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What explains losses in warehousing employment in the Inland Empire?



A warehouse worker works on Cyber Monday at the Amazon Fulfillment Center in San Bernardino Monday, Dec. 1, 2014. (File photo by Jennifer Cappuccio Maher/Inland Valley Daily Bulletin)



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The logistics industry, consisting of the sectors transportation and warehousing, and wholesale trade, plays an increasingly large role in the Inland Empire. According to The Economist magazine, the region has become the warehouse capital of the world.

Using seasonally unadjusted data from the California Employment Development Department, the industry has added almost 160,000 jobs since 2010 — 110,000 alone in warehousing and storage. That means the logistics industry has grown by almost 125% and the warehousing and storage sector by more than 600% over the last 13 years. Total (nonfarm) employment in the Inland Empire went up by roughly 525,000 people – a 46% increase – over the same period. Hence, almost one-third of all jobs created in the area since 2010 have been in logistics. The industry is now the second largest employer in the Inland Empire with one in every six workers, or 16% of all workers, employed in the industry, outranked only by private education and health, which has some 12,000 more jobs.

In comparison, in California and the U.S., employment in the logistics industry has increased by 39% and 33%, respectively, since 2010.

The logistics industry has been the poster child for economic recovery in the Inland Empire following the coronavirus-related recession. From May 2020 to December 2021, the industry provided a total of 69,000 new jobs, equivalent to more than a quarter of all jobs created in the region. Out of the 10 most populous Metropolitan Statistical Areas (MSAs) in California, the Inland Empire had the largest employment increase (in percent) during that time period.

Given these record-breaking developments, it would seem the industry has little to worry about. Unfortunately, that is not true. The industry has experienced employment losses of over 20,000 jobs (7.1%) since December 2021. This significant decline is both worrisome and puzzling as it is unique to the Inland Empire: Our adjacent coastal counties (Los Angeles County, Orange County) and the U.S. overall saw growth in this industry during that time.

The cause could be cyclical, or related to the national business cycle; or structural, as in the flow of goods through transportation undergoing a dramatic change everywhere; or automation, which results in labor-saving techniques, with workers being replaced by machines.

Let's elaborate on the three points. Demand for logistics depends on the level of economic activity or, more specifically, the amount of goods produced that need to be shipped. In addition, you have to consider its spatial organization, meaning where the products are made and how far they are shipped. If we produce or import fewer goods, we need fewer logistics services. If we buy more services and fewer goods, specifically online, we need fewer logistic services. And finally, if we provide logistics services more efficiently, we may see fewer logistics jobs.

First, consider container traffic at the ports. Imports have indeed fallen by about 10% since the decline in logistics jobs began. However, the massive growth in logistics jobs happened while imports at the ports were flat. Even if imports were able to explain the recent decline, whatever drove the growth before must have also stopped growing right at the same time. The threat of a railway strike and the threat of strikes at the ports may have resulted in companies diverting imported goods to other harbors.

Next, consider retail sales. If U.S. data is a guide, retail sales have gone up by more than 5% since the logistics labor decline in the Inland Empire began. Moreover, the share of retail sales made online increased from 14.5% to 15.4% — roughly a 6% climb. Logistics employment, therefore, should have increased.

There is also the possibility of logistics jobs in the Inland Empire having moved to our neighbors in adjacent counties. Some of them might have — when the Inland Empire saw much of its logistics job numbers decline, logistics jobs were still increasing in our neighboring counties. However, given the relative size of the industry in those counties as compared to the Inland Empire, this does not seem to explain a substantial amount, if any.

Manufacturing provides no clear indication either as there was no significant change in employment within the industry since the decline in logistics jobs started. So we are left with automation.

It is highly unlikely that the introduction of ChatGPT could have triggered a massive automation wave in the Inland Empire. It affects commuters more likely, and these are not counted in the Inland Empire establishment survey employment numbers. While logistics companies did report efficiency-improving organizational changes, technology implementation takes time as it requires planning, setting up machines and robots, and then training them. Moreover, such automation would have to be equally prevalent in our neighboring counties, which we do not see in the data.

The bottom line: Lower imports likely contributed to some of the slowdown, but much of that should have been compensated by increased retail sales, specifically online. We are therefore stuck with a mystery, but one that may have a simple alternative explanation – over-hiring due to labor hoarding.

In a tight job market, logistics companies may have tried to secure additional staff to be prepared, expecting the rapid historical expansion to continue. When this did not happen, employers may have adjusted their hiring thus contributing to an easing in the labor market. Combined with increased uncertainty about the onset of a recession and lower hiring needs due to the implemented organizational efficiencies, there was less need for labor hoarding, triggering a self-fulfilling prophecy. As a consequence, we may only see this recent decline as a necessary adjustment to new economic realities, and this may be a good thing. As new data becomes available, we will have a better idea about whether this conjecture is true.

The [Inland Empire Economic Partnership](#)'s mission is to help create a regional voice for business and quality of life in Riverside and San Bernardino counties. Its membership includes organizations in the private and public sector.

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