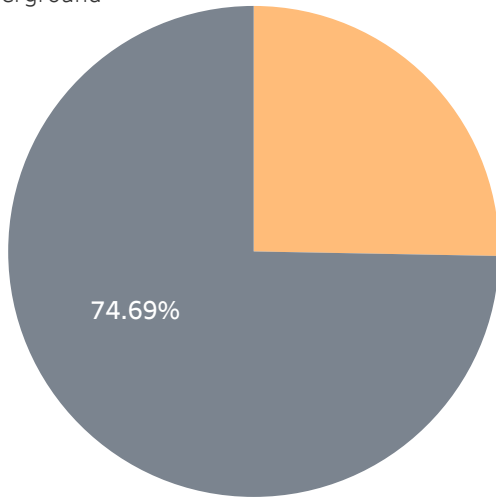
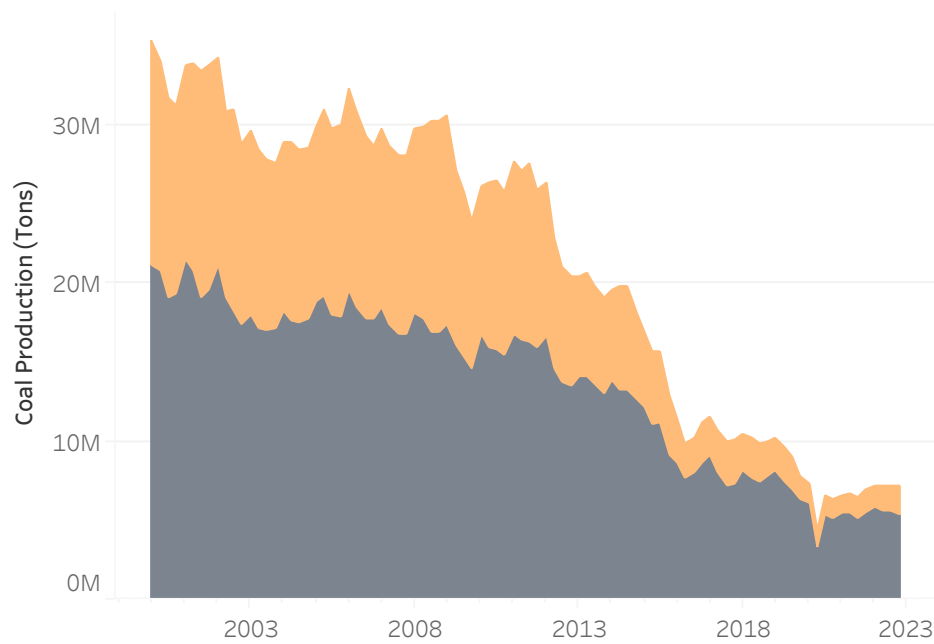


Kentucky Quarterly Coal Report (2022 - Q4)

Mine Type
■ Surface
■ Underground

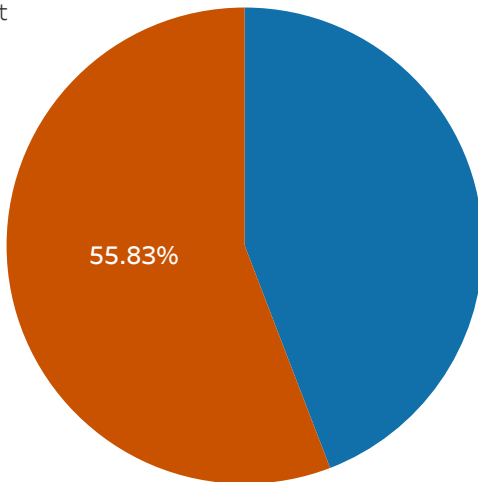


Coal Production by Mine Type (2000 - Q1 to 2022 - Q4)

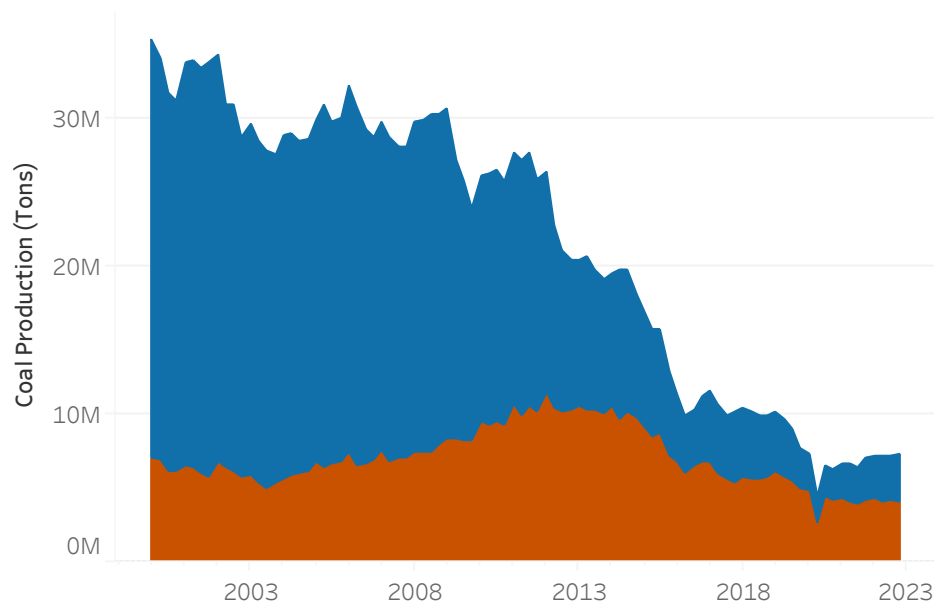


	Production	YoY change	Qtr change
Total	7,104,973	+ 2.13%	- 0.34%
Underground	5,387,000	- 2.30%	- 3.28%
Surface	1,717,973	+ 19.09%	+ 10.18%

Region
■ East
■ West



Coal Production by Region (2000 - Q1 to 2022 - Q4)

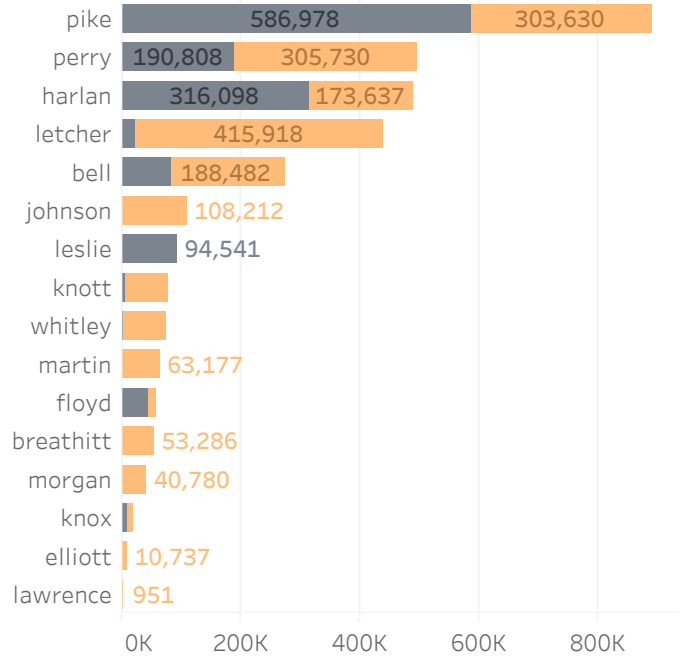
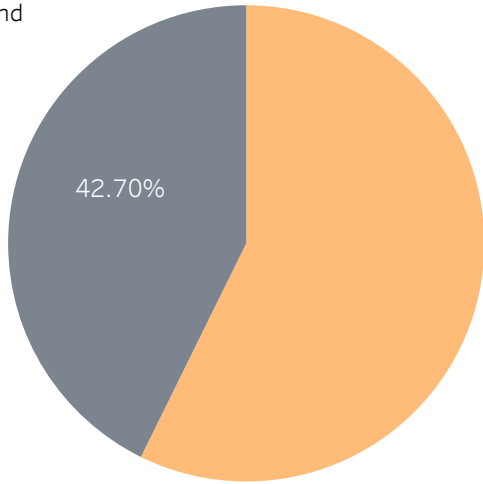


	Production	YoY change	Qtr change
Total	7,104,973	+ 2.13%	- 0.34%
East	3,078,369	+ 8.49%	+ 1.82%
West	4,026,604	- 2.25%	- 1.93%

Eastern Kentucky (2022 - Q4)

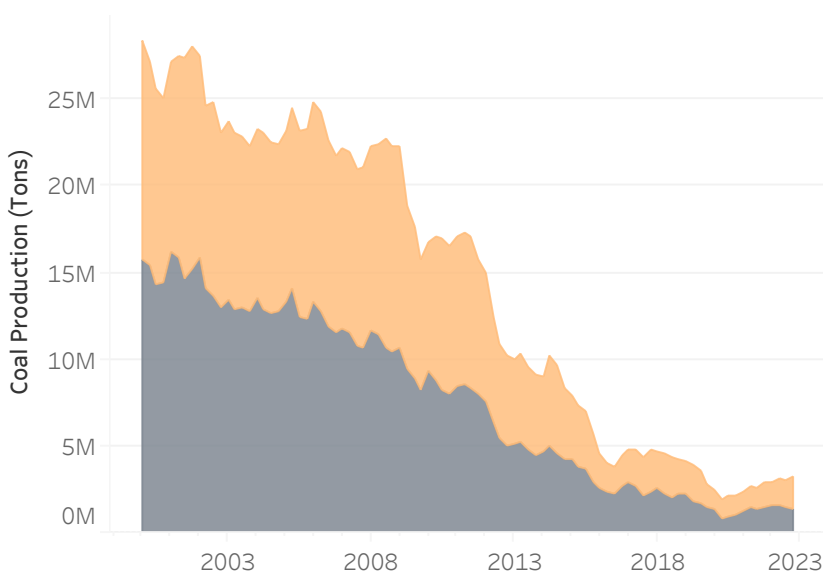
Mine Type

- Surface
- Underground



	Production	YoY change	Qtr change
Total	3,078,369	+ 8.49%	+ 1.82%
Surface	1,717,973	+ 20.67%	+ 10.18%
Underground	1,360,396	- 3.77%	- 7.08%

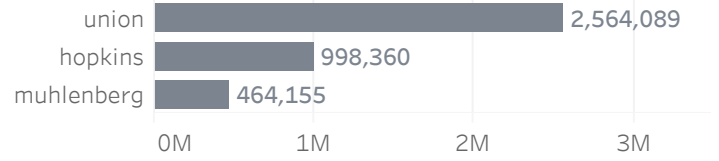
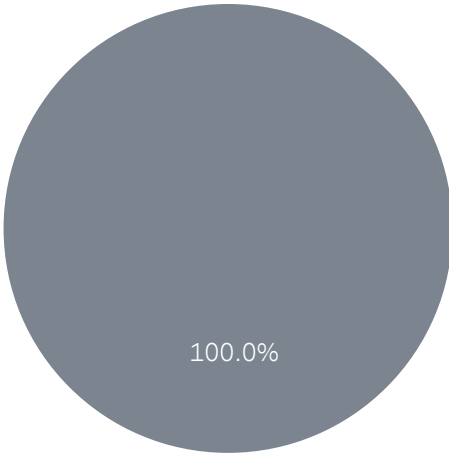
Eastern Kentucky Coal Production (2000 - Q1 to 2022 - Q4)



	County Coal Pr..	YoY change	Qtr change
EKY Total	3,078,369	+ 8.49%	+ 1.82%
pike	783,128	+ 2.57%	+ 0.04%
perry	496,538	- 1.65%	+ 10.99%
harlan	489,735	+ 2.79%	- 15.39%
letcher	438,312	+ 18.23%	+ 15.29%
bell	272,852	+ 29.98%	+ 17.76%
johnson	108,212	- 30.92%	- 11.90%
leslie	94,541	+ 27.51%	- 10.34%
knott	76,803	- 18.55%	- 22.66%
whitley	73,789	+ 2.29%	- 19.86%
martin	63,177	+ 1,367.87%	+ 47.11%
floyd	57,323	- 11.57%	- 11.44%
breathitt	53,286	+ 309.73%	+ 193.34%
morgan	40,780	+ 315.23%	+ 11.29%
knox	18,205	- 8.94%	+ 8.97%
elliott	10,737		

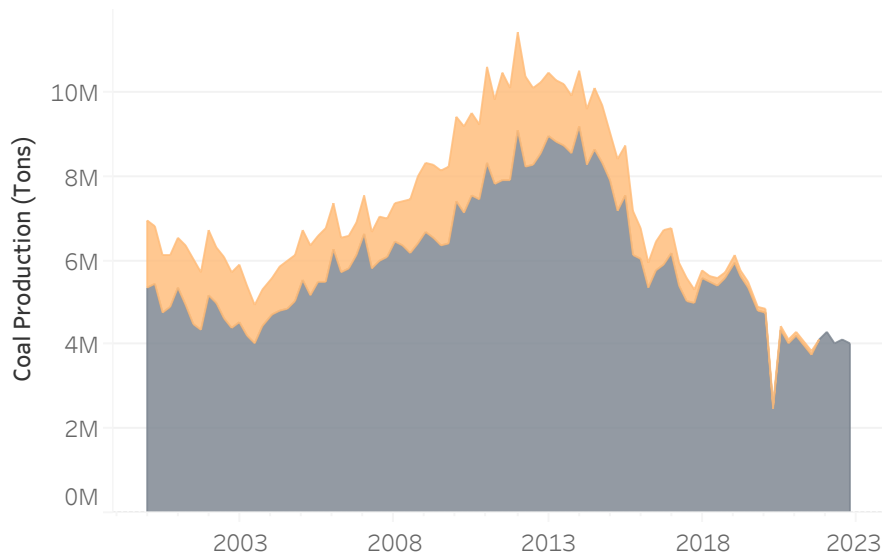
Western Kentucky (2022 - Q4)

Mine Type
 Underground



	Production	YoY change	Qtr change
Total	4,026,604	- 2.25%	- 1.93%
Underground	4,026,604	- 1.80%	- 1.93%
Surface	0	- 100.00%	

Western Kentucky Coal Production (2000 - Q1 to 2022 - Q4)

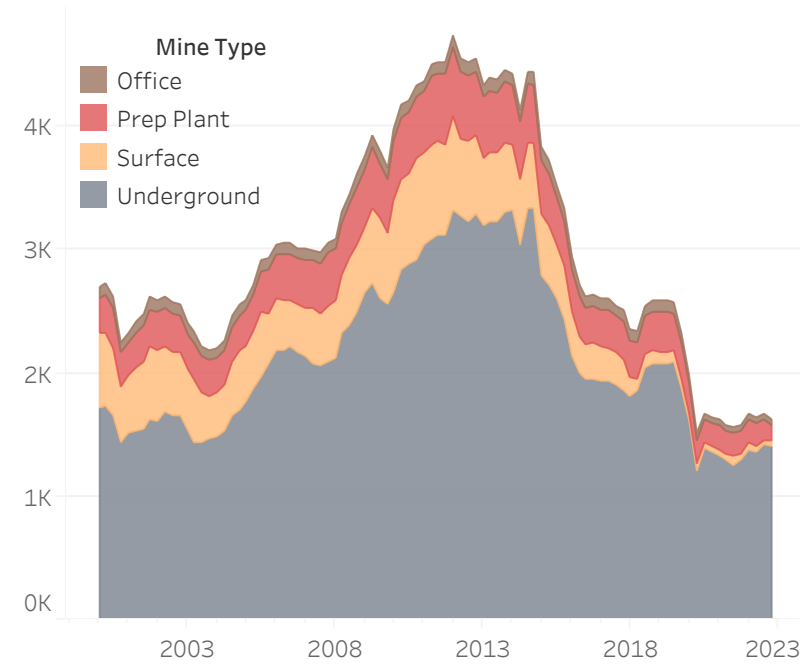
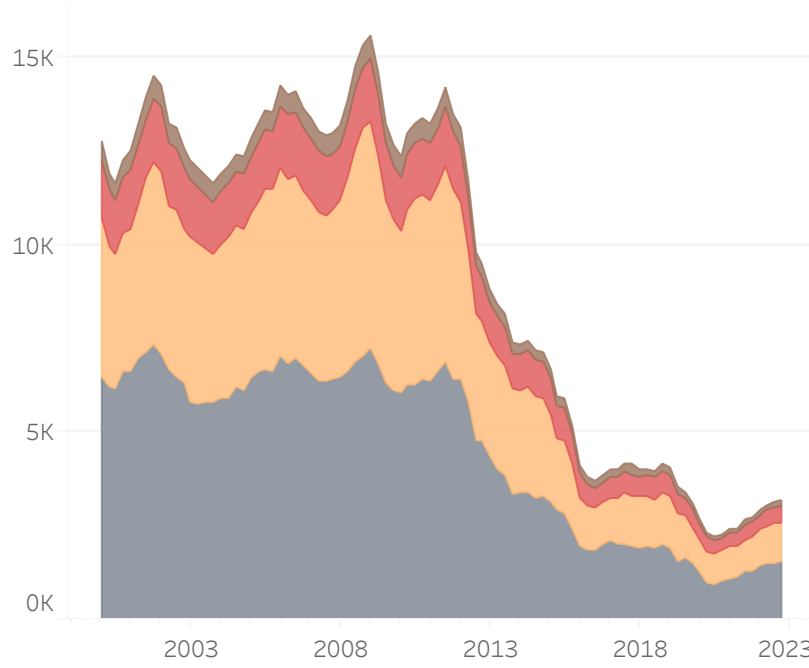


	County Coal Production	YoY change	Qtr change
WKY Total	4,026,604	- 2.25%	- 1.93%
union	2,564,089	- 0.41%	+ 2.95%
hopkins	998,360	- 3.77%	- 6.51%
muhlenberg	464,155	- 4.92%	- 15.17%

Employment by Region (2022 - Q4)

East Kentucky Employment by Mine Type (2000 - Q1 to 2022 - Q4)

West Kentucky Employment by Mine Type (2000 - Q1 to 2022 - Q4)



	Emp	YoY pct change	YoY change	Qtr pct change	Qtr change		Emp	YoY pct change	YoY change	Qtr pct change	Qtr change
EKY Total	3,178	+ 16.33%	+446	+ 1.8%	+56	WKY Total	1,659	+ 5.33%	+84	- 0.84%	-14
pike	1,065	+ 22.13%	+193	+ 4.8%	+49	union	858	+ 9.44%	+74	- 0.12%	-1
harlan	539	+ 19.25%	+87	- 1.6%	-9	hopkins	484	+ 7.56%	+34	- 0.21%	-1
perry	429	- 14.20%	-71	- 3.8%	-17	muhlenberg	262	+ 3.97%	+10	- 1.50%	-4
bell	318	+ 14.80%	+41	+ 0.0%	-	marshall	40	- 2.44%	-1	+ 2.56%	+1
letcher	152	+ 46.15%	+48	- 0.7%	-1	ohio	15	- 40.00%	-10	- 37.50%	-9
leslie	131	+ 3.15%	+4	+ 0.8%	+1	Total Employees by Mine Type					
whitley	104	+ 42.47%	+31	+ 3.0%	+3		Total Workers		YoY pct change		Qtr pct change
floyd	99	+ 20.73%	+17	+ 17.9%	+15	Total	4,837		+ 12.31%		+ 0.88%
knott	82	+ 20.59%	+14	- 7.9%	-7	Underground	2,925		+ 12.85%		+ 0.58%
knox	56	+ 40.00%	+16	+ 36.6%	+15	Surface	1,090		+ 15.47%		- 2.24%
martin	50	+ 212.50%	+34	+ 35.1%	+13	Preparation Plant	650		+ 8.15%		+ 11.49%
johnson	48	- 26.15%	-17	- 22.6%	-14	Office	172		+ 1.18%		- 8.99%
breathitt	41	+ 412.50%	+33	+ 46.4%	+13						
elliott	17										
morgan	15	+ 150.00%	+9	+ 25.0%	+3						
boyd	12	- 7.69%	-1	- 7.7%	-1						
clay	9	- 43.75%	-7	- 74.3%	-26						
lawrence	4	+ 33.33%	+1	+ 33.3%	+1						
mccreary	4	-	-	+ 0.0%	-						
lee	3	+ 50.00%	+1	+ 50.0%	+1						
magoffin	0	- 100.00%	-4		-						

Coal Production Reference Table										
		West			East			Total		
		Production	YoY change	Qtr change	Production	YoY change	Qtr change	Production	YoY change	Qtr change
2022	Q4	4,026,604	-2.25%	-1.93%	3,078,369	+8.49%	+1.82%	7,104,973	+2.13%	-0.34%
	Q3	4,105,715	+6.94%	+2.19%	3,023,227	+19.02%	-1.61%	7,128,942	+11.75%	+0.55%
	Q2	4,017,548	-1.04%	-6.13%	3,072,562	+17.86%	+6.32%	7,090,110	+6.35%	-1.11%
	Q1	4,279,989	+0.05%	+3.90%	2,889,987	+25.48%	+1.85%	7,169,976	+8.95%	+3.07%
2021	Q4	4,119,150	+0.49%	+7.29%	2,837,377	+31.93%	+11.70%	6,956,527	+11.31%	+9.04%
	Q3	3,839,326	-13.23%	-5.43%	2,540,196	+19.51%	-2.56%	6,379,522	-2.61%	-4.31%
	Q2	4,059,665	+58.45%	-5.10%	2,607,024	+41.87%	+13.19%	6,666,689	+51.53%	+1.30%
	Q1	4,278,043	-11.35%	+4.37%	2,303,202	-6.29%	+7.09%	6,581,245	-9.65%	+5.31%
2020	Q4	4,098,927	-16.08%	-7.37%	2,150,628	-23.68%	+1.19%	6,249,555	-18.86%	-4.59%
	Q3	4,424,915	-19.27%	+72.71%	2,125,431	-39.44%	+15.66%	6,550,346	-27.15%	+48.88%
	Q2	2,562,103	-55.52%	-46.91%	1,837,580	-52.08%	-25.24%	4,399,683	-54.15%	-39.60%
	Q1	4,825,923	-21.07%	-1.19%	2,457,891	-39.20%	-12.77%	7,283,814	-28.29%	-5.43%
2019	Q4	4,884,272	-14.67%	-10.89%	2,817,755	-32.62%	-19.72%	7,702,027	-22.25%	-14.34%
	Q3	5,481,282	-1.52%	-4.84%	3,509,837	-18.48%	-8.47%	8,991,119	-8.92%	-6.29%
	Q2	5,760,256	+2.65%	-5.79%	3,834,540	-15.88%	-5.15%	9,594,796	-5.66%	-5.53%
	Q1	6,114,327	+6.19%	+6.82%	4,042,564	-12.39%	-3.33%	10,156,891	-2.07%	+2.54%
2018	Q4	5,723,927	+7.72%	+2.84%	4,181,681	-12.14%	-2.88%	9,905,608	-1.66%	+0.35%
	Q3	5,566,036	-0.31%	-0.81%	4,305,471	-0.03%	-5.55%	9,871,507	-0.19%	-2.94%
	Q2	5,611,408	-5.67%	-2.54%	4,558,676	-3.97%	-1.20%	10,170,084	-4.92%	-1.95%
	Q1	5,757,753	-14.82%	+8.36%	4,614,227	-3.92%	-3.06%	10,371,980	-10.29%	+2.96%
2017	Q4	5,313,607	-20.89%	-4.83%	4,759,701	+6.63%	+10.52%	10,073,308	-9.90%	+1.85%
	Q3	5,583,324	-13.63%	-6.15%	4,306,673	+14.22%	-9.28%	9,889,997	-3.37%	-7.54%
	Q2	5,948,923	+0.18%	-11.99%	4,747,187	+20.46%	-1.15%	10,696,110	+8.27%	-7.49%
	Q1	6,759,704	-0.07%	+0.65%	4,802,301	+4.96%	+7.58%	11,562,005	+1.96%	+3.42%
2016	Q4	6,716,354	-6.35%	+3.90%	4,463,804	-20.76%	+18.39%	11,180,158	-12.69%	+9.24%
	Q3	6,464,425	-25.75%	+8.86%	3,770,467	-45.74%	-4.32%	10,234,892	-34.63%	+3.60%
	Q2	5,938,328	-29.27%	-12.21%	3,940,873	-45.95%	-13.87%	9,879,201	-37.02%	-12.88%
	Q1	6,764,538	-25.25%	-5.68%	4,575,562	-41.40%	-18.77%	11,340,100	-32.73%	-11.44%
2015	Q4	7,171,565	-26.04%	-17.63%	5,633,026	-32.60%	-18.94%	12,804,591	-29.08%	-18.21%
	Q3	8,706,595	-13.94%	+3.70%	6,949,340	-27.63%	-4.68%	15,655,935	-20.61%	-0.20%
	Q2	8,396,251	-12.65%	-7.22%	7,290,626	-28.31%	-6.62%	15,686,877	-20.70%	-6.94%
	Q1	9,049,591	-13.98%	-6.67%	7,807,472	-12.84%	-6.59%	16,857,063	-13.45%	-6.63%
2014	Q4	9,695,896	-2.36%	-4.16%	8,357,904	-8.04%	-12.96%	18,053,800	-5.08%	-8.45%
	Q3	10,116,906	-0.90%	+5.25%	9,602,754	+0.89%	-5.57%	19,719,660	-0.04%	-0.31%
	Q2	9,612,041	-6.53%	-8.63%	10,169,370	-1.12%	+13.53%	19,781,411	-3.83%	+1.56%
	Q1	10,519,840	+0.70%	+5.94%	8,957,610	-10.04%	-1.45%	19,477,450	-4.54%	+2.41%
2013	Q4	9,930,116	-2.76%	-2.73%	9,088,999	-11.03%	-4.50%	19,019,115	-6.90%	-3.59%
	Q3	10,209,207	+1.30%	-0.73%	9,517,632	-12.66%	-7.46%	19,726,839	-5.96%	-4.09%
	Q2	10,283,803	-0.70%	-1.55%	10,284,678	-17.03%	+3.29%	20,568,481	-9.60%	+0.81%
	Q1	10,446,242	-8.36%	+2.29%	9,957,406	-33.44%	-2.53%	20,403,648	-22.59%	-0.12%
2012	Q4	10,212,118	+1.02%	+1.32%	10,215,917	-34.99%	-6.26%	20,428,035	-20.89%	-2.61%
	Q3	10,078,665	-3.70%	-2.68%	10,897,744	-36.29%	-12.09%	20,976,409	-23.92%	-7.80%
	Q2	10,356,005	+5.26%	-9.15%	12,395,936	-28.12%	-17.13%	22,751,941	-15.99%	-13.68%
	Q1	11,399,527	+7.44%	+12.77%	14,958,981	-12.18%	-4.81%	26,358,508	-4.65%	+2.07%
2011	Q4	10,108,522	+9.29%	-3.42%	15,715,090	-4.72%	-8.13%	25,823,612	+0.31%	-6.34%
	Q3	10,466,346	+10.24%	+6.38%	17,106,204	+1.12%	-0.80%	27,572,550	+4.40%	+1.81%
	Q2	9,838,635	+7.28%	-7.28%	17,244,325	+0.95%	+1.23%	27,082,960	+3.16%	-2.03%
	Q1	10,610,622	+12.63%	+14.72%	17,034,567	+2.15%	+3.28%	27,645,189	+5.93%	+7.39%
2010	Q4	9,249,023	+12.45%	-2.59%	16,494,366	+5.19%	-2.49%	25,743,389	+7.69%	-2.53%
	Q3	9,494,482	+16.80%	+3.53%	16,916,050	-3.97%	-0.97%	26,410,532	+2.59%	+0.60%
	Q2	9,171,091	+10.95%	-2.65%	17,082,178	-9.15%	+2.43%	26,253,269	-3.01%	+0.60%
	Q1	9,421,068	+13.06%	+14.55%	16,676,185	-24.94%	+6.35%	26,097,253	-14.57%	+9.17%

Employment Reference Table										
		West			East			Total		
		Emp	YoY change	Qtr change	Emp	YoY change	Qtr change	Emp	YoY change	Qtr change
2022	Q4	1,659	+ 5.33%	- 0.84%	3,178	+ 16.33%	+ 1.79%	4,837	+ 12.31%	+ 0.88%
	Q3	1,673	+ 7.38%	+ 2.64%	3,122	+ 17.77%	+ 2.93%	4,795	+ 13.92%	+ 2.83%
	Q2	1,630	+ 3.56%	- 2.10%	3,033	+ 26.32%	+ 4.91%	4,663	+ 17.31%	+ 2.35%
	Q1	1,665	+ 2.97%	+ 5.71%	2,891	+ 20.36%	+ 5.82%	4,556	+ 13.36%	+ 5.78%
2021	Q4	1,575	- 4.08%	+ 1.09%	2,732	+ 19.98%	+ 3.06%	4,307	+ 9.90%	+ 2.33%
	Q3	1,558	- 6.82%	- 1.02%	2,651	+ 19.09%	+ 10.41%	4,209	+ 7.98%	+ 5.89%
	Q2	1,574	+ 4.65%	- 2.66%	2,401	+ 4.21%	- 0.04%	3,975	+ 4.39%	- 1.09%
	Q1	1,617	- 18.00%	- 1.52%	2,402	- 11.14%	+ 5.49%	4,019	- 14.03%	+ 2.55%
2020	Q4	1,642	- 29.44%	- 1.79%	2,277	- 26.41%	+ 2.29%	3,919	- 27.71%	+ 0.54%
	Q3	1,672	- 34.92%	+ 11.17%	2,226	- 34.53%	- 3.39%	3,898	- 34.70%	+ 2.36%
	Q2	1,504	- 41.66%	- 23.73%	2,304	- 34.53%	- 14.76%	3,808	- 37.54%	- 18.55%
	Q1	1,972	- 23.48%	- 15.26%	2,703	- 33.21%	- 12.64%	4,675	- 29.42%	- 13.76%
2019	Q4	2,327	- 9.70%	- 9.42%	3,094	- 25.48%	- 9.00%	5,421	- 19.44%	- 9.18%
	Q3	2,569	+ 1.26%	- 0.35%	3,400	- 14.16%	- 3.38%	5,969	- 8.14%	- 2.10%
	Q2	2,578	+ 10.45%	+ 0.04%	3,519	- 11.89%	- 13.05%	6,097	- 3.65%	- 7.96%
	Q1	2,577	+ 9.85%	+ 0.00%	4,047	+ 1.23%	- 2.53%	6,624	+ 4.41%	- 1.56%
2018	Q4	2,577	+ 3.12%	+ 1.58%	4,152	+ 0.39%	+ 4.82%	6,729	+ 1.42%	+ 3.55%
	Q3	2,537	- 0.20%	+ 8.70%	3,961	- 4.92%	- 0.83%	6,498	- 3.13%	+ 2.69%
	Q2	2,334	- 10.37%	- 0.51%	3,994	- 0.10%	- 0.10%	6,328	- 4.15%	- 0.25%
	Q1	2,346	- 9.56%	- 6.12%	3,998	- 0.03%	- 3.34%	6,344	- 3.78%	- 4.39%
2017	Q4	2,499	- 5.05%	- 1.69%	4,136	+ 8.10%	- 0.72%	6,635	+ 2.74%	- 1.09%
	Q3	2,542	- 2.61%	- 2.38%	4,166	+ 13.55%	+ 4.20%	6,708	+ 6.83%	+ 1.61%
	Q2	2,604	- 3.70%	+ 0.39%	3,998	+ 4.85%	- 0.03%	6,602	+ 1.30%	+ 0.14%
	Q1	2,594	- 11.62%	- 1.44%	3,999	- 1.84%	+ 4.52%	6,593	- 5.94%	+ 2.09%
2016	Q4	2,632	- 20.82%	+ 0.84%	3,826	- 26.25%	+ 4.28%	6,458	- 24.13%	+ 2.85%
	Q3	2,610	- 25.87%	- 3.48%	3,669	- 37.64%	- 3.78%	6,279	- 33.24%	- 3.65%
	Q2	2,704	- 27.23%	- 7.87%	3,813	- 35.94%	- 6.41%	6,517	- 32.59%	- 7.02%
	Q1	2,935	- 23.29%	- 11.70%	4,074	- 38.67%	- 21.47%	7,009	- 33.05%	- 17.66%
2015	Q4	3,324	- 24.98%	- 5.60%	5,188	- 27.27%	- 11.83%	8,512	- 26.39%	- 9.49%
	Q3	3,521	- 20.68%	- 5.25%	5,884	- 18.08%	- 1.14%	9,405	- 19.08%	- 2.72%
	Q2	3,716	- 9.92%	- 2.88%	5,952	- 19.87%	- 10.40%	9,668	- 16.32%	- 7.65%
	Q1	3,826	- 13.54%	- 13.65%	6,643	- 9.25%	- 6.87%	10,469	- 10.86%	- 9.47%
2014	Q4	4,431	- 0.40%	- 0.18%	7,133	- 3.33%	- 0.70%	11,564	- 2.23%	- 0.50%
	Q3	4,439	+ 1.63%	+ 7.61%	7,183	- 11.59%	- 3.30%	11,622	- 6.97%	+ 0.60%
	Q2	4,125	- 6.02%	- 6.78%	7,428	- 11.80%	+ 1.48%	11,553	- 9.82%	- 1.63%
	Q1	4,425	+ 2.29%	- 0.54%	7,320	- 17.01%	- 0.80%	11,745	- 10.66%	- 0.70%
2013	Q4	4,449	- 2.07%	+ 1.85%	7,379	- 22.24%	- 9.18%	11,828	- 15.71%	- 5.32%
	Q3	4,368	- 3.23%	- 0.48%	8,125	- 17.13%	- 3.53%	12,493	- 12.75%	- 2.48%
	Q2	4,389	- 3.47%	+ 1.46%	8,422	- 27.75%	- 4.51%	12,811	- 20.93%	- 2.55%
	Q1	4,326	- 8.52%	- 4.78%	8,820	- 32.71%	- 7.05%	13,146	- 26.30%	- 6.31%
2012	Q4	4,543	+ 0.71%	+ 0.64%	9,489	- 29.56%	- 3.22%	14,032	- 21.97%	- 2.00%
	Q3	4,514	+ 0.00%	- 0.73%	9,805	- 30.96%	- 15.88%	14,319	- 23.49%	- 11.63%
	Q2	4,547	+ 1.02%	- 3.85%	11,656	- 14.37%	- 11.07%	16,203	- 10.54%	- 9.16%
	Q1	4,729	+ 8.36%	+ 4.83%	13,107	- 0.98%	- 2.70%	17,836	+ 1.34%	- 0.81%
2011	Q4	4,511	+ 4.37%	- 0.07%	13,471	+ 0.82%	- 5.14%	17,982	+ 1.69%	- 3.92%
	Q3	4,514	+ 7.25%	+ 0.29%	14,201	+ 7.34%	+ 4.33%	18,715	+ 7.32%	+ 3.32%
	Q2	4,501	+ 8.04%	+ 3.14%	13,612	+ 5.07%	+ 2.83%	18,113	+ 5.79%	+ 2.91%
	Q1	4,364	+ 9.81%	+ 0.97%	13,237	+ 7.34%	- 0.94%	17,601	+ 7.94%	- 0.47%
2010	Q4	4,322	+ 18.38%	+ 2.68%	13,362	+ 5.65%	+ 1.00%	17,684	+ 8.50%	+ 1.40%
	Q3	4,209	+ 10.85%	+ 1.03%	13,230	+ 0.17%	+ 2.12%	17,439	+ 2.55%	+ 1.86%
	Q2	4,166	+ 6.06%	+ 4.83%	12,955	- 11.38%	+ 5.05%	17,121	- 7.69%	+ 5.00%
	Q1	3,974	+ 5.86%	+ 8.85%	12,332	- 20.77%	- 2.49%	16,306	- 15.60%	+ 0.05%