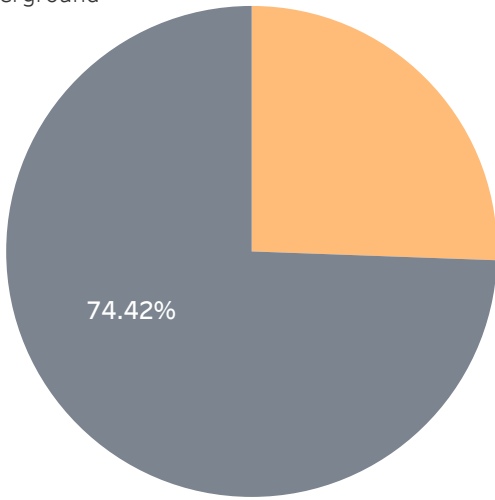
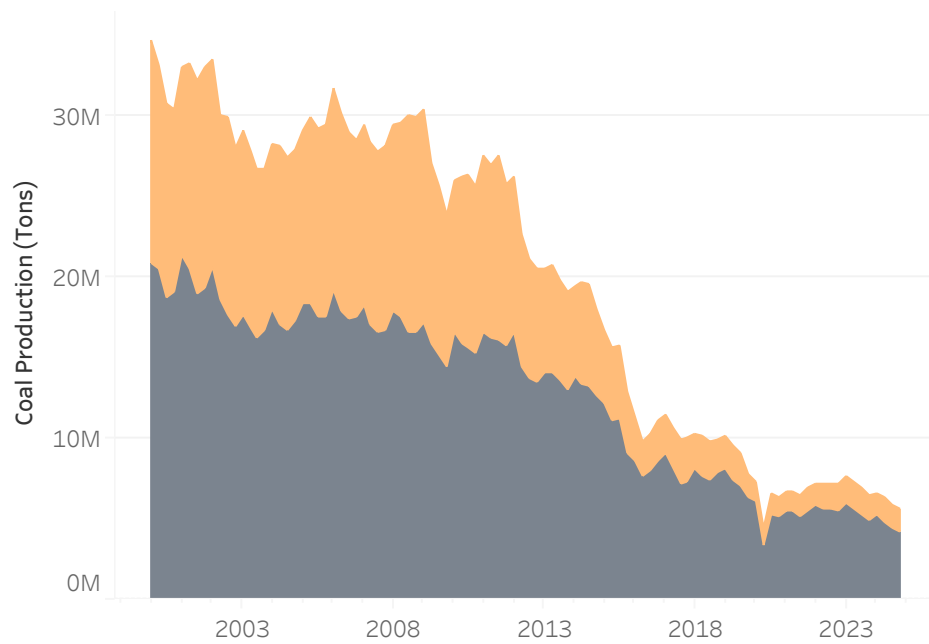


Kentucky Quarterly Coal Report (2024 - Q4)

Mine Type
 Surface
 Underground

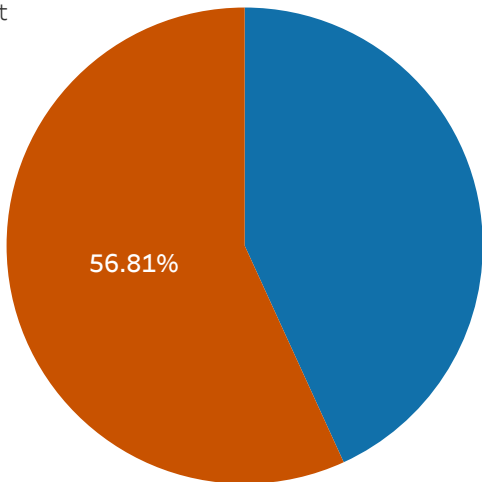


Coal Production by Mine Type (2000 - Q1 to 2024 - Q4)

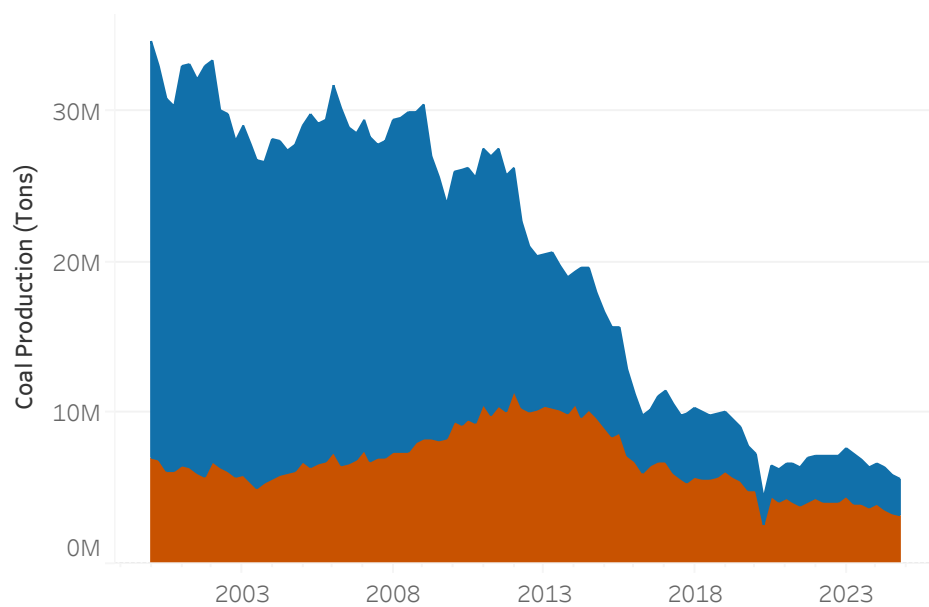


	Production	YoY change	Qtr change
Total	5,580,794	-12.81%	-4.34%
Underground	4,153,121	-14.28%	-5.07%
Surface	1,427,673	-8.23%	-2.16%

Region
 East
 West



Coal Production by Region (2000 - Q1 to 2024 - Q4)

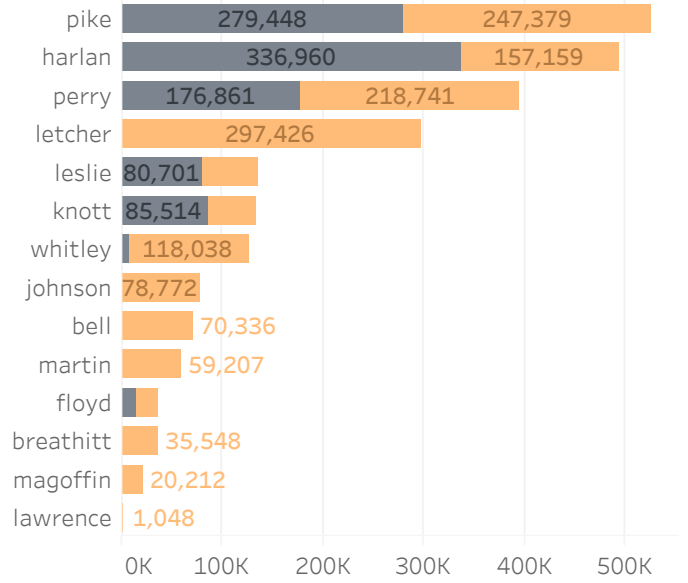
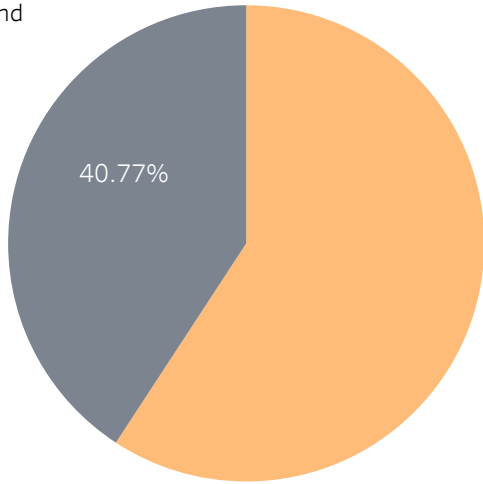


	Production	YoY change	Qtr change
Total	5,580,794	-12.81%	-4.34%
East	2,410,357	-12.91%	-5.07%
West	3,170,437	-12.73%	-3.78%

Eastern Kentucky (2024 - Q4)

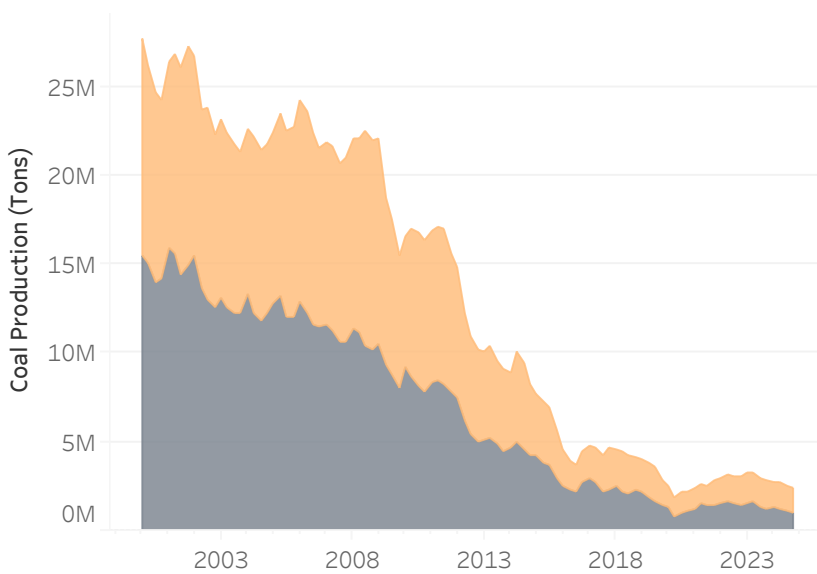
Mine Type

- Surface
- Underground



	Production	YoY change	Qtr change
Total	2,410,357	- 12.91%	- 5.07%
Surface	1,427,673	- 8.23%	- 2.16%
Underground	982,684	- 18.92%	- 8.99%

Eastern Kentucky Coal Production (2000 - Q1 to 2024 - Q4)

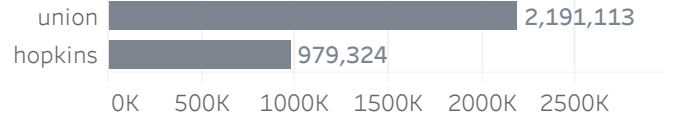
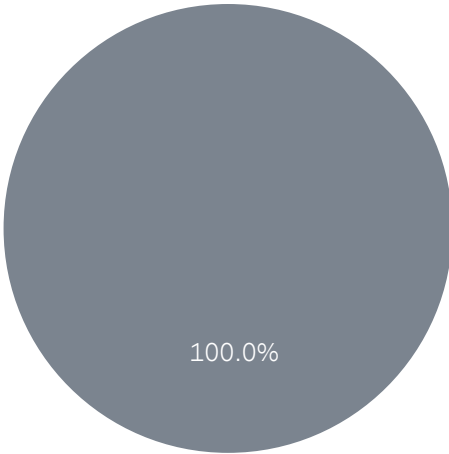


	County Coal Production	YoY change	Qtr change
EKY Total	2,410,357	- 12.91%	- 5.07%
pike	526,827	- 10.86%	- 7.55%
harlan	494,119	- 19.04%	- 17.45%
perry	395,602	- 6.88%	+ 3.44%
letcher	297,946	- 25.98%	- 15.34%
leslie	134,792	- 4.76%	+ 1.39%
knott	133,293	+ 45.41%	+ 48.26%
whitley	125,554	- 9.26%	- 13.85%
johnson	78,772	+ 38.66%	+ 20.88%
bell	70,336	- 47.53%	+ 53.54%
martin	59,207	+ 21.97%	- 6.15%
floyd	37,101	- 54.79%	- 36.53%
breathitt	35,548	- 16.95%	+ 24.81%
magoffin	20,212		+ 633.38%
lawrence	1,048	+ 155.61%	- 15.82%

Western Kentucky (2024 - Q4)

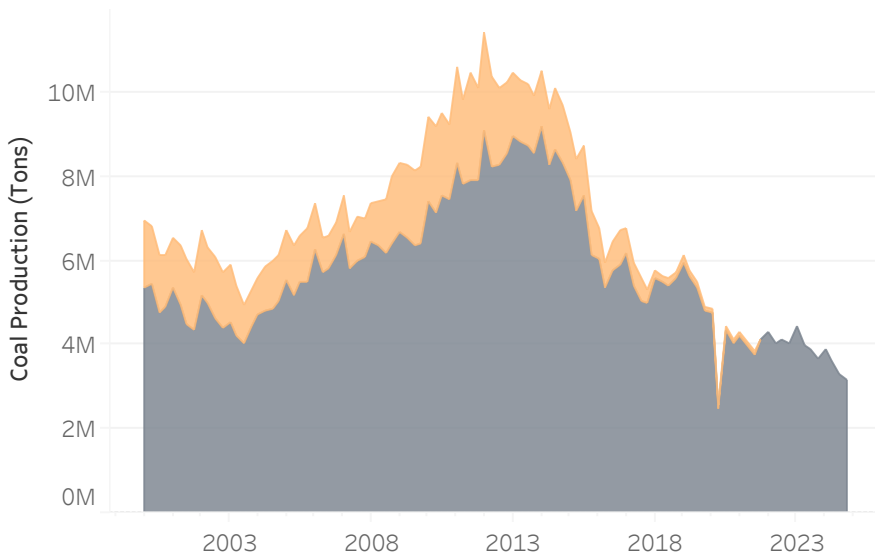
Mine Type

Underground



	Production	YoY change	Qtr change
Total	3,170,437	- 12.73%	- 3.78%
Underground	3,170,437	- 12.73%	- 3.78%
Surface	0		

Western Kentucky Coal Production (2000 - Q1 to 2024 - Q4)

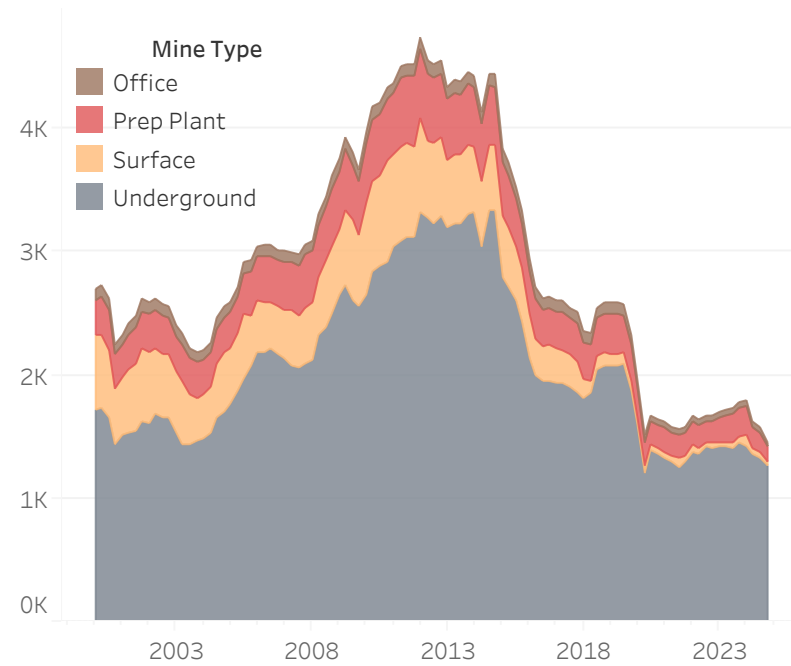
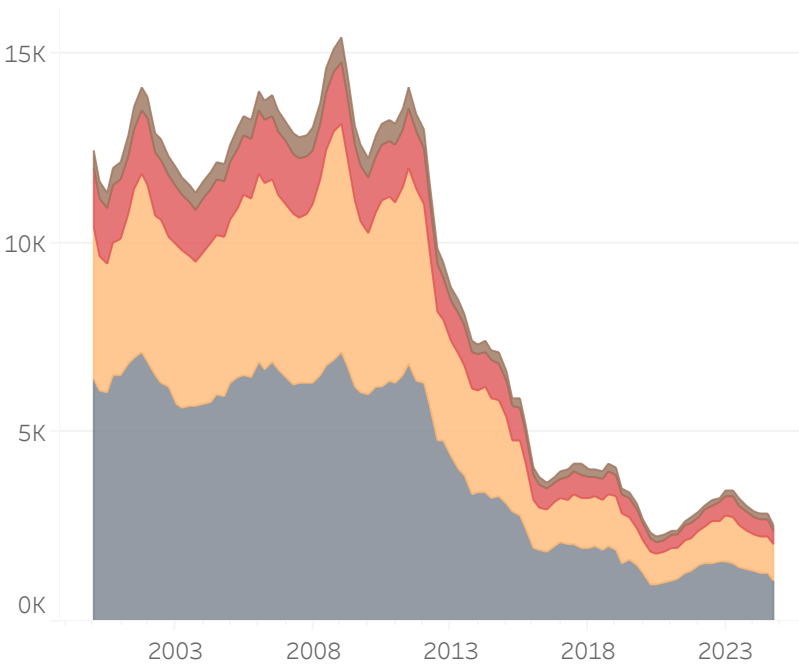


	County Coal Production	YoY change	Qtr change
WKY Total	3,170,437	- 12.73%	- 3.78%
union	2,191,113	+ 1.03%	- 1.28%
hopkins	979,324	- 8.32%	- 8.96%

Employment by Region (2024 - Q4)

East Kentucky Employment by Mine Type (2000 - Q1 to 2024 - Q4)

West Kentucky Employment by Mine Type (2000 - Q1 to 2024 - Q4)



	Emp	YoY pct change	YoY change	Qtr pct change	Qtr change
EKY Total	2,545	-16.39%	-499	-9.7%	-274
pike	758	-4.53%	-36	-7.1%	-58
harlan	645	-5.98%	-41	-10.7%	-77
perry	354	-14.29%	-59	-7.8%	-30
letcher	154	-36.36%	-88	-33.6%	-78
leslie	133	-19.39%	-32	-13.1%	-20
bell	106	-62.01%	-173	-9.4%	-11
knott	101	+9.78%	+9	+44.3%	+31
whitley	92	+6.98%	+6	+9.5%	+8
floyd	57	-51.28%	-60	-29.6%	-24
johnson	42	-4.55%	-2	+5.0%	+2
breathitt	31	-	-	-6.1%	-2
martin	20	-	-	+0.0%	-
magoffin	15	+200.00%	+10	+7.1%	+1
boyd	14	-6.67%	-1	+7.7%	+1
knox	9	-68.97%	-20	-57.1%	-12
clay	7	-56.25%	-9	-46.2%	-6
mccreary	4	-	-	+0.0%	-
lawrence	3	-25.00%	-1	+50.0%	+1
lee	0	-100.00%	-2	-	-

	Emp	YoY pct change	YoY change	Qtr pct change	Qtr change
WKY Total	1,453	-17.96%	-318	-7.75%	-122
union	952	+4.27%	+39	-5.56%	-56
hopkins	483	-2.03%	-10	-0.62%	-3
muhlenberg	11	-96.06%	-268	-45.00%	-9
ohio	7	-76.67%	-23	+0.00%	-
webster	0	-	-	-	-

Total Employees by Mine Type

	Total Workers	YoY pct change	Qtr pct change
Total	3,998	-16.97%	-9.01%
Underground	2,334	-17.20%	-9.32%
Surface	965	-9.98%	-6.67%
Preparation Plant	513	-27.44%	-12.46%
Office	186	-14.29%	-7.00%

Coal Production Reference Table										
		West			East			Total		
		Production	YoY change	Qtr change	Production	YoY change	Qtr change	Production	YoY change	Qtr change
2024	Q4	3,170,437	-12.73%	-3.78%	2,410,357	-12.91%	-5.07%	5,580,794	-12.81%	-4.34%
	Q3	3,295,152	-15.54%	-8.88%	2,538,971	-14.03%	-5.49%	5,834,123	-14.89%	-7.44%
	Q2	3,616,349	-8.88%	-7.14%	2,686,468	-18.24%	-0.28%	6,302,817	-13.12%	-4.34%
	Q1	3,894,434	-12.09%	+7.20%	2,694,141	-16.81%	-2.66%	6,588,575	-14.08%	+2.94%
2023	Q4	3,632,768	-9.78%	-6.89%	2,767,767	-10.12%	-6.29%	6,400,535	-9.93%	-6.63%
	Q3	3,901,458	-4.97%	-1.70%	2,953,493	-3.75%	-10.11%	6,854,951	-4.45%	-5.51%
	Q2	3,968,994	-1.21%	-10.40%	3,285,851	+6.16%	+1.46%	7,254,845	+2.00%	-5.39%
	Q1	4,429,858	+3.50%	+10.01%	3,238,555	+12.23%	+5.17%	7,668,413	+7.02%	+7.91%
2022	Q4	4,026,604	-2.25%	-1.93%	3,079,490	+8.66%	+0.35%	7,106,094	+2.20%	-0.95%
	Q3	4,105,715	+6.94%	+2.19%	3,068,628	+21.60%	-0.86%	7,174,343	+12.75%	+0.87%
	Q2	4,017,548	-1.04%	-6.13%	3,095,204	+19.81%	+7.27%	7,112,752	+7.07%	-0.74%
	Q1	4,279,989	+0.05%	+3.90%	2,885,562	+24.01%	+1.82%	7,165,551	+8.49%	+3.06%
2021	Q4	4,119,150	+0.49%	+7.29%	2,833,948	+31.77%	+12.30%	6,953,098	+11.26%	+9.28%
	Q3	3,839,326	-13.23%	-5.43%	2,523,513	+19.01%	-2.32%	6,362,839	-2.79%	-4.22%
	Q2	4,059,665	+58.45%	-5.10%	2,583,334	+41.91%	+11.02%	6,642,999	+51.58%	+0.58%
	Q1	4,278,043	-11.35%	+4.37%	2,326,942	-5.00%	+8.20%	6,604,985	-9.21%	+5.69%
2020	Q4	4,098,927	-16.08%	-7.37%	2,150,628	-24.59%	+1.42%	6,249,555	-19.22%	-4.52%
	Q3	4,424,915	-19.27%	+72.71%	2,120,427	-40.17%	+16.48%	6,545,342	-27.48%	+49.35%
	Q2	2,562,103	-55.52%	-46.91%	1,820,376	-52.17%	-25.68%	4,382,479	-54.19%	-39.76%
	Q1	4,825,923	-21.07%	-1.19%	2,449,395	-38.30%	-14.12%	7,275,318	-27.85%	-5.96%
2019	Q4	4,884,272	-14.67%	-10.89%	2,852,033	-31.25%	-19.53%	7,736,305	-21.64%	-14.28%
	Q3	5,481,282	-1.52%	-4.84%	3,544,191	-16.12%	-6.89%	9,025,473	-7.82%	-5.66%
	Q2	5,760,256	+2.65%	-5.79%	3,806,324	-14.90%	-4.11%	9,566,580	-5.13%	-5.13%
	Q1	6,114,327	+6.19%	+6.82%	3,969,542	-11.65%	-4.31%	10,083,869	-1.63%	+2.14%
2018	Q4	5,723,927	+7.72%	+2.84%	4,148,239	-10.61%	-1.83%	9,872,166	-0.82%	+0.82%
	Q3	5,566,036	-0.31%	-0.81%	4,225,469	-0.20%	-5.52%	9,791,505	-0.26%	-2.90%
	Q2	5,611,408	-5.67%	-2.54%	4,472,510	-3.88%	-0.46%	10,083,918	-4.88%	-1.63%
	Q1	5,757,753	-14.82%	+8.36%	4,493,115	-4.45%	-3.18%	10,250,868	-10.57%	+2.98%
2017	Q4	5,313,607	-20.89%	-4.83%	4,640,462	+5.60%	+9.60%	9,954,069	-10.41%	+1.39%
	Q3	5,583,324	-13.63%	-6.15%	4,233,969	+14.05%	-9.00%	9,817,293	-3.53%	-7.40%
	Q2	5,948,923	+0.18%	-11.99%	4,652,810	+20.83%	-1.06%	10,601,733	+8.30%	-7.51%
	Q1	6,759,704	-0.07%	+0.65%	4,702,445	+4.79%	+7.02%	11,462,149	+1.87%	+3.16%
2016	Q4	6,716,354	-6.35%	+3.90%	4,394,185	-21.95%	+18.37%	11,110,539	-13.21%	+9.18%
	Q3	6,464,425	-25.75%	+8.86%	3,712,351	-46.63%	-3.59%	10,176,776	-35.02%	+3.96%
	Q2	5,938,328	-29.27%	-12.21%	3,850,729	-46.69%	-14.19%	9,789,057	-37.33%	-13.00%
	Q1	6,764,538	-25.25%	-5.68%	4,487,508	-41.18%	-20.29%	11,252,046	-32.53%	-12.10%
2015	Q4	7,171,565	-26.04%	-17.63%	5,629,737	-31.62%	-19.06%	12,801,302	-28.60%	-18.27%
	Q3	8,706,595	-13.94%	+3.70%	6,955,379	-26.13%	-3.71%	15,661,974	-19.82%	+0.27%
	Q2	8,396,251	-12.65%	-7.22%	7,223,517	-28.08%	-5.31%	15,619,768	-20.53%	-6.35%
	Q1	9,049,591	-13.98%	-6.67%	7,628,593	-13.99%	-7.34%	16,678,184	-13.98%	-6.98%
2014	Q4	9,695,896	-2.36%	-4.16%	8,233,054	-8.90%	-12.56%	17,928,950	-5.47%	-8.21%
	Q3	10,116,906	-0.90%	+5.25%	9,415,876	-1.09%	-6.25%	19,532,782	-1.00%	-0.62%
	Q2	9,612,041	-6.53%	-8.63%	10,043,237	-3.01%	+13.23%	19,655,278	-4.77%	+1.37%
	Q1	10,519,840	+0.70%	+5.94%	8,869,616	-11.43%	-1.85%	19,389,456	-5.23%	+2.23%
2013	Q4	9,930,116	-2.76%	-2.73%	9,037,058	-11.46%	-5.07%	18,967,174	-7.11%	-3.86%
	Q3	10,209,207	+1.30%	-0.73%	9,519,951	-12.79%	-8.07%	19,729,158	-6.03%	-4.41%
	Q2	10,283,803	-0.70%	-1.55%	10,355,209	-15.56%	+3.41%	20,639,012	-8.75%	+0.87%
	Q1	10,446,242	-8.36%	+2.29%	10,013,819	-32.12%	-1.89%	20,460,061	-21.77%	+0.20%
2012	Q4	10,212,118	+1.02%	+1.32%	10,206,870	-34.42%	-6.49%	20,418,988	-20.46%	-2.74%
	Q3	10,078,665	-3.70%	-2.68%	10,915,799	-35.80%	-10.98%	20,994,464	-23.57%	-7.18%
	Q2	10,356,005	+5.26%	-9.15%	12,262,775	-28.23%	-16.88%	22,618,780	-16.00%	-13.51%
	Q1	11,399,527	+7.44%	+12.77%	14,753,095	-12.77%	-5.21%	26,152,622	-4.98%	+1.87%

Employment Reference Table										
		West			East			Total		
		Emp	YoY change	Qtr change	Emp	YoY change	Qtr change	Emp	YoY change	Qtr change
2024	Q4	1,453	-17.96%	-7.75%	2,545	-16.39%	-9.72%	3,998	-16.97%	-9.01%
	Q3	1,575	-8.80%	-2.90%	2,819	-12.43%	-0.18%	4,394	-11.16%	-1.17%
	Q2	1,622	-5.31%	-9.33%	2,824	-17.98%	-2.42%	4,446	-13.77%	-5.06%
	Q1	1,789	+5.86%	+1.02%	2,894	-16.29%	-4.93%	4,683	-9.01%	-2.74%
2023	Q4	1,771	+6.75%	+2.55%	3,044	-6.60%	-5.44%	4,815	-2.09%	-2.65%
	Q3	1,727	+3.23%	+0.82%	3,219	+1.16%	-6.51%	4,946	+1.87%	-4.07%
	Q2	1,713	+5.09%	+1.36%	3,443	+13.07%	-0.40%	5,156	+10.29%	+0.17%
	Q1	1,690	+1.50%	+1.87%	3,457	+19.91%	+6.08%	5,147	+13.17%	+4.66%
2022	Q4	1,659	+5.33%	-0.84%	3,259	+19.46%	+2.42%	4,918	+14.29%	+1.30%
	Q3	1,673	+7.38%	+2.64%	3,182	+20.48%	+4.50%	4,855	+15.62%	+3.85%
	Q2	1,630	+3.56%	-2.10%	3,045	+27.14%	+5.62%	4,675	+17.79%	+2.79%
	Q1	1,665	+2.97%	+5.71%	2,883	+20.13%	+5.68%	4,548	+13.22%	+5.69%
2021	Q4	1,575	-4.08%	+1.09%	2,728	+20.23%	+3.29%	4,303	+10.02%	+2.48%
	Q3	1,558	-6.82%	-1.02%	2,641	+18.80%	+10.27%	4,199	+7.80%	+5.79%
	Q2	1,574	+4.65%	-2.66%	2,395	+3.46%	-0.21%	3,969	+3.93%	-1.19%
	Q1	1,617	-18.00%	-1.52%	2,400	-11.34%	+5.77%	4,017	-14.15%	+2.71%
2020	Q4	1,642	-29.44%	-1.79%	2,269	-26.95%	+2.07%	3,911	-28.01%	+0.41%
	Q3	1,672	-34.92%	+11.17%	2,223	-34.81%	-3.97%	3,895	-34.86%	+1.99%
	Q2	1,504	-41.66%	-23.73%	2,315	-34.20%	-14.48%	3,819	-37.35%	-18.38%
	Q1	1,972	-23.48%	-15.26%	2,707	-32.93%	-12.85%	4,679	-29.25%	-13.88%
2019	Q4	2,327	-9.70%	-9.42%	3,106	-25.07%	-8.91%	5,433	-19.18%	-9.13%
	Q3	2,569	+1.26%	-0.35%	3,410	-13.58%	-3.07%	5,979	-7.77%	-1.92%
	Q2	2,578	+10.45%	+0.04%	3,518	-11.61%	-12.83%	6,096	-3.45%	-7.82%
	Q1	2,577	+9.85%	+0.00%	4,036	+1.28%	-2.63%	6,613	+4.45%	-1.62%
2018	Q4	2,577	+3.12%	+1.58%	4,145	+0.41%	+5.04%	6,722	+1.43%	+3.69%
	Q3	2,537	-0.20%	+8.70%	3,946	-4.82%	-0.85%	6,483	-3.07%	+2.68%
	Q2	2,334	-10.37%	-0.51%	3,980	+0.10%	-0.13%	6,314	-4.04%	-0.27%
	Q1	2,346	-9.56%	-6.12%	3,985	+0.30%	-3.46%	6,331	-3.59%	-4.47%
2017	Q4	2,499	-5.05%	-1.69%	4,128	+8.03%	-0.43%	6,627	+2.70%	-0.91%
	Q3	2,542	-2.61%	-2.38%	4,146	+13.19%	+4.28%	6,688	+6.62%	+1.64%
	Q2	2,604	-3.70%	+0.39%	3,976	+5.07%	+0.08%	6,580	+1.42%	+0.20%
	Q1	2,594	-11.62%	-1.44%	3,973	-1.78%	+3.98%	6,567	-5.92%	+1.77%
2016	Q4	2,632	-20.82%	+0.84%	3,821	-26.08%	+4.31%	6,453	-24.02%	+2.87%
	Q3	2,610	-25.87%	-3.48%	3,663	-37.51%	-3.20%	6,273	-33.15%	-3.31%
	Q2	2,704	-27.23%	-7.87%	3,784	-35.81%	-6.45%	6,488	-32.49%	-7.05%
	Q1	2,935	-23.29%	-11.70%	4,045	-38.48%	-21.75%	6,980	-32.89%	-17.81%
2015	Q4	3,324	-24.98%	-5.60%	5,169	-27.02%	-11.82%	8,493	-26.24%	-9.49%
	Q3	3,521	-20.68%	-5.25%	5,862	-17.76%	-0.56%	9,383	-18.88%	-2.37%
	Q2	3,716	-9.92%	-2.88%	5,895	-20.10%	-10.34%	9,611	-16.45%	-7.60%
	Q1	3,826	-13.54%	-13.65%	6,575	-9.98%	-7.17%	10,401	-11.32%	-9.67%
2014	Q4	4,431	-0.40%	-0.18%	7,083	-4.01%	-0.63%	11,514	-2.65%	-0.46%
	Q3	4,439	+1.63%	+7.61%	7,128	-12.25%	-3.39%	11,567	-7.40%	+0.56%
	Q2	4,125	-6.02%	-6.78%	7,378	-12.67%	+1.01%	11,503	-10.39%	-1.93%
	Q1	4,425	+2.29%	-0.54%	7,304	-17.18%	-1.02%	11,729	-10.77%	-0.84%
2013	Q4	4,449	-2.07%	+1.85%	7,379	-22.10%	-9.16%	11,828	-15.61%	-5.31%
	Q3	4,368	-3.23%	-0.48%	8,123	-17.14%	-3.85%	12,491	-12.75%	-2.70%
	Q2	4,389	-3.47%	+1.46%	8,448	-26.82%	-4.21%	12,837	-20.22%	-2.34%
	Q1	4,326	-8.52%	-4.78%	8,819	-31.98%	-6.90%	13,145	-25.71%	-6.21%
2012	Q4	4,543	+0.71%	+0.64%	9,473	-29.16%	-3.37%	14,016	-21.62%	-2.10%
	Q3	4,514	+0.00%	-0.73%	9,803	-30.29%	-15.08%	14,317	-22.93%	-11.02%
	Q2	4,547	+1.02%	-3.85%	11,544	-14.56%	-10.97%	16,091	-10.67%	-9.06%
	Q1	4,729	+8.36%	+4.83%	12,966	-1.23%	-3.04%	17,695	+1.17%	-1.05%