities Strategy, 2016.

⁷ The 2010 Elk Grove Market Study reported the City's jobs-housing ratio as 0.62 in 2008. This study reports a higher figure of 0.68 for 2008, largely because of several key employment revisions, such as counting Apple's employees at its Elk Grove campus as jobs in Elk Grove.

⁸ This ratio may decrease in the future if planned residential development is not accompanied by sufficient new employment opportunities to maintain or improve the jobs-housing balance.

conducted a targeted verification process using several alternative sources of data (e.g., Reference USA, Manta.com, Sacramento Business Journal, and California Worker Adjustment and Retraining Notification [WARN] Notices) to review and verify the City's largest employers, as well as major job gains and losses over time. Working with City staff to confirm and verify proposed changes, EPS made several adjustments to the NETS data based on this review and triangulation.

A comparison of the estimates based on NETS data to other available sources is provided in **Table B-1**. It should be noted that the NETS Database differs from other sources of employment information in several key ways:

- The NETS Database includes all sole proprietors and counts owners as employees, unlike the US Census OnTheMap (OTM) and the Bureau of Labor Statistics (BLS), both of whose data is based on Employment and Wage (ES-202) data. ES-202 data is derived from reports filed by all employers subject to unemployment compensation laws. This data source excludes the self-employed, proprietors, domestic workers, unpaid family members, and some other groups. Consequently, the more comprehensive NETS estimates will appear higher than corresponding BLS or OTM estimates.
- Job counts in the NETS Database tend to be more consistent from year to year and less impacted by the effects of normal turnover. When contacted by D&B, a business of 4 employees where 1 has recently quit will often still report 4 jobs if it plans to replace that employee. Changes in job counts, especially for small firms, often are reported only when they seem significant to the hiring manager. For this reason, the NETS Database is best thought as reporting "jobs" rather than "employees."
- The NETS Database, similar to the County Business Patterns data source, does not differentiate between full- and part-time employees.
- As opposed to other Federal sources that use sample survey methods to estimate their establishment counts, a business does not appear in the NETS Database unless its existence has been verified, meaning that the NETS establishment count is a complete census rather than an estimate based on a sample.
- Employment in the NETS Database is attributed to the place of work, not the place of residence of the employee. This is essential to measuring the success of the City's economic development efforts. While OTM data also measures employment by place of work, several established data sources, such as the California Employment Development Department, as well as the US Census Bureau's American Community Survey, only measure employment by place of residence.
- The NETS Database categorizes employment using the NAICS, which applies definitions based on the type of activities in which a business engages, not based on ownership. Therefore, many government-owned establishments are categorized in sectors other than Public Administration, such as Educational Services (Public Schools), Health Care (Public Hospitals), Transportation & Warehousing (Postal Service), and Utilities.

While no employment analysis can guarantee the accuracy of its estimates, the enclosed analysis comprises one of the most comprehensive examinations of Elk Grove employment to date, based on rigorous triangulation of the most robust available data sources.

**Table 1
Elk Grove Employment Dynamics
Elk Grove Major Employers**

Rank	Company	Estimated Current Employment [1]
1	Elk Grove Unified School District [2]	3,313
2	Apple, Inc. [3]	3,199
3	California Correctional Health Care Services [4]	1,500
4	Dignity Health [4]	1,133
5	Raley's	799
6	Wal-Mart Stores, Inc.	680
7	Cardinal Health, Inc.	430
8	Autozone, Inc. (including ALLDATA)	412
9	Kaiser Foundation Health Plan, Inc. [4]	387
10	Elk Grove, City of [4] [5]	370
11	Sacramento, County of	336
12	California, State of	331
13	Sutter Medical Group, Inc. [4]	272
14	Kohls Corporation	246
15	Farmers & Merchants Bancorp	214
16	Schneider National, Inc.	205
17	Target Corporation	200
18	Elk Grove Auto Group, Inc.	200
19	Home Depot, Inc.	200
20	Universal Custom Display	168
21	Decore-Ative Specialties	165
22	Maita Chevrolet Geo	164
23	Cosumnes Community Services District	162
24	Starbucks Corporation	156
25	F Radich Motors, Inc.	150
	Total	15,392

major

Source: National Establishment Time-Series (NETS) Database, Walls & Associates, 2013; City of Elk Grove; EPS.

- [1] Constitutes best estimate of current employment from available sources. As noted, many records have been verified through contact with the City or the employer. All other estimates are based on NETS estimates from 2013, and are subject to further verification based on recent changes.
- [2] Based on total employment reported to NETS for the entire EGUSD. Employment was apportioned to Elk Grove based on the percentage of EGUSD students enrolled at schools in Elk Grove.
- [3] Based on 2015 estimates from the City of Elk Grove. While some employees at this location are contracted by other employment agencies, for purposes of this analysis, all employees at this location are considered Apple employees.
- [4] Based on 2015 estimates from the City of Elk Grove.
- [5] Includes permanent and contract staff.

Table 2
Elk Grove Employment Dynamics
Elk Grove Growth in Establishments and Employment by Major Sector, 2000-2013

Change 2000-2013

Industry (NAICS)	Establishments			Employment		
	Absolute Growth	Avg. Annual Growth	% of Total Growth	Absolute Growth	Avg. Annual Growth	% of Total Growth
Agriculture, Forestry, Fishing and Hunting (11)	6	1.1%	0.1%	(5)	(0.4%)	(0.0%)
Mining (21)	2	8.8%	0.0%	(2)	(0.8%)	(0.0%)
Utilities (22)	1	3.2%	0.0%	8	4.6%	0.0%
Construction (23)	522	9.5%	7.9%	1,033	5.0%	3.5%
Manufacturing (31-33)	91	4.9%	1.4%	709	4.9%	2.4%
Wholesale Trade (42)	235	10.9%	3.6%	1,134	10.0%	3.8%
Retail Trade (44-45)	504	7.4%	7.6%	6,294	8.4%	21.3%
Transportation and Warehousing (48-49)	194	11.9%	2.9%	745	8.8%	2.5%
Information (51)	98	7.9%	1.5%	172	1.4%	0.6%
Finance and Insurance (52)	324	11.9%	4.9%	1,631	12.2%	5.5%
Real Estate and Rental and Leasing (53)	371	13.5%	5.6%	896	9.3%	3.0%
Professional, Scientific, and Technical Services (54)	919	12.2%	13.9%	1,875	10.4%	6.3%
Management of Companies & Enterprises (55)	16	N/A	0.2%	36	N/A	0.1%
Administrative and Waste Services (56)	1,867	21.0%	28.3%	3,661	15.2%	12.4%
Educational Services, Health Care and Social Assistance (61-62)	593	11.1%	9.0%	7,111	10.6%	24.0%
Arts, Entertainment, and Recreation (71)	99	9.6%	1.5%	316	5.2%	1.1%
Accommodation and Food Services (72)	115	6.9%	1.7%	1,651	6.0%	5.6%
Other Services (81)	615	10.3%	9.3%	1,352	6.5%	4.6%
Public Administration (92)	20	10.1%	0.3%	946	13.5%	3.2%
Uncoded and Not Classified	11	21.1%	0.2%	38	32.6%	0.1%
Total	6,603	11.5%	100.0%	29,601	8.7%	100.0%

NAICS_00-13

Source: National Establishment Time-Series (NETS) Database, Walls & Associates, 2013; City of Elk Grove; EPS.

Table 3
Elk Grove Employment Dynamics
Elk Grove Growth in Establishments and Employment by Major Sector Because of Annexation, 2003-2004

Annexation Growth 2003-2004
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Industry (NAICS)	Establishments			Employment		
	Citywide Growth 2003-2004	Laguna West 2004	Growth because of Annexation	Citywide Growth 2003-2004	Laguna West 2004	Growth because of Annexation
Agriculture, Forestry, Fishing and Hunting (11)	(4)	2	N/A	31	40	129.0%
Mining (21)	0	0	N/A	0	0	N/A
Utilities (22)	0	0	N/A	0	0	N/A
Construction (23)	27	26	96.3%	72	88	122.2%
Manufacturing (31-33)	23	19	82.6%	266	202	75.9%
Wholesale Trade (42)	30	22	73.3%	520	482	92.7%
Retail Trade (44-45)	75	48	64.0%	1,902	1,941	102.1%
Transportation and Warehousing (48-49)	8	7	87.5%	67	11	16.4%
Information (51)	18	14	77.8%	24	23	95.8%
Finance and Insurance (52)	34	15	44.1%	492	30	6.1%
Real Estate and Rental and Leasing (53)	24	16	66.7%	121	37	30.6%
Professional, Scientific, and Technical Services (54)	41	56	136.6%	88	111	126.1%
Management of Companies & Enterprises (55)	0	0	N/A	0	0	N/A
Administrative and Waste Services (56)	48	33	68.8%	110	46	41.8%
Educational Services, Health Care and Social Assistance (61-62)	30	27	90.0%	402	78	19.4%
Arts, Entertainment, and Recreation (71)	12	6	50.0%	39	27	69.2%
Accommodation and Food Services (72)	12	11	91.7%	7	58	828.6%
Other Services (81)	25	24	96.0%	63	76	120.6%
Public Administration (92)	1	0	0.0%	152	0	0.0%
Uncoded and Not Classified	0	0	N/A	0	0	N/A
Total	404	326	12.3%	4,356	3,250	74.6%

growth_annex

Source: National Establishment Time-Series (NETS) Database, Walls & Associates, 2013; City of Elk Grove; EPS.

Table 4
Elk Grove Employment Dynamics
Elk Grove Establishment Growth, 2000-2013

Industry (NAICS)	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	Growth 2000-2013
Total Establishments															
Agriculture, Forestry, Fishing and Hunting (11)	38	40	40	42	38	38	40	39	39	48	39	46	42	44	
Mining (21)	1	2	3	3	3	4	4	5	4	4	3	3	3	3	
Utilities (22)	2	3	2	2	2	2	2	2	5	5	4	4	3	3	
Construction (23)	233	253	274	334	361	404	438	462	510	587	569	838	795	755	
Manufacturing (31-33)	105	119	127	140	163	178	179	184	194	209	184	215	201	196	
Wholesale Trade (42)	83	97	110	123	153	168	164	171	204	237	221	339	338	318	
Retail Trade (44-45)	331	372	415	452	527	578	619	632	695	765	688	877	878	835	
Transportation and Warehousing (48-49)	59	64	82	92	100	114	130	134	161	189	175	249	249	253	
Information (51)	58	63	69	88	106	113	110	116	121	132	114	169	164	156	
Finance and Insurance (52)	98	118	133	159	193	231	279	306	368	428	348	443	439	422	
Real Estate and Rental and Leasing (53)	89	110	125	152	176	216	282	309	342	372	330	454	480	460	
Professional, Scientific, and Technical Services (54)	264	303	360	421	462	493	551	583	673	821	816	1,234	1,287	1,183	
Management of Companies & Enterprises (55)	0	0	0	0	0	0	2	3	7	11	10	17	17	16	
Administrative and Waste Services (56)	171	189	293	374	422	561	884	1,027	1,277	1,946	1,933	2,695	2,389	2,038	
Educational Services, Health Care and Social Assistance (61-62)	202	239	288	314	344	384	410	441	504	567	555	747	804	795	
Arts, Entertainment, and Recreation (71)	43	58	64	68	80	76	91	103	111	118	124	159	152	142	
Accommodation and Food Services (72)	84	102	113	128	140	150	168	199	192	191	187	210	209	199	
Other Services (81)	237	271	349	385	410	440	474	515	580	646	640	871	907	852	
Public Administration (92)	8	9	10	9	10	11	11	13	13	13	13	16	25	28	
Uncoded and Not Classified	1	1	4	4	4	3	5	7	5	8	8	10	11	12	
Total	2,107	2,413	2,861	3,290	3,694	4,164	4,843	5,251	6,005	7,297	6,961	9,596	9,393	8,710	
Total Employment [1]	15,205	16,671	19,067	20,623	24,979	27,341	29,617	31,367	33,307	36,204	36,106	40,768	41,651	44,806	
Year-Over-Year Growth (Absolute)															
Agriculture, Forestry, Fishing and Hunting (11)		2	0	2	(4)	0	2	(1)	0	9	(9)	7	(4)	2	6
Mining (21)		1	1	0	0	1	0	1	(1)	0	(1)	0	0	0	2
Utilities (22)		1	(1)	0	0	0	0	0	3	0	(1)	0	(1)	0	1
Construction (23)		20	21	60	27	43	34	24	48	77	(18)	269	(43)	(40)	522
Manufacturing (31-33)		14	8	13	23	15	1	5	10	15	(25)	31	(14)	(5)	91
Wholesale Trade (42)		14	13	13	30	15	(4)	7	33	33	(16)	118	(1)	(20)	235
Retail Trade (44-45)		41	43	37	75	51	41	13	63	70	(77)	189	1	(43)	504
Transportation and Warehousing (48-49)		5	18	10	8	14	16	4	27	28	(14)	74	0	4	194
Information (51)		5	6	19	18	7	(3)	6	5	11	(18)	55	(5)	(8)	98
Finance and Insurance (52)		20	15	26	34	38	48	27	62	60	(80)	95	(4)	(17)	324
Real Estate and Rental and Leasing (53)		21	15	27	24	40	66	27	33	30	(42)	124	26	(20)	371
Professional, Scientific, and Technical Services (54)		39	57	61	41	31	58	32	90	148	(5)	418	53	(104)	919
Management of Companies & Enterprises (55)		0	0	0	0	0	2	1	4	4	(1)	7	0	(1)	16
Administrative and Waste Services (56)		18	104	81	48	139	323	143	250	669	(13)	762	(306)	(351)	1,867
Educational Services, Health Care and Social Assistance (61-62)		37	49	26	30	40	26	31	63	63	(12)	192	57	(9)	593
Arts, Entertainment, and Recreation (71)		15	6	4	12	(4)	15	12	8	7	6	35	(7)	(10)	99
Accommodation and Food Services (72)		18	11	15	12	10	18	31	(7)	(1)	(4)	23	(1)	(10)	115
Other Services (81)		34	78	36	25	30	34	41	65	66	(6)	231	36	(55)	615
Public Administration (92)		1	1	(1)	1	1	0	2	0	0	0	3	9	3	20
Uncoded and Not Classified		0	3	0	0	(1)	2	2	(2)	3	0	2	1	1	11
Total		306	448	429	404	470	679	408	754	1,292	(336)	2,635	(203)	(683)	6,603
Total Year-Over-Year Growth in Employment [1]		1,466	2,396	1,556	4,356	2,362	2,276	1,750	1,940	2,897	(98)	4,662	883	3,155	29,601

Source: National Establishment Time-Series (NETS) Database, Walls & Associates, 2013; City of Elk Grove; EPS.

estabgrowth

[1] See Table 5.

**Table 5
Elk Grove Employment Dynamics
Elk Grove Employment Growth, 2000-2013**

Employment
2000-2013

Industry (NAICS)	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	Growth 2000-2013
Total Employment															
Agriculture, Forestry, Fishing and Hunting (11)	96	101	103	105	136	138	141	145	144	158	117	123	80	91	
Mining (21)	20	23	24	24	24	26	10	12	20	20	18	18	18	18	
Utilities (22)	10	12	11	11	11	14	14	14	22	22	20	21	18	18	
Construction (23)	1,177	1,231	1,473	1,580	1,652	1,776	1,919	1,962	1,849	1,907	1,855	2,134	2,213	2,210	
Manufacturing (31-33)	819	889	912	1,031	1,297	1,430	1,340	1,333	1,346	1,388	1,340	1,433	1,501	1,528	
Wholesale Trade (42)	460	477	542	606	1,126	1,256	1,279	1,227	1,315	1,392	1,321	1,560	1,551	1,594	
Retail Trade (44-45)	3,376	3,917	3,982	4,365	6,267	6,910	7,343	7,365	7,747	8,090	8,147	8,585	8,746	9,670	
Transportation and Warehousing (48-49)	373	414	466	660	727	887	936	950	1,017	1,084	1,044	1,087	1,010	1,118	
Information (51)	856	572	612	851	875	900	787	1,189	1,096	1,096	1,069	1,167	1,032	1,028	
Finance and Insurance (52)	474	487	1,018	801	1,293	1,390	1,561	1,632	1,778	2,065	1,822	1,965	2,078	2,105	
Real Estate and Rental and Leasing (53)	409	440	502	565	686	805	986	1,112	1,208	1,271	1,190	1,360	1,414	1,305	
Professional, Scientific, and Technical Services (54)	718	859	993	1,037	1,125	1,216	1,398	1,684	1,891	2,148	2,129	2,642	2,797	2,593	
Management of Companies & Enterprises (55)	0	0	0	0	0	0	4	6	14	23	21	35	35	36	
Administrative and Waste Services (56)	696	704	986	1,078	1,188	1,449	1,951	2,238	2,682	3,847	3,888	4,978	4,669	4,357	
Educational Services, Health Care and Social Assistance (61-62)	2,637	2,909	3,251	3,501	3,903	4,336	4,673	4,968	5,395	5,775	5,918	6,656	6,987	9,748	
Arts, Entertainment, and Recreation (71)	339	366	470	520	559	481	601	604	592	623	640	693	700	655	
Accommodation and Food Services (72)	1,441	1,614	1,900	2,107	2,114	2,222	2,398	2,544	2,482	2,450	2,633	2,988	3,126	3,092	
Other Services (81)	1,077	1,199	1,346	1,367	1,430	1,538	1,643	1,725	1,951	2,080	2,167	2,512	2,526	2,429	
Public Administration (92)	226	456	471	409	561	563	622	643	750	750	752	789	1,120	1,172	
Uncoded and Not Classified	1	1	5	5	5	4	11	14	8	15	15	22	30	39	
Total	15,205	16,671	19,067	20,623	24,979	27,341	29,617	31,367	33,307	36,204	36,106	40,768	41,651	44,806	
Total Establishments [1]	2,107	2,413	2,861	3,290	3,694	4,164	4,843	5,251	6,005	7,297	6,961	9,596	9,393	8,710	
Year-Over-Year Growth (Absolute)															
Agriculture, Forestry, Fishing and Hunting (11)		5	2	2	31	2	3	4	(1)	14	(41)	6	(43)	11	(5)
Mining (21)		3	1	0	0	2	(16)	2	8	0	(2)	0	0	0	(2)
Utilities (22)		2	(1)	0	0	3	0	0	8	0	(2)	1	(3)	0	8
Construction (23)		54	242	107	72	124	143	43	(113)	58	(52)	279	79	(3)	1,033
Manufacturing (31-33)		70	23	119	266	133	(90)	(7)	13	42	(48)	93	68	27	709
Wholesale Trade (42)		17	65	64	520	130	23	(52)	88	77	(71)	239	(9)	43	1,134
Retail Trade (44-45)		541	65	383	1,902	643	433	22	382	343	57	438	161	924	6,294
Transportation and Warehousing (48-49)		41	52	194	67	160	49	14	67	67	(40)	43	(77)	108	745
Information (51)		(284)	40	239	24	25	(113)	402	(93)	0	(27)	98	(135)	(4)	172
Finance and Insurance (52)		13	531	(217)	492	97	171	71	146	287	(243)	143	113	27	1,631
Real Estate and Rental and Leasing (53)		31	62	63	121	119	181	126	96	63	(81)	170	54	(109)	896
Professional, Scientific, and Technical Services (54)		141	134	44	88	91	182	286	207	257	(19)	513	155	(204)	1,875
Management of Companies & Enterprises (55)		0	0	0	0	0	4	2	8	9	(2)	14	0	1	36
Administrative and Waste Services (56)		8	282	92	110	261	502	287	444	1,165	41	1,090	(309)	(312)	3,661
Educational Services, Health Care and Social Assistance (61-62)		272	342	250	402	433	337	295	427	380	143	738	331	2,761	7,111
Arts, Entertainment, and Recreation (71)		27	104	50	39	(78)	120	3	(12)	31	17	53	7	(45)	316
Accommodation and Food Services (72)		173	286	207	7	108	176	146	(62)	(32)	183	355	138	(34)	1,651
Other Services (81)		122	147	21	63	108	105	82	226	129	87	345	14	(97)	1,352
Public Administration (92)		230	15	(62)	152	2	59	21	107	0	2	37	331	52	946
Uncoded and Not Classified		0	4	0	0	(1)	7	3	(6)	7	0	7	8	9	38
Total		1,466	2,396	1,556	4,356	2,362	2,276	1,750	1,940	2,897	(98)	4,662	883	3,155	29,601
Total Year-Over-Year Growth in Establishments [1]		306	448	429	404	470	679	408	754	1,292	(336)	2,635	(203)	(683)	6,603

Source: National Establishment Time-Series (NETS) Database, Walls & Associates, 2013; City of Elk Grove; EPS.

empgrowth

[1] See Table 4.

Table 6
Elk Grove Employment Dynamics
Elk Grove Home-Business Establishment Growth, 2000-2013

Home-Business
 Establishments
 2000-2013

Industry (NAICS)	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	Growth 2000-2013
Total Establishments															
Agriculture, Forestry, Fishing and Hunting (11)	18	19	20	21	18	17	19	19	20	24	20	24	23	21	
Mining (21)	0	0	1	1	1	1	1	1	1	1	1	1	1	1	
Utilities (22)	0	1	1	1	1	1	1	1	1	1	1	1	1	1	
Construction (23)	86	90	105	122	134	158	184	197	228	264	257	376	389	357	
Manufacturing (31-33)	30	38	45	48	55	61	68	69	72	74	65	72	70	62	
Wholesale Trade (42)	20	26	33	37	41	45	47	52	66	76	76	103	107	96	
Retail Trade (44-45)	65	88	96	101	121	137	144	162	182	199	164	250	266	258	
Transportation and Warehousing (48-49)	20	20	24	28	33	40	51	55	65	73	67	100	102	103	
Information (51)	22	29	33	36	40	41	44	46	52	52	43	57	60	55	
Finance and Insurance (52)	9	14	24	29	38	47	64	74	101	114	86	111	105	110	
Real Estate and Rental and Leasing (53)	18	26	27	36	40	52	87	98	110	119	98	141	148	135	
Professional, Scientific, and Technical Services (54)	84	102	123	132	166	180	226	237	274	334	342	562	609	550	
Management of Companies & Enterprises (55)	0	0	0	0	0	0	0	0	1	2	2	3	4	3	
Administrative and Waste Services (56)	52	66	121	149	169	238	455	539	700	945	1,000	1,388	1,322	1,085	
Educational Services, Health Care and Social Assistance (61-62)	26	35	40	44	53	62	65	74	85	99	89	140	152	138	
Arts, Entertainment, and Recreation (71)	13	20	21	23	28	26	28	32	37	35	36	47	43	40	
Accommodation and Food Services (72)	3	8	11	10	12	12	15	17	18	21	19	19	17	15	
Other Services (81)	43	51	61	71	75	88	101	116	133	147	127	175	185	173	
Public Administration (92)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Uncoded and Not Classified	0	0	0	0	0	0	0	0	0	0	0	0	1	2	
Total	510	634	787	890	1,026	1,207	1,601	1,790	2,147	2,581	2,494	3,572	3,607	3,206	
Percent of Total Elk Grove Establishments	24%	26%	28%	27%	28%	29%	33%	34%	36%	35%	36%	37%	38%	37%	
Total Employment [1]	821	1,002	1,254	1,409	1,582	1,847	2,476	2,709	3,272	3,977	3,901	5,361	5,515	5,076	
Year-Over-Year Growth (Absolute)															
Agriculture, Forestry, Fishing and Hunting (11)		1	1	1	(3)	(1)	2	0	1	4	(4)	4	(1)	(2)	3
Mining (21)		0	1	0	0	0	0	0	0	0	0	0	0	0	1
Utilities (22)		1	0	0	0	0	0	0	0	0	0	0	0	0	1
Construction (23)		4	15	17	12	24	26	13	31	36	(7)	119	13	(32)	271
Manufacturing (31-33)		8	7	3	7	6	7	1	3	2	(9)	7	(2)	(8)	32
Wholesale Trade (42)		6	7	4	4	4	2	5	14	10	0	27	4	(11)	76
Retail Trade (44-45)		23	8	5	20	16	7	18	20	17	(35)	86	16	(8)	193
Transportation and Warehousing (48-49)		0	4	4	5	7	11	4	10	8	(6)	33	2	1	83
Information (51)		7	4	3	4	1	3	2	6	0	(9)	14	3	(5)	33
Finance and Insurance (52)		5	10	5	9	9	17	10	27	13	(28)	25	(6)	5	101
Real Estate and Rental and Leasing (53)		8	1	9	4	12	35	11	12	9	(21)	43	7	(13)	117
Professional, Scientific, and Technical Services (54)		18	21	9	34	14	46	11	37	60	8	220	47	(59)	466
Management of Companies & Enterprises (55)		0	0	0	0	0	0	0	1	1	0	1	1	(1)	3
Administrative and Waste Services (56)		14	55	28	20	69	217	84	161	245	55	388	(66)	(237)	1,033
Educational Services, Health Care and Social Assistance (61-62)		9	5	4	9	9	3	9	11	14	(10)	51	12	(14)	112
Arts, Entertainment, and Recreation (71)		7	1	2	5	(2)	2	4	5	(2)	1	11	(4)	(3)	27
Accommodation and Food Services (72)		5	3	(1)	2	0	3	2	1	3	(2)	0	(2)	(2)	12
Other Services (81)		8	10	10	4	13	13	15	17	14	(20)	48	10	(12)	130
Public Administration (92)		0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uncoded and Not Classified		0	0	0	0	0	0	0	0	0	0	1	1	0	2
Total		124	153	103	136	181	394	189	357	434	(87)	1,078	35	(401)	2,696
Percent of Total Elk Grove Establishment Growth/Loss		41%	34%	24%	34%	39%	58%	46%	47%	34%	26%	41%	(17%)	59%	41%
Total Year-Over-Year Growth in Employment [1]		181	252	155	173	265	629	233	563	705	(76)	1,460	154	(439)	4,255

Source: National Establishment Time-Series (NETS) Database, Walls & Associates, 2013; City of Elk Grove; EPS.

home_estab

[1] See Table 7.

Table 7
Elk Grove Employment Dynamics
Elk Grove Home-Business Employment Growth, 2000-2013

Home-Business Employment 2000-2013
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Industry (NAICS)	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	Growth 2000-2013
Total Employment															
Agriculture, Forestry, Fishing and Hunting (11)	23	26	29	30	24	21	23	23	25	30	27	33	33	31	
Mining (21)	0	0	1	1	1	1	1	1	1	1	1	1	1	1	
Utilities (22)	0	2	2	2	2	2	2	2	2	2	2	2	2	2	
Construction (23)	141	144	179	189	194	229	262	268	311	367	376	533	575	550	
Manufacturing (31-33)	41	56	64	70	79	96	101	100	105	109	96	107	103	93	
Wholesale Trade (42)	27	41	55	65	74	78	80	80	103	115	113	154	162	155	
Retail Trade (44-45)	113	145	158	152	182	204	218	241	268	301	248	362	391	394	
Transportation and Warehousing (48-49)	29	29	35	37	45	55	75	81	102	116	105	150	159	169	
Information (51)	28	39	44	49	54	57	59	64	72	76	60	85	87	83	
Finance and Insurance (52)	12	19	34	43	56	71	103	122	175	209	155	205	198	209	
Real Estate and Rental and Leasing (53)	35	46	49	64	65	89	154	170	193	209	174	258	272	246	
Professional, Scientific, and Technical Services (54)	120	148	174	184	234	255	309	322	382	460	466	711	778	728	
Management of Companies & Enterprises (55)	0	0	0	0	0	0	0	0	2	4	4	6	8	6	
Administrative and Waste Services (56)	73	90	184	251	272	359	727	843	1,095	1,499	1,649	2,181	2,134	1,870	
Educational Services, Health Care and Social Assistance (61-62)	48	64	71	74	91	103	108	120	130	149	134	204	224	202	
Arts, Entertainment, and Recreation (71)	58	67	71	83	87	83	86	86	99	94	89	103	101	57	
Accommodation and Food Services (72)	7	13	15	13	15	15	20	22	24	27	24	24	22	20	
Other Services (81)	64	71	87	100	105	127	146	162	181	207	176	239	260	255	
Public Administration (92)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Uncoded and Not Classified	0	0	0	0	0	0	0	0	0	0	0	1	3	3	
Total	821	1,002	1,254	1,409	1,582	1,847	2,476	2,709	3,272	3,977	3,901	5,361	5,515	5,076	
Percent of Total Elk Grove Employment	5%	6%	7%	7%	6%	7%	8%	9%	10%	11%	11%	13%	13%	11%	
Total Establishments [1]	510	634	787	890	1,026	1,207	1,601	1,790	2,147	2,581	2,494	3,572	3,607	3,206	
Year-Over-Year Growth (Absolute)															
Agriculture, Forestry, Fishing and Hunting (11)		3	3	1	(6)	(3)	2	0	2	5	(3)	6	0	(2)	8
Mining (21)		0	1	0	0	0	0	0	0	0	0	0	0	0	1
Utilities (22)		2	0	0	0	0	0	0	0	0	0	0	0	0	2
Construction (23)		3	35	10	5	35	33	6	43	56	9	157	42	(25)	409
Manufacturing (31-33)		15	8	6	9	17	5	(1)	5	4	(13)	11	(4)	(10)	52
Wholesale Trade (42)		14	14	10	9	4	2	0	23	12	(2)	41	8	(7)	128
Retail Trade (44-45)		32	13	(6)	30	22	14	23	27	33	(53)	114	29	3	281
Transportation and Warehousing (48-49)		0	6	2	8	10	20	6	21	14	(11)	45	9	10	140
Information (51)		11	5	5	5	3	2	5	8	4	(16)	25	2	(4)	55
Finance and Insurance (52)		7	15	9	13	15	32	19	53	34	(54)	50	(7)	11	197
Real Estate and Rental and Leasing (53)		11	3	15	1	24	65	16	23	16	(35)	84	14	(26)	211
Professional, Scientific, and Technical Services (54)		28	26	10	50	21	54	13	60	78	6	245	67	(50)	608
Management of Companies & Enterprises (55)		0	0	0	0	0	0	0	2	2	0	2	2	(2)	6
Administrative and Waste Services (56)		17	94	67	21	87	368	116	252	404	150	532	(47)	(264)	1,797
Educational Services, Health Care and Social Assistance (61-62)		16	7	3	17	12	5	12	10	19	(15)	70	20	(22)	154
Arts, Entertainment, and Recreation (71)		9	4	12	4	(4)	3	0	13	(5)	(5)	14	(2)	(44)	(1)
Accommodation and Food Services (72)		6	2	(2)	2	0	5	2	2	3	(3)	0	(2)	(2)	13
Other Services (81)		7	16	13	5	22	19	16	19	26	(31)	63	21	(5)	191
Public Administration (92)		0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uncoded and Not Classified		0	0	0	0	0	0	0	0	0	0	1	2	0	3
Total	181	252	155	173	265	629	233	563	705	(76)	1,460	154	(439)	4,255	
Percent of Total Elk Grove Employment Growth/Loss	12%	11%	10%	4%	11%	28%	13%	29%	24%	78%	31%	17%	(14%)	64%	
Total Year-Over-Year Growth in Establishments [1]		124	153	103	136	181	394	189	357	434	(87)	1,078	35	(401)	2,696

Source: National Establishment Time-Series (NETS) Database, Walls & Associates, 2013; City of Elk Grove; EPS.

home_emp

[1] See Table 6.

**Table 8
Elk Grove Employment Dynamics
Elk Grove Jobs-Housing Ratio 2000-2013**

Jobs-Housing Ratio 2000-2013

Industry (NAICS)	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Total Employment	15,205	16,671	19,067	20,623	24,979	27,341	29,617	31,367	33,307	36,204	36,106	40,768	41,651	44,806
Housing Units [1] [2]	N/A	25,211	27,004	28,886	37,580	41,905	45,696	47,878	49,011	49,833	50,634	50,869	51,207	51,973
Jobs-Housing Ratio	N/A	0.66	0.71	0.71	0.66	0.65	0.65	0.66	0.68	0.73	0.71	0.80	0.81	0.86

Source: National Establishment Time-Series (NETS) Database, Walls & Associates, 2013; City of Elk Grove; EPS.

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[1] CA Dept. of Finance, Report E-8: Historical Population and Housing Estimates for Cities, Counties, and the State, 2000-2010.

[2] CA Dept. of Finance, Report E-5: Population and Housing Estimates for Cities, Counties and the State, January 1, 2011-2015, with 2010 Benchmark.

APPENDICES:

- Appendix A: Detailed Employee and Establishment Data by Year
- Appendix B: Comparison to Other Data Sources
- Appendix C: NAICS Code Definitions



APPENDIX A:

Detailed Employee and Establishment Data by Year

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**Table A-1
Elk Grove Employment Dynamics
Elk Grove Establishments and Employment by Major Sector, 2000**

2000

Industry (NAICS)	Establishments		Employment	
	Total	Share	Total	Share
Agriculture, Forestry, Fishing and Hunting (11)	38	1.8%	96	0.6%
Mining (21)	1	0.0%	20	0.1%
Utilities (22)	2	0.1%	10	0.1%
Construction (23)	233	11.1%	1,177	7.7%
Manufacturing (31-33)	105	5.0%	819	5.4%
Wholesale Trade (42)	83	3.9%	460	3.0%
Retail Trade (44-45)	331	15.7%	3,376	22.2%
Transportation and Warehousing (48-49)	59	2.8%	373	2.5%
Information (51)	58	2.8%	856	5.6%
Finance and Insurance (52)	98	4.7%	474	3.1%
Real Estate and Rental and Leasing (53)	89	4.2%	409	2.7%
Professional, Scientific, and Technical Services (54)	264	12.5%	718	4.7%
Management of Companies & Enterprises (55)	0	0.0%	0	0.0%
Administrative and Waste Services (56)	171	8.1%	696	4.6%
Educational Services, Health Care and Social Assistance (61-62)	202	9.6%	2,637	17.3%
Arts, Entertainment, and Recreation (71)	43	2.0%	339	2.2%
Accommodation and Food Services (72)	84	4.0%	1,441	9.5%
Other Services (81)	237	11.2%	1,077	7.1%
Public Administration (92)	8	0.4%	226	1.5%
Uncoded and Not Classified	1	0.0%	1	0.0%
Total	2,107	100.0%	15,205	100.0%

NAICS_2000

Source: National Establishment Time-Series (NETS) Database, Walls & Associates, 2013; City of Elk Grove; EPS.

A-1

**Table A-2
Elk Grove Employment Dynamics
Elk Grove Establishments and Employment by Major Sector, 2001**

2001

Industry (NAICS)	Establishments		Employment	
	Total	Share	Total	Share
Agriculture, Forestry, Fishing and Hunting (11)	40	1.7%	101	0.6%
Mining (21)	2	0.1%	23	0.1%
Utilities (22)	3	0.1%	12	0.1%
Construction (23)	253	10.5%	1,231	7.4%
Manufacturing (31-33)	119	4.9%	889	5.3%
Wholesale Trade (42)	97	4.0%	477	2.9%
Retail Trade (44-45)	372	15.4%	3,917	23.5%
Transportation and Warehousing (48-49)	64	2.7%	414	2.5%
Information (51)	63	2.6%	572	3.4%
Finance and Insurance (52)	118	4.9%	487	2.9%
Real Estate and Rental and Leasing (53)	110	4.6%	440	2.6%
Professional, Scientific, and Technical Services (54)	303	12.6%	859	5.2%
Management of Companies & Enterprises (55)	0	0.0%	0	0.0%
Administrative and Waste Services (56)	189	7.8%	704	4.2%
Educational Services, Health Care and Social Assistance (61-62)	239	9.9%	2,909	17.4%
Arts, Entertainment, and Recreation (71)	58	2.4%	366	2.2%
Accommodation and Food Services (72)	102	4.2%	1,614	9.7%
Other Services (81)	271	11.2%	1,199	7.2%
Public Administration (92)	9	0.4%	456	2.7%
Uncoded and Not Classified	1	0.0%	1	0.0%
Total	2,413	100.0%	16,671	100.0%

NAICS_2001

Source: National Establishment Time-Series (NETS) Database, Walls & Associates, 2013; City of Elk Grove; EPS.

**Table A-3
Elk Grove Employment Dynamics
Elk Grove Establishments and Employment by Major Sector, 2002**

2002

Industry (NAICS)	Establishments		Employment	
	Total	Share	Total	Share
Agriculture, Forestry, Fishing and Hunting (11)	40	1.4%	103	0.5%
Mining (21)	3	0.1%	24	0.1%
Utilities (22)	2	0.1%	11	0.1%
Construction (23)	274	9.6%	1,473	7.7%
Manufacturing (31-33)	127	4.4%	912	4.8%
Wholesale Trade (42)	110	3.8%	542	2.8%
Retail Trade (44-45)	415	14.5%	3,982	20.9%
Transportation and Warehousing (48-49)	82	2.9%	466	2.4%
Information (51)	69	2.4%	612	3.2%
Finance and Insurance (52)	133	4.6%	1,018	5.3%
Real Estate and Rental and Leasing (53)	125	4.4%	502	2.6%
Professional, Scientific, and Technical Services (54)	360	12.6%	993	5.2%
Management of Companies & Enterprises (55)	0	0.0%	0	0.0%
Administrative and Waste Services (56)	293	10.2%	986	5.2%
Educational Services, Health Care and Social Assistance (61-62)	288	10.1%	3,251	17.1%
Arts, Entertainment, and Recreation (71)	64	2.2%	470	2.5%
Accommodation and Food Services (72)	113	3.9%	1,900	10.0%
Other Services (81)	349	12.2%	1,346	7.1%
Public Administration (92)	10	0.3%	471	2.5%
Uncoded and Not Classified	4	0.1%	5	0.0%
Total	2,861	100.0%	19,067	100.0%

NAICS_2002

Source: National Establishment Time-Series (NETS) Database, Walls & Associates, 2013; City of Elk Grove; EPS.

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**Table A-4
Elk Grove Employment Dynamics
Elk Grove Establishments and Employment by Major Sector, 2003**

2003

Industry (NAICS)	Establishments		Employment	
	Total	Share	Total	Share
Agriculture, Forestry, Fishing and Hunting (11)	42	1.3%	105	0.5%
Mining (21)	3	0.1%	24	0.1%
Utilities (22)	2	0.1%	11	0.1%
Construction (23)	334	10.2%	1,580	7.7%
Manufacturing (31-33)	140	4.3%	1,031	5.0%
Wholesale Trade (42)	123	3.7%	606	2.9%
Retail Trade (44-45)	452	13.7%	4,365	21.2%
Transportation and Warehousing (48-49)	92	2.8%	660	3.2%
Information (51)	88	2.7%	851	4.1%
Finance and Insurance (52)	159	4.8%	801	3.9%
Real Estate and Rental and Leasing (53)	152	4.6%	565	2.7%
Professional, Scientific, and Technical Services (54)	421	12.8%	1,037	5.0%
Management of Companies & Enterprises (55)	0	0.0%	0	0.0%
Administrative and Waste Services (56)	374	11.4%	1,078	5.2%
Educational Services, Health Care and Social Assistance (61-62)	314	9.5%	3,501	17.0%
Arts, Entertainment, and Recreation (71)	68	2.1%	520	2.5%
Accommodation and Food Services (72)	128	3.9%	2,107	10.2%
Other Services (81)	385	11.7%	1,367	6.6%
Public Administration (92)	9	0.3%	409	2.0%
Uncoded and Not Classified	4	0.1%	5	0.0%
Total	3,290	100.0%	20,623	100.0%

NAICS_2003

Source: National Establishment Time-Series (NETS) Database, Walls & Associates, 2013; City of Elk Grove; EPS.

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**Table A-5
Elk Grove Employment Dynamics
Elk Grove Establishments and Employment by Major Sector, 2004**

2004

Industry (NAICS)	Establishments		Employment	
	Total	Share	Total	Share
Agriculture, Forestry, Fishing and Hunting (11)	38	1.0%	136	0.5%
Mining (21)	3	0.1%	24	0.1%
Utilities (22)	2	0.1%	11	0.0%
Construction (23)	361	9.8%	1,652	6.6%
Manufacturing (31-33)	163	4.4%	1,297	5.2%
Wholesale Trade (42)	153	4.1%	1,126	4.5%
Retail Trade (44-45)	527	14.3%	6,267	25.1%
Transportation and Warehousing (48-49)	100	2.7%	727	2.9%
Information (51)	106	2.9%	875	3.5%
Finance and Insurance (52)	193	5.2%	1,293	5.2%
Real Estate and Rental and Leasing (53)	176	4.8%	686	2.7%
Professional, Scientific, and Technical Services (54)	462	12.5%	1,125	4.5%
Management of Companies & Enterprises (55)	0	0.0%	0	0.0%
Administrative and Waste Services (56)	422	11.4%	1,188	4.8%
Educational Services, Health Care and Social Assistance (61-62)	344	9.3%	3,903	15.6%
Arts, Entertainment, and Recreation (71)	80	2.2%	559	2.2%
Accommodation and Food Services (72)	140	3.8%	2,114	8.5%
Other Services (81)	410	11.1%	1,430	5.7%
Public Administration (92)	10	0.3%	561	2.2%
Uncoded and Not Classified	4	0.1%	5	0.0%
Total	3,694	100.0%	24,979	100.0%

NAICS_2004

Source: National Establishment Time-Series (NETS) Database, Walls & Associates, 2013; City of Elk Grove; EPS.

**Table A-6
Elk Grove Employment Dynamics
Elk Grove Establishments and Employment by Major Sector, 2005**

2005

Industry (NAICS)	Establishments		Employment	
	Total	Share	Total	Share
Agriculture, Forestry, Fishing and Hunting (11)	38	0.9%	138	0.5%
Mining (21)	4	0.1%	26	0.1%
Utilities (22)	2	0.0%	14	0.1%
Construction (23)	404	9.7%	1,776	6.5%
Manufacturing (31-33)	178	4.3%	1,430	5.2%
Wholesale Trade (42)	168	4.0%	1,256	4.6%
Retail Trade (44-45)	578	13.9%	6,910	25.3%
Transportation and Warehousing (48-49)	114	2.7%	887	3.2%
Information (51)	113	2.7%	900	3.3%
Finance and Insurance (52)	231	5.5%	1,390	5.1%
Real Estate and Rental and Leasing (53)	216	5.2%	805	2.9%
Professional, Scientific, and Technical Services (54)	493	11.8%	1,216	4.4%
Management of Companies & Enterprises (55)	0	0.0%	0	0.0%
Administrative and Waste Services (56)	561	13.5%	1,449	5.3%
Educational Services, Health Care and Social Assistance (61-62)	384	9.2%	4,336	15.9%
Arts, Entertainment, and Recreation (71)	76	1.8%	481	1.8%
Accommodation and Food Services (72)	150	3.6%	2,222	8.1%
Other Services (81)	440	10.6%	1,538	5.6%
Public Administration (92)	11	0.3%	563	2.1%
Uncoded and Not Classified	3	0.1%	4	0.0%
Total	4,164	100.0%	27,341	100.0%

NAICS_2005

Source: National Establishment Time-Series (NETS) Database, Walls & Associates, 2013; City of Elk Grove; EPS.

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**Table A-7
Elk Grove Employment Dynamics
Elk Grove Establishments and Employment by Major Sector, 2006**

2006

Industry (NAICS)	Establishments		Employment	
	Total	Share	Total	Share
Agriculture, Forestry, Fishing and Hunting (11)	40	0.8%	141	0.5%
Mining (21)	4	0.1%	10	0.0%
Utilities (22)	2	0.0%	14	0.0%
Construction (23)	438	9.0%	1,919	6.5%
Manufacturing (31-33)	179	3.7%	1,340	4.5%
Wholesale Trade (42)	164	3.4%	1,279	4.3%
Retail Trade (44-45)	619	12.8%	7,343	24.8%
Transportation and Warehousing (48-49)	130	2.7%	936	3.2%
Information (51)	110	2.3%	787	2.7%
Finance and Insurance (52)	279	5.8%	1,561	5.3%
Real Estate and Rental and Leasing (53)	282	5.8%	986	3.3%
Professional, Scientific, and Technical Services (54)	551	11.4%	1,398	4.7%
Management of Companies & Enterprises (55)	2	0.0%	4	0.0%
Administrative and Waste Services (56)	884	18.3%	1,951	6.6%
Educational Services, Health Care and Social Assistance (61-62)	410	8.5%	4,673	15.8%
Arts, Entertainment, and Recreation (71)	91	1.9%	601	2.0%
Accommodation and Food Services (72)	168	3.5%	2,398	8.1%
Other Services (81)	474	9.8%	1,643	5.5%
Public Administration (92)	11	0.2%	622	2.1%
Uncoded and Not Classified	5	0.1%	11	0.0%
Total	4,843	100.0%	29,617	100.0%

NAICS_2006

Source: National Establishment Time-Series (NETS) Database, Walls & Associates, 2013; City of Elk Grove; EPS.

**Table A-8
Elk Grove Employment Dynamics
Elk Grove Establishments and Employment by Major Sector, 2007**

2007

Industry (NAICS)	Establishments		Employment	
	Total	Share	Total	Share
Agriculture, Forestry, Fishing and Hunting (11)	39	0.7%	145	0.5%
Mining (21)	5	0.1%	12	0.0%
Utilities (22)	2	0.0%	14	0.0%
Construction (23)	462	8.8%	1,962	6.3%
Manufacturing (31-33)	184	3.5%	1,333	4.2%
Wholesale Trade (42)	171	3.3%	1,227	3.9%
Retail Trade (44-45)	632	12.0%	7,365	23.5%
Transportation and Warehousing (48-49)	134	2.6%	950	3.0%
Information (51)	116	2.2%	1,189	3.8%
Finance and Insurance (52)	306	5.8%	1,632	5.2%
Real Estate and Rental and Leasing (53)	309	5.9%	1,112	3.5%
Professional, Scientific, and Technical Services (54)	583	11.1%	1,684	5.4%
Management of Companies & Enterprises (55)	3	0.1%	6	0.0%
Administrative and Waste Services (56)	1,027	19.6%	2,238	7.1%
Educational Services, Health Care and Social Assistance (61-62)	441	8.4%	4,968	15.8%
Arts, Entertainment, and Recreation (71)	103	2.0%	604	1.9%
Accommodation and Food Services (72)	199	3.8%	2,544	8.1%
Other Services (81)	515	9.8%	1,725	5.5%
Public Administration (92)	13	0.2%	643	2.0%
Uncoded and Not Classified	7	0.1%	14	0.0%
Total	5,251	100.0%	31,367	100.0%

NAICS_2007

Source: National Establishment Time-Series (NETS) Database, Walls & Associates, 2013; City of Elk Grove; EPS.

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**Table A-9
Elk Grove Employment Dynamics
Elk Grove Establishments and Employment by Major Sector, 2008**

2008

Industry (NAICS)	Establishments		Employment	
	Total	Share	Total	Share
Agriculture, Forestry, Fishing and Hunting (11)	39	0.6%	144	0.4%
Mining (21)	4	0.1%	20	0.1%
Utilities (22)	5	0.1%	22	0.1%
Construction (23)	510	8.5%	1,849	5.6%
Manufacturing (31-33)	194	3.2%	1,346	4.0%
Wholesale Trade (42)	204	3.4%	1,315	3.9%
Retail Trade (44-45)	695	11.6%	7,747	23.3%
Transportation and Warehousing (48-49)	161	2.7%	1,017	3.1%
Information (51)	121	2.0%	1,096	3.3%
Finance and Insurance (52)	368	6.1%	1,778	5.3%
Real Estate and Rental and Leasing (53)	342	5.7%	1,208	3.6%
Professional, Scientific, and Technical Services (54)	673	11.2%	1,891	5.7%
Management of Companies & Enterprises (55)	7	0.1%	14	0.0%
Administrative and Waste Services (56)	1,277	21.3%	2,682	8.1%
Educational Services, Health Care and Social Assistance (61-62)	504	8.4%	5,395	16.2%
Arts, Entertainment, and Recreation (71)	111	1.8%	592	1.8%
Accommodation and Food Services (72)	192	3.2%	2,482	7.5%
Other Services (81)	580	9.7%	1,951	5.9%
Public Administration (92)	13	0.2%	750	2.3%
Uncoded and Not Classified	5	0.1%	8	0.0%
Total	6,005	100.0%	33,307	100.0%

NAICS_2008

Source: National Establishment Time-Series (NETS) Database, Walls & Associates, 2013; City of Elk Grove; EPS.

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Table A-10
Elk Grove Employment Dynamics
Elk Grove Establishments and Employment by Major Sector, 2009

2009

Industry (NAICS)	Establishments		Employment	
	Total	Share	Total	Share
Agriculture, Forestry, Fishing and Hunting (11)	48	0.7%	158	0.4%
Mining (21)	4	0.1%	20	0.1%
Utilities (22)	5	0.1%	22	0.1%
Construction (23)	587	8.0%	1,907	5.3%
Manufacturing (31-33)	209	2.9%	1,388	3.8%
Wholesale Trade (42)	237	3.2%	1,392	3.8%
Retail Trade (44-45)	765	10.5%	8,090	22.3%
Transportation and Warehousing (48-49)	189	2.6%	1,084	3.0%
Information (51)	132	1.8%	1,096	3.0%
Finance and Insurance (52)	428	5.9%	2,065	5.7%
Real Estate and Rental and Leasing (53)	372	5.1%	1,271	3.5%
Professional, Scientific, and Technical Services (54)	821	11.3%	2,148	5.9%
Management of Companies & Enterprises (55)	11	0.2%	23	0.1%
Administrative and Waste Services (56)	1,946	26.7%	3,847	10.6%
Educational Services, Health Care and Social Assistance (61-62)	567	7.8%	5,775	16.0%
Arts, Entertainment, and Recreation (71)	118	1.6%	623	1.7%
Accommodation and Food Services (72)	191	2.6%	2,450	6.8%
Other Services (81)	646	8.9%	2,080	5.7%
Public Administration (92)	13	0.2%	750	2.1%
Uncoded and Not Classified	8	0.1%	15	0.0%
Total	7,297	100.0%	36,204	100.0%

NAICS_2009

Source: National Establishment Time-Series (NETS) Database, Walls & Associates, 2013; City of Elk Grove; EPS.

Table A-11
Elk Grove Employment Dynamics
Elk Grove Establishments and Employment by Major Sector, 2010

2010

Industry (NAICS)	Establishments		Employment	
	Total	Share	Total	Share
Agriculture, Forestry, Fishing and Hunting (11)	39	0.6%	117	0.3%
Mining (21)	3	0.0%	18	0.0%
Utilities (22)	4	0.1%	20	0.1%
Construction (23)	569	8.2%	1,855	5.1%
Manufacturing (31-33)	184	2.6%	1,340	3.7%
Wholesale Trade (42)	221	3.2%	1,321	3.7%
Retail Trade (44-45)	688	9.9%	8,147	22.6%
Transportation and Warehousing (48-49)	175	2.5%	1,044	2.9%
Information (51)	114	1.6%	1,069	3.0%
Finance and Insurance (52)	348	5.0%	1,822	5.0%
Real Estate and Rental and Leasing (53)	330	4.7%	1,190	3.3%
Professional, Scientific, and Technical Services (54)	816	11.7%	2,129	5.9%
Management of Companies & Enterprises (55)	10	0.1%	21	0.1%
Administrative and Waste Services (56)	1,933	27.8%	3,888	10.8%
Educational Services, Health Care and Social Assistance (61-62)	555	8.0%	5,918	16.4%
Arts, Entertainment, and Recreation (71)	124	1.8%	640	1.8%
Accommodation and Food Services (72)	187	2.7%	2,633	7.3%
Other Services (81)	640	9.2%	2,167	6.0%
Public Administration (92)	13	0.2%	752	2.1%
Uncoded and Not Classified	8	0.1%	15	0.0%
Total	6,961	100.0%	36,106	100.0%

NAICS_2010

Source: National Establishment Time-Series (NETS) Database, Walls & Associates, 2013; City of Elk Grove; EPS.

Table A-12
Elk Grove Employment Dynamics
Elk Grove Establishments and Employment by Major Sector, 2011

2011

Industry (NAICS)	Establishments		Employment	
	Total	Share	Total	Share
Agriculture, Forestry, Fishing and Hunting (11)	46	0.5%	123	0.3%
Mining (21)	3	0.0%	18	0.0%
Utilities (22)	4	0.0%	21	0.1%
Construction (23)	838	8.7%	2,134	5.2%
Manufacturing (31-33)	215	2.2%	1,433	3.5%
Wholesale Trade (42)	339	3.5%	1,560	3.8%
Retail Trade (44-45)	877	9.1%	8,585	21.1%
Transportation and Warehousing (48-49)	249	2.6%	1,087	2.7%
Information (51)	169	1.8%	1,167	2.9%
Finance and Insurance (52)	443	4.6%	1,965	4.8%
Real Estate and Rental and Leasing (53)	454	4.7%	1,360	3.3%
Professional, Scientific, and Technical Services (54)	1,234	12.9%	2,642	6.5%
Management of Companies & Enterprises (55)	17	0.2%	35	0.1%
Administrative and Waste Services (56)	2,695	28.1%	4,978	12.2%
Educational Services, Health Care and Social Assistance (61-62)	747	7.8%	6,656	16.3%
Arts, Entertainment, and Recreation (71)	159	1.7%	693	1.7%
Accommodation and Food Services (72)	210	2.2%	2,988	7.3%
Other Services (81)	871	9.1%	2,512	6.2%
Public Administration (92)	16	0.2%	789	1.9%
Uncoded and Not Classified	10	0.1%	22	0.1%
Total	9,596	100.0%	40,768	100.0%

NAICS_2011

Source: National Establishment Time-Series (NETS) Database, Walls & Associates, 2013; City of Elk Grove; EPS.

Table A-13
Elk Grove Employment Dynamics
Elk Grove Establishments and Employment by Major Sector, 2012

2012

Industry (NAICS)	Establishments		Employment	
	Total	Share	Total	Share
Agriculture, Forestry, Fishing and Hunting (11)	42	0.4%	80	0.2%
Mining (21)	3	0.0%	18	0.0%
Utilities (22)	3	0.0%	18	0.0%
Construction (23)	795	8.5%	2,213	5.3%
Manufacturing (31-33)	201	2.1%	1,501	3.6%
Wholesale Trade (42)	338	3.6%	1,551	3.7%
Retail Trade (44-45)	878	9.3%	8,746	21.0%
Transportation and Warehousing (48-49)	249	2.7%	1,010	2.4%
Information (51)	164	1.7%	1,032	2.5%
Finance and Insurance (52)	439	4.7%	2,078	5.0%
Real Estate and Rental and Leasing (53)	480	5.1%	1,414	3.4%
Professional, Scientific, and Technical Services (54)	1,287	13.7%	2,797	6.7%
Management of Companies & Enterprises (55)	17	0.2%	35	0.1%
Administrative and Waste Services (56)	2,389	25.4%	4,669	11.2%
Educational Services, Health Care and Social Assistance (61-62)	804	8.6%	6,987	16.8%
Arts, Entertainment, and Recreation (71)	152	1.6%	700	1.7%
Accommodation and Food Services (72)	209	2.2%	3,126	7.5%
Other Services (81)	907	9.7%	2,526	6.1%
Public Administration (92)	25	0.3%	1,120	2.7%
Uncoded and Not Classified	11	0.1%	30	0.1%
Total	9,393	100.0%	41,651	100.0%

NAICS_2012

Source: National Establishment Time-Series (NETS) Database, Walls & Associates, 2013; City of Elk Grove; EPS.

Table A-14
Elk Grove Employment Dynamics
Elk Grove Establishments and Employment by Major Sector, 2013

2013

Industry (NAICS)	Establishments		Employment	
	Total	Share	Total	Share
Agriculture, Forestry, Fishing and Hunting (11)	44	0.5%	91	0.2%
Mining (21)	3	0.0%	18	0.0%
Utilities (22)	3	0.0%	18	0.0%
Construction (23)	755	8.7%	2,210	4.9%
Manufacturing (31-33)	196	2.3%	1,528	3.4%
Wholesale Trade (42)	318	3.7%	1,594	3.6%
Retail Trade (44-45)	835	9.6%	9,670	21.6%
Transportation and Warehousing (48-49)	253	2.9%	1,118	2.5%
Information (51)	156	1.8%	1,028	2.3%
Finance and Insurance (52)	422	4.8%	2,105	4.7%
Real Estate and Rental and Leasing (53)	460	5.3%	1,305	2.9%
Professional, Scientific, and Technical Services (54)	1,183	13.6%	2,593	5.8%
Management of Companies & Enterprises (55)	16	0.2%	36	0.1%
Administrative and Waste Services (56)	2,038	23.4%	4,357	9.7%
Educational Services, Health Care and Social Assistance (61-62)	795	9.1%	9,748	21.8%
Arts, Entertainment, and Recreation (71)	142	1.6%	655	1.5%
Accommodation and Food Services (72)	199	2.3%	3,092	6.9%
Other Services (81)	852	9.8%	2,429	5.4%
Public Administration (92)	28	0.3%	1,172	2.6%
Uncoded and Not Classified	12	0.1%	39	0.1%
Total	8,710	100.0%	44,806	100.0%

NAICS_2013

Source: National Establishment Time-Series (NETS) Database, Walls & Associates, 2013; City of Elk Grove; EPS.

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APPENDIX B:

Comparison to Other Data Sources

Table B-1	Absolute Employment Growth Comparison for the City of Elk Grove, NETS vs. Alternative Sources (2 pages)	B-1
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**Table B-1
Elk Grove Employment Dynamics
Absolute Employment Growth Comparison for the City of Elk Grove, NETS vs. Alternative Sources**

Employment Data Source Comparison 2000-2013
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Industry (NAICS)	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
NETS [1]														
Agriculture, Forestry, Fishing and Hunting (11)	96	101	103	105	136	138	141	145	144	158	117	123	80	91
Mining (21)	20	23	24	24	24	26	10	12	20	20	18	18	18	18
Utilities (22)	10	12	11	11	11	14	14	14	22	22	20	21	18	18
Construction (23)	1,177	1,231	1,473	1,580	1,652	1,776	1,919	1,962	1,849	1,907	1,855	2,134	2,213	2,210
Manufacturing (31-33)	819	889	912	1,031	1,297	1,430	1,340	1,333	1,346	1,388	1,340	1,433	1,501	1,528
Wholesale Trade (42)	460	477	542	606	1,126	1,256	1,279	1,227	1,315	1,392	1,321	1,560	1,551	1,594
Retail Trade (44-45)	3,376	3,917	3,982	4,365	6,267	6,910	7,343	7,365	7,747	8,090	8,147	8,585	8,746	9,670
Transportation and Warehousing (48-49)	373	414	466	660	727	887	936	950	1,017	1,084	1,044	1,087	1,010	1,118
Information (51)	856	572	612	851	875	900	787	1,189	1,096	1,096	1,069	1,167	1,032	1,028
Finance and Insurance (52)	474	487	1,018	801	1,293	1,390	1,561	1,632	1,778	2,065	1,822	1,965	2,078	2,105
Real Estate and Rental and Leasing (53)	409	440	502	565	686	805	986	1,112	1,208	1,271	1,190	1,360	1,414	1,305
Professional, Scientific, and Technical Services (54)	718	859	993	1,037	1,125	1,216	1,398	1,684	1,891	2,148	2,129	2,642	2,797	2,593
Management of Companies & Enterprises (55)	0	0	0	0	0	0	4	6	14	23	21	35	35	36
Administrative and Waste Services (56)	696	704	986	1,078	1,188	1,449	1,951	2,238	2,682	3,847	3,888	4,978	4,669	4,357
Educational Services, Health Care and Social Assistance (61-62)	2,637	2,909	3,251	3,501	3,903	4,336	4,673	4,968	5,395	5,775	5,918	6,656	6,987	9,748
Arts, Entertainment, and Recreation (71)	339	366	470	520	559	481	601	604	592	623	640	693	700	655
Accommodation and Food Services (72)	1,441	1,614	1,900	2,107	2,114	2,222	2,398	2,544	2,482	2,450	2,633	2,988	3,126	3,092
Other Services (81)	1,077	1,199	1,346	1,367	1,430	1,538	1,643	1,725	1,951	2,080	2,167	2,512	2,526	2,429
Public Administration (92)	226	456	471	409	561	563	622	643	750	750	752	789	1,120	1,172
Uncoded and Not Classified	1	1	5	5	5	4	11	14	8	15	15	22	30	39
Total	15,205	16,671	19,067	20,623	24,979	27,341	29,617	31,367	33,307	36,204	36,106	40,768	41,651	44,806
OnTheMap [2] [5]														
Agriculture, Forestry, Fishing and Hunting (11)	-	-	76	83	68	58	67	71	76	74	46	53	66	55
Mining (21)	-	-	0	0	0	0	0	0	0	0	2	1	13	8
Utilities (22)	-	-	59	72	59	76	96	82	124	91	103	109	134	118
Construction (23)	-	-	1,530	1,698	1,735	1,907	2,070	1,789	1,422	1,214	1,058	973	891	1,172
Manufacturing (31-33)	-	-	729	757	859	874	887	1,507	1,658	1,736	1,685	1,654	1,519	1,606
Wholesale Trade (42)	-	-	200	281	342	360	498	398	490	365	403	535	658	651
Retail Trade (44-45)	-	-	3,827	4,008	4,140	5,004	5,361	4,958	5,287	4,606	5,087	5,695	5,280	5,324
Transportation and Warehousing (48-49)	-	-	343	392	432	461	467	524	535	542	403	401	426	456
Information (51)	-	-	399	315	333	321	354	337	305	302	348	365	314	288
Finance and Insurance (52)	-	-	865	866	1,077	1,171	1,258	1,063	996	809	734	561	587	658
Real Estate and Rental and Leasing (53)	-	-	233	220	252	367	354	343	345	289	294	262	260	276
Professional, Scientific, and Technical Services (54)	-	-	534	635	602	713	867	736	845	886	779	829	1,069	1,087
Management of Companies & Enterprises (55)	-	-	112	119	98	103	89	84	81	68	70	56	137	164
Administrative and Waste Services (56)	-	-	577	795	741	711	671	607	527	498	654	1,392	1,574	1,006
Educational Services, Health Care and Social Assistance (61-62)	-	-	4,410	4,468	4,721	4,995	5,381	4,866	5,637	5,979	6,050	6,444	6,404	7,759
Arts, Entertainment, and Recreation (71)	-	-	324	348	351	350	378	377	408	426	414	512	590	661
Accommodation and Food Services (72)	-	-	2,183	2,690	2,729	3,079	3,342	3,351	3,596	3,399	3,254	3,544	3,708	4,145
Other Services (81)	-	-	717	754	841	821	715	1,483	1,793	1,921	1,979	2,051	1,954	940
Public Administration (92)	-	-	373	373	410	507	500	702	973	853	1,218	1,157	1,047	1,019
Total	-	-	17,491	18,874	19,790	21,878	23,355	23,278	25,098	24,058	24,581	26,594	26,631	27,393

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**Table B-1
Elk Grove Employment Dynamics
Absolute Employment Growth Comparison for the City of Elk Grove, NETS vs. Alternative Sources**

Employment Data Source Comparison 2000-2013
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Industry (NAICS)	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
SACOG [3] [6]														
Total	54,000	55,300	56,500	57,400	57,900	58,700	59,300	59,500	58,700	56,300	55,400	55,400	56,500	57,600
American Community Survey [4] [6]														
Agriculture, forestry, fishing and hunting, and mining	-	-	-	-	-	-	121	97	841	-	283	113	874	482
Construction	-	-	-	-	-	-	3,777	4,921	3,983	-	2,995	3,155	2,283	2,083
Manufacturing	-	-	-	-	-	-	4,353	3,306	4,690	-	4,003	2,551	3,500	4,433
Wholesale trade	-	-	-	-	-	-	2,057	2,803	2,297	-	1,656	1,476	1,496	1,050
Retail trade	-	-	-	-	-	-	8,301	7,324	7,626	-	6,702	10,136	6,587	7,405
Transportation and warehousing, and utilities	-	-	-	-	-	-	3,345	4,985	3,916	-	3,628	3,341	4,207	2,736
Information	-	-	-	-	-	-	1,812	1,416	1,602	-	1,756	1,489	1,340	2,774
Finance and insurance, and real estate and rental and leasing	-	-	-	-	-	-	6,681	5,313	5,767	-	4,978	2,556	7,534	4,352
Professional, scientific, and mgmt., and admin & waste services	-	-	-	-	-	-	7,233	5,345	5,882	-	7,197	7,686	7,041	6,433
Educational services, and health care and social assistance	-	-	-	-	-	-	14,902	12,381	15,970	-	18,465	20,200	15,927	16,249
Arts, entertainment, & rec., & accommodation & food services	-	-	-	-	-	-	4,751	6,940	5,372	-	4,746	5,405	5,894	4,613
Other services, except public administration	-	-	-	-	-	-	3,061	3,337	2,716	-	3,032	3,272	3,654	3,612
Public administration	-	-	-	-	-	-	9,949	9,579	9,975	-	11,009	9,426	9,463	10,281
Total	-	-	-	-	-	-	70,343	67,747	70,637	-	70,450	70,806	69,800	66,503

source_compare

[1] National Establishment Time-Series (NETS) Database, Walls & Associates, 2013; City of Elk Grove; EPS.
 [2] U.S. Census Bureau, OnTheMap, and LEHD Origin Destination Employment Statistics.
 [3] SACOG 2014 estimates based on data from California Employment Development Department. Approximates City of Elk Grove as Elk Grove CDP, Laguna CDP, and Laguna West Lakeside CDP in each year, including 2000-2003.
 [4] US Census Bureau, American Community Survey.
 [5] Based on Employment and Wage (ES-202) data, which does not include sole proprietors or count owners as employees.
 [6] Measures employment by place of residence rather than place of work.

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APPENDIX C:
NAICS Code Definitions

Table C-1 NAICS Definitions (7 pages).....C-1



**Table C-1
Elk Grove Employment Dynamics
NAICS Definitions**

NAICS Industry			NAICS Subcategories	
Code	Name	2012 NAICS Definition	Code	Name
11	Agriculture, Forestry, Fishing and Hunting	Comprises establishments primarily engaged in growing crops, raising animals, harvesting timber, and harvesting fish and other animals from a farm, ranch, or the animals' natural habitats. The establishments in this sector often are described as farms, ranches, dairies, greenhouses, nurseries, orchards, or hatcheries.	111	Crop Production
			112	Animal Production and Aquaculture
			113	Forestry and Logging
			114	Fishing, Hunting and Trapping
			115	Support Activities for Agriculture and Forestry
21	Mining, Quarrying, and Oil & Gas Extraction	Comprises establishments that extract naturally occurring mineral solids, such as coal and ores; liquid minerals, such as crude petroleum; and gases, such as natural gas. The term mining is used in the broad sense to include quarrying, well operations, beneficiating (e.g., crushing, screening, washing, and flotation), and other preparation customarily performed at the mine site or as a part of mining activity. Industries include establishments that develop the mine site, extract the natural resources, or those that beneficiate (i.e., prepare) the mineral mined.	211	Oil and Gas Extraction
			212	Mining (Except Oil & Gas)
			213	Support Activities for Mining
22	Utilities	Comprises establishments engaged in the provision of the following utility services: electric power, natural gas, steam supply, water supply, and sewage removal. In this sector, the specific activities associated with the utility services provided vary by utility: electric power includes generation, transmission, and distribution; natural gas includes distribution; steam supply includes provision or distribution; water supply includes treatment and distribution; and sewage removal includes collection, treatment, and disposal of waste through sewer systems and sewage treatment facilities. Solid waste management services are excluded from this sector.	2211	Electric Power Generation, Transmission & Distribution
			2212	Natural Gas Distribution
			2213	Water, Sewage, & Other Systems
23	Construction	Comprises establishments primarily engaged in the construction of buildings or engineering projects (e.g., highways and utility systems). Also includes establishments primarily engaged in the preparation of sites for new construction and subdividing land for sale as building sites. Establishments primarily engaged in activities to produce a specific component (e.g., masonry, painting, and electrical work) of a construction project are commonly known as specialty trade contractors. Activities of specialty trade contractors are usually subcontracted from other construction establishments, but especially in remodeling and repair construction, the work may be done directly for the owner of the property.	236	Construction of Buildings
			2361	Residential Building Construction
			2362	Nonresidential Building Construction
			237	Heavy and Civil Engineering Construction
			2371	Utility System Construction
			2372	Land Subdivision
			2373	Highway, Street, and Bridge Construction
			2379	Other Heavy and Civil Engineering Construction
			238	Specialty Trade Contractors
			2381	Foundation, Structure, and Building Exterior Contractors
			2382	Building Equipment Contractors
			2383	Building Finishing Contractors
			2389	Other Specialty Trade Contractors

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**Table C-1
Elk Grove Employment Dynamics
NAICS Definitions**

NAICS Industry		2012 NAICS Definition	NAICS Subcategories	
Code	Name		Code	Name
31-33	Manufacturing	Comprises establishments engaged in the mechanical, physical, or chemical transformation of materials, substances, or components into new products. The assembling of component parts of manufactured products is considered manufacturing, except in cases where the activity is appropriately classified in Sector 23, Construction. Establishments in the Manufacturing sector are often described as plants, factories, or mills and characteristically use power-driven machines and materials-handling equipment. However, establishments that transform materials or substances into new products by hand or in the worker's home and those engaged in selling to the general public products made on the same premises from which they are sold, such as bakeries, candy stores, and custom tailors, may also be included in this sector. Manufacturing establishments may process materials or may contract with other establishments to process their materials for them. The boundaries of manufacturing and the other sectors of the classification system can be somewhat blurry. The establishments in the manufacturing sector are engaged in the transformation of materials into new products. Their output is a new product.	311	Food Manufacturing
			312	Beverage & Tobacco Product Manufacturing
			313	Textile Mills
			314	Textile Product Mills
			315	Apparel Manufacturing
			316	Leather & Applied Product Manufacturing
			321	Wood Product Manufacturing
			322	Paper Manufacturing
			323	Printing & Related Support Activities
			324	Petroleum & Coal Products Manufacturing
			325	Chemical Manufacturing
			326	Plastics & Rubber Products Manufacturing
			327	Nonmetallic Mineral Product Manufacturing
			331	Primary Metal Manufacturing
			332	Fabricated Metal Product Manufacturing
			333	Machinery Manufacturing
			334	Computer & Electronic Product Manufacturing
			335	Electrical Equipment, Appliance, & Component Manufacturing
			336	Transportation Equipment Manufacturing
			337	Furniture & Related Product Manufacturing
			339	Miscellaneous Manufacturing
42	Wholesale Trade	Comprises establishments engaged in wholesaling merchandise, generally without transformation, and rendering services incidental to the sale of merchandise. The merchandise described in this sector includes the outputs of agriculture, mining, manufacturing, and certain information industries, such as publishing. Wholesalers sell merchandise to other businesses and normally operate from a warehouse or office. This sector comprises two main types of wholesalers: merchant wholesalers that sell goods on their own account and business-to-business electronic markets, agents, and brokers that arrange sales and purchases for others generally for a commission or fee.	423	Merchant Wholesalers, Durable Goods
			424	Merchant Wholesalers, Nondurable Goods
			425	Wholesale Electronic Markets & Agents & Brokers

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**Table C-1
Elk Grove Employment Dynamics
NAICS Definitions**

NAICS Industry		2012 NAICS Definition	NAICS Subcategories	
Code	Name		Code	Name
44-45	Retail Trade	<p>Comprises establishments engaged in retailing merchandise, generally without transformation, and rendering services incidental to the sale of merchandise. The retailing process is the final step in the distribution of merchandise; retailers are, therefore, organized to sell merchandise in small quantities to the general public. This sector comprises two main types of retailers: store and nonstore retailers.</p> <p>1. Store retailers operate fixed point-of-sale locations, located and designed to attract a high volume of walk-in customers. They typically sell merchandise to the general public for personal or household consumption, but some also serve business and institutional clients.</p> <p>2. Nonstore retailers, like store retailers, are organized to serve the general public, but their retailing methods differ. The establishments of this subsector reach customers and market merchandise with methods, such as the broadcasting of "infomercials," the broadcasting and publishing of direct-response advertising, the publishing of paper and electronic catalogs, door-to-door solicitation, in-home demonstration, selling from portable stalls (street vendors, except food), and distribution through vending machines. Establishments engaged in the direct sale (nonstore) of products, such as home heating oil dealers and home delivery newspaper routes are included here.</p>	441	Motor Vehicle & Parts Dealers
			442	Furniture & Home Furnishings Stores
			443	Electronics & Appliance Stores
			444	Building Material & Garden Equipment & Supplies Dealers
			445	Food & Beverage Stores
			446	Health & Personal Care Stores
			447	Gasoline Stations
			448	Clothing & Clothing Accessories Stores
			451	Sporting Goods, Hobby, Musical Instrument & Book Stores
			452	General Merchandise Stores
			4521	Department Stores
			4529	Other General Merchandise Stores
			453	Miscellaneous Store Retailers
			4531	Florists
			4532	Office Supplies, Stationery, & Gift Stores
			4533	Used Merchandise Stores
			4539	Other Miscellaneous Store Retailers
			454	Nonstore Retailers
			4541	Electronic Shopping & Mail-Order Houses
			4542	Vending Machine Operators
			4543	Direct Selling Establishments
48-49	Transportation & Warehousing	<p>Includes industries providing transportation of passengers and cargo, warehousing and storage for goods, scenic and sightseeing transportation, and support activities related to modes of transportation. Establishments in these industries use transportation equipment or transportation related facilities as a productive asset. The type of equipment depends on the mode of transportation. The modes of transportation are air, rail, water, road, and pipeline.</p>	481	Air Transportation
			482	Rail Transportation
			483	Water Transportation
			484	Truck Transportation
			485	Transit & Ground Passenger Transportation
			486	Pipeline Transportation
			487	Scenic & Sightseeing Transportation
			488	Support Activities for Transportation
			491	Postal Service
			492	Couriers & Messengers
			493	Warehousing & Storage

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**Table C-1
Elk Grove Employment Dynamics
NAICS Definitions**

NAICS Industry		2012 NAICS Definition	NAICS Subcategories	
Code	Name		Code	Name
51	Information	Comprises establishments engaged in the following processes: (a) producing and distributing information and cultural products, (b) providing the means to transmit or distribute these products as well as data or communications, and (c) processing data. The main components of this sector are the publishing industries, including software publishing, and both traditional publishing and publishing exclusively on the Internet; the motion picture and sound recording industries; the broadcasting industries, including traditional broadcasting and those broadcasting exclusively over the Internet; the telecommunications industries; Web search portals, data processing industries, and the information services industries.	511	Publishing Industries (Except Internet)
			5111	Newspaper, Periodical, Book & Directory Publishers
			5112	Software Publishers
			512	Motion Picture & Sound Recording Industries
			515	Broadcasting (Except Internet)
			5151	Radio & Television Broadcasting
			5152	Cable & Other Subscription Programming
			517	Telecommunications
			518	Data Processing, Hosting & Related Services
			519	Other Information Services
52	Finance & Insurance	Comprises establishments primarily engaged in financial transactions (transactions involving the creation, liquidation, or change in ownership of financial assets) and/or in facilitating financial transactions. Three principal types of activities are identified: 1. Raising funds by taking deposits and/or issuing securities and, in the process, incurring liabilities. Establishments engaged in this activity use raised funds to acquire financial assets by making loans and/or purchasing securities. Putting themselves at risk, they channel funds from lenders to borrowers and transform or repackage the funds with respect to maturity, scale, and risk. This activity is known as financial intermediation. 2. Pooling of risk by underwriting insurance and annuities. Establishments engaged in this activity collect fees, insurance premiums, or annuity considerations; build up reserves; invest those reserves; and make contractual payments. Fees are based on the expected incidence of the insured risk and the expected return on investment. 3. Providing specialized services facilitating or supporting financial intermediation, insurance, and employee benefit programs.	521	Monetary Authorities - Central Bank
			522	Credit Intermediation & Related Activities
			523	Securities, Commodity Contracts, & Other Financial Investments & Related Activities
			524	Insurance Carriers & Related Activities
			525	Funds, Trusts & Other Financial Vehicles
53	Real Estate & Rental & Leasing	Comprises establishments primarily engaged in renting, leasing, or otherwise allowing the use of tangible or intangible assets, and establishments providing related services. The major portion of this sector comprises establishments that rent, lease, or otherwise allow the use of their own assets by others. The assets may be tangible, as is the case of real estate and equipment, or intangible, as is the case with patents and trademarks. This sector also includes establishments primarily engaged in managing real estate for others, selling, renting and/or buying real estate for others, and appraising real estate.	531	Real Estate
			5311	Lessors of Real Estate
			5312	Office of Real Estate Agents & Brokers
			5313	Activities Related to Real Estate
			532	Rental & Leasing Services
			5321	Automotive Equipment Rental & Leasing
			5322	Consumer Goods Rental
			5323	General Rental Centers
			5324	Commercial & Industry Machinery & Equipment Rental & Leasing
			533	Lessors of Nonfinancial Intangible Assets (Except Copyrighted Works; e.g., patents and trademarks)

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**Table C-1
Elk Grove Employment Dynamics
NAICS Definitions**

NAICS Industry		2012 NAICS Definition	NAICS Subcategories	
Code	Name		Code	Name
54	Professional, Scientific, & Technical Services	Comprises establishments that specialize in performing professional, scientific, and technical activities for others. These activities require a high degree of expertise and training. The establishments in this sector specialize according to expertise and provide these services to clients in a variety of industries and, in some cases, to households. Activities performed include: legal advice and representation; accounting, bookkeeping, and payroll services; architectural, engineering, and specialized design services; computer services; consulting services; research services; advertising services; photographic services; translation and interpretation services; veterinary services; and other professional, scientific, and technical services.	541	Professional, Scientific & Technical Services
			5411	Legal Services
			5412	Accounting, Tax Preparation, Bookkeeping & Payroll Services
			5413	Architectural, Engineering & Related Services
			5414	Specialized Design Services
			5415	Computer Systems Design & Related Services
			5416	Management, Scientific & Technical Consulting Services
			5417	Scientific Research & Development Services
			5418	Advertising, Public Relations & Related Services
			5419	Other Professional, Scientific & Technical Services
55	Management of Companies & Enterprises	Comprises (1) establishments that hold the securities of (or other equity interests in) companies and enterprises for the purpose of owning a controlling interest or influencing management decisions or (2) establishments (except government establishments) that administer, oversee, and manage establishments of the company or enterprise and that normally undertake the strategic or organizational planning and decision making role of the company or enterprise. Establishments that administer, oversee, and manage may hold the securities of the company or enterprise. Establishments in this sector perform essential activities that are often undertaken in-house by establishments in many sectors of the economy. By consolidating the performance of these activities of the enterprise at one establishment, economies of scale are achieved.	551	Management of Companies & Enterprises
56	Administrative & Support & Waste Management & Remediation Services	Comprises establishments performing routine support activities for the day-to-day operations of other organizations. These essential activities are often undertaken in-house by establishments in many sectors of the economy. The establishments in this sector specialize in one or more of these support activities and provide these services to clients in a variety of industries and, in some cases, to households. Activities performed include: office administration, hiring and placing of personnel, document preparation and similar clerical services, solicitation, collection, security and surveillance services, cleaning, and waste disposal services.	561	Administrative & Support Services
			5611	Office Administrative Services
			5612	Facilities Support Services
			5613	Employment Services
			5614	Business Support Services
			5615	Travel Arrangement & Reservation Services
			5616	Investigation & Security Services
			5617	Services to Buildings & Dwellings
			5619	Other Support Services
			562	Waste Management & Remediation Services

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**Table C-1
Elk Grove Employment Dynamics
NAICS Definitions**

NAICS Industry		2012 NAICS Definition	NAICS Subcategories	
Code	Name		Code	Name
61	Educational Services	Comprises establishments that provide instruction and training in a wide variety of subjects. This instruction and training is provided by specialized establishments, such as schools, colleges, universities, and training centers. These establishments may be privately owned and operated for profit or not for profit, or they may be publicly owned and operated. They may also offer food and/or accommodation services to their students.	611	Educational Services
			6111	Elementary & Secondary Schools
			6112	Junior Colleges
			6113	Colleges, Universities, & Professional Schools
			6114	Business Schools & Computer & Management Training
			6115	Technical & Trade Schools
			6116	Other Schools & Instruction
			6117	Educational Support Services
62	Health Care & Social Assistance	Comprises establishments providing health care and social assistance for individuals. The sector includes both health care and social assistance because it is sometimes difficult to distinguish between the boundaries of these two activities. The industries in this sector are arranged on a continuum starting with those establishments providing medical care exclusively, continuing with those providing health care and social assistance, and finally finishing with those providing only social assistance. The services provided by establishments in this sector are delivered by trained professionals. All industries in the sector share this commonality of process, namely, labor inputs of health practitioners or social workers with the requisite expertise.	621	Ambulatory Health Care Services
			622	Hospitals
			623	Nursing & Residential Care Facilities
			624	Social Assistance
			6241	Individual & Family Services
			6242	Community Food & Housing, Emergency & Other Relief Services
			6243	Vocational Rehabilitation Services
			6244	Child Day Care Services
71	Arts, Entertainment & Recreation	Includes a wide range of establishments that operate facilities or provide services to meet varied cultural, entertainment, and recreational interests of their patrons. This sector comprises (1) establishments that are involved in producing, promoting, or participating in live performances, events, or exhibits intended for public viewing; (2) establishments that preserve and exhibit objects and sites of historical, cultural, or educational interest; and (3) establishments that operate facilities or provide services that enable patrons to participate in recreational activities or pursue amusement, hobby, and leisure-time interests.	711	Performing Arts, Spectator Sports & Related Industries
			712	Museums, Historical Sites & Similar Institutions
			713	Amusement Gambling & Recreation Industries
72	Accommodation & Food Services	Comprises establishments providing customers with lodging and/or preparing meals, snacks, and beverages for immediate consumption. The sector includes both accommodation and food services establishments because the two activities are often combined at the same establishment. Excluded from this sector are civic and social organizations; amusement and recreation parks; theaters; and other recreation or entertainment facilities providing food and beverage services.	721	Accommodation
			7211	Traveler Accommodation
			7212	RV Parks & Recreational Camps
			7213	Rooming & Boarding Houses
			722	Food Services & Drinking Places

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**Table C-1
Elk Grove Employment Dynamics
NAICS Definitions**

NAICS Industry		2012 NAICS Definition	NAICS Subcategories	
Code	Name		Code	Name
81	Other Services (Except Public Administration)	Comprises establishments engaged in providing services not specifically provided for elsewhere in the classification system. Establishments in this sector are primarily engaged in activities such as equipment and machinery repairing, promoting or administering religious activities, grantmaking, advocacy, and providing dry cleaning and laundry services, personal care services, death care services, pet care services, photofinishing services, temporary parking services, and dating services.	811	Repair & Maintenance
			812	Personal & Laundry Services
			813	Religious, Grantmaking, Civic, Professional & Similar Organizations
			814	Private Households
92	Public Administration	Consists of establishments of federal, state, and local government agencies that administer, oversee, and manage public programs and have executive, legislative, or judicial authority over other institutions within a given area. These agencies also set policy, create laws, adjudicate civil and criminal legal cases, provide for public safety and for national defense. In general, government establishments in the Public Administration sector oversee governmental programs and activities that are not performed by private establishments. Establishments in this sector typically are engaged in the organization and financing of the production of public goods and services, most of which are provided for free or at prices that are not economically significant. Government establishments also engage in a wide range of productive activities covering not only public goods and services but also individual goods and services similar to those produced in sectors typically identified with private-sector establishments. In general, ownership is not a criterion for classification in NAICS. Therefore, government establishments engaged in the production of private-sector-like goods and services should be classified in the same industry as private-sector establishments engaged in similar activities.	921	Executive, Legislative, & Other General Government Support
			922	Justice, Public Order & Safety Activities
			923	Administration of Human Resources Programs
			924	Administration of Environmental Quality Programs
			925	Administration of Housing Programs, Urban Planning & Community Development
			926	Administration of Economic Programs
			927	Space Research & Technology
			928	National Security & International Affairs

Source: US Census Bureau.

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