We observe fluctuations in the Ben-Joe consumer price index (CPI) for Embry-Riddle Daytona Beach campus students during the COVID-19 pandemic. We created this index by measuring a basket of goods consumed by a typical student on campus. The Ben-Joe index was calculated using market basket method for ERAU students. These dollar values in market basket were updated every month. In this study, we compare Ben-Joe index with the nation’s CPI (Urban). The US witnessed a period of deflation following the announcement of COVID restrictions. This phenomenon was also observed on campus and consequently reflected in the Ben-Joe Index, albeit with a little lag. This deflation on campus was driven largely by a change in the price of the basic meal plan (14 meals a week), but was slightly offset by increase in housing costs. While meal plans decreased in price as a result of the cancellation of in-person classes and an evacuation of dormitories, housing prices increased because of enhanced demand created by new policies of the school. The US CPI primarily decreased due to lower energy prices as well as lower energy consumption. While both CPIs saw an overall decrease due to different material goods, the reason both decreased was due to the overall economic inactivity caused by the COVID pandemic.

Because it is important to gauge the overall well being of students on the campus, it is therefore pertinent to create a reliable measure of what students pay on campus for typical goods and services. Thus, level of prices can track expenses paid for by students and measure the level of inflation targeted to the students. This can have an impact on the economic development of resources at the campus. A number of items are surveyed from students that are both considered as essential consumption items as well as non-essential but important for development. Sizeable fluctuations in the Ben-Joe index have a substantial increase on the CPI number while the raise in prices recorded in this index. The last but certainly not the least contributing factor in CPI variances is the cost of campus dormitories, housing prices increased because of enhanced demand created by new policies of the school. The US CPI primarily decreased due to lower energy prices as well as lower energy consumption. While both CPIs saw an overall decrease due to different material goods, the reason both decreased was due to the overall economic inactivity caused by the COVID pandemic.

From month to month many goods did not see a substantial increase or decrease in their prices, often there was one or two items that had a substantial change and others remained stable or had only a slight change of a few cents. The one thing that does change over summer is student housing meal plans. Currently we have not smoothed this shock but going forward we have plans to smoothen this out as it is a seasonal fluctuation. With COVID-19 still being very present, the demand for some goods, such as cleaning products, remained high and drove those products often to being out of stock while conducting the monthly price evaluations. Supply logistics also play a part in the distribution of the prices recorded in this index. The last but certainly not the least contributing factor in CPI variances is the cost of campus itself such as meal plans, housing and tuition. While these do not generally have a sudden massive spike, a rise in housing would have a substantial increase on the CPI number while the raise in the price of canned fruit at Walmart would not necessarily have the same impact.

From the research conducted and data obtained, the first year of the Ben-Joe Index has come to a close and a model has been generated for the consumer price index for the Daytona Beach campus. This index has managed to track prices and availability of products throughout a year of the COVID-19 pandemic, beginning right before the initial campus closure to present day. This index has allowed the campus to see how the data varies month to month, how the cost of living shifts for both students and faculty on campus, and how COVID-19 and other logistical matters have shifted prices, products and availability for the local area.

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