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# **A Profile of the Mining Industry in 3 County Study Area**

**Tulare California, Kern California, and Fresno California**

Produced by the  
**Economic Profile System Analyst (EPSA)**

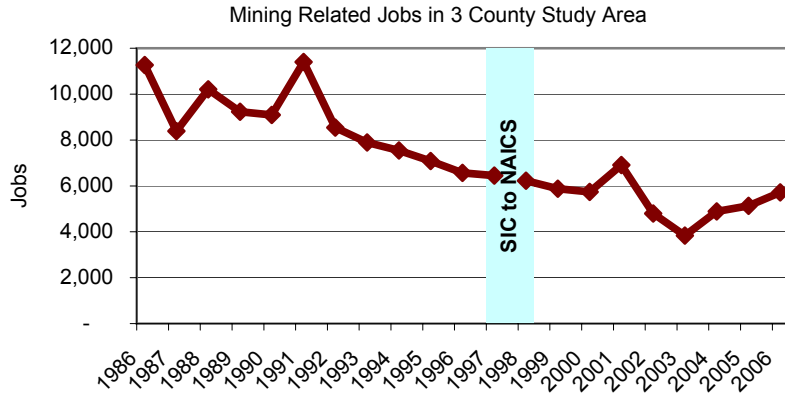
October 10, 2008

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## Mining Related Jobs Over Time

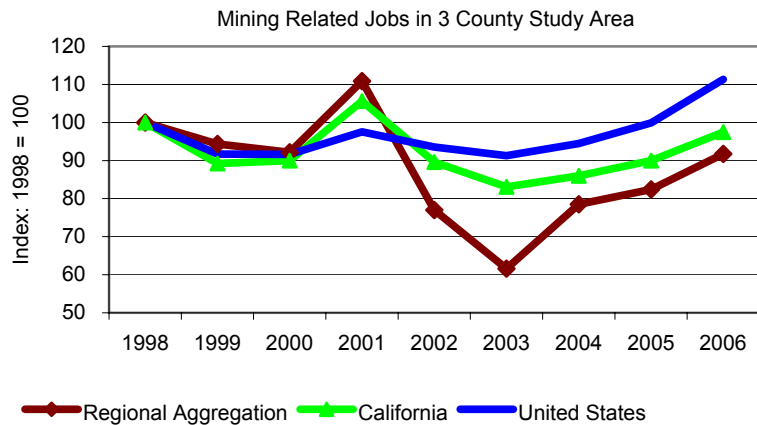
### Mining Related Jobs

- According to the County Business Patterns, in 2006, the 3 county region employed 5,715 people in the Mining industry or 1.1% of total jobs.
- By comparison, Mining related jobs in the US accounted for 0.5% of the national economy (excludes proprietors and government).



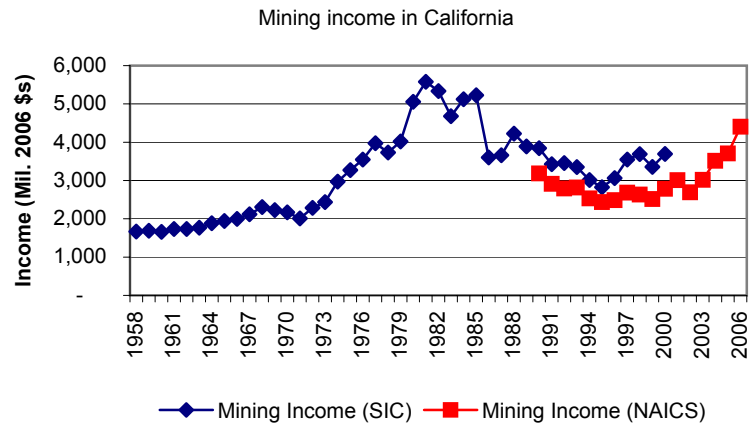
### Mining Related Jobs Relative to the State (Indexed)

- Over the last 8 years Mining employment in the region has declined by 8.2%, which is a larger decline than in the the state and which compares to increase of 11.3% in the nation.
- Data is indexed by dividing by the value in 1998 times 100. A value of 100 indicates that it has not changed since 1998.



### Long-term State Trends in Mining Related Personal Income

- This chart provides a longer term perspective at the state level. Note that unlike the other charts, these data includes the self-employed and includes more recent history.
- The BEA provides data for both SIC and NAICS from 1990 to 2000, allowing us to see the effect of the change in classification methods.



Note: In 1998, the Census changed how it classified sectors to the data before 1998 is not strictly comparable.

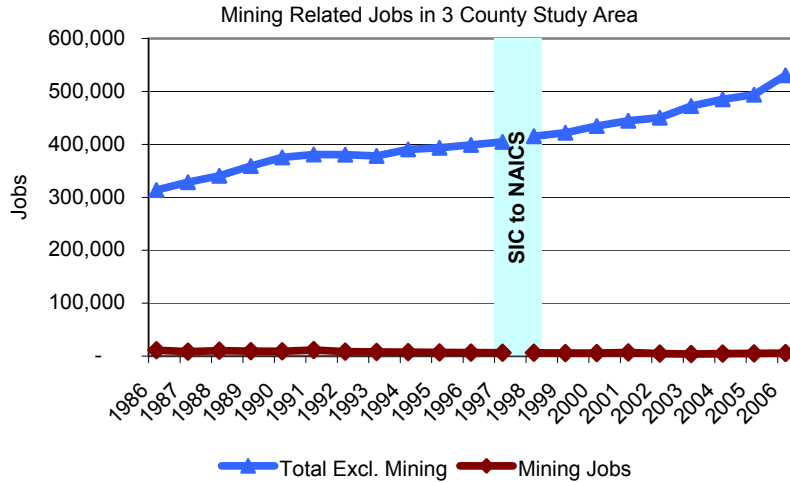
Source: BEA SPI 2007 and CBP 2006.

**What portion of the economy is directly related to Mining related jobs?**

**Mining Jobs in Relation to Total**

It is important to put the scale of these sectors into perspective based on the total size of the economy. This chart is the same as on the previous page, but it includes total employment (not including proprietors and government).

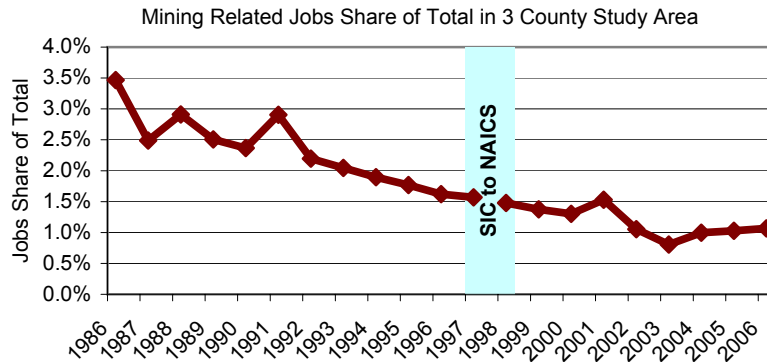
- From 1986 to 1997, when the data used the SIC method, Mining related jobs shrank by 4,821 while all private jobs excluding Mining grew by 90,910.
- From 1989 to 2006, when the data used the NAICS method, Mining related jobs shrank by 513 while all private jobs excluding Mining grew by 115,314.



**Share of Total**

These charts track the size of the Mining related jobs as a share of the total private employment in the region.

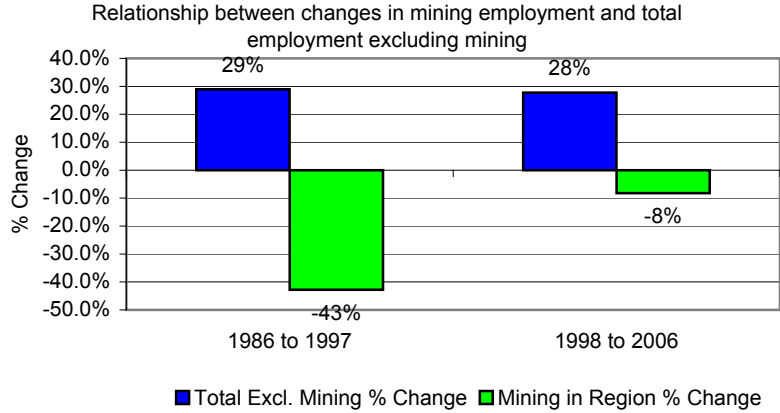
- Since 1986, the share of Mining related jobs varied from a low of 0.8% in 2003 to a high of 3.5% in 1986
- In the latest year (2006), Mining related jobs accounted for 1.1% of the total private economy.



Note that these charts are using County Business Patterns data that does not include proprietors or government employment. Sources: BEA REIS 2008, CBP 2008

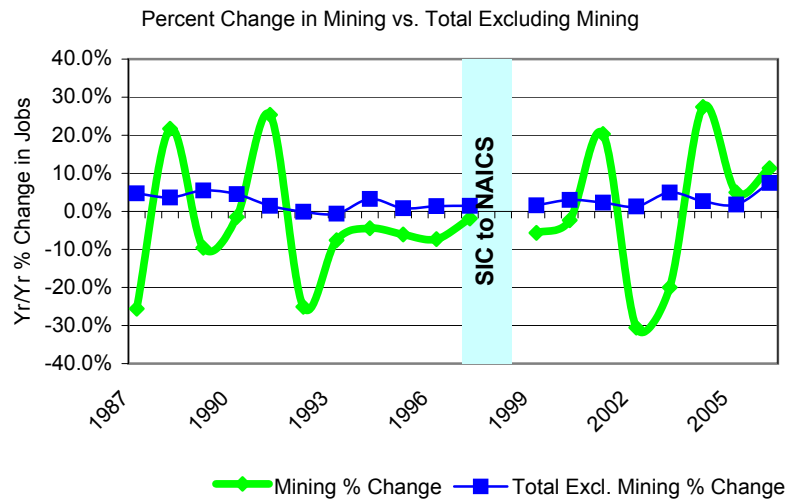
## What is the relationship between the Mining sector and the rest of the economy?

- From 1986 to 1997, when the data used the SIC method, Mining related jobs shrank by 42.8% while all private jobs excluding Mining grew by 29.0%.
- From 1989 to 2006, when the data used the NAICS method, Mining related jobs shrank by 8.2% while all private jobs excluding Mining grew by 27.8%.



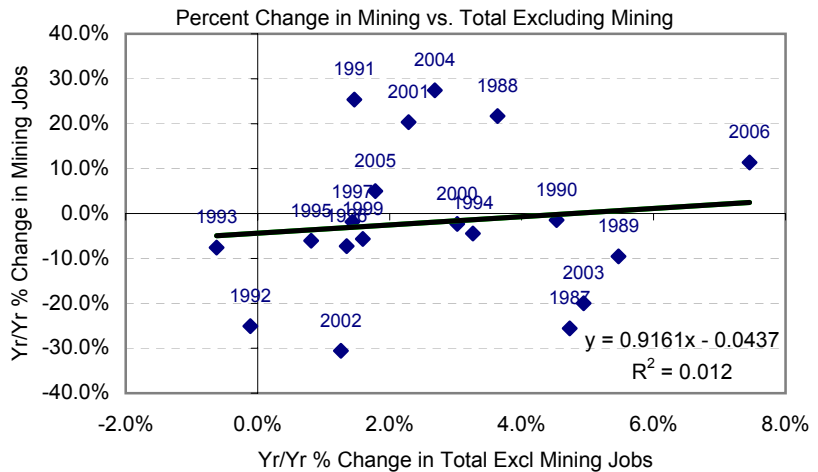
## Year to Year Changes

- These two charts explore how year to year changes in Mining related jobs relate to changes in all jobs in the private sector.



## Scatter Plot

- This scatter chart plots the percent change in Mining jobs versus the percent change in total jobs excluding Mining. When there is a strong relationship, the dots should cluster along a line (straight or perhaps curved).
- Each observation (dot) is labeled with the year that it represents.
- A linear relationship between Mining jobs and total jobs excluding Mining is almost nonexistent ( $R^2 = 0.01$ ).

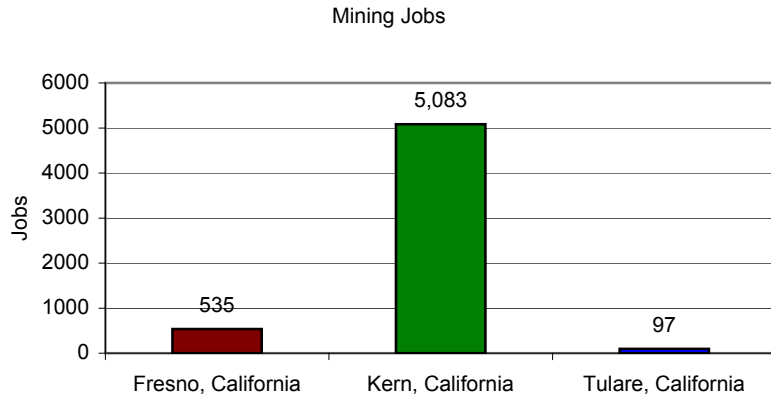


Sources: BEA REIS 2008, CBP 2008.

Where are the Mining jobs? Are they spread evenly across the region?

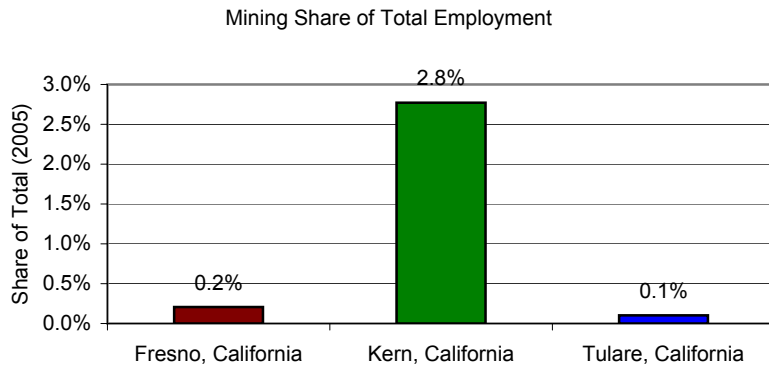
Jobs

- Within the region, Kern, California employs the most workers in Mining (5,083). The least are employed in Tulare, California (97). Together, the region employs 26.9% of the state in Mining.



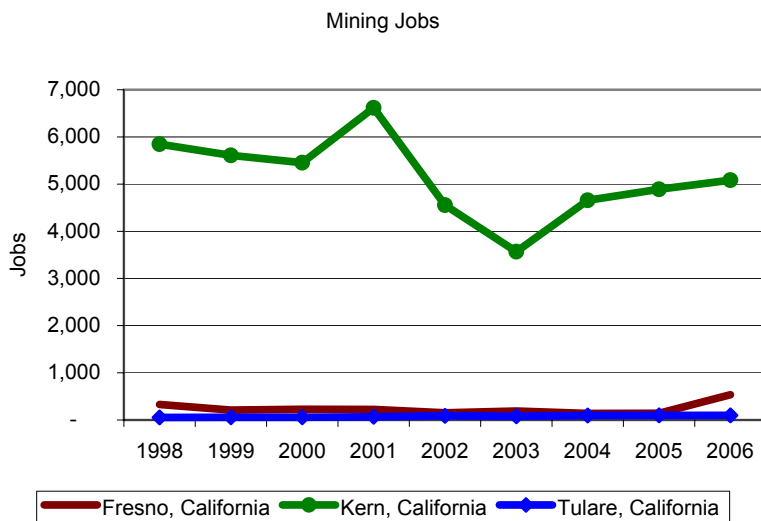
Share of Total

- Within the region, Kern, California employees the greatest share of workers in Mining (2.8%). The least are employed in Tulare, California (0.1%). Together, the region's share is 1.1%, 0.9% higher than the state's share of total (0.2%).



Growth Comparisons

- From 1998 to 2006, 2 counties gained Mining related jobs (Fresno, California, Tulare, California).
- From 1998 to 2006, 1 county lost Mining related jobs (Kern, California).
- From 1998 to 2006, Fresno, California gained the most Mining related jobs (208).
- From 1998 to 2006, Kern, California lost the most Mining related jobs (-764).



Sources: CBP 2008, with estimates by Headwaters Economics.

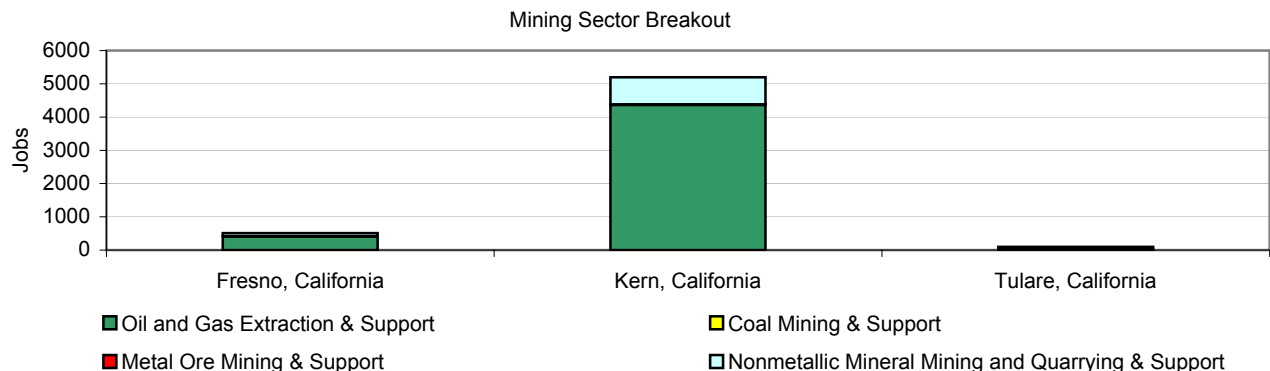
### 3 County Study Area

# Mining Sectors

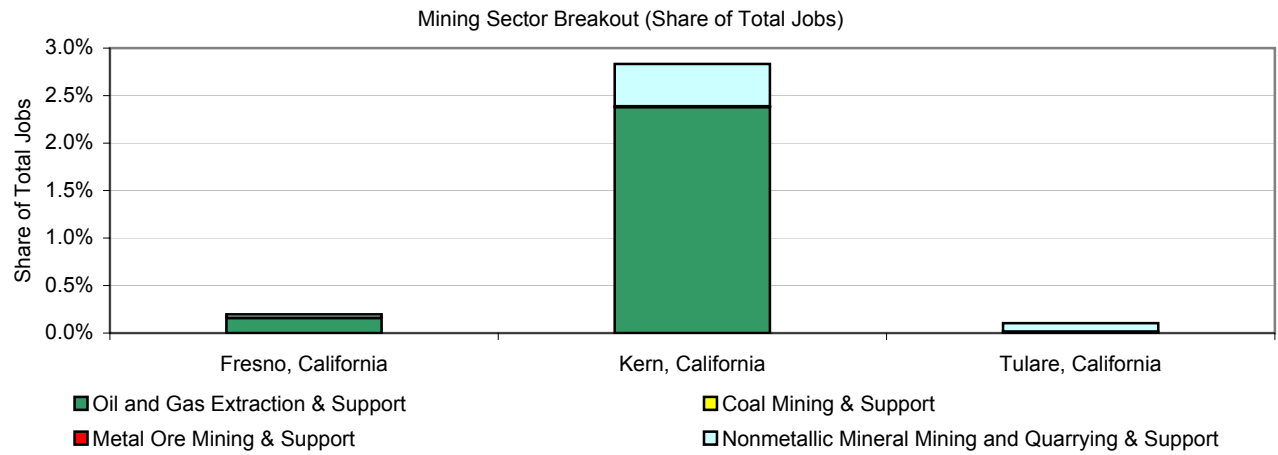
## Sector Breakout

- In the 3 county region, energy jobs contributed 1.720% of total jobs in the region.
- Within the energy sector, oil and gas extraction & support jobs contributed 1.720% of total jobs in the region.
- Within the energy sector, coal mining & support jobs contributed 0.000% of total jobs in the region.
- Outside of the energy sector, metal ore mining & support jobs contributed 0.005% of total jobs in the region.
- Outside of the energy sector, nonmetallic mineral mining and quarrying & support jobs contributed 0.359% of total jobs in the region.

Component of the Mining Industry	NAICS	United States	California	Fresno, California	Kern, California	Tulare, California
Oil and Gas Extraction	211///	92,683	3,867	2	1,072	7 A
Drilling Oil and Gas Wells	1	85,296	2,295	30 B	854 F	8 A
Support Activities for Oil and Gas Operations	2	155,404	8,145	379 B	2,437	-
Oil and Gas Extraction & Support		333,383	14,307	411 *	4,363 *	14 *
Share of Total		0.278%	0.103%	0.159%	2.379%	0.015%
Coal Mining	2121//	77,939	7 A	-	-	-
Support Activities for Coal Mining	3	7,954	3 A	-	- A	-
Coal Mining & Support		85,893	10 *	-	- *	-
Share of Total		0.072%	0.000%	0.000%	0.000%	0.000%
Subtotal: Energy & Support		419,276	14,317	411	4,363	14
Metal Ore Mining	2122//	27,687	158 E	2	14 A	-
Support Activities for Metal Mining	4	2,971	110	-	-	-
Metal Ore Mining & Support		30,658	268 *	2	14 *	-
Share of Total		0.026%	0.002%	0.001%	0.007%	0.000%
Nonmetallic Mineral Mining and Quarrying	2123//	99,723	6,657	96 B	818 F	84
Support Activities for Nonmetallic Minerals (except Fuels)	5	4,676	54 B	-	2 A	-
Nonmetallic Mineral Mining and Quarrying & Support		104,399	6,711 *	96 *	819 *	84
Share of Total		0.087%	0.049%	0.037%	0.447%	0.088%
All Mining	21----	554,333	21,285	535	5,083	97
Mining Share of Total		0.462%	0.154%	0.208%	2.771%	0.102%
Total (All Sectors)	-----	119,917,000	13,834,300	257,975	183,412	94,949



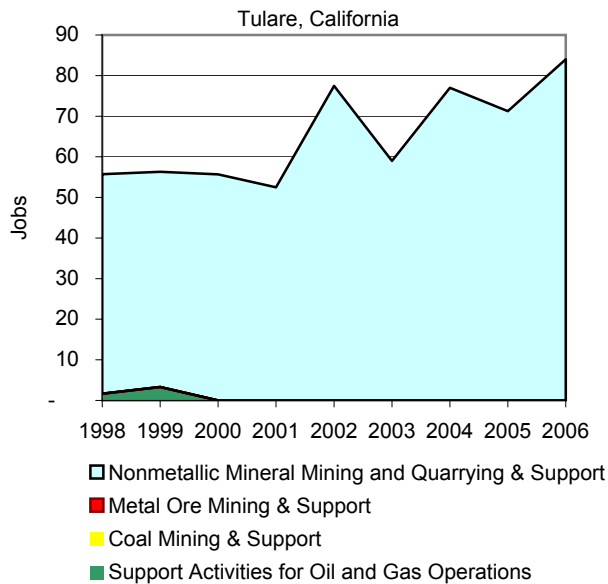
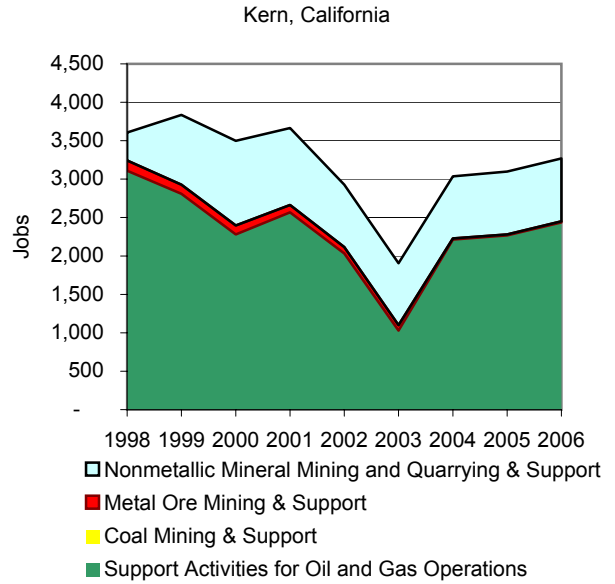
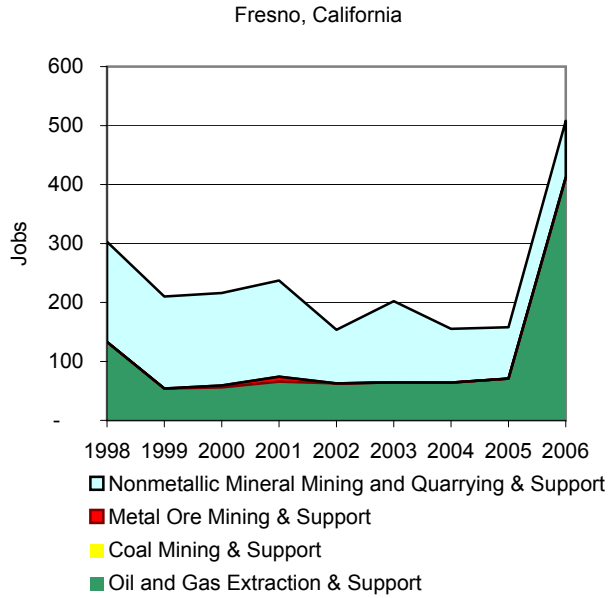
## Optional Content - Share Chart





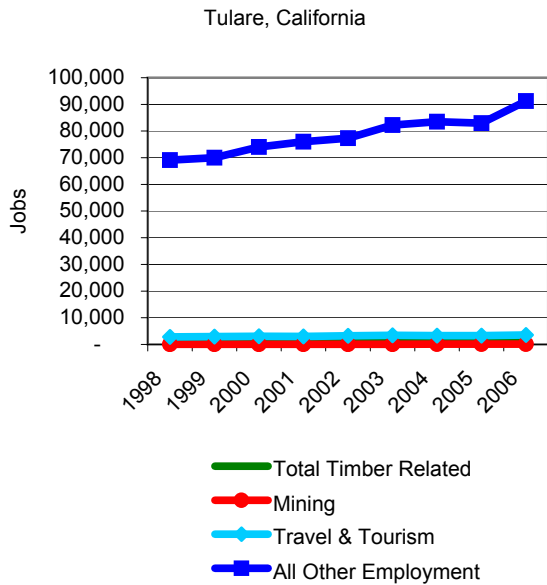
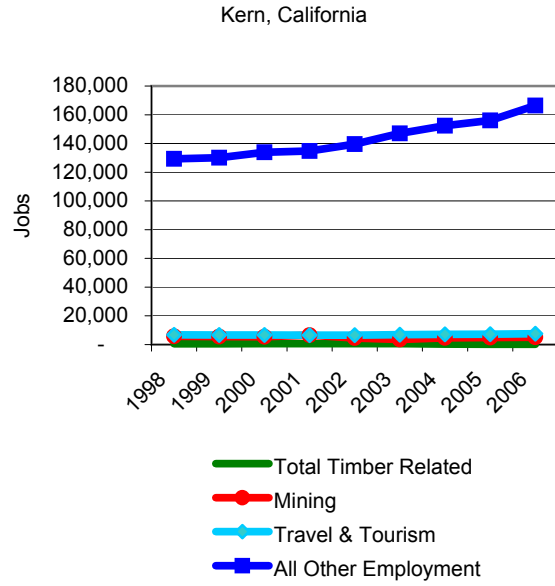
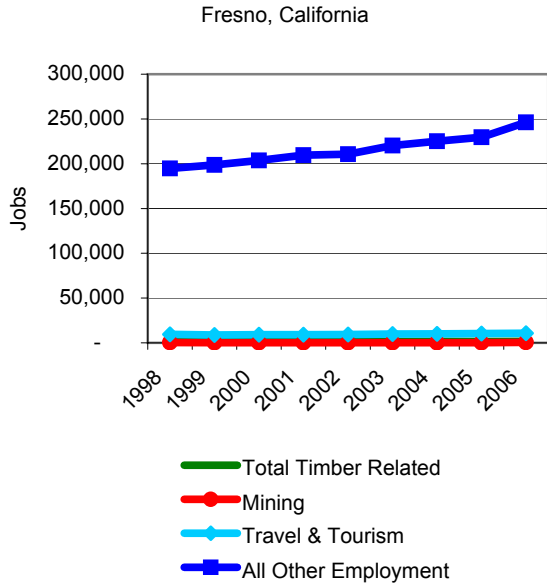
**Mining Jobs by Sector Over Time**

Lines are stacked to sum to total Mining related jobs.



Sources: CBP 2008, with estimates by Headwaters Economics.

Major Private Job Sector Trends in Each County



Sources: CBP 2008, with estimates by Headwaters Economics.

### 3 County Study Area

## Ranking

#### **Kern, California**

Mining jobs in Kern, California were extremely high (7.0 standard deviations from the median). 5083 people were employed which accounts for 2.0% of the economy. Nationwide, its share had a rank of 8 which puts it in the top 1.0% of all counties.

#### **Fresno, California**

Mining jobs in Fresno, California were somewhat high (0.7 standard deviations from the median). 535 people were employed which accounts for 0.2% of the economy. Nationwide, its share had a rank of 140 which puts it in the top 5.0% of all counties.

#### **Tulare, California**

Mining jobs in Tulare, California were roughly average (0.1 standard deviations from the median). 97 people were employed which accounts for 0.1% of the economy. Nationwide, its share had a rank of 617 which puts it in the top 20.0% of all counties.

### 3 County Study Area

# Ranking

This table shows ranking in two ways, one using total jobs and the other using Mining jobs as a share of total to illustrate how the counties in the study area are doing relative to the top counties in the nation. Mining jobs are also broken out by stage

	Shares		Jobs			
	Mining Share of Total	Rank (in US*)	Energy Jobs	Rank Energy Jobs (in US*)	Mining Jobs	Rank Mining Jobs (in US*)

#### Study Area

Fresno, California	0.2%	1,100	411	148	535	140
Kern, California	2.0%	264	4,363	9	5,083	8
Tulare, California	0.1%	1,465	14	609	97	617

#### Top Mining Counties - Sorted by Mining Share of Total (in Yellow)

1 Boone, West Virginia	52.8%	1	3,393	14	3,494	15
2 Knott, Kentucky	47.0%	2	1,319	47	1,319	59
3 Gallatin, Illinois	39.5%	3	504	122	506	154
4 Campbell, Wyoming	32.3%	4	6,326	5	6,476	5
5 Talbot, Georgia	31.0%	5	-	1,162	117	545
6 Buchanan, Virginia	30.9%	6	1,670	34	1,844	37
7 Letcher, Kentucky	30.4%	7	1,604	35	1,672	41
8 Clay, West Virginia	30.4%	8	401	152	410	191
9 Sweet Grass, Montana	28.9%	9	-	1,162	337	238
10 Mingo, West Virginia	28.4%	10	1,804	31	1,797	39

#### Top Mining Counties - Sorted by Mining Jobs (in Yellow)

1 Harris, Texas	1.8%	354	31,320	1	31,613	1
2 Midland, Texas	15.9%	41	8,621	2	8,586	2
3 Oklahoma, Oklahoma	2.2%	315	7,617	3	7,767	3
4 Lafayette, Louisiana	6.6%	131	7,463	4	7,740	4
5 Campbell, Wyoming	32.3%	4	6,326	5	6,476	5
6 Dallas, Texas	0.4%	775	5,713	6	5,775	6
7 Terrebonne, Louisiana	11.8%	74	5,635	7	5,671	7
8 Kern, California	2.8%	264	4,363	9	5,083	8
9 Anchorage Borough, Alaska	3.7%	209	4,898	8	5,082	9
10 Elko, Nevada	26.3%	14	32	513	4,532	10

\* Ranks are out of 3,138 counties in the United States.

Sources: CBP 2008, with estimates by Headwaters Economics.

## County Business Patterns exclude proprietors and government.

### How significant is this omission?

Most of the data in this report relies on County Business Patterns which does not include proprietors (the self employed) or government employment. This page attempts to estimate the extent of the omission. Looking at the number of jobs, excluding prop

Also note that county business patterns data excludes government employment so our share of total calculations are of total private employment, which tends to make the shares a little higher than if we used a data source that included government employmen

### Proprietors

NAICS Sector	Fresno, California	Kern, California	Tulare, California	California	United States
Oil and Gas Extraction	58	231	32	4,333	84,374
Mining (except Oil and Gas)	3	10	3	332	5,885
Support Activities for Mining	4	53	D	233	11,632
Mining	65	294	36	4,898	101,891
All Sectors	42,537	40,124	18,120	2,645,260	20,768,600
Mining Share of Total	0.2%	0.7%	0.2%	0.2%	0.5%

### Employees (Not Counting Proprietors)

Mining Jobs	535	5,083	97	21,285	554,333
All Jobs	257,975	183,412	94,949	13,834,300	119,917,000
Mining Share of Total	0.2%	2.8%	0.1%	0.2%	0.5%

### Proprietors plus Employees

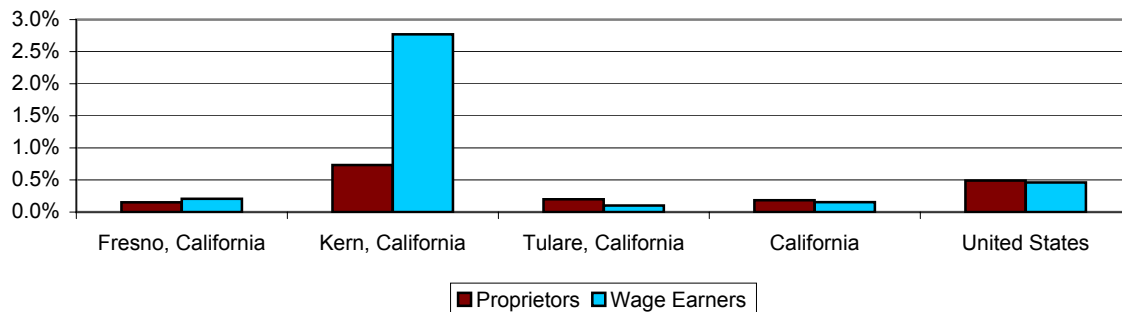
Mining Jobs	600	5,377	133	26,183	656,224
All Jobs	300,512	223,536	113,069	16,479,560	140,685,600
Mining Share of Total	0.2%	2.4%	0.1%	0.2%	0.5%

### Difference in Share of Total

Is the omission of proprietors by using County Business Patters data significant?

Difference (Both Share - CBP Share)	0.0%	-0.4%	0.0%	0.0%	0.0%
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### Comparing Proprietors to Wage Earners (Mining Share of Total)

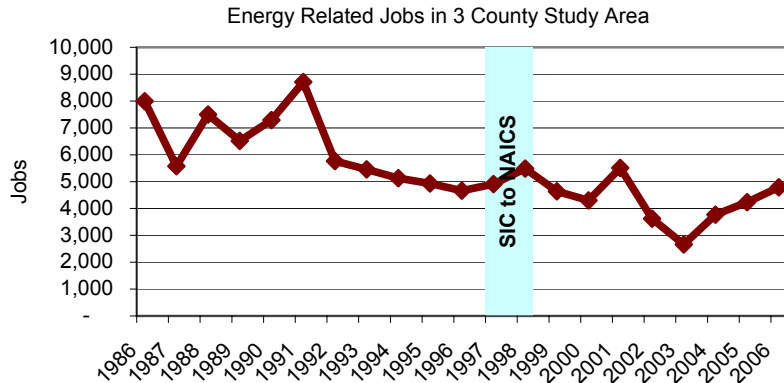


Sources: Employees are from CBP 2008, with estimates by Headwaters Economics and Proprietors are from "NonEmployer Statistics" from the U.S. Bureau of the Census.

## Energy Related Jobs Over Time

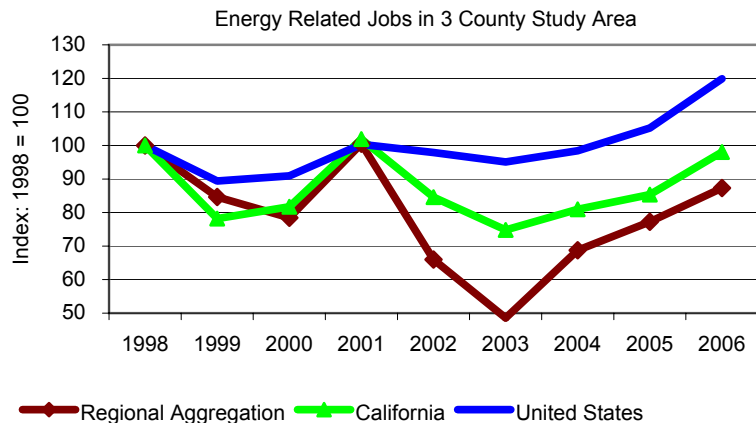
### Energy Related Jobs

- According to the County Business Patterns, in 2006, the 3 county region employed 3,271 people in the Energy industry or 0.6% of total jobs.
- By comparison, Energy related jobs in the US accounted for 0.9% of the national economy (excludes proprietors and government).



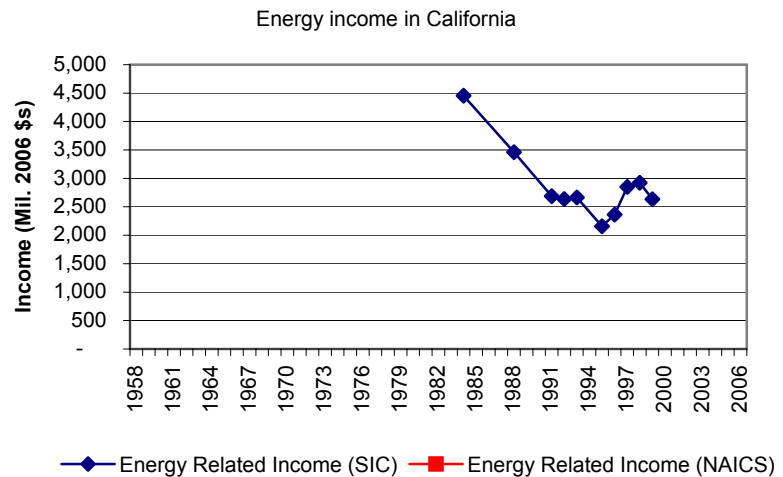
### Energy Related Jobs Relative to the State (Indexed)

- Over the last 8 years Energy employment in the region has grown by 9.1%, which is faster than the state and faster than the nation.
- Data is indexed by dividing by the value in 1998 times 100. A value of 100 indicates that it has not changed since 1998.



### Long-term State Trends in Energy Related Personal Income

- This chart provides a longer term perspective at the state level. Note that unlike the other charts, these data includes the self-employed and includes more recent history.
- The BEA provides data for both SIC and NAICS from 1990 to 2000, allowing us to see the effect of the change in classification methods.
- Source does not provide enough details under NAICS to calculate energy.



Note: In 1998, the Census changed how it classified sectors to the data before 1998 is not strictly comparable.

Source: BEA SPI 2007 and CBP 2006.

### 3 County Study Area

## Energy Ranking

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#### **Kern, California**

Energy jobs in Kern, California were extremely high (6.2 standard deviations from the median). 4363 people were employed which accounts for 2.0% of the economy. Nationwide, its share had a rank of 9 which puts it in the top 1.0% of all counties.

#### **Fresno, California**

Energy jobs in Fresno, California were somewhat high (0.6 standard deviations from the median). 411 people were employed which accounts for 0.2% of the economy. Nationwide, its share had a rank of 148 which puts it in the top 5.0% of all counties.

#### **Tulare, California**

Energy jobs in Tulare, California were roughly average (0.0 standard deviations from the median). 14 people were employed which accounts for 0.0% of the economy. Nationwide, its share had a rank of 609 which puts it in the top 20.0% of all counties.

### 3 County Study Area

# Ranking

This table shows ranking in two ways, one using total jobs and the other using timber jobs as a share of total to illustrate how the counties in the study area are doing relative to the top counties in the nation. Timber jobs are also broken out by stage of processing. Note that the counties with the largest number of timber jobs tend to be due to secondary timber related manufacturing and are often in the nation's largest cities.

	Shares		Jobs			
	Energy Share of Total	Rank (in US*)	Energy Jobs	Rank Energy Jobs (in US*)	Mining Jobs	Rank Mining Jobs (in US*)

#### Study Area

Fresno, California	0.2%	1,100	411	148	535	140
Kern, California	2.0%	264	4,363	9	5,083	8
Tulare, California	0.1%	1,465	14	609	97	617

#### Top Energy Counties - Sorted by Energy Share of Total (in Yellow)

1 Boone, West Virginia	52.8%	1	3,393	14	3,494	15
2 Knott, Kentucky	47.0%	2	1,319	47	1,319	59
3 Gallatin, Illinois	39.5%	3	504	122	506	154
4 Campbell, Wyoming	32.3%	4	6,326	5	6,476	5
5 Clay, West Virginia	30.4%	8	401	152	410	191
6 Letcher, Kentucky	30.4%	7	1,604	35	1,672	41
7 Mingo, West Virginia	28.4%	10	1,804	31	1,797	39
8 Uinta, Wyoming	28.4%	11	2,177	25	2,177	28
9 Buchanan, Virginia	30.9%	6	1,670	34	1,844	37
10 Greene, Pennsylvania	26.2%	15	2,364	22	2,370	25

#### Top Energy Counties - Sorted by Energy Jobs (in Yellow)

1 Harris, Texas	1.8%	354	31,320	1	31,613	1
2 Midland, Texas	15.9%	41	8,621	2	8,586	2
3 Oklahoma, Oklahoma	2.2%	315	7,617	3	7,767	3
4 Lafayette, Louisiana	6.6%	131	7,463	4	7,740	4
5 Campbell, Wyoming	32.3%	4	6,326	5	6,476	5
6 Dallas, Texas	0.4%	775	5,713	6	5,775	6
7 Terrebonne, Louisiana	11.8%	74	5,635	7	5,671	7
8 Anchorage Borough, Alaska	3.7%	209	4,898	8	5,082	9
9 Kern, California	2.8%	264	4,363	9	5,083	8
10 San Juan, New Mexico	10.8%	78	4,152	10	4,301	12

\* Ranks are out of 3,138 counties in the United States.

Sources: CBP 2008, with estimates by Headwaters Economics.



NAICS	Sector	United States			California			3 County Aggregation			
		Jobs	Share		Jobs	Share	Shr / US	Jobs	Share	US	Share vs. US
-----	Total (All Sectors)	119,917,000	100.00%		13,834,300	100.00%	1.0	536,336	100.0%	1.0	0.00%
21----	Mining	554,333	0.46%		21,285	0.15%	0.3	5,715	1.1%	2.3	0.60%
211///	Oil and Gas Extraction	92,683	0.08%		3,867	0.03%	0.4	108027.0%	* 0.2%	2.6	0.12%
2111//	Oil and Gas Extraction	92,683	0.08%		3,867	0.03%	0.4	1,080	* 0.2%	2.6	0.12%
21111/	Oil and Gas Extraction	92,683	0.08%		3,867	0.03%	0.4	1,080	* 0.2%	2.6	0.12%
211111	Crude Petroleum and Natural Gas Extraction	78,367	0.07%		2,907 H	0.02%	0.3	1,007	* 0.2%	2.9	0.12%
211112	Natural Gas Liquid Extraction	14,316	0.01%		840 F	0.01%	0.5	42	* 0.0%	0.7	0.00%
212///	Mining (except Oil and Gas)	205,349	0.17%		6,820	0.05%	0.3	910	* 0.2%	1.0	0.00%
2121//	Coal Mining	77,939	0.06%		7 A	0.00%	0.0	-	0.0%	-	-0.06%
21211/	Coal Mining	77,939	0.06%		7 A	0.00%	0.0	-	0.0%	-	-0.06%
212111	Bituminous Coal and Lignite Surface Mining	36,357	0.03%		-	0.00%	-	-	0.0%	-	-0.03%
212112	Bituminous Coal Underground Mining	40,340	0.03%		A	0.00%	-	-	0.0%	-	-0.03%
212113	Anthracite Mining	1,242	0.00%		7 A	0.00%	0.0	-	0.0%	-	0.00%
2122//	Metal Ore Mining	27,687	0.02%		158 E	0.00%	0.0	15	* 0.0%	0.1	-0.02%
21221/	Iron Ore Mining	-	0.00%		20 A	0.00%	-	-	0.0%	-	0.00%
212210	Iron Ore Mining	-	0.00%		20 A	0.00%	-	-	0.0%	-	0.00%
21222/	Gold Ore and Silver Ore Mining	9,146	0.01%		105 C	0.00%	0.1	14	* 0.0%	0.3	-0.01%
212221	Gold Ore Mining	8,507	0.01%	I	105 C	0.00%	0.1	14	* 0.0%	0.4	0.00%
212222	Silver Ore Mining	639	0.00%	F	-	0.00%	-	-	0.0%	-	0.00%
21223/	Copper, Nickel, Lead, and Zinc Mining	10,176	0.01%		2 B	0.00%	0.0	-	0.0%	-	-0.01%
212231	Lead Ore and Zinc Ore Mining	1,444	0.00%		B	0.00%	-	-	0.0%	-	0.00%
212234	Copper Ore and Nickel Ore Mining	8,732	0.01%		2	0.00%	0.0	-	0.0%	-	-0.01%
21229/	Other Metal Ore Mining	-	0.00%		42 B	0.00%	-	2	0.0%	-	0.00%
212291	Uranium-Radium-Vanadium Ore Mining	-	0.00%		2	0.00%	-	2	0.0%	-	0.00%
212299	All Other Metal Ore Mining	2,898	0.00%		40 B	0.00%	0.1	-	0.0%	-	0.00%
2123//	Nonmetallic Mineral Mining and Quarrying	99,723	0.08%		6,657	0.05%	0.6	997	* 0.2%	2.2	0.10%
21231/	Stone Mining and Quarrying	51,518	0.04%		2,069	0.01%	0.3	50	* 0.0%	0.2	-0.03%
212311	Dimension Stone Mining and Quarrying	4,878	0.00%		205	0.00%	0.4	6	* 0.0%	0.3	0.00%
212312	Crushed and Broken Limestone Mining and Quarrying	30,160	0.03%		624	0.00%	0.2	30	* 0.0%	0.2	-0.02%
212313	Crushed and Broken Granite Mining and Quarrying	8,301	0.01%		524	0.00%	0.5	-	0.0%	-	-0.01%
212319	Other Crushed and Broken Stone Mining and Quarrying	8,179	0.01%		716	0.01%	0.8	14	* 0.0%	0.4	0.00%
21232/	Sand, Gravel, Clay, and Ceramic and Refractory Minerals Mining	37,842	0.03%		2,945	0.02%	0.7	193	* 0.0%	1.1	0.00%
212321	Construction Sand and Gravel Mining	27,798	0.02%		2,754	0.02%	0.9	188	* 0.0%	1.5	0.01%
212322	Industrial Sand Mining	3,187	0.00%		120 C	0.00%	0.3	3	* 0.0%	0.2	0.00%
212324	Kaolin and Ball Clay Mining	3,406	0.00%		20 A	0.00%	0.1	-	0.0%	-	0.00%
212325	Clay and Ceramic and Refractory Minerals Mining	3,451	0.00%		52	0.00%	0.1	-	0.0%	-	0.00%
21239/	Other Nonmetallic Mineral Mining and Quarrying	10,363	0.01%		1,643	0.01%	1.4	637	* 0.1%	13.7	0.11%
212391	Potash, Soda, and Borate Mineral Mining	2,875	0.00%		999 G	0.01%	3.0	683	* 0.1%	53.1	0.12%
212392	Phosphate Rock Mining	1,013	0.00%		#N/A	#N/A	-	-	0.0%	-	0.00%
212393	Other Chemical and Fertilizer Mineral Mining	1,834	0.00%		52 A	0.00%	0.2	14	0.0%	1.6	0.00%
212399	All Other Nonmetallic Mineral Mining	4,641	0.00%		689	0.00%	1.3	47	* 0.0%	2.3	0.00%
213///	Support Activities for Mining	256,301	0.21%		10,598	0.08%	0.4	3,727	* 0.7%	3.3	0.48%
2131//	Support Activities for Mining	256,301	0.21%		10,598	0.08%	0.4	3,727	* 0.7%	3.3	0.48%
21311/	Support Activities for Mining	256,301	0.21%		10,598	0.08%	0.4	3,727	* 0.7%	3.3	0.48%
213111	Drilling Oil and Gas Wells	85,296	0.07%		2,295	0.02%	0.2	892	* 0.2%	2.3	0.10%
213112	Support Activities for Oil and Gas Operations	155,404	0.13%		8,145	0.06%	0.5	2,816	* 0.5%	4.1	0.40%
213113	Support Activities for Coal Mining	7,954	0.01%		3 A	0.00%	0.0	-	0.0%	-	-0.01%
213114	Support Activities for Metal Mining	2,971	0.00%		110	0.00%	0.3	-	0.0%	-	0.00%
213115	Support Activities for Nonmetallic Minerals (except Fuels)	4,676	0.00%		54 B	0.00%	0.1	2	* 0.0%	0.1	0.00%

NAICS	Sector	Fresno, California			Kern, California			Tulare, California		
		Jobs	Share	Shr / US	Jobs	Share	Shr / US	Jobs	Share	Shr / US
-----	Total (All Sectors)	257,975	100.0%	1.0	183,412	100.0%	1.0	94,949	100.0%	1.0
21----	Mining	535	0.2%	0.4	5,083	2.8%	6.0	97	0.1%	0.2
211///	Oil and Gas Extraction	164.0%	0.0%	0.8%	#####	0.6%	756.2%	663.0% A	0.0%	9.0%
2111//	Oil and Gas Extraction	2	0.0%	0.0	1,072	0.6%	7.6	7 A	0.0%	0.1
21111/	Oil and Gas Extraction	2	0.0%	0.0	1,072	0.6%	7.6	7 A	0.0%	0.1
211111	Crude Petroleum and Natural Gas Extraction	-	0.0%	-	1,000 F	0.5%	8.3	7 A	0.0%	0.1
211112	Natural Gas Liquid Extraction	2	0.0%	0.1	40 B	0.0%	1.8	-	0.0%	-
212///	Mining (except Oil and Gas)	99 B	0.0%	0.2	727	0.4%	2.3	84	0.1%	0.5
2121//	Coal Mining	-	0.0%	-	-	0.0%	-	-	0.0%	-
21211/	Coal Mining	-	0.0%	-	-	0.0%	-	-	0.0%	-
212111	Bituminous Coal and Lignite Surface Mining	-	0.0%	-	-	0.0%	-	-	0.0%	-
212112	Bituminous Coal Underground Mining	-	0.0%	-	-	0.0%	-	-	0.0%	-
212113	Anthracite Mining	-	0.0%	-	-	0.0%	-	-	0.0%	-
2122//	Metal Ore Mining	2	0.0%	0.0	14 A	0.0%	0.3	-	0.0%	-
21221/	Iron Ore Mining	-	0.0%	-	-	0.0%	-	-	0.0%	-
212210	Iron Ore Mining	-	0.0%	-	-	0.0%	-	-	0.0%	-
21222/	Gold Ore and Silver Ore Mining	-	0.0%	-	14 A	0.0%	1.0	-	0.0%	-
212221	Gold Ore Mining	-	0.0%	-	14 A	0.0%	1.0	-	0.0%	-
212222	Silver Ore Mining	-	0.0%	-	-	0.0%	-	-	0.0%	-
21223/	Copper, Nickel, Lead, and Zinc Mining	-	0.0%	-	-	0.0%	-	-	0.0%	-
212231	Lead Ore and Zinc Ore Mining	-	0.0%	-	-	0.0%	-	-	0.0%	-
212234	Copper Ore and Nickel Ore Mining	-	0.0%	-	-	0.0%	-	-	0.0%	-
21229/	Other Metal Ore Mining	2	0.0%	-	-	0.0%	-	-	0.0%	-
212291	Uranium-Radium-Vanadium Ore Mining	2	0.0%	-	-	0.0%	-	-	0.0%	-
212299	All Other Metal Ore Mining	-	0.0%	-	-	0.0%	-	-	0.0%	-
2123//	Nonmetallic Mineral Mining and Quarrying	96 B	0.0%	0.4	818 F	0.4%	5.4	84	0.1%	1.1
21231/	Stone Mining and Quarrying	7 A	0.0%	0.1	30 A	0.0%	0.4	14 A	0.0%	0.3
212311	Dimension Stone Mining and Quarrying	6 A	0.0%	0.6	-	0.0%	-	-	0.0%	-
212312	Crushed and Broken Limestone Mining and Quarrying	- A	0.0%	-	30 A	0.0%	0.7	-	0.0%	-
212313	Crushed and Broken Granite Mining and Quarrying	-	0.0%	-	-	0.0%	-	-	0.0%	-
212319	Other Crushed and Broken Stone Mining and Quarrying	-	0.0%	-	-	0.0%	-	14 A	0.0%	2.1
21232/	Sand, Gravel, Clay, and Ceramic and Refractory Minerals Mining	91 B	0.0%	1.1	43 B	0.0%	0.7	59 B	0.1%	2.0
212321	Construction Sand and Gravel Mining	90 B	0.0%	1.5	40 B	0.0%	0.9	58 B	0.1%	2.7
212322	Industrial Sand Mining	-	0.0%	-	3 A	0.0%	0.7	-	0.0%	-
212324	Kaolin and Ball Clay Mining	-	0.0%	-	-	0.0%	-	-	0.0%	-
212325	Clay and Ceramic and Refractory Minerals Mining	-	0.0%	-	-	0.0%	-	-	0.0%	-
21239/	Other Nonmetallic Mineral Mining and Quarrying	-	0.0%	-	637 F	0.3%	40.2	-	0.0%	-
212391	Potash, Soda, and Borate Mineral Mining	-	0.0%	-	683 F	0.4%	155.4	-	0.0%	-
212392	Phosphate Rock Mining	-	0.0%	-	-	0.0%	-	-	0.0%	-
212393	Other Chemical and Fertilizer Mineral Mining	-	0.0%	-	14	0.0%	4.8	-	0.0%	-
212399	All Other Nonmetallic Mineral Mining	-	0.0%	-	47 B	0.0%	6.6	-	0.0%	-
213///	Support Activities for Mining	434 B	0.2%	0.8	3,284	1.8%	8.4	9 A	0.0%	0.0
2131//	Support Activities for Mining	434 B	0.2%	0.8	3,284	1.8%	8.4	9 A	0.0%	0.0
21311/	Support Activities for Mining	434 B	0.2%	0.8	3,284	1.8%	8.4	9 A	0.0%	0.0
213111	Drilling Oil and Gas Wells	30 B	0.0%	0.2	854 F	0.5%	6.5	8 A	0.0%	0.1
213112	Support Activities for Oil and Gas Operations	379 B	0.1%	1.1	2,437	1.3%	10.3	-	0.0%	-
213113	Support Activities for Coal Mining	-	0.0%	-	- A	0.0%	-	-	0.0%	-
213114	Support Activities for Metal Mining	-	0.0%	-	-	0.0%	-	-	0.0%	-
213115	Support Activities for Nonmetallic Minerals (except Fuels)	-	0.0%	-	2 A	0.0%	0.2	-	0.0%	-

NAICS	Sector	United States		California			3 County Aggregation			
		Jobs	Share	Jobs	Share	Shr / US	Jobs	Share	US	Share vs. US
-----	Total (All Sectors)	119,917,000	100.00%	13,834,300	100.00%	1.0	536,336	100.0%	1.0	0.00%
21----	Mining	554,333	0.46%	21,285	0.15%	0.3	5,715	1.1%	2.3	0.60%
211///	Oil and Gas Extraction	92,683	0.08%	3,867	0.03%	0.4	1,080 *	0.2%	2.6	0.12%
213111	Drilling Oil and Gas Wells	85,296	0.07%	2,295	0.02%	0.2	892 *	0.2%	2.3	0.10%
213112	Support Activities for Oil and Gas Operations	155,404	0.13%	8,145	0.06%	0.5	2,816 *	0.5%	4.1	0.40%
	Oil and Gas Extraction & Support	333,383	0.28%	14,307	0.10%		4,788 *			
2121//	Coal Mining	77,939	0.06%	7 A	0.00%	0.0	-	0.0%	-	-0.06%
213113	Support Activities for Coal Mining	7,954	0.01%	3 A	0.00%	0.0	- *	0.0%	-	-0.01%
	Coal Mining & Support	85,893	0.07%	10 *	0.00%		- *			
	Energy Mining & Support	419,276	0.35%	14,317 *	0.10%		4,788 *	0.89%		
2122//	Metal Ore Mining	27,687	0.02%	158 E	0.00%	0.0	15 *	0.0%	0.1	-0.02%
213114	Support Activities for Metal Mining	2,971	0.00%	110	0.00%	0.3	-	0.0%	-	0.00%
	Metal Ore Mining & Support	30,658	0.03%	268 *	0.00%		15 *			
2123//	Nonmetallic Mineral Mining and Quarrying	99,723	0.08%	6,657	0.05%	0.6	997 *	0.2%	2.2	0.10%
213115	Support Activities for Nonmetallic Minerals (except Fuel)	4,676	0.00%	54 B	0.00%	0.1	2 *	0.0%	0.1	0.00%
	Nonmetallic Mineral Mining and Quarrying & Support	104,399	0.09%	6,711 *	0.05%		999 *			

Data Suppression Flag Ranges	
A 0-19	H 2,500-4,999
B 20-99	I 5,000-9,999
C 100-249	J 10,000-24,999
E 250-499	K 25,000-49,999
F 500-999	L 50,000-99,999
G 1000-2499	M 100,000 or More

Shaded green when share of total exceeds that for the US by over 20%, red when by less than -20%.  
 \* Estimated data. Source did not disclose data to protect confidentiality of individual businesses.  
 Source: Census County Business Patterns 2006 with Estimates by Headwaters Economics

NAICS	Sector	Fresno, California			Kern, California			Tulare, California		
		Jobs	Share	Shr / US	Jobs	Share	Shr / US	Jobs	Share	Shr / US
-----	Total (All Sectors)	257,975	100.0%	1.0	183,412	100.0%	1.0	94,949	100.0%	1.0
21----	Mining	535	0.2%	0.4	5,083	2.8%	6.0	97	0.1%	0.2
211///	Oil and Gas Extraction	2	0.0%	0.0	1,072	0.6%	7.6	7 A	0.0%	0.1
213111	Drilling Oil and Gas Wells	30 B	0.0%	0.2	854 F	0.5%	6.5	8 A	0.0%	0.1
213112	Support Activities for Oil and Gas Operations Oil and Gas Extraction & Support	379 B	0.1%	1.1	2,437	1.3%	10.3	-	0.0%	-
2121//	Coal Mining	-	0.0%	-	-	0.0%	-	-	0.0%	-
213113	Support Activities for Coal Mining Coal Mining & Support	-	0.0%	-	- A	0.0%	-	-	0.0%	-
	Energy Mining & Support									
2122//	Metal Ore Mining	2	0.0%	0.0	14 A	0.0%	0.3	-	0.0%	-
213114	Support Activities for Metal Mining Metal Ore Mining & Support	-	0.0%	-	-	0.0%	-	-	0.0%	-
2123//	Nonmetallic Mineral Mining and Quarrying	96 B	0.0%	0.4	818 F	0.4%	5.4	84	0.1%	1.1
213115	Support Activities for Nonmetallic Minerals (except Fuel) Nonmetallic Mineral Mining and Quarrying & Support	-	0.0%	-	2 A	0.0%	0.2	-	0.0%	-
Data Suppression Flag Ranges										
A 0-19 H 2,500-4,999										
B 20-99 I 5,000-9,999										
C 100-249 J 10,000-24,999										
E 250-499 K 25,000-49,999										
F 500-999 L 50,000-99,999										
G 1000-2499 M 100,000 or More										

NAICS Sector	United States			California			3 County Aggregation			
	Jobs	Share		Jobs	Share	Shr / US	Jobs	Share	US	Share vs. US
<b>Specializing In (Greatest Positive Difference between the Region's Share vs. the US)</b>										
21----	Mining	554,333	0.46%	21,285	0.15%	0.3	5,715	1.1%	2.3	0.60%
213///	Support Activities for Mining	256,301	0.21%	10,598	0.08%	0.4	3,727 *	0.7%	3.3	0.48%
2131//	Support Activities for Mining	256,301	0.21%	10,598	0.08%	0.4	3,727 *	0.7%	3.3	0.48%
21311/	Support Activities for Mining	256,301	0.21%	10,598	0.08%	0.4	3,727 *	0.7%	3.3	0.48%
213112	Support Activities for Oil and Gas Operations	155,404	0.13%	8,145	0.06%	0.5	2,816 *	0.5%	4.1	0.40%
212391	Potash, Soda, and Borate Mineral Mining	2,875	0.00%	999 G	0.01%	3.0	683 *	0.1%	53.1	0.12%
211///	Oil and Gas Extraction	92,683	0.08%	3,867	0.03%	0.4	1,080 *	0.2%	2.6	0.12%
2111//	Oil and Gas Extraction	92,683	0.08%	3,867	0.03%	0.4	1,080 *	0.2%	2.6	0.12%
21111/	Oil and Gas Extraction	92,683	0.08%	3,867	0.03%	0.4	1,080 *	0.2%	2.6	0.12%
211111	Crude Petroleum and Natural Gas Extraction	78,367	0.07%	2,907 H	0.02%	0.3	1,007 *	0.2%	2.9	0.12%
21239/	Other Nonmetallic Mineral Mining and Quarrying	10,363	0.01%	1,643	0.01%	1.4	637 *	0.1%	13.7	0.11%
2123//	Nonmetallic Mineral Mining and Quarrying	99,723	0.08%	6,657	0.05%	0.6	997 *	0.2%	2.2	0.10%
213111	Drilling Oil and Gas Wells	85,296	0.07%	2,295	0.02%	0.2	892 *	0.2%	2.3	0.10%
212321	Construction Sand and Gravel Mining	27,798	0.02%	2,754	0.02%	0.9	188 *	0.0%	1.5	0.01%
212399	All Other Nonmetallic Mineral Mining	4,641	0.00%	689	0.00%	1.3	47 *	0.0%	2.3	0.00%
21232/	Sand, Gravel, Clay, and Ceramic and Refractory Miner	37,842	0.03%	2,945	0.02%	0.7	193 *	0.0%	1.1	0.00%
212393	Other Chemical and Fertilizer Mineral Mining	1,834	0.00%	52 A	0.00%	0.2	14	0.0%	1.6	0.00%
21229/	Other Metal Ore Mining	-	0.00%	42 B	0.00%		2	0.0%		0.00%
212291	Uranium-Radium-Vanadium Ore Mining	-	0.00%	2	0.00%		2	0.0%		0.00%
-----	Total (All Sectors)	119,917,000	100.00%	13,834,300	100.00%	1.0	536,336	100.0%	1.0	0.00%
21221/	Iron Ore Mining	-	0.00%	20 A	0.00%		-	0.0%		0.00%
212210	Iron Ore Mining	-	0.00%	20 A	0.00%		-	0.0%		0.00%
212222	Silver Ore Mining	639 F	0.00%	-	0.00%		-	0.0%		0.00%
212392	Phosphate Rock Mining	1,013	0.00%	#N/A	#N/A		-	0.0%		0.00%
212113	Anthracite Mining	1,242	0.00%	7 A	0.00%	0.0	-	0.0%		0.00%

<b>Lacking In (Greatest Negative Difference between the Region's Share vs. the US)</b>										
NAICS Sector	Jobs	Share		Jobs	Share	Shr / US	Jobs	Share	US	Share vs. US
21211/	Coal Mining	77,939	0.06%	7 A	0.00%	0.0	-	0.0%	-	-0.06%
2121//	Coal Mining	77,939	0.06%	7 A	0.00%	0.0	-	0.0%	-	-0.06%
212112	Bituminous Coal Underground Mining	40,340	0.03%	- A	0.00%	-	-	0.0%	-	-0.03%
21231/	Stone Mining and Quarrying	51,518	0.04%	2,069	0.01%	0.3	50 *	0.0%	0.2	-0.03%
212111	Bituminous Coal and Lignite Surface Mining	36,357	0.03%	-	0.00%	-	-	0.0%	-	-0.03%
2122//	Metal Ore Mining	27,687	0.02%	158 E	0.00%	0.0	15 *	0.0%	0.1	-0.02%
212312	Crushed and Broken Limestone Mining and Quarrying	30,160	0.03%	624	0.00%	0.2	30 *	0.0%	0.2	-0.02%
21223/	Copper, Nickel, Lead, and Zinc Mining	10,176	0.01%	2 B	0.00%	0.0	-	0.0%	-	-0.01%
212234	Copper Ore and Nickel Ore Mining	8,732	0.01%	2	0.00%	0.0	-	0.0%	-	-0.01%
212313	Crushed and Broken Granite Mining and Quarrying	8,301	0.01%	524	0.00%	0.5	-	0.0%	-	-0.01%
213113	Support Activities for Coal Mining	7,954	0.01%	3 A	0.00%	0.0	- *	0.0%	-	-0.01%
21222/	Gold Ore and Silver Ore Mining	9,146	0.01%	105 C	0.00%	0.1	14 *	0.0%	0.3	-0.01%
212221	Gold Ore Mining	8,507 I	0.01%	105 C	0.00%	0.1	14 *	0.0%	0.4	0.00%
212319	Other Crushed and Broken Stone Mining and Quarrying	8,179	0.01%	716	0.01%	0.8	14 *	0.0%	0.4	0.00%
211112	Natural Gas Liquid Extraction	14,316	0.01%	840 F	0.01%	0.5	42 *	0.0%	0.7	0.00%
213115	Support Activities for Nonmetallic Minerals (except Fuel)	4,676	0.00%	54 B	0.00%	0.1	2 *	0.0%	0.1	0.00%

Shaded green when share of total exceeds that for the US by over 20%, red when by less than -20%.

\* Estimated data. Source did not disclose data to protect confidentiality of individual businesses.

Source: Census County Business Patterns 2006 with Estimates by Headwaters Economics

		Fresno, California			Kern, California			Tulare, California		
NAICS	Sector	Jobs	Share	Shr / US	Jobs	Share	Shr / US	Jobs	Share	Shr / US
<b>Specializing In (Greatest Positive Difference between the Region's S</b>										
21----	Mining	535	0.2%	0.4	5,083	2.8%	6.0	97	0.1%	0.2
213///	Support Activities for Mining	434 B	0.2%	0.8	3,284	1.8%	8.4	9 A	0.0%	0.0
2131//	Support Activities for Mining	434 B	0.2%	0.8	3,284	1.8%	8.4	9 A	0.0%	0.0
21311/	Support Activities for Mining	434 B	0.2%	0.8	3,284	1.8%	8.4	9 A	0.0%	0.0
213112	Support Activities for Oil and Gas Operations	379 B	0.1%	1.1	2,437	1.3%	10.3	-	0.0%	-
212391	Potash, Soda, and Borate Mineral Mining	-	0.0%	-	683 F	0.4%	155.4	-	0.0%	-
2111//	Oil and Gas Extraction	2	0.0%	0.0	1,072	0.6%	7.6	7 A	0.0%	0.1
21111//	Oil and Gas Extraction	2	0.0%	0.0	1,072	0.6%	7.6	7 A	0.0%	0.1
211111/	Oil and Gas Extraction	2	0.0%	0.0	1,072	0.6%	7.6	7 A	0.0%	0.1
2111111	Crude Petroleum and Natural Gas Extraction	-	0.0%	-	1,000 F	0.5%	8.3	7 A	0.0%	0.1
21239/	Other Nonmetallic Mineral Mining and Quarrying	-	0.0%	-	637 F	0.3%	40.2	-	0.0%	-
2123//	Nonmetallic Mineral Mining and Quarrying	96 B	0.0%	0.4	818 F	0.4%	5.4	84	0.1%	1.1
213111	Drilling Oil and Gas Wells	30 B	0.0%	0.2	854 F	0.5%	6.5	8 A	0.0%	0.1
212321	Construction Sand and Gravel Mining	90 B	0.0%	1.5	40 B	0.0%	0.9	58 B	0.1%	2.7
212399	All Other Nonmetallic Mineral Mining	-	0.0%	-	47 B	0.0%	6.6	-	0.0%	-
21232/	Sand, Gravel, Clay, and Ceramic and Refractory Miner	91 B	0.0%	1.1	43 B	0.0%	0.7	59 B	0.1%	2.0
212393	Other Chemical and Fertilizer Mineral Mining	-	0.0%	-	14	0.0%	4.8	-	0.0%	-
21229/	Other Metal Ore Mining	2	0.0%	-	-	0.0%	-	-	0.0%	-
212291	Uranium-Radium-Vanadium Ore Mining	2	0.0%	-	-	0.0%	-	-	0.0%	-
-----	Total (All Sectors)	257,975	100.0%	1.0	183,412	100.0%	1.0	94,949	100.0%	1.0
21221/	Iron Ore Mining	-	0.0%	-	-	0.0%	-	-	0.0%	-
212210	Iron Ore Mining	-	0.0%	-	-	0.0%	-	-	0.0%	-
212222	Silver Ore Mining	-	0.0%	-	-	0.0%	-	-	0.0%	-
212392	Phosphate Rock Mining	-	0.0%	-	-	0.0%	-	-	0.0%	-
212113	Anthracite Mining	-	0.0%	-	-	0.0%	-	-	0.0%	-
<b>Lacking In (Greatest Negative Difference between the Region's S</b>										
21211/	Coal Mining	-	0.0%	-	-	0.0%	-	-	0.0%	-
21211//	Coal Mining	-	0.0%	-	-	0.0%	-	-	0.0%	-
212112	Bituminous Coal Underground Mining	-	0.0%	-	-	0.0%	-	-	0.0%	-
21231/	Stone Mining and Quarrying	7 A	0.0%	0.1	30 A	0.0%	0.4	14 A	0.0%	0.3
212111	Bituminous Coal and Lignite Surface Mining	-	0.0%	-	-	0.0%	-	-	0.0%	-
2122//	Metal Ore Mining	2	0.0%	0.0	14 A	0.0%	0.3	-	0.0%	-
212312	Crushed and Broken Limestone Mining and Quarrying	- A	0.0%	-	30 A	0.0%	0.7	-	0.0%	-
21223/	Copper, Nickel, Lead, and Zinc Mining	-	0.0%	-	-	0.0%	-	-	0.0%	-
212234	Copper Ore and Nickel Ore Mining	-	0.0%	-	-	0.0%	-	-	0.0%	-
212313	Crushed and Broken Granite Mining and Quarrying	-	0.0%	-	-	0.0%	-	-	0.0%	-
213113	Support Activities for Coal Mining	-	0.0%	-	- A	0.0%	-	-	0.0%	-
21222/	Gold Ore and Silver Ore Mining	-	0.0%	-	14 A	0.0%	1.0	-	0.0%	-
212221	Gold Ore Mining	-	0.0%	-	14 A	0.0%	1.0	-	0.0%	-
212319	Other Crushed and Broken Stone Mining and Quarrying	-	0.0%	-	-	0.0%	-	14 A	0.0%	2.1
211112	Natural Gas Liquid Extraction	2	0.0%	0.1	40 B	0.0%	1.8	-	0.0%	-
213115	Support Activities for Nonmetallic Minerals (except Fuel)	-	0.0%	-	2 A	0.0%	0.2	-	0.0%	-