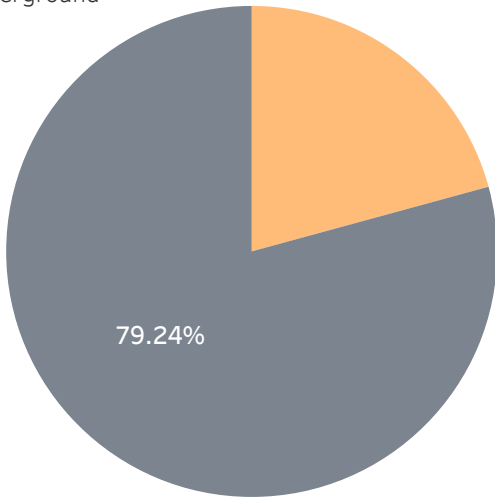
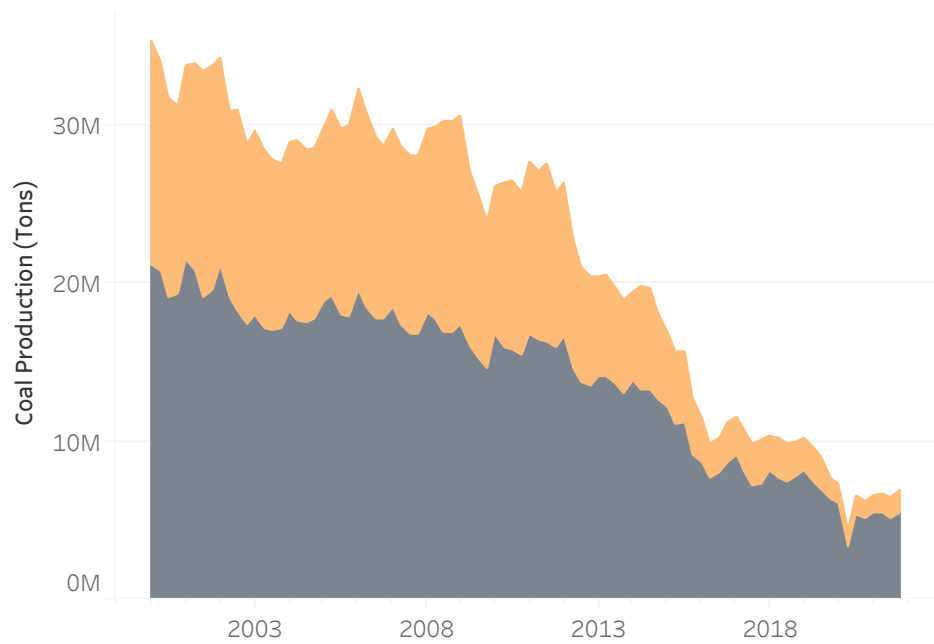


Kentucky Quarterly Coal Report (2021 - Q4)

Mine Type
 Surface
 Underground



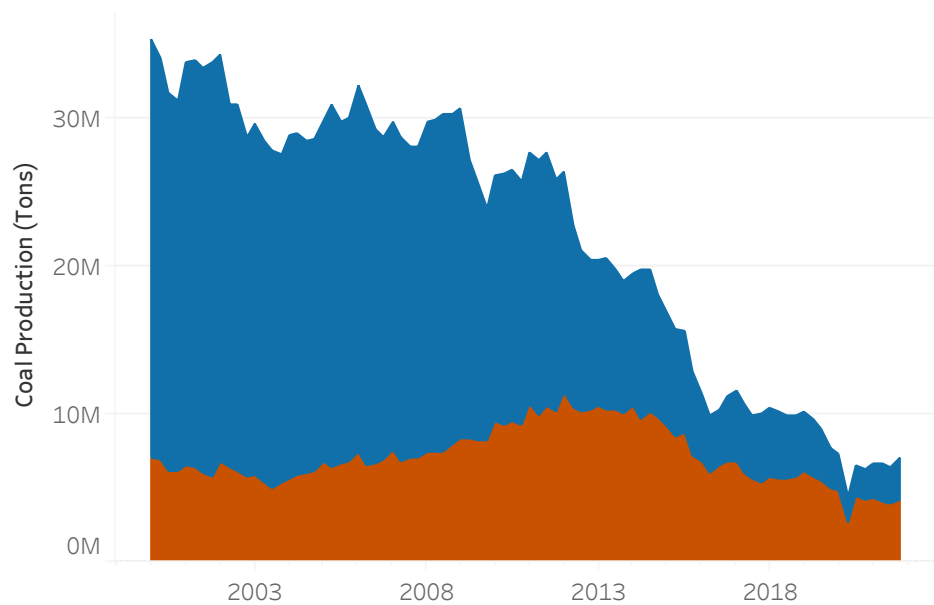
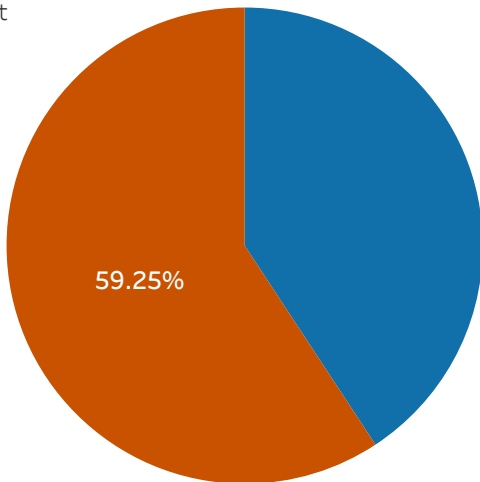
Coal Production by Mine Type (2000 - Q1 to 2021 - Q4)



	Production	YoY change	Qtr change
Total	6,952,159	+ 12.55%	+ 8.78%
Underground	5,509,143	+ 8.93%	+ 7.78%
Surface	1,443,016	+ 28.93%	+ 12.76%

Coal Production by Region (2000 - Q1 to 2021 - Q4)

Region
 East
 West

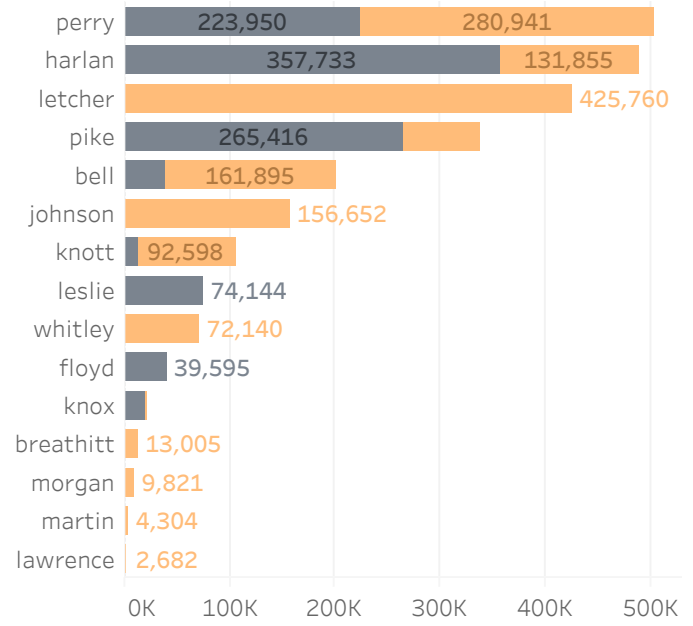
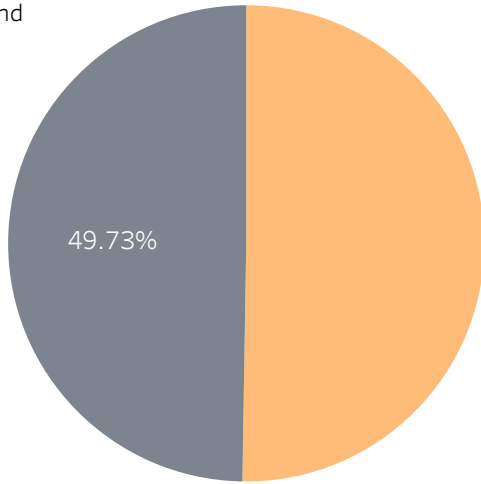


	Production	YoY change	Qtr change
Total	6,952,159	+ 12.55%	+ 8.78%
East	2,833,009	+ 36.34%	+ 11.02%
West	4,119,150	+ 0.49%	+ 7.29%

Eastern Kentucky (2021 - Q4)

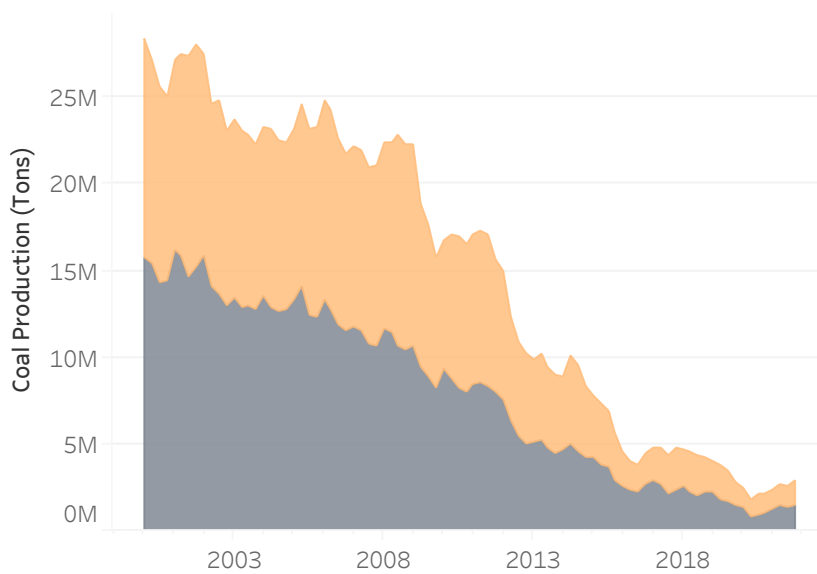
Mine Type

- Surface
- Underground



	Production	YoY change	Qtr change
Total	2,833,009	+ 36.34%	+ 11.02%
Surface	1,424,103	+ 35.59%	+ 19.02%
Underground	1,408,906	+ 37.11%	+ 3.96%

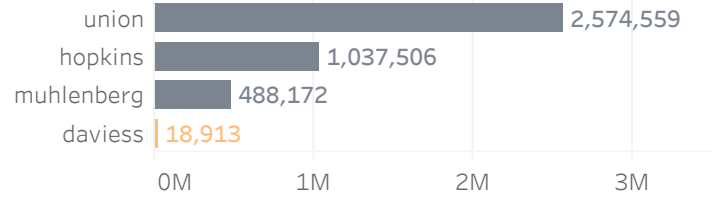
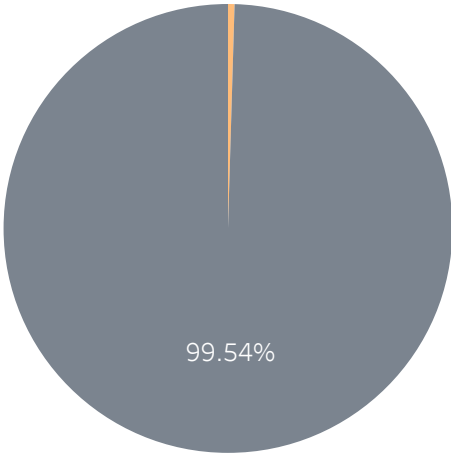
Eastern Kentucky Coal Production (2000 - Q1 to 2021 - Q4)



	County Coal Pro..	YoY change	Qtr change
EKY Total	2,833,009	+ 36.34%	+ 11.02%
pike	714,230	+ 21.05%	+ 7.04%
perry	504,891	+ 13.58%	+ 10.05%
harlan	489,588	+ 19.33%	- 2.64%
letcher	425,760	+ 1,683.51%	+ 51.85%
bell	200,981	+ 100.25%	+ 14.05%
johnson	156,652	+ 39.69%	+ 11.79%
knott	105,224	- 11.25%	+ 23.13%
leslie	74,144	- 49.24%	- 11.23%
whitley	72,140	+ 24.67%	- 3.65%
floyd	39,595	+ 115.86%	- 4.64%
knox	19,992	- 25.18%	+ 6.05%
breathitt	13,005		+ 509.99%
morgan	9,821	+ 33.75%	
martin	4,304	- 80.20%	- 71.90%
lawrence	2,682		+ 2,430.19%

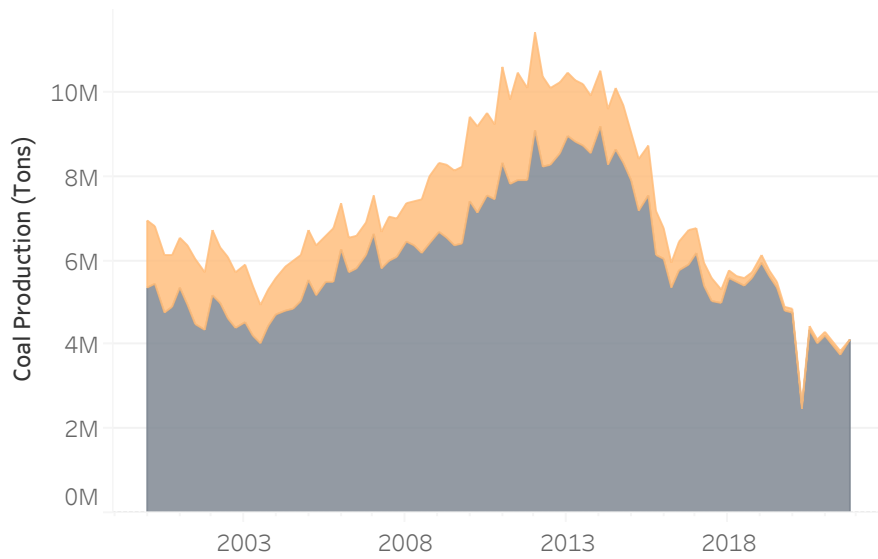
Western Kentucky (2021 - Q4)

Mine Type
■ Surface
■ Underground



	Production	YoY change	Qtr change
Total	4,119,150	+ 0.49%	+ 7.29%
Underground	4,100,237	+ 1.74%	+ 9.16%
Surface	18,913	- 72.57%	- 77.27%

Western Kentucky Coal Production (2000 - Q1 to 2021 - Q4)

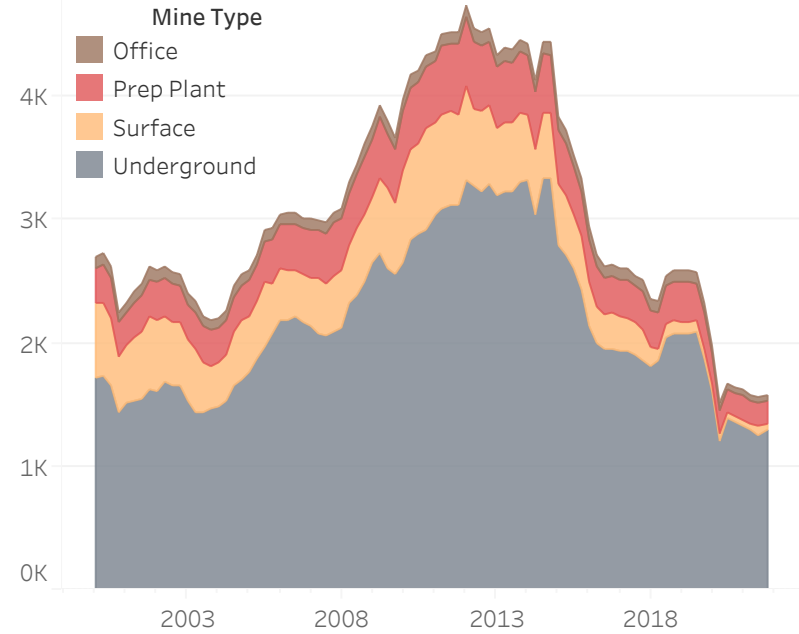
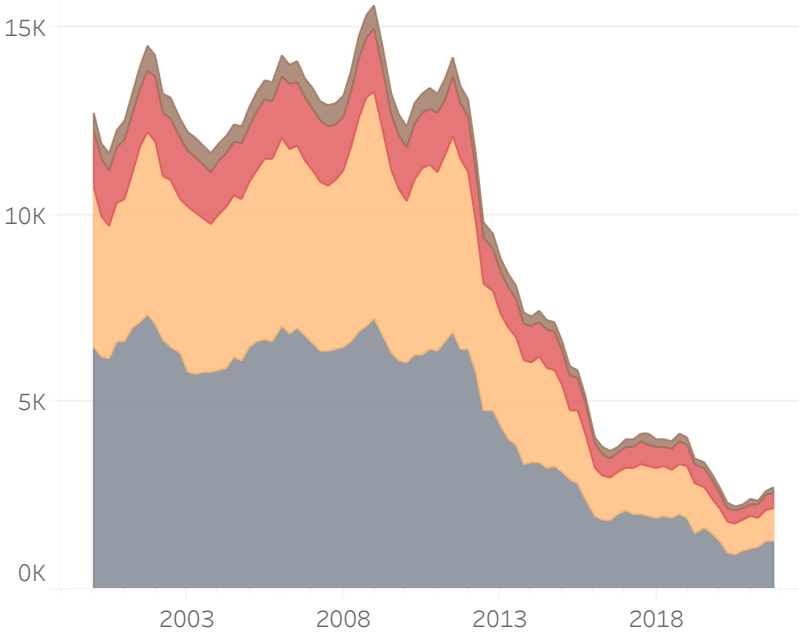


	County Coal Production	YoY change	Qtr change
WKY Total	4,119,150	+ 0.49%	+ 7.29%
union	2,574,559	+ 2.31%	+ 10.70%
hopkins	1,037,506	+ 9.46%	+ 8.74%
muhlenberg	488,172	- 13.70%	+ 2.47%
daviess	18,913	- 72.57%	- 77.27%

Employment by Region (2021 - Q4)

East Kentucky Employment by Mine Type (2000 - Q1 to 2021 - Q4)

West Kentucky Employment by Mine Type (2000 - Q1 to 2021 - Q4)



	Emp	YoY pct change	YoY change	Qtr pct change	Qtr change
EKY Total	2,702	+19.24%	+436	+2.5%	+65
pike	852	+12.70%	+96	+8.7%	+68
perry	500	+37.74%	+137	+2.5%	+12
harlan	452	+24.86%	+90	-5.6%	-27
bell	270	+42.11%	+80	+9.8%	+24
leslie	127	-27.01%	-47	+8.5%	+10
letcher	101	+146.34%	+60	+1.0%	+1
floyd	77	+28.33%	+17	+14.9%	+10
knott	75	-21.05%	-20	-12.8%	-11
whitley	73	-1.35%	-1	-8.8%	-7
johnson	65	+14.04%	+8	+6.6%	+4
knox	38	-15.56%	-7	+2.7%	+1
clay	16	+14.29%	+2	+6.7%	+1
martin	16	+433.33%	+13	-63.6%	-28
boyd	13	+18.18%	+2	+8.3%	+1
breathitt	8	+300.00%	+6	+166.7%	+5
morgan	6	+50.00%	+2	inf	+6
magoffin	4	-	-	+0.0%	-
mccreary	4	-	-	+0.0%	-
lawrence	3	-25.00%	-1	+0.0%	-
lee	2			+0.0%	-

	Emp	YoY pct change	YoY change	Qtr pct change	Qtr change
WKY Total	1,575	-4.08%	-67	+1.09%	+17
union	784	-4.39%	-36	+2.35%	+18
hopkins	450	-2.39%	-11	+5.63%	+24
muhlenberg	252	-4.18%	-11	-3.45%	-9
marshall	41	+5.13%	+2	-4.65%	-2
ohio	25	+13.64%	+3	-19.35%	-6
daviess	23	-25.81%	-8	-25.81%	-8

Total Employees by Mine Type

	Total Workers	YoY pct change	Qtr pct change
Total	4,277	+9.44%	+1.95%
Underground	2,583	+9.77%	+2.70%
Surface	924	+5.36%	+2.67%
Preparation Plant	601	+18.07%	-2.44%
Office	169	+0.00%	+3.05%

Coal Production Reference Table										
		West			East			Total		
		Production	YoY change	Qtr change	Production	YoY change	Qtr change	Production	YoY change	Qtr change
2021	Q4	4,119,150	+ 0.49%	+ 7.29%	2,833,009	+ 36.34%	+ 11.02%	6,952,159	+ 12.55%	+ 8.78%
	Q3	3,839,326	- 13.23%	- 5.43%	2,551,727	+ 22.89%	- 2.52%	6,391,053	- 1.70%	- 4.29%
	Q2	4,059,665	+ 58.45%	- 5.10%	2,617,588	+ 46.26%	+ 14.19%	6,677,253	+ 53.44%	+ 1.63%
	Q1	4,278,043	- 11.35%	+ 4.37%	2,292,337	- 4.64%	+ 10.32%	6,570,380	- 9.12%	+ 6.37%
2020	Q4	4,098,927	- 16.08%	- 7.37%	2,077,846	- 24.69%	+ 0.07%	6,176,773	- 19.19%	- 4.99%
	Q3	4,424,915	- 19.27%	+ 72.71%	2,076,401	- 40.04%	+ 16.02%	6,501,316	- 27.31%	+ 49.40%
	Q2	2,562,103	- 55.52%	- 46.91%	1,789,650	- 52.74%	- 25.55%	4,351,753	- 54.42%	- 39.81%
	Q1	4,825,923	- 21.07%	- 1.19%	2,403,944	- 40.08%	- 12.87%	7,229,867	- 28.60%	- 5.41%
2019	Q4	4,884,272	- 14.67%	- 10.89%	2,759,154	- 33.67%	- 20.32%	7,643,426	- 22.67%	- 14.54%
	Q3	5,481,282	- 1.52%	- 4.84%	3,462,771	- 19.00%	- 8.55%	8,944,053	- 9.11%	- 6.31%
	Q2	5,760,256	+ 2.65%	- 5.79%	3,786,533	- 16.25%	- 5.62%	9,546,789	- 5.78%	- 5.72%
	Q1	6,114,327	+ 6.19%	+ 6.82%	4,011,823	- 12.90%	- 3.56%	10,126,150	- 2.29%	+ 2.45%
2018	Q4	5,723,927	+ 7.72%	+ 2.84%	4,160,014	- 11.97%	- 2.69%	9,883,941	- 1.55%	+ 0.44%
	Q3	5,566,036	- 0.31%	- 0.81%	4,274,797	- 0.05%	- 5.45%	9,840,833	- 0.20%	- 2.88%
	Q2	5,611,408	- 5.67%	- 2.54%	4,521,399	- 4.15%	- 1.83%	10,132,807	- 5.00%	- 2.23%
	Q1	5,757,753	- 14.82%	+ 8.36%	4,605,857	- 3.27%	- 2.53%	10,363,610	- 10.05%	+ 3.23%
2017	Q4	5,313,607	- 20.89%	- 4.83%	4,725,567	+ 6.12%	+ 10.48%	10,039,174	- 10.12%	+ 1.81%
	Q3	5,583,324	- 13.63%	- 6.15%	4,277,138	+ 13.44%	- 9.33%	9,860,462	- 3.66%	- 7.55%
	Q2	5,948,923	+ 0.18%	- 11.99%	4,717,177	+ 19.70%	- 0.93%	10,666,100	+ 7.97%	- 7.42%
	Q1	6,759,704	- 0.07%	+ 0.65%	4,761,666	+ 3.98%	+ 6.93%	11,521,370	+ 1.56%	+ 3.15%
2016	Q4	6,716,354	- 6.35%	+ 3.90%	4,453,095	- 20.56%	+ 18.10%	11,169,449	- 12.58%	+ 9.13%
	Q3	6,464,425	- 25.75%	+ 8.86%	3,770,467	- 45.49%	- 4.32%	10,234,892	- 34.49%	+ 3.60%
	Q2	5,938,328	- 29.27%	- 12.21%	3,940,873	- 45.72%	- 13.94%	9,879,201	- 36.90%	- 12.91%
	Q1	6,764,538	- 25.25%	- 5.68%	4,579,418	- 40.89%	- 18.31%	11,343,956	- 32.46%	- 11.22%
2015	Q4	7,171,565	- 26.04%	- 17.63%	5,605,880	- 32.65%	- 18.96%	12,777,445	- 29.09%	- 18.22%
	Q3	8,706,595	- 13.94%	+ 3.70%	6,917,488	- 27.61%	- 4.72%	15,624,083	- 20.58%	- 0.21%
	Q2	8,396,251	- 12.65%	- 7.22%	7,260,178	- 28.11%	- 6.29%	15,656,429	- 20.57%	- 6.79%
	Q1	9,049,591	- 13.98%	- 6.67%	7,747,488	- 13.00%	- 6.93%	16,797,079	- 13.53%	- 6.79%
2014	Q4	9,695,896	- 2.36%	- 4.16%	8,324,001	- 7.71%	- 12.89%	18,019,897	- 4.91%	- 8.40%
	Q3	10,116,906	- 0.90%	+ 5.25%	9,556,153	+ 1.18%	- 5.38%	19,673,059	+ 0.10%	- 0.19%
	Q2	9,612,041	- 6.53%	- 8.63%	10,099,090	- 1.01%	+ 13.41%	19,711,131	- 3.78%	+ 1.48%
	Q1	10,519,840	+ 0.70%	+ 5.94%	8,904,718	- 10.13%	- 1.28%	19,424,558	- 4.57%	+ 2.50%
2013	Q4	9,930,116	- 2.76%	- 2.73%	9,019,849	- 11.40%	- 4.50%	18,949,965	- 7.08%	- 3.58%
	Q3	10,209,207	+ 1.30%	- 0.73%	9,444,935	- 13.24%	- 7.42%	19,654,142	- 6.25%	- 4.06%
	Q2	10,283,803	- 0.70%	- 1.55%	10,201,653	- 17.21%	+ 2.96%	20,485,456	- 9.67%	+ 0.64%
	Q1	10,446,242	- 8.36%	+ 2.29%	9,908,066	- 33.54%	- 2.68%	20,354,308	- 22.63%	- 0.19%
2012	Q4	10,212,118	+ 1.02%	+ 1.32%	10,180,982	- 34.93%	- 6.48%	20,393,100	- 20.82%	- 2.73%
	Q3	10,078,665	- 3.70%	- 2.68%	10,886,205	- 36.36%	- 11.65%	20,964,870	- 23.96%	- 7.55%
	Q2	10,356,005	+ 5.26%	- 9.15%	12,321,911	- 28.58%	- 17.35%	22,677,916	- 16.29%	- 13.80%
	Q1	11,399,527	+ 7.44%	+ 12.77%	14,908,495	- 12.52%	- 4.71%	26,308,022	- 4.86%	+ 2.15%
2011	Q4	10,108,522	+ 9.29%	- 3.42%	15,645,420	- 5.15%	- 8.54%	25,753,942	+ 0.04%	- 6.60%
	Q3	10,466,346	+ 10.24%	+ 6.38%	17,106,204	+ 1.09%	- 0.85%	27,572,550	+ 4.38%	+ 1.78%
	Q2	9,838,635	+ 7.28%	- 7.28%	17,252,139	+ 0.99%	+ 1.23%	27,090,774	+ 3.19%	- 2.03%
	Q1	10,610,622	+ 12.63%	+ 14.72%	17,042,376	+ 2.18%	+ 3.32%	27,652,998	+ 5.95%	+ 7.42%
2010	Q4	9,249,023	+ 12.45%	- 2.59%	16,494,366	+ 5.10%	- 2.53%	25,743,389	+ 7.63%	- 2.55%
	Q3	9,494,482	+ 16.80%	+ 3.53%	16,922,074	- 3.94%	- 0.94%	26,416,556	+ 2.61%	+ 0.62%
	Q2	9,171,091	+ 10.95%	- 2.65%	17,082,842	- 9.18%	+ 2.42%	26,253,933	- 3.03%	+ 0.59%
	Q1	9,421,068	+ 13.06%	+ 14.55%	16,678,615	- 24.94%	+ 6.28%	26,099,683	- 14.57%	+ 9.12%
2009	Q4	8,224,772	+ 3.14%	+ 1.18%	15,693,233	- 29.37%	- 10.91%	23,918,005	- 20.78%	- 7.09%
	Q3	8,128,670	+ 9.45%	- 1.66%	17,615,392	- 22.60%	- 6.35%	25,744,062	- 14.71%	- 4.92%
	Q2	8,266,060	+ 11.58%	- 0.80%	18,809,565	- 15.95%	- 15.35%	27,075,625	- 9.11%	- 11.38%
	Q1	8,332,597	+ 13.24%	+ 4.49%	22,219,696	- 0.42%	+ 0.00%	30,552,293	+ 2.97%	+ 1.19%

Employment Reference Table										
		West			East			Total		
		Emp	YoY change	Qtr change	Emp	YoY change	Qtr change	Emp	YoY change	Qtr change
2021	Q4	1,575	-4.08%	+1.09%	2,702	+19.24%	+2.46%	4,277	+9.44%	+1.95%
	Q3	1,558	-6.82%	-1.02%	2,637	+18.84%	+10.66%	4,195	+7.81%	+6.01%
	Q2	1,574	+4.65%	-2.66%	2,383	+3.79%	-0.54%	3,957	+4.13%	-1.40%
	Q1	1,617	-18.00%	-1.52%	2,396	-10.96%	+5.74%	4,013	-13.94%	+2.69%
2020	Q4	1,642	-29.44%	-1.79%	2,266	-26.38%	+2.12%	3,908	-27.70%	+0.44%
	Q3	1,672	-34.92%	+11.17%	2,219	-34.58%	-3.35%	3,891	-34.73%	+2.39%
	Q2	1,504	-41.66%	-23.73%	2,296	-34.51%	-14.68%	3,800	-37.54%	-18.51%
	Q1	1,972	-23.48%	-15.26%	2,691	-33.29%	-12.57%	4,663	-29.47%	-13.73%
2019	Q4	2,327	-9.70%	-9.42%	3,078	-25.71%	-9.26%	5,405	-19.57%	-9.33%
	Q3	2,569	+1.26%	-0.35%	3,392	-14.13%	-3.25%	5,961	-8.11%	-2.02%
	Q2	2,578	+10.45%	+0.04%	3,506	-11.98%	-13.09%	6,084	-3.69%	-7.97%
	Q1	2,577	+9.85%	+0.00%	4,034	+1.15%	-2.63%	6,611	+4.37%	-1.62%
2018	Q4	2,577	+3.12%	+1.58%	4,143	+0.36%	+4.89%	6,720	+1.40%	+3.59%
	Q3	2,537	-0.20%	+8.70%	3,950	-4.98%	-0.83%	6,487	-3.16%	+2.69%
	Q2	2,334	-10.37%	-0.51%	3,983	-0.13%	-0.13%	6,317	-4.17%	-0.27%
	Q1	2,346	-9.56%	-6.12%	3,988	+0.05%	-3.39%	6,334	-3.74%	-4.42%
2017	Q4	2,499	-5.05%	-1.69%	4,128	+8.40%	-0.70%	6,627	+2.90%	-1.07%
	Q3	2,542	-2.61%	-2.38%	4,157	+13.21%	+4.24%	6,699	+6.64%	+1.62%
	Q2	2,604	-3.70%	+0.39%	3,988	+4.59%	+0.05%	6,592	+1.15%	+0.18%
	Q1	2,594	-11.62%	-1.44%	3,986	-2.14%	+4.67%	6,580	-6.11%	+2.17%
2016	Q4	2,632	-20.82%	+0.84%	3,808	-26.44%	+3.70%	6,440	-24.24%	+2.52%
	Q3	2,610	-25.87%	-3.48%	3,672	-37.32%	-3.70%	6,282	-33.02%	-3.61%
	Q2	2,704	-27.23%	-7.87%	3,813	-35.65%	-6.38%	6,517	-32.40%	-7.01%
	Q1	2,935	-23.29%	-11.70%	4,073	-38.44%	-21.33%	7,008	-32.89%	-17.56%
2015	Q4	3,324	-24.98%	-5.60%	5,177	-27.25%	-11.63%	8,501	-26.38%	-9.36%
	Q3	3,521	-20.68%	-5.25%	5,858	-18.24%	-1.13%	9,379	-19.17%	-2.72%
	Q2	3,716	-9.92%	-2.88%	5,925	-20.01%	-10.44%	9,641	-16.40%	-7.67%
	Q1	3,826	-13.54%	-13.65%	6,616	-9.38%	-7.03%	10,442	-10.95%	-9.57%
2014	Q4	4,431	-0.40%	-0.18%	7,116	-3.29%	-0.68%	11,547	-2.20%	-0.49%
	Q3	4,439	+1.63%	+7.61%	7,165	-11.53%	-3.27%	11,604	-6.92%	+0.62%
	Q2	4,125	-6.02%	-6.78%	7,407	-11.78%	+1.45%	11,532	-9.80%	-1.65%
	Q1	4,425	+2.29%	-0.54%	7,301	-16.99%	-0.77%	11,726	-10.63%	-0.69%
2013	Q4	4,449	-2.07%	+1.85%	7,358	-22.32%	-9.15%	11,807	-15.75%	-5.29%
	Q3	4,368	-3.23%	-0.48%	8,099	-17.24%	-3.54%	12,467	-12.82%	-2.49%
	Q2	4,389	-3.47%	+1.46%	8,396	-27.84%	-4.54%	12,785	-21.00%	-2.56%
	Q1	4,326	-8.52%	-4.78%	8,795	-32.80%	-7.15%	13,121	-26.36%	-6.38%
2012	Q4	4,543	+0.71%	+0.64%	9,472	-29.57%	-3.21%	14,015	-21.96%	-1.99%
	Q3	4,514	+0.00%	-0.73%	9,786	-31.10%	-15.90%	14,300	-23.60%	-11.64%
	Q2	4,547	+1.02%	-3.85%	11,636	-14.54%	-11.09%	16,183	-10.67%	-9.17%
	Q1	4,729	+8.36%	+4.83%	13,088	-1.14%	-2.68%	17,817	+1.22%	-0.79%
2011	Q4	4,511	+4.37%	-0.07%	13,448	+0.62%	-5.32%	17,959	+1.54%	-4.05%
	Q3	4,514	+7.25%	+0.29%	14,203	+7.33%	+4.32%	18,717	+7.31%	+3.32%
	Q2	4,501	+8.04%	+3.14%	13,615	+5.07%	+2.84%	18,116	+5.79%	+2.91%
	Q1	4,364	+9.81%	+0.97%	13,239	+7.32%	-0.94%	17,603	+7.93%	-0.47%
2010	Q4	4,322	+18.38%	+2.68%	13,365	+5.62%	+1.00%	17,687	+8.48%	+1.40%
	Q3	4,209	+10.85%	+1.03%	13,233	+0.17%	+2.12%	17,442	+2.55%	+1.86%
	Q2	4,166	+6.06%	+4.83%	12,958	-11.40%	+5.04%	17,124	-7.70%	+4.99%
	Q1	3,974	+5.86%	+8.85%	12,336	-20.78%	-2.51%	16,310	-15.61%	+0.03%
2009	Q4	3,651	+1.14%	-3.85%	12,654	-17.48%	-4.22%	16,305	-13.93%	-4.13%
	Q3	3,797	+10.25%	-3.34%	13,211	-10.65%	-9.67%	17,008	-6.70%	-8.33%
	Q2	3,928	+19.17%	+4.64%	14,625	+5.58%	-6.08%	18,553	+8.19%	-4.00%
	Q1	3,754	+22.00%	+3.99%	15,572	+18.20%	+1.55%	19,326	+18.92%	+2.02%