



Virtual Event 15-18 June
2020
**2020 Asia-Pacific
Statistics Week**

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The nutritious foods Price Index and Food Security of Urban and Rural Households in Iran

Action Area C. Integrated statistics for integrated analysis (SC 1)

Methodological approaches to integrated analysis : Use of sound methodologies

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Introduction

2 ZERO
HUNGER



Since Food Security and Nutrition are essential dimensions of Sustainable Development Goals (SDGs), this paper aims to measure a reliable index to monitor undernutrition among Iranian Households

Despite the long history of conducting the “Consumer Price Index (CPI)” and “Household Income and Expenditure (HIES)” surveys in the Statistical Center of Iran (SCI), yet no attempt has been made to extract health-related indicators from these surveys.



Research Question?

How we can use the results of CPI and HIES surveys to measure a reliable health-related indicators?





Methodology

A. Cost of the Recommended Diet (CoRD)

To calculate the cost of a recommended diet according to the document "desirable food basket for the Iranian Society" which is published by the Ministry of





Methodology

➤ Cost of the Recommended Diet (CoRD)

Desirable food basket for Iranian society

Items	2-3 years		4-5 years		6-11 years		12-17 years		18-29 years		30-60 years		61 years and older	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Rice	30	30	40	30	80	70	100	60	120	75	120	75	80	75
Bread	50	50	60	60	110	110	350	270	340	240	340	210	220	150
Noodle	30	30	30	20	30	20	30	20	50	30	50	20	20	20
Meat	20	20	20	20	40	50	45	50	38	40	35	50	35	30
Chicken	10	10	30	30	40	50	70	64	64	70	64	70	64	65
Dairy	300	300	300	300	400	400	450	500	350	400	350	500	400	500
Eggs	30	30	35	30	35	40	50	35	35	35	35	35	35	35
Oil	20	20	25	30	35	30	45	35	45	25	40	25	49	20
Fruits	150	150	200	200	200	200	350	280	320	280	280	280	280	280
Vegetables	150	150	150	150	250	250	400	400	300	400	330	300	300	300
Potatoes	30	30	40	40	70	70	100	70	90	50	90	40	50	60
Grain	10	10	10	10	20	20	26	20	20	30	20	20	20	20
Sugar	20	20	35	30	30	25	40	30	50	30	40	30	30	20



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Methodology

B. Nutrition Price Index (NPI)

- The method of calculating NPI is quite similar to CPI, but instead of using expenditure coefficients, it uses a weight that reflects the nutritional value of each item.
- in this study, we use the NuVal (Nutritional Scoring System), which previously ranked food items in the United States based on nutritional value.



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Methodology

➤ Nutrition Price Index (NPI)

CPI weight in urban and rural areas versus NuVal weight



Group Items	Urban	Rural	NuVal
Food and non-alcoholic beverages	100.00	100.00	100.00
Bread and cereals	23.63	26.92	8.26
Meat and other parts of slaughtered animals' preparations	21.93	20.33	2.13
Fish and other seafood	3.00	2.17	7.03
Milk, other dairy products and eggs	10.69	8.42	11.05
Oils and fats	4.54	5.23	0.13
Fruits and nuts	13.10	10.38	40.42
Vegetables	10.66	12.22	27.59
Sugar, confectionery and desserts	5.13	5.70	0.40
Other food products	3.51	3.87	1.66
Non - Alcoholic Beverages	3.80	4.75	1.34



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Results

- Our results show that the cost of the recommended diet for a typical 4-person family is 54% of the minimum wage for urban households and 48% for rural households.
- Comparing the results of the CoRD and household income and expenditure survey in Iran's provinces indicates that in 2018, 52 to 80 percent of Urban households suffer from an unhealthy diet.





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Results

Figure 1: Percent of households with Food Expenses Falling below CoRD in Urban area

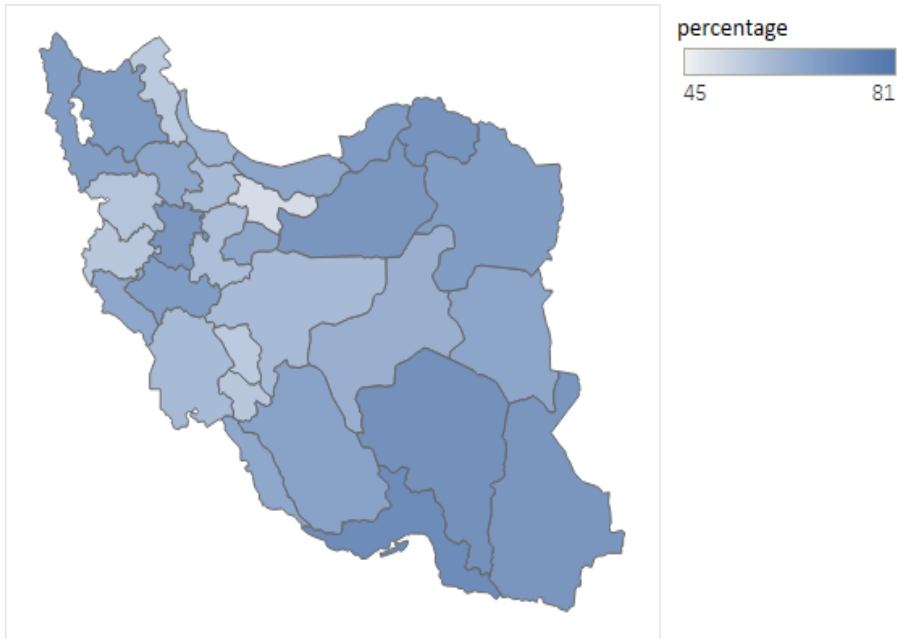
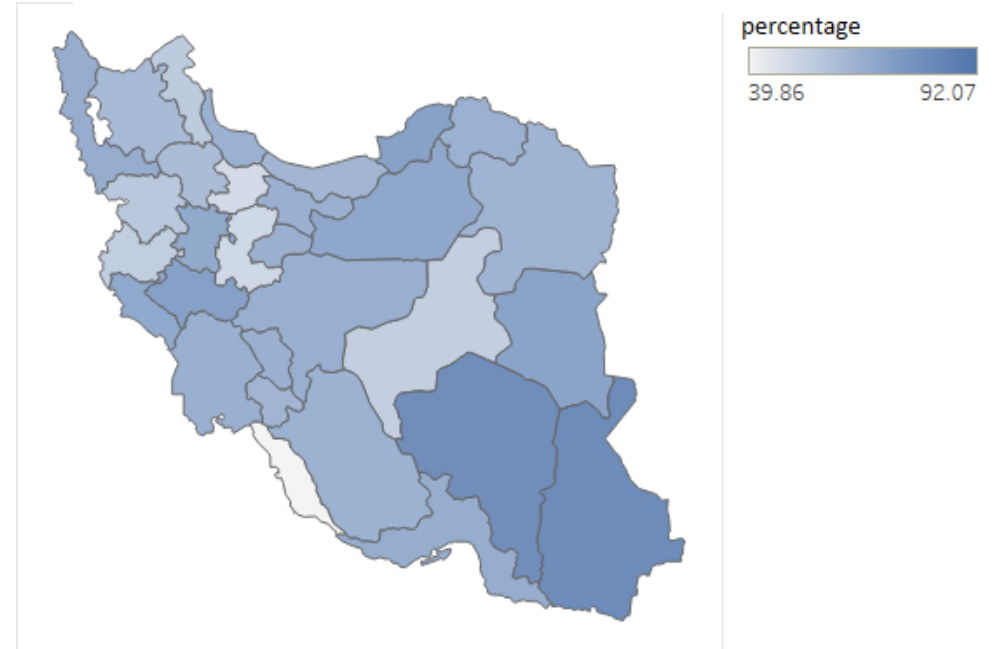


Figure 2: Percent of households with Food Expenses Falling below CoRD in Rural area



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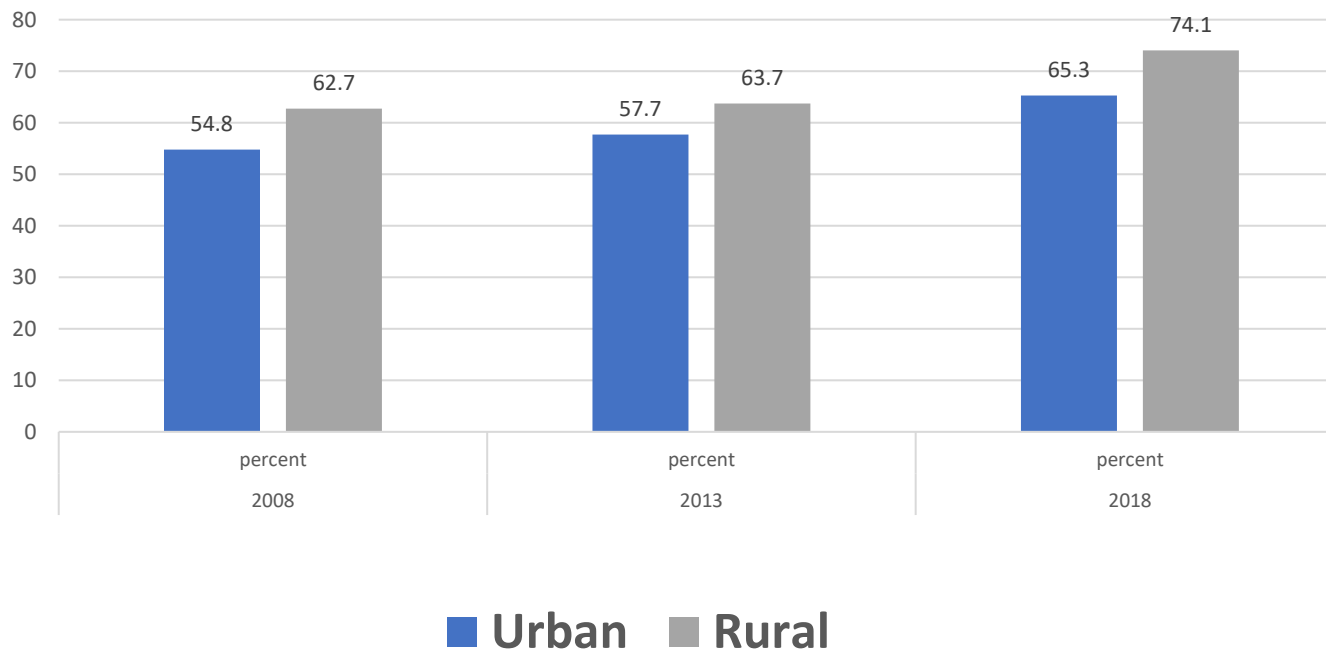
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Results

Figure 4: Percent of household with Food Expenses Falling below CoRD in Rural and Urban area



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Results

Figure 7: NPI versus food and beverage CPI inflation – Rural area

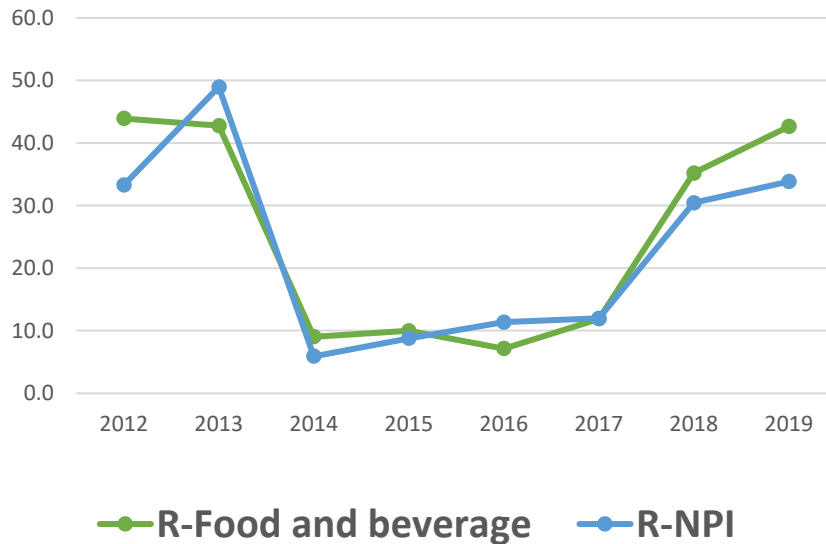
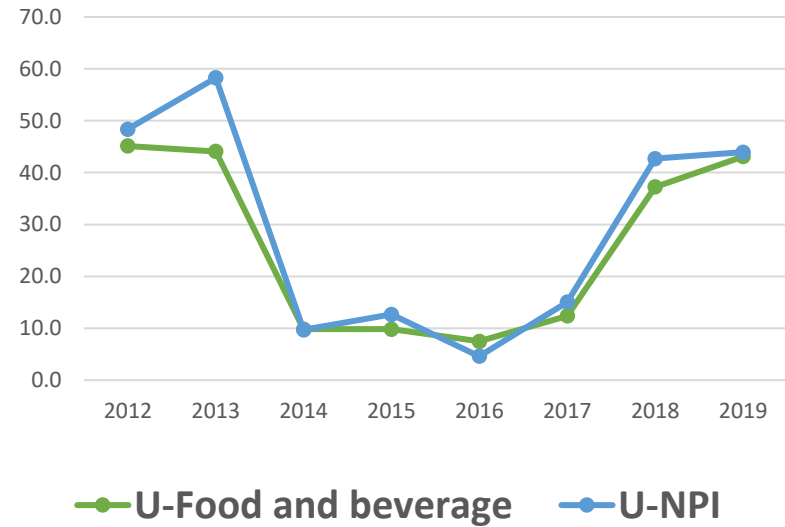


Figure 8: NPI versus food and beverage CPI inflation – Urban area





Conclusion

- Comparing the CoRD index and HIES data, shows that it is difficult for Iranian households to provide a healthy food basket, and this is more severe in rural areas.
- Findings show that the percentage of households whose food costs are below the CoRD is rising over time, and also more percentage of households in the lower-income deciles are under the CoRD.





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COVID-19 pandemic

The COVID-19 pandemic has led to dramatic loss of human life across the world and presents an unprecedented challenge with deep social and economic consequences, including compromising food security and nutrition.

FAO, IFAD, the World Bank and WFP on the occasion of the Extraordinary G20 Agriculture Minister's Meeting



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thank you!



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