

# Relationship between consumer price index and annual income

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### Introduction

One of the most important factors when seeking employment is annual income. In addition, prices have been rising in recent years, and this is a concern when living in Japan. Therefore, we compared annual income and the consumer price index for each prefecture to find out which prefectures have high incomes and low prices.

### Method

The consumer price index surveyed by the Statistics Bureau of the Ministry of Internal Affairs and Communications and the annual income of college graduates and above surveyed by the Nikkei are compiled as data and plotted in a scatter diagram. The “consumer price index” is an index value of the price level of each region expressed as an index value with the national price level as 100, and is prepared by prefecture, with the national average as the base (=100). The annual income is the average of those registered on Nikkei's job search website for those with a college degree or higher.

In addition, each data should be presented as a bar graph, which can be sorted in descending or ascending order.

### Result

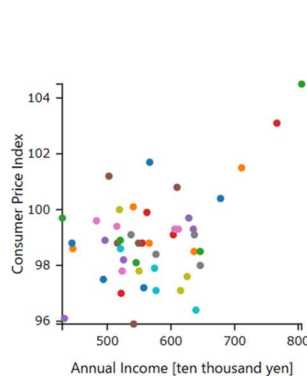


Fig. 1 Scatterplot of consumer price index and annual income.

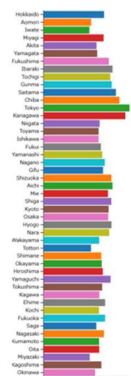


Fig. 2 Bar chart of consumer price index.

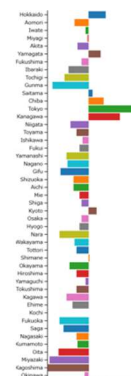


Fig. 3 Bar chart of income.

Tokyo, Kanagawa, Chiba, and other metropolitan areas have high annual incomes, and among these areas, Ibaraki and Gunma have low consumer price indexes. It is considered better to live in Ibaraki and Gunma if one is employed in the Tokyo metropolitan area.

Hyogo has a higher annual income and a lower consumer price index than Osaka and Kyoto. Hyogo is considered the better place to live in the Kinki region.

### Reference

Statistics Bureau, Ministry of Internal Affairs and Communications

“Consumer Price Index of Regional Differences -Retail Price Survey (Structural Component) 2023 Results-“

[https://www.stat.go.jp/data/kouri/kouzou/pdf/g\\_2023.pdf](https://www.stat.go.jp/data/kouri/kouzou/pdf/g_2023.pdf)

Nikkei

“College Graduate Annual Income Survey 2023 by Prefecture”

<https://career.nikkei.com/knowhow/income/002844/>