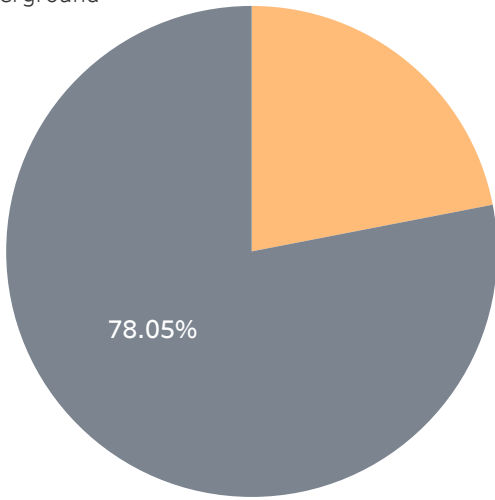
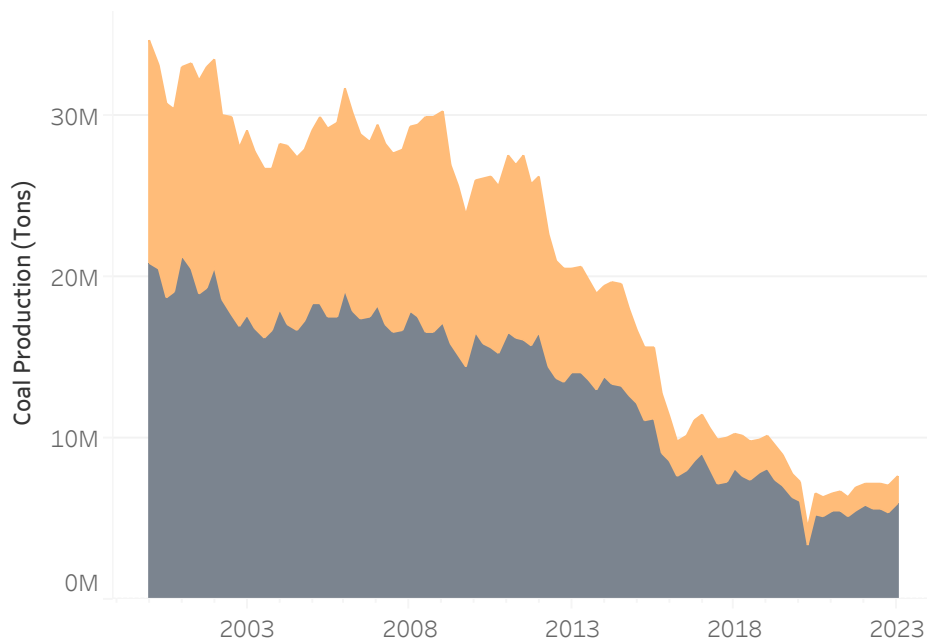


Kentucky Quarterly Coal Report (2023 - Q1)

Mine Type
 Surface
 Underground

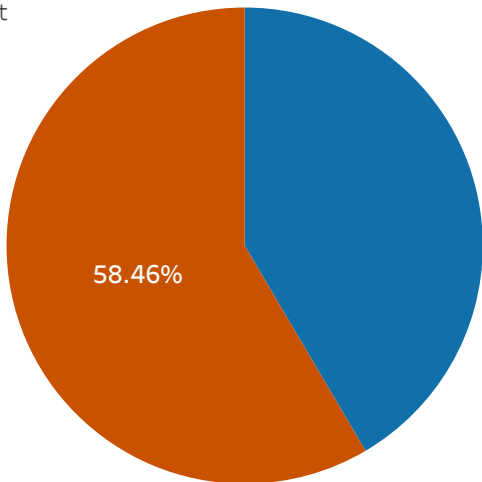


Coal Production by Mine Type (2000 - Q1 to 2023 - Q1)

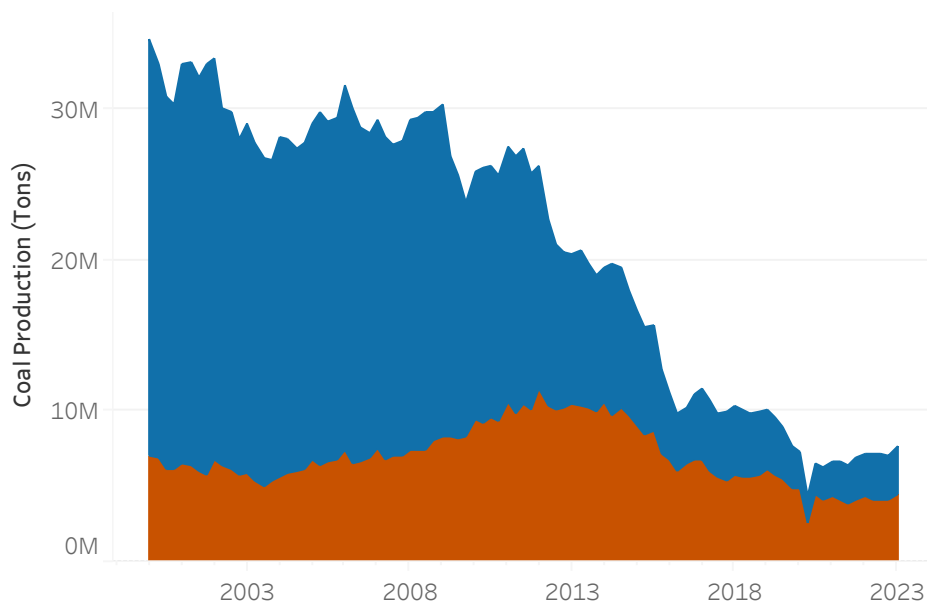


	Production	YoY change	Qtr change
Total	7,576,953	+ 6.22%	+ 7.56%
Underground	5,914,139	+ 1.47%	+ 9.79%
Surface	1,662,814	+ 27.44%	+ 0.35%

Region
 East
 West



Coal Production by Region (2000 - Q1 to 2023 - Q1)

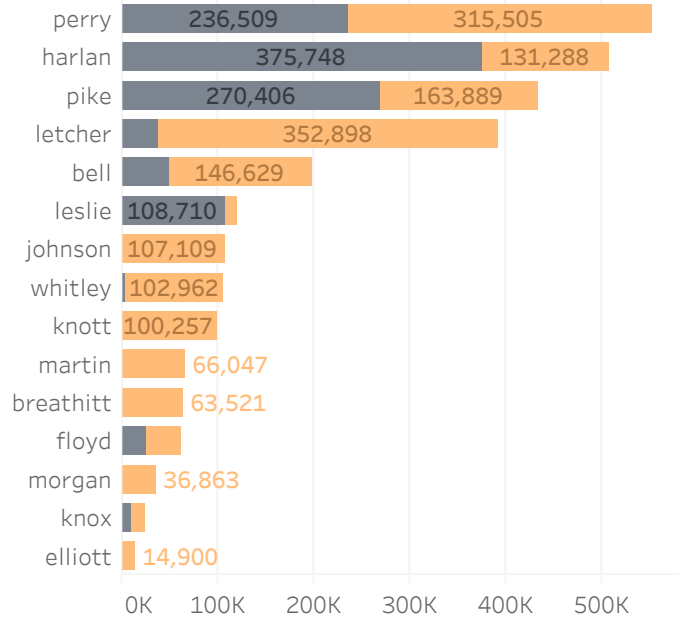
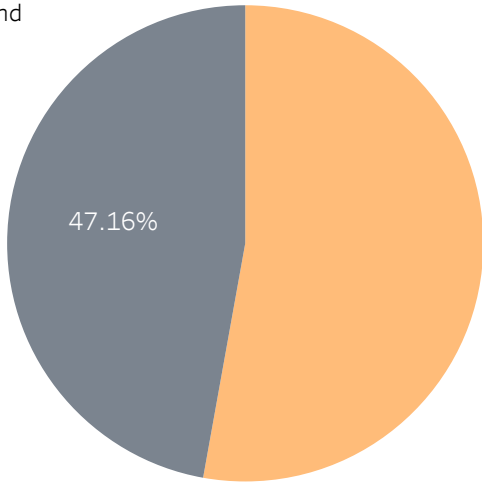


	Production	YoY change	Qtr change
Total	7,576,953	+ 6.22%	+ 7.56%
East	3,147,095	+ 10.31%	+ 4.30%
West	4,429,858	+ 3.50%	+ 10.01%

Eastern Kentucky (2023 - Q1)

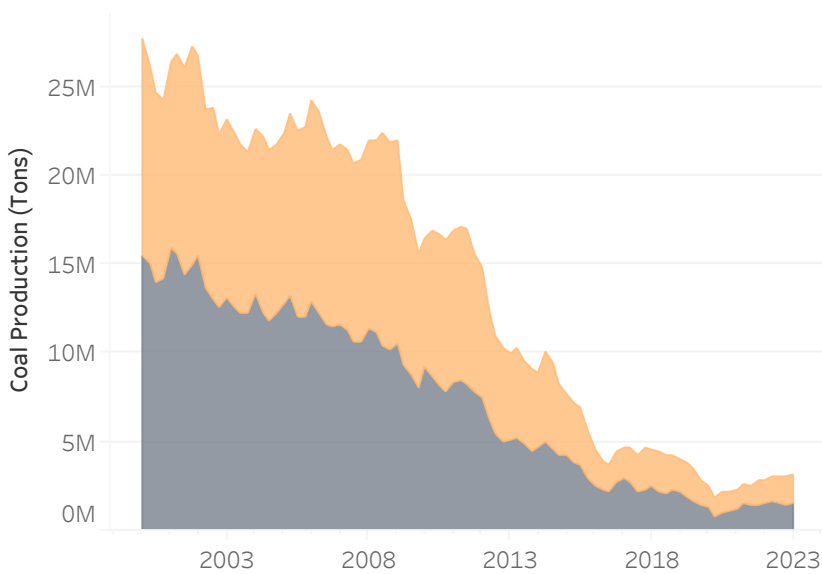
Mine Type

- Surface
- Underground



	Production	YoY change	Qtr change
Total	3,147,095	+ 10.31%	+ 4.30%
Surface	1,662,814	+ 27.44%	+ 0.35%
Underground	1,484,281	- 4.13%	+ 9.11%

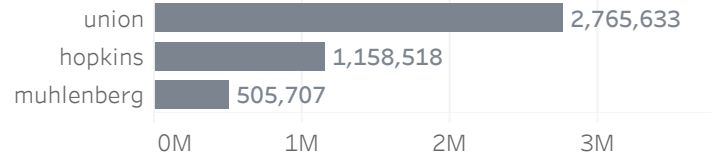
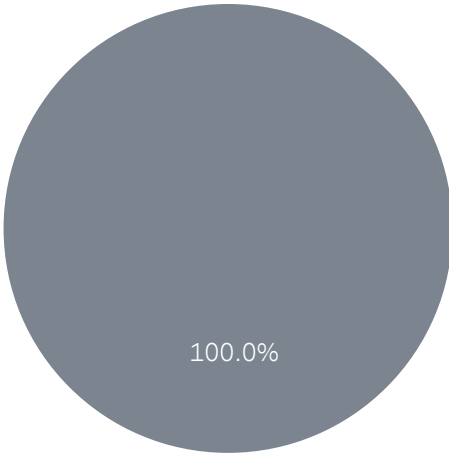
Eastern Kentucky Coal Production (2000 - Q1 to 2023 - Q1)



	County Coal Pro..	YoY change	Qtr change
EKY Total	3,147,095	+ 10.31%	+ 4.30%
pike	799,788	- 2.80%	+ 2.13%
perry	552,014	- 1.05%	+ 11.17%
harlan	507,036	- 5.01%	+ 3.53%
letcher	391,031	+ 63.22%	+ 3.61%
bell	196,898	+ 11.35%	- 27.84%
leslie	118,983	+ 42.94%	+ 25.85%
johnson	107,109	- 26.52%	- 1.02%
whitley	106,613	+ 32.40%	+ 44.48%
knott	100,257	+ 10.05%	+ 30.54%
martin	66,047	+ 770.07%	+ 4.54%
breathitt	63,521	+ 278.55%	+ 19.21%
floyd	62,873	+ 1.09%	+ 9.68%
morgan	36,863	+ 108.84%	- 9.61%
knox	23,162	+ 41.70%	+ 27.23%
elliott	14,900		+ 38.77%

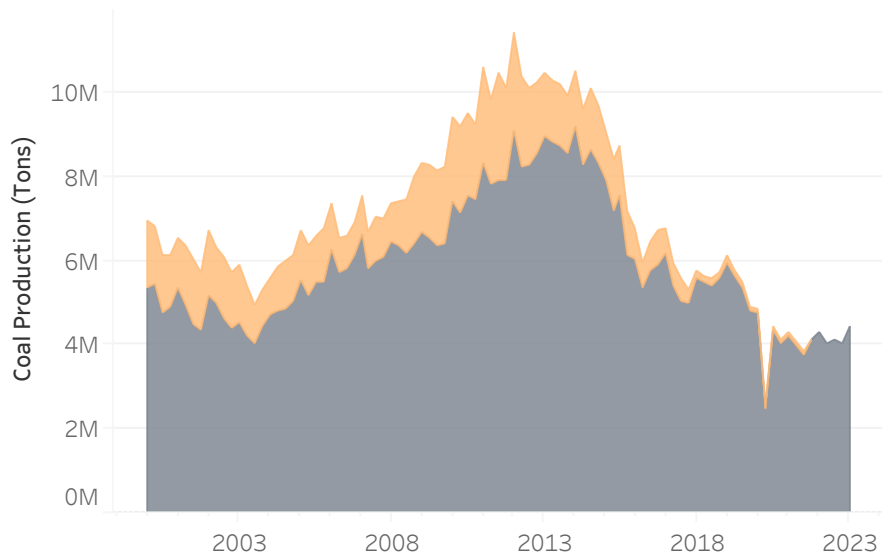
Western Kentucky (2023 - Q1)

Mine Type
 Underground



	Production	YoY change	Qtr change
Total	4,429,858	+ 3.50%	+ 10.01%
Underground	4,429,858	+ 3.50%	+ 10.01%
Surface	0		

Western Kentucky Coal Production (2000 - Q1 to 2023 - Q1)

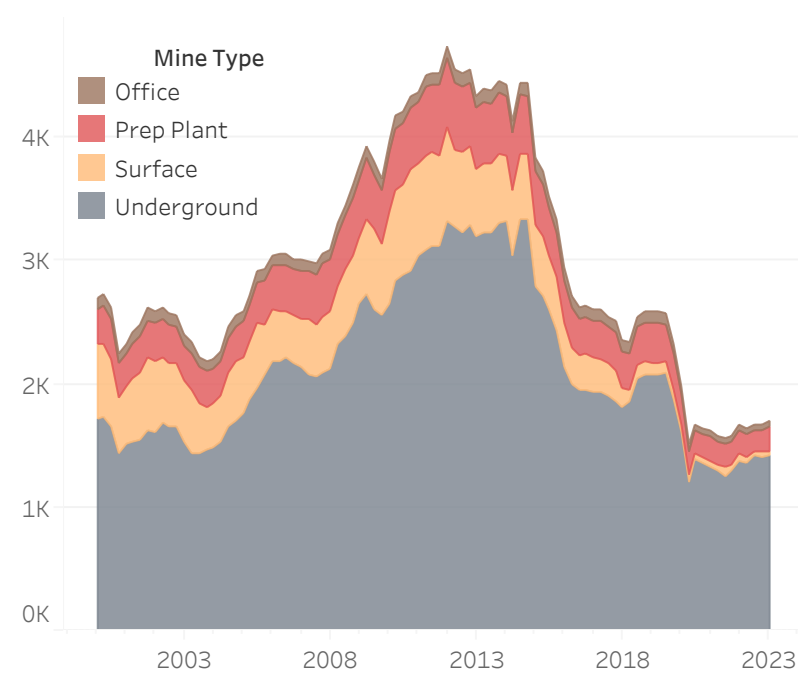
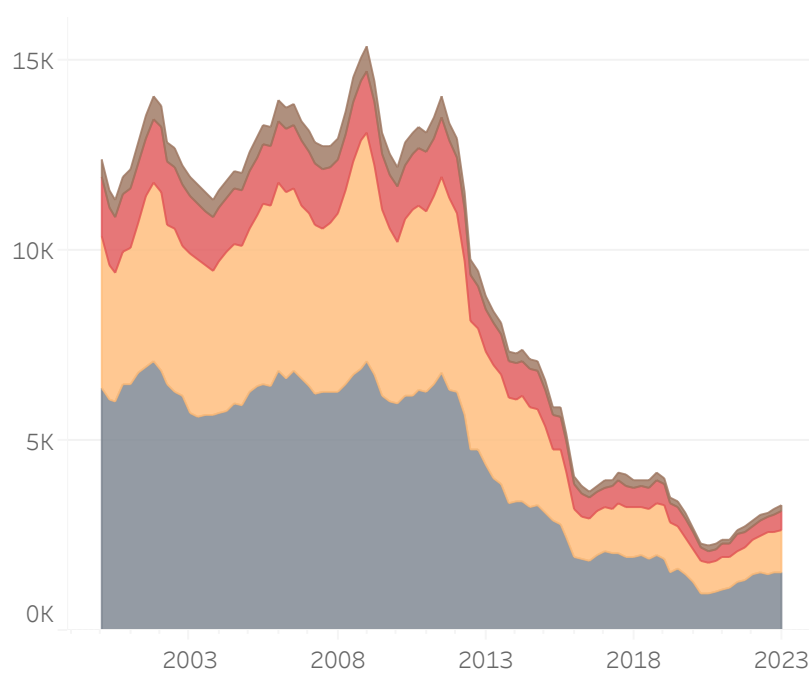


	County Coal Production	YoY change	Qtr change
WKY Total	4,429,858	+ 3.50%	+ 10.01%
union	2,765,633	+ 3.90%	+ 7.86%
hopkins	1,158,518	+ 12.44%	+ 16.04%
muhlenberg	505,707	- 13.96%	+ 8.95%

Employment by Region (2023 - Q1)

East Kentucky Employment by Mine Type (2000 - Q1 to 2023 - Q1)

West Kentucky Employment by Mine Type (2000 - Q1 to 2023 - Q1)



	Emp	YoY pct change	YoY change	Qtr pct change	Qtr change
EKY Total	3,288	+ 14.76%	+423	+ 3.3%	+106
pike	1,133	+ 21.57%	+201	+ 6.4%	+68
harlan	569	+ 16.12%	+79	+ 6.2%	+33
perry	428	- 23.43%	-131	- 0.2%	-1
bell	341	+ 29.17%	+77	+ 3.3%	+11
letcher	187	+ 92.78%	+90	+ 27.2%	+40
leslie	134	+ 0.75%	+1	+ 2.3%	+3
whitley	104	+ 30.00%	+24	+ 0.0%	-
floyd	82	+ 2.50%	+2	- 17.2%	-17
knott	74	+ 25.42%	+15	- 9.8%	-8
johnson	48	- 25.00%	-16	+ 0.0%	-
martin	48	+ 242.86%	+34	- 4.0%	-2
breathitt	46	+ 475.00%	+38	+ 12.2%	+5
knox	42	+ 5.00%	+2	- 25.0%	-14
elliott	16			- 5.9%	-1
morgan	11	+ 10.00%	+1	- 26.7%	-4
boyd	10	+ 25.00%	+2	- 16.7%	-2
clay	7	- 50.00%	-7	- 22.2%	-2
mccreary	4	-	-	+ 0.0%	-
lawrence	2	- 33.33%	-1	- 50.0%	-2
lee	2	-	-	- 33.3%	-1

	Emp	YoY pct change	YoY change	Qtr pct change	Qtr change
WKY Total	1,690	+ 1.50%	+25	+ 1.87%	+31
union	882	+ 9.02%	+73	+ 2.80%	+24
hopkins	490	+ 3.59%	+17	+ 1.24%	+6
muhlenberg	259	- 13.38%	-40	- 1.15%	-3
marshall	39	+ 2.63%	+1	- 2.50%	-1
ohio	20	- 37.50%	-12	+ 33.33%	+5
webster	0		-		-

Total Employees by Mine Type

	Total Workers	YoY pct change	Qtr pct change
Total	4,978	+ 9.89%	+ 2.83%
Underground	2,947	+ 4.10%	+ 0.75%
Surface	1,128	+ 17.01%	+ 3.96%
Preparation Plant	700	+ 24.56%	+ 6.54%
Office	203	+ 17.34%	+ 16.67%

Coal Production Reference Table										
		West			East			Total		
		Production	YoY change	Qtr change	Production	YoY change	Qtr change	Production	YoY change	Qtr change
2023	Q1	4,429,858	+ 3.50%	+ 10.01%	3,147,095	+ 10.31%	+ 4.30%	7,576,953	+ 6.22%	+ 7.56%
2022	Q4	4,026,604	- 2.25%	- 1.93%	3,017,474	+ 8.53%	+ 1.46%	7,044,078	+ 2.10%	- 0.50%
	Q3	4,105,715	+ 6.94%	+ 2.19%	2,974,115	+ 18.94%	- 2.79%	7,079,830	+ 11.67%	+ 0.04%
	Q2	4,017,548	- 1.04%	- 6.13%	3,059,622	+ 19.46%	+ 7.24%	7,077,170	+ 6.89%	- 0.78%
	Q1	4,279,989	+ 0.05%	+ 3.90%	2,853,078	+ 24.16%	+ 2.62%	7,133,067	+ 8.47%	+ 3.39%
2021	Q4	4,119,150	+ 0.49%	+ 7.29%	2,780,271	+ 29.28%	+ 11.18%	6,899,421	+ 10.40%	+ 8.83%
	Q3	3,839,326	- 13.23%	- 5.43%	2,500,590	+ 18.30%	- 2.37%	6,339,916	- 3.04%	- 4.24%
	Q2	4,059,665	+ 58.45%	- 5.10%	2,561,228	+ 41.62%	+ 11.46%	6,620,893	+ 51.49%	+ 0.68%
	Q1	4,278,043	- 11.35%	+ 4.37%	2,297,973	- 5.73%	+ 6.85%	6,576,016	- 9.47%	+ 5.22%
2020	Q4	4,098,927	- 16.08%	- 7.37%	2,150,628	- 23.46%	+ 1.74%	6,249,555	- 18.77%	- 4.42%
	Q3	4,424,915	- 19.27%	+ 72.71%	2,113,836	- 39.31%	+ 16.88%	6,538,751	- 27.06%	+ 49.61%
	Q2	2,562,103	- 55.52%	- 46.91%	1,808,553	- 52.00%	- 25.81%	4,370,656	- 54.13%	- 39.83%
	Q1	4,825,923	- 21.07%	- 1.19%	2,437,690	- 38.58%	- 13.24%	7,263,613	- 27.97%	- 5.60%
2019	Q4	4,884,272	- 14.67%	- 10.89%	2,809,830	- 32.51%	- 19.32%	7,694,102	- 22.18%	- 14.17%
	Q3	5,481,282	- 1.52%	- 4.84%	3,482,826	- 17.76%	- 7.56%	8,964,108	- 8.54%	- 5.92%
	Q2	5,760,256	+ 2.65%	- 5.79%	3,767,634	- 15.57%	- 5.08%	9,527,890	- 5.42%	- 5.51%
	Q1	6,114,327	+ 6.19%	+ 6.82%	3,969,148	- 11.83%	- 4.66%	10,083,475	- 1.72%	+ 1.99%
2018	Q4	5,723,927	+ 7.72%	+ 2.84%	4,163,284	- 10.47%	- 1.69%	9,887,211	- 0.77%	+ 0.88%
	Q3	5,566,036	- 0.31%	- 0.81%	4,234,952	- 0.17%	- 5.10%	9,800,988	- 0.25%	- 2.71%
	Q2	5,611,408	- 5.67%	- 2.54%	4,462,680	- 4.55%	- 0.87%	10,074,088	- 5.18%	- 1.81%
	Q1	5,757,753	- 14.82%	+ 8.36%	4,501,906	- 4.17%	- 3.19%	10,259,659	- 10.46%	+ 2.97%
2017	Q4	5,313,607	- 20.89%	- 4.83%	4,650,046	+ 6.10%	+ 9.62%	9,963,653	- 10.23%	+ 1.41%
	Q3	5,583,324	- 13.63%	- 6.15%	4,242,101	+ 14.60%	- 9.27%	9,825,425	- 3.35%	- 7.52%
	Q2	5,948,923	+ 0.18%	- 11.99%	4,675,556	+ 20.82%	- 0.48%	10,624,479	+ 8.32%	- 7.27%
	Q1	6,759,704	- 0.07%	+ 0.65%	4,697,894	+ 4.69%	+ 7.20%	11,457,598	+ 1.83%	+ 3.23%
2016	Q4	6,716,354	- 6.35%	+ 3.90%	4,382,530	- 21.41%	+ 18.39%	11,098,884	- 12.94%	+ 9.17%
	Q3	6,464,425	- 25.75%	+ 8.86%	3,701,814	- 46.26%	- 4.34%	10,166,239	- 34.81%	+ 3.65%
	Q2	5,938,328	- 29.27%	- 12.21%	3,869,781	- 46.08%	- 13.76%	9,808,109	- 37.02%	- 12.83%
	Q1	6,764,538	- 25.25%	- 5.68%	4,487,280	- 41.39%	- 19.54%	11,251,818	- 32.64%	- 11.74%
2015	Q4	7,171,565	- 26.04%	- 17.63%	5,576,708	- 32.35%	- 19.04%	12,748,273	- 28.94%	- 18.25%
	Q3	8,706,595	- 13.94%	+ 3.70%	6,887,813	- 26.60%	- 4.03%	15,594,408	- 20.03%	+ 0.14%
	Q2	8,396,251	- 12.65%	- 7.22%	7,176,915	- 28.71%	- 6.25%	15,573,166	- 20.87%	- 6.78%
	Q1	9,049,591	- 13.98%	- 6.67%	7,655,645	- 13.84%	- 7.13%	16,705,236	- 13.91%	- 6.88%
2014	Q4	9,695,896	- 2.36%	- 4.16%	8,243,529	- 8.75%	- 12.16%	17,939,425	- 5.40%	- 8.01%
	Q3	10,116,906	- 0.90%	+ 5.25%	9,384,357	- 0.98%	- 6.78%	19,501,263	- 0.94%	- 0.91%
	Q2	9,612,041	- 6.53%	- 8.63%	10,067,336	- 2.11%	+ 13.30%	19,679,377	- 4.32%	+ 1.41%
	Q1	10,519,840	+ 0.70%	+ 5.94%	8,885,552	- 10.76%	- 1.65%	19,405,392	- 4.89%	+ 2.33%
2013	Q4	9,930,116	- 2.76%	- 2.73%	9,034,165	- 11.57%	- 4.68%	18,964,281	- 7.17%	- 3.67%
	Q3	10,209,207	+ 1.30%	- 0.73%	9,477,476	- 13.01%	- 7.85%	19,686,683	- 6.13%	- 4.29%
	Q2	10,283,803	- 0.70%	- 1.55%	10,284,678	- 16.13%	+ 3.29%	20,568,481	- 9.06%	+ 0.81%
	Q1	10,446,242	- 8.36%	+ 2.29%	9,957,406	- 32.51%	- 2.53%	20,403,648	- 21.98%	- 0.12%
2012	Q4	10,212,118	+ 1.02%	+ 1.32%	10,215,917	- 34.28%	- 6.23%	20,428,035	- 20.37%	- 2.60%
	Q3	10,078,665	- 3.70%	- 2.68%	10,894,623	- 35.73%	- 11.15%	20,973,288	- 23.50%	- 7.27%
	Q2	10,356,005	+ 5.26%	- 9.15%	12,262,325	- 28.12%	- 16.88%	22,618,330	- 15.91%	- 13.51%
	Q1	11,399,527	+ 7.44%	+ 12.77%	14,753,095	- 12.46%	- 5.10%	26,152,622	- 4.77%	+ 1.94%
2011	Q4	10,108,522	+ 9.29%	- 3.42%	15,545,221	- 4.87%	- 8.29%	25,653,743	+ 0.25%	- 6.43%
	Q3	10,466,346	+ 10.24%	+ 6.38%	16,950,481	+ 1.61%	- 0.64%	27,416,827	+ 4.74%	+ 1.93%
	Q2	9,838,635	+ 7.28%	- 7.28%	17,059,598	+ 1.10%	+ 1.23%	26,898,233	+ 3.27%	- 2.06%
	Q1	10,610,622	+ 12.63%	+ 14.72%	16,852,971	+ 2.49%	+ 3.13%	27,463,593	+ 6.18%	+ 7.32%
2010	Q4	9,249,023	+ 12.45%	- 2.59%	16,340,827	+ 5.33%	- 2.05%	25,589,850	+ 7.80%	- 2.24%
	Q3	9,494,482	+ 16.80%	+ 3.53%	16,682,361	- 4.46%	- 1.14%	26,176,843	+ 2.29%	+ 0.50%
	Q2	9,171,091	+ 10.95%	- 2.65%	16,874,451	- 9.47%	+ 2.62%	26,045,542	- 3.20%	+ 0.70%

Employment Reference Table										
		West			East			Total		
		Emp	YoY change	Qtr change	Emp	YoY change	Qtr change	Emp	YoY change	Qtr change
2023	Q1	1,690	+ 1.50%	+ 1.87%	3,288	+ 14.76%	+ 3.33%	4,978	+ 9.89%	+ 2.83%
2022	Q4	1,659	+ 5.33%	- 0.84%	3,182	+ 17.37%	+ 2.38%	4,841	+ 12.95%	+ 1.25%
	Q3	1,673	+ 7.38%	+ 2.64%	3,108	+ 18.17%	+ 2.64%	4,781	+ 14.16%	+ 2.64%
	Q2	1,630	+ 3.56%	- 2.10%	3,028	+ 26.80%	+ 5.69%	4,658	+ 17.57%	+ 2.83%
	Q1	1,665	+ 2.97%	+ 5.71%	2,865	+ 19.67%	+ 5.68%	4,530	+ 12.94%	+ 5.69%
2021	Q4	1,575	- 4.08%	+ 1.09%	2,711	+ 19.74%	+ 3.08%	4,286	+ 9.73%	+ 2.34%
	Q3	1,558	- 6.82%	- 1.02%	2,630	+ 18.52%	+ 10.13%	4,188	+ 7.63%	+ 5.70%
	Q2	1,574	+ 4.65%	- 2.66%	2,388	+ 3.83%	- 0.25%	3,962	+ 4.15%	- 1.22%
	Q1	1,617	- 18.00%	- 1.52%	2,394	- 11.17%	+ 5.74%	4,011	- 14.06%	+ 2.69%
2020	Q4	1,642	- 29.44%	- 1.79%	2,264	- 26.68%	+ 2.03%	3,906	- 27.87%	+ 0.39%
	Q3	1,672	- 34.92%	+ 11.17%	2,219	- 34.66%	- 3.52%	3,891	- 34.77%	+ 2.29%
	Q2	1,504	- 41.66%	- 23.73%	2,300	- 34.38%	- 14.66%	3,804	- 37.47%	- 18.49%
	Q1	1,972	- 23.48%	- 15.26%	2,695	- 32.96%	- 12.73%	4,667	- 29.26%	- 13.81%
2019	Q4	2,327	- 9.70%	- 9.42%	3,088	- 25.25%	- 9.07%	5,415	- 19.28%	- 9.22%
	Q3	2,569	+ 1.26%	- 0.35%	3,396	- 13.57%	- 3.11%	5,965	- 7.75%	- 1.94%
	Q2	2,578	+ 10.45%	+ 0.04%	3,505	- 11.56%	- 12.81%	6,083	- 3.40%	- 7.79%
	Q1	2,577	+ 9.85%	+ 0.00%	4,020	+ 1.26%	- 2.69%	6,597	+ 4.45%	- 1.65%
2018	Q4	2,577	+ 3.12%	+ 1.58%	4,131	+ 0.51%	+ 5.14%	6,708	+ 1.50%	+ 3.74%
	Q3	2,537	- 0.20%	+ 8.70%	3,929	- 5.00%	- 0.86%	6,466	- 3.17%	+ 2.68%
	Q2	2,334	- 10.37%	- 0.51%	3,963	- 0.13%	- 0.18%	6,297	- 4.18%	- 0.30%
	Q1	2,346	- 9.56%	- 6.12%	3,970	+ 0.15%	- 3.41%	6,316	- 3.69%	- 4.43%
2017	Q4	2,499	- 5.05%	- 1.69%	4,110	+ 7.87%	- 0.63%	6,609	+ 2.59%	- 1.03%
	Q3	2,542	- 2.61%	- 2.38%	4,136	+ 13.13%	+ 4.23%	6,678	+ 6.58%	+ 1.61%
	Q2	2,604	- 3.70%	+ 0.39%	3,968	+ 4.75%	+ 0.10%	6,572	+ 1.23%	+ 0.21%
	Q1	2,594	- 11.62%	- 1.44%	3,964	- 1.91%	+ 4.04%	6,558	- 5.99%	+ 1.80%
2016	Q4	2,632	- 20.82%	+ 0.84%	3,810	- 26.21%	+ 4.21%	6,442	- 24.10%	+ 2.81%
	Q3	2,610	- 25.87%	- 3.48%	3,656	- 37.54%	- 3.48%	6,266	- 33.16%	- 3.48%
	Q2	2,704	- 27.23%	- 7.87%	3,788	- 35.67%	- 6.26%	6,492	- 32.40%	- 6.94%
	Q1	2,935	- 23.29%	- 11.70%	4,041	- 38.51%	- 21.73%	6,976	- 32.91%	- 17.80%
2015	Q4	3,324	- 24.98%	- 5.60%	5,163	- 27.07%	- 11.79%	8,487	- 26.26%	- 9.46%
	Q3	3,521	- 20.68%	- 5.25%	5,853	- 17.81%	- 0.59%	9,374	- 18.91%	- 2.39%
	Q2	3,716	- 9.92%	- 2.88%	5,888	- 20.14%	- 10.41%	9,604	- 16.47%	- 7.64%
	Q1	3,826	- 13.54%	- 13.65%	6,572	- 9.89%	- 7.16%	10,398	- 11.26%	- 9.66%
2014	Q4	4,431	- 0.40%	- 0.18%	7,079	- 3.78%	- 0.59%	11,510	- 2.51%	- 0.43%
	Q3	4,439	+ 1.63%	+ 7.61%	7,121	- 12.11%	- 3.42%	11,560	- 7.30%	+ 0.54%
	Q2	4,125	- 6.02%	- 6.78%	7,373	- 12.40%	+ 1.10%	11,498	- 10.21%	- 1.88%
	Q1	4,425	+ 2.29%	- 0.54%	7,293	- 17.01%	- 0.87%	11,718	- 10.65%	- 0.75%
2013	Q4	4,449	- 2.07%	+ 1.85%	7,357	- 22.12%	- 9.20%	11,806	- 15.61%	- 5.32%
	Q3	4,368	- 3.23%	- 0.48%	8,102	- 17.08%	- 3.74%	12,470	- 12.71%	- 2.62%
	Q2	4,389	- 3.47%	+ 1.46%	8,417	- 26.88%	- 4.22%	12,806	- 20.25%	- 2.35%
	Q1	4,326	- 8.52%	- 4.78%	8,788	- 32.10%	- 6.97%	13,114	- 25.79%	- 6.25%
2012	Q4	4,543	+ 0.71%	+ 0.64%	9,446	- 29.29%	- 3.33%	13,989	- 21.72%	- 2.07%
	Q3	4,514	+ 0.00%	- 0.73%	9,771	- 30.46%	- 15.12%	14,285	- 23.05%	- 11.04%
	Q2	4,547	+ 1.02%	- 3.85%	11,511	- 14.73%	- 11.06%	16,058	- 10.79%	- 9.13%
	Q1	4,729	+ 8.36%	+ 4.83%	12,942	- 1.36%	- 3.12%	17,671	+ 1.07%	- 1.11%
2011	Q4	4,511	+ 4.37%	- 0.07%	13,359	+ 0.91%	- 4.92%	17,870	+ 1.76%	- 3.74%
	Q3	4,514	+ 7.25%	+ 0.29%	14,051	+ 7.30%	+ 4.08%	18,565	+ 7.29%	+ 3.13%
	Q2	4,501	+ 8.04%	+ 3.14%	13,500	+ 5.21%	+ 2.90%	18,001	+ 5.90%	+ 2.96%
	Q1	4,364	+ 9.81%	+ 0.97%	13,120	+ 7.44%	- 0.90%	17,484	+ 8.03%	- 0.44%
2010	Q4	4,322	+ 18.38%	+ 2.68%	13,239	+ 5.62%	+ 1.10%	17,561	+ 8.49%	+ 1.49%
	Q3	4,209	+ 10.85%	+ 1.03%	13,095	+ 0.06%	+ 2.05%	17,304	+ 2.49%	+ 1.80%
	Q2	4,166	+ 6.06%	+ 4.83%	12,832	- 11.38%	+ 5.09%	16,998	- 7.65%	+ 5.02%