

Potato Production in Pakistan



Total area
0.34 million Hectares

A total area of 0.341 million hectares in Pakistan was recorded to be utilized to farm potatoes in the year 2022-23.

Province wise:



Punjab
0.327 million Hectares



Balochistan
1,713 Hectares



KP
11,529 Hectares



Sindh
355 Hectares

Expenditure on Potatoes:

According to the Household Integrated Economic Survey (HIES) of 2018-19, an average household spends Rs. 212.22 on potatoes in a month.

0.56%



Household Expenditure

1.58%



Food Expenditure

16.70%

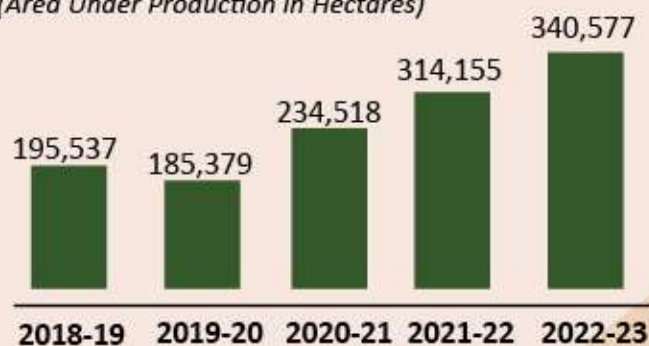


Vegetables Expenditure

Area Under Production:

The total area cultivated for potatoes has increased overall by 0.145 million hectares as compared to the reported figure of 0.196 million hectares in 2018-19, with land allocation towards potato farming having steadily increased in the past four years, after a minor decrease between 2018-19 and 2019-20.

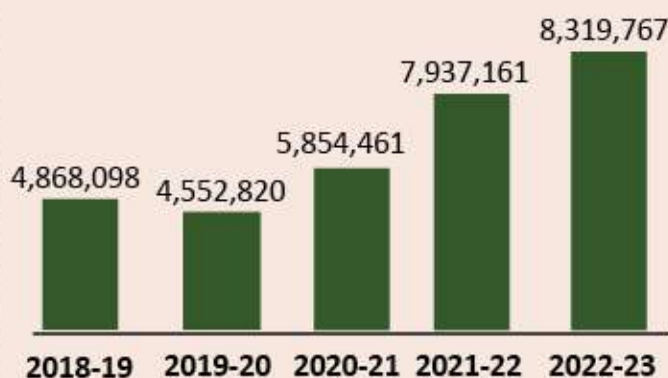
(Area Under Production in Hectares)



Potato Production:

In terms of proportion, Punjab continually makes up the largest segment, accounting for 93.5% of the total land allocated towards potato farming in Pakistan in 2018-19, having now further increased to 96% in 2022-23.

(Total Production in tonnes)



Punjab produces 97.8% of potatoes in Pakistan in 2022-23, moreover, Pakistanis are estimated to have consumed over Rs. 173 billion worth of potatoes in 2023 - Gallup Pakistan Analysis of MNFS&R and PBS data

(Islamabad), 6th June, 2024

A recent comprehensive analysis conducted by Gallup Pakistan on the “*Fruits, Vegetables and Condiments Statistics of Pakistan, 2022-23*” by the Economic Wing at the Ministry of National Food Security and Research (MNFS&R), and the Household Integrated Economic Survey 2018-19 data by the Pakistan Bureau of Statistics (PBS) has unveiled noteworthy trends in the production and expenditure towards various fruits & vegetables. The analysis, covering data from the past five years from 2018-19 to 2022-23 goes in depth into the national and provincial land allocation, towards the cultivation of food crops, their production, and average household expenditures across wealth quintiles towards their consumption.

This press release focuses on Potatoes, and is part of a series by Gallup Pakistan which will be looking into the above-mentioned details for various fruits and vegetables, which are staples in the country to identify current trends to inform future resource allocation and policy decisions on the matter.

The previous press release in this series focusing on Onions can be accessed [here](#).

Rojah Sheikh, an Assistant Manager Research at Gallup Pakistan says, “It is very important for an agrarian country such as ourselves to be making *informed* policy decisions when it comes to agriculture and food security. Through the data driven insights explored in this series we will be able to achieve some transparency in the production and consumption patterns for various fruits and vegetables common in Pakistan, and we hope that this in turn encourages dialogue on how to utilize our resources best so that our economy may reap the most benefits.”

Key Findings:

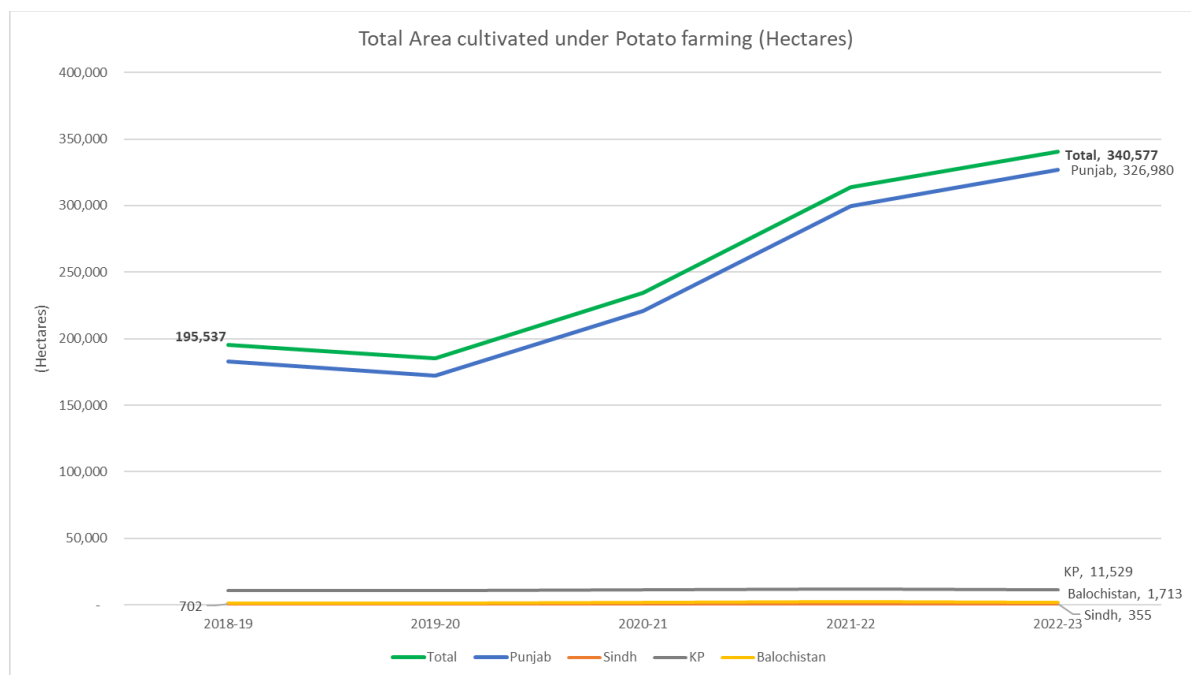
1. A total area of 0.341 million hectares in Pakistan was recorded to be utilized to farm potatoes in the year 2022-23.
2. The total area cultivated for potatoes has increased overall by 0.145 million hectares as compared to the reported figure of 0.196 million hectares in 2018-19, with land allocation towards potato farming having steadily increased in the past four years, after a minor decrease between 2018-19 and 2019-20.
3. In 2022-23 Punjab utilized 0.327 million hectares towards potato farming, this was followed by 11,529 hectares in Khyber Pakhtunkhwa, 1,713 hectares in Balochistan, and only 355 hectares in Sindh.
4. In terms of proportion, Punjab continually makes up the largest segment, accounting for 93.5% of the total land allocated towards potato farming in Pakistan in 2018-19, having now further increased to 96% in 2022-23.
5. A total of 8.32 million tonnes of potatoes were produced in Pakistan in the year 2022-23.
6. Potato production in Pakistan has steadily increased in Pakistan in the past five years, by 3.45 million tonnes, from the 4.87 million tonnes reportedly produced at the national level in 2018-19.
7. Across provinces, Punjab reports the highest production of potatoes, with 8.14 million tonnes produced in 2022-23, followed by 0.16 million tonnes produced in Khyber Pakhtunkhwa, 17,016 tonnes produced in Balochistan, and 3,257 tonnes produced in Sindh in 2022-23.
8. National production of potatoes since 2018-19 has increased by 3.451 million tonnes, of which 3.445 million tonnes are attributed to increased production in Punjab.
9. In terms of proportion, Punjab continually makes up the largest segment, accounting for 96.4% of the total potato production in Pakistan in 2018-19, having now further increased to 97.8% in 2022-23. in 2018-19.
10. The proportion of land allocation towards potato farming, and potato production across provinces suggests that despite the highest land allocation and production, Punjab also has a higher yield when compared to Khyber Pakhtunkhwa. With the latter having a higher proportional land allocation compared to proportional national production.
11. According to the Household Integrated Economic Survey (HIES) of 2018-19, an average household spends Rs. 212.22 on potatoes in a month. This makes up 0.56% of their overall household expenditure, 1.58% of their total expenditure on food, and 16.70% of their total expenditure on vegetables.
12. The data suggests that the average household spends more in a month on potatoes, than onions or tomatoes, despite all three being staples.
13. Across wealth quintiles, we can observe that the proportional expense on potatoes decreases as wealth increases. This is true across proportional household expenditure, food expenditure, as well as vegetable expenditure.
14. Pakistanis are estimated to have consumed over Rs. 173 billion worth of potatoes in 2023.

1. Area Under Production:

A total area of 0.341 million hectares in Pakistan was recorded to be utilized to farm potatoes in the year 2022-23. The total area cultivated for potatoes has increased overall by 0.145 million hectares as compared to the reported figure of 0.196 million hectares in 2018-19, with land allocation towards potato farming having steadily increased in the past four years, after a minor decrease between 2018-19 and 2019-20. The total land allocation towards potato farming at the national level is most visibly mimicked by the land allocation towards potato farming in Punjab during the past five years.

Land allocation towards potato farming is not at all evenly spread across provinces, with Punjab consistently making up an absolute majority. In 2022-23 Punjab utilized 0.327 million hectares towards potato farming, this was followed by 11,529 hectares in Khyber Pakhtunkhwa, 1,713 hectares in Balochistan, and only 355 hectares in Sindh.

Figure 1: Total area cultivated under Potato farms, 2018-2023



Source: Provincial Crop Reporting Service Centre, "Fruit, Vegetables and Condiments Statistics of Pakistan 2022-23", Ministry of National Food Security & Research <https://mnfsr.gov.pk/>

While land allocated to potato farming has increased nationally, this is not true across all provinces. By 2022-23, land allocated towards potato farming in Sindh decreased to 355 hectares, half of what it was in 2018-19. In other provinces there were increases, most significantly in Punjab by 144,125 hectares, by 955 hectares in Khyber Pakhtunkhwa and by 355 hectares in Balochistan during the same five-year period.

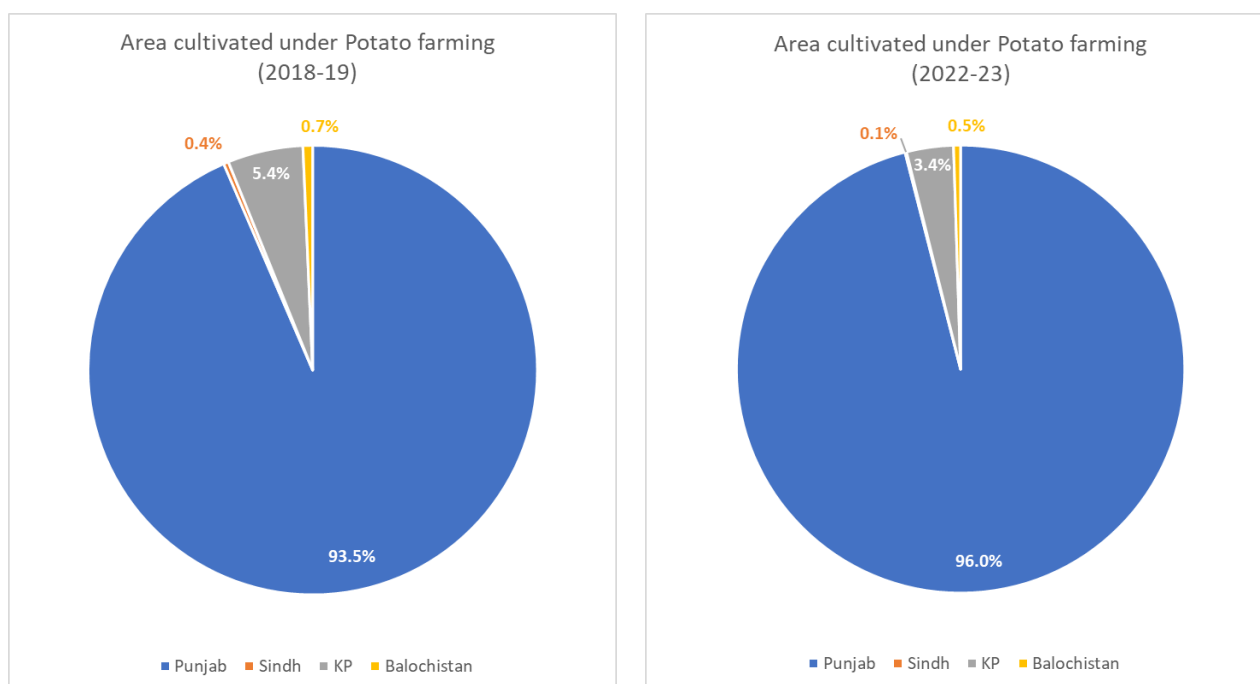
Figure 2: Area Under Vegetable – Potato (Hectares)

		2018-19	2019-20	2020-21	2021-22	2022-23
Pakistan*	Total	195,537	185,379	234,518	314,155	340,577
Punjab	Total	182,855	172,389	220,550	299,624	326,980
Sindh	Total	702	683	656	626	355
KP	Total	10,622	10,964	11,427	11,626	11,529
Balochistan	Total	1,358	1,324	1,858	2,249	1,713

Source: Provincial Crop Reporting Service Centre, "Fruit, Vegetables and Condiments Statistics of Pakistan 2022-23", Ministry of National Food Security & Research <https://mnfsr.gov.pk/>

In terms of proportion, Punjab continually makes up the largest segment, accounting for 93.5% of the total land allocated towards potato farming in Pakistan in 2018-19, having now further increased to 96% in 2022-23. Khyber Pakhtunkhwa continued to make up the second largest portion, 5.4% in 2018-19, and 3.4% in 2022-23. Meanwhile Sindh and Balochistan made up a combined 1.1% of the national total in 2018-19, which has now further shrunk to 0.6% in 2022-23.

Figure 3: Area cultivated under potato farms across provinces in 2018-19 vs 2022-23



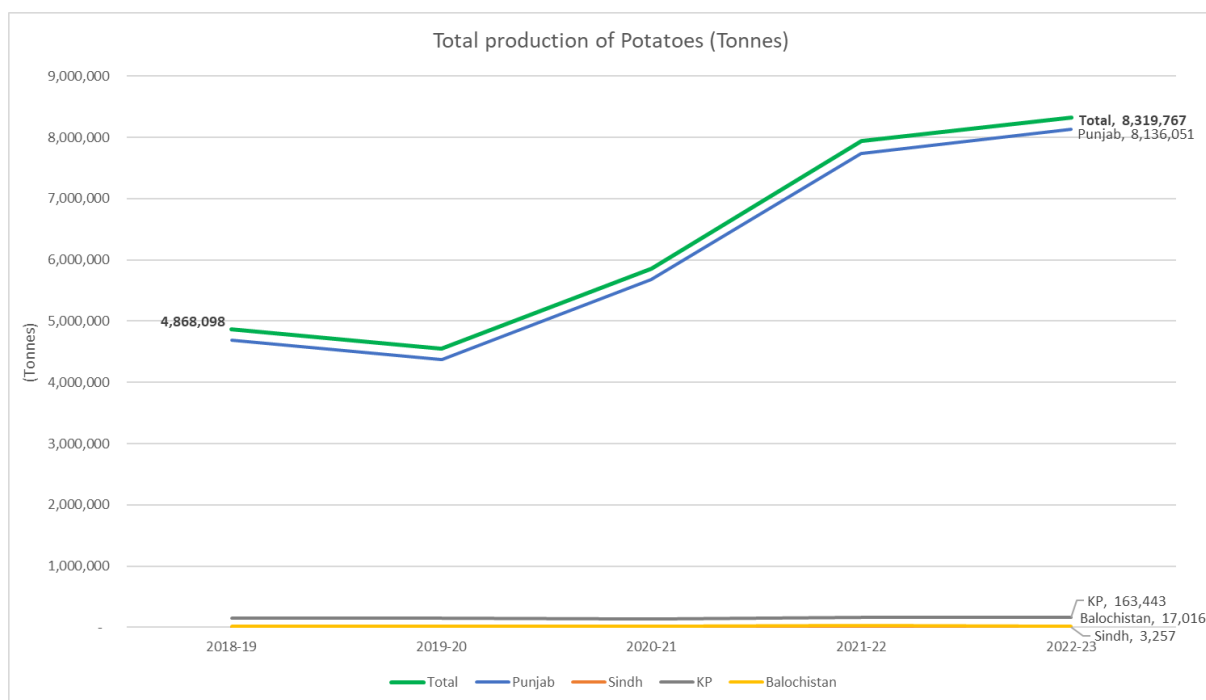
Source: Provincial Crop Reporting Service Centre, "Fruit, Vegetables and Condiments Statistics of Pakistan 2022-23", Ministry of National Food Security & Research <https://mnfsr.gov.pk/>

2. Total Production:

A total of 8.32 million tonnes of potatoes were produced in Pakistan in the year 2022-23. Potato production in Pakistan has steadily increased in Pakistan in the past five years, by 3.45 million tonnes, from the 4.87 million tonnes reportedly produced at the national level in 2018-19.

Across provinces, Punjab reports the highest production of potatoes, with 8.14 million tonnes produced in 2022-23, followed by 0.16 million tonnes produced in Khyber Pakhtunkhwa, 17,016 tonnes produced in Balochistan, and 3,257 tonnes produced in Sindh in 2022-23. Production of potatoes, much like land allocation towards their farming is majorly skewed towards Punjab, with other provinces making up a combined total of less than 5% of the production at national level.

Figure 4: Total production of Potatoes, 2018-2023



Source: Provincial Crop Reporting Service Centre, "Fruit, Vegetables and Condiments Statistics of Pakistan 2022-23", Ministry of National Food Security & Research <https://mnfsr.gov.pk/>

The overall increase in national production since 2018-19 is largely in part to the significant increases in potato production Punjab, as evident in the trends shows. National production has increased by 3.451 million tonnes, of which 3.445 million tonnes are attributed to increased production in Punjab, and 14,017 tonnes to Khyber Pakhtunkhwa. However, production of potatoes in Sindh and Balochistan has decreased in the past five years by 3,161 tonnes, and 4,239 tonnes respectively.

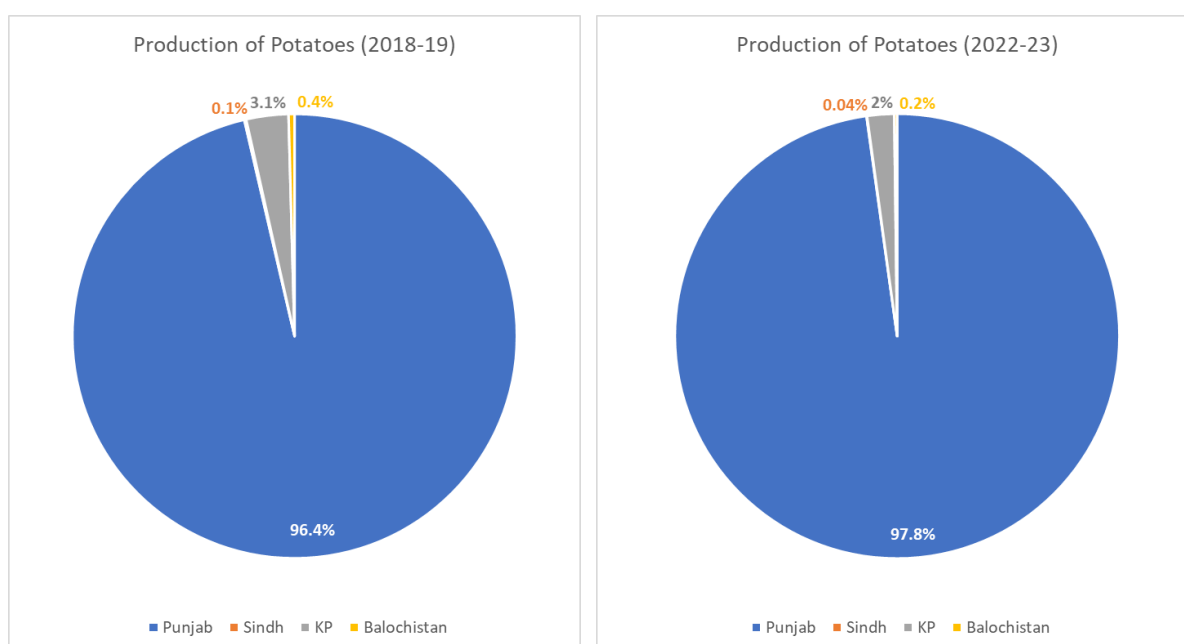
Figure 5: Production of Vegetables – Potatoes (Tonnes)

		2018-19	2019-20	2020-21	2021-22	2022-23
Pakistan*	Total	4,868,098	4,552,820	5,854,461	7,937,161	8,319,767
Punjab	Total	4,690,999	4,371,847	5,682,000	7,735,940	8,136,051
Sindh	Total	6,418	6,254	6,001	5,724	3,257
KP	Total	149,426	153,751	141,282	166,123	163,443
Balochistan	Total	21,255	20,804	24,925	29,097	17,016

Source: Provincial Crop Reporting Service Centre, “Fruit, Vegetables and Condiments Statistics of Pakistan 2022-23”, Ministry of National Food Security & Research <https://mnfsr.gov.pk/>

In terms of proportion, Punjab continually makes up the largest segment, accounting for 96.4% of the total potato production in Pakistan in 2018-19, having now further increased to 97.8% in 2022-23. Khyber Pakhtunkhwa continued to make up the second largest portion, 3.1% in 2018-19, and 2% in 2022-23. Meanwhile Sindh and Balochistan made up a combined 0.5% of the national total in 2018-19, which has now further shrunk by half to 0.24% in 2022-23.

Figure 6: Production of Potatoes across provinces in 2018-19 vs 2022-23



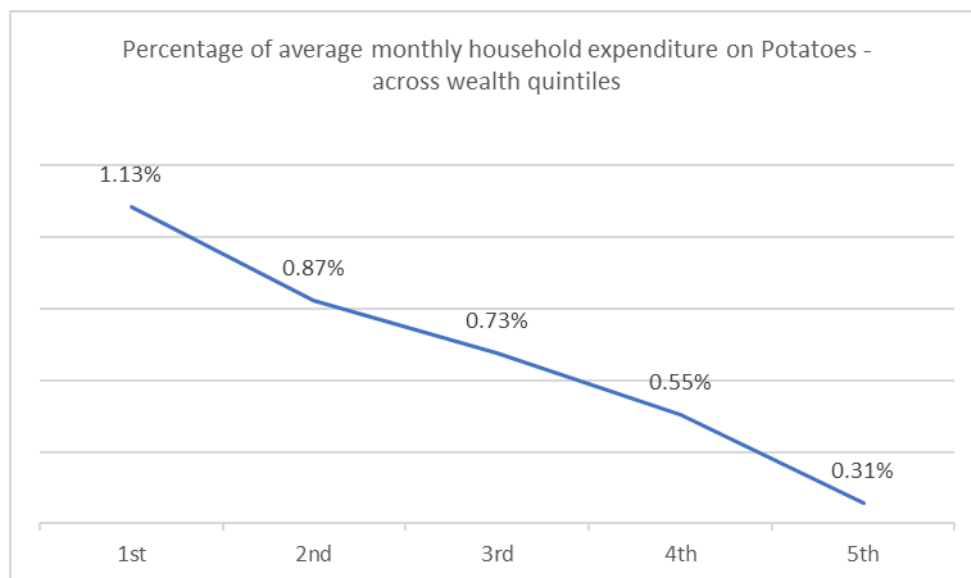
Source: Provincial Crop Reporting Service Centre, “Fruit, Vegetables and Condiments Statistics of Pakistan 2022-23”, Ministry of National Food Security & Research <https://mnfsr.gov.pk/>

The proportion of land allocation towards potato farming, and potato production across provinces suggests that despite the highest land allocation and production, Punjab also has a higher yield when compared to Khyber Pakhtunkhwa. With the latter having a higher proportional land allocation compared to proportional national production.

3. Expenditure as a proportion:

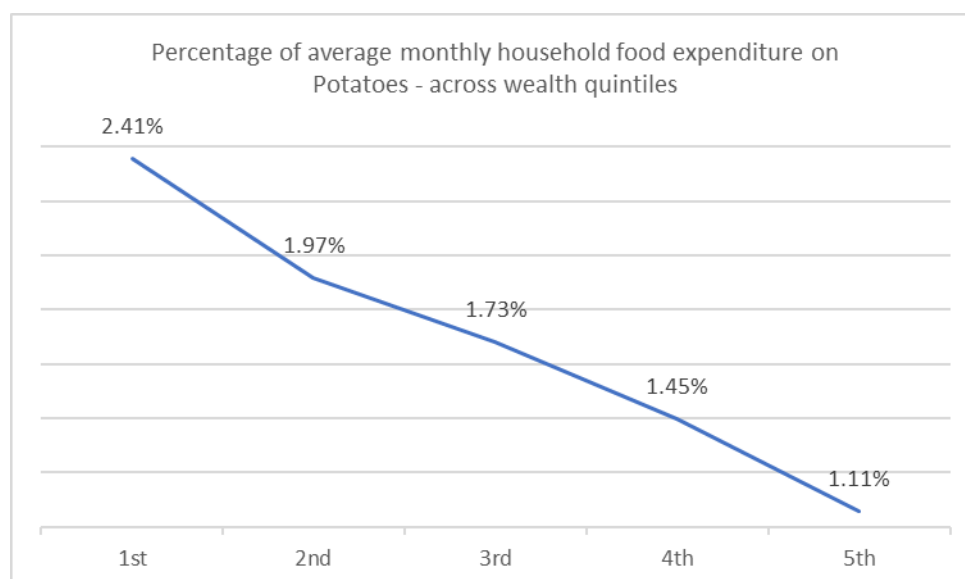
According to the Household Integrated Economic Survey (HIES) of 2018-19, an average household spends Rs. 212.22 on potatoes in a month. This makes up 0.56% of their overall household expenditure, 1.58% of their total expenditure on food, and 16.70% of their total expenditure on vegetables.

Figure 7: Percentage of average household expenditure on Potatoes, 2018 HIES



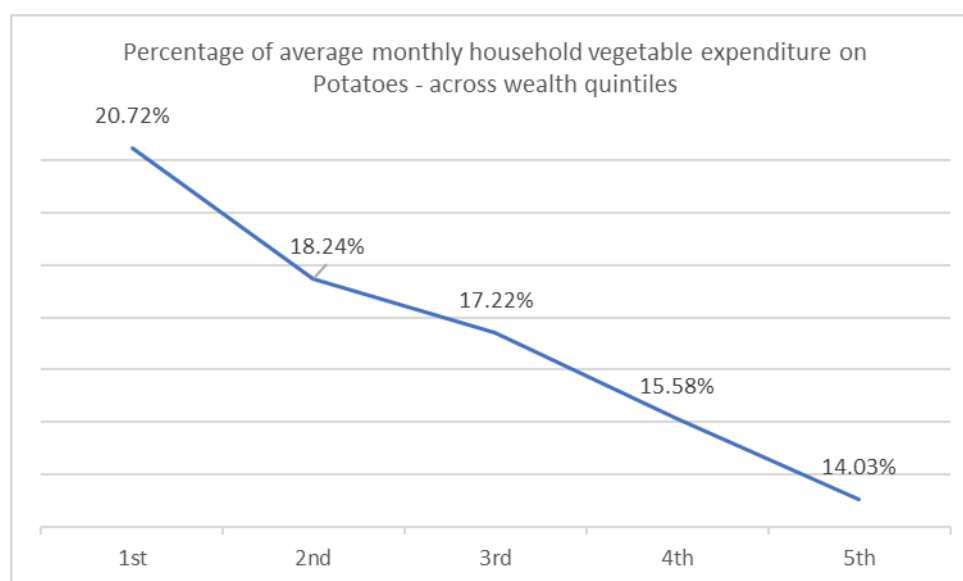
Source: Provincial Crop Reporting Service Centre, "Fruit, Vegetables and Condiments Statistics of Pakistan 2022-23", Ministry of National Food Security & Research <https://mnfsr.gov.pk/>

Figure 8: Percentage of average household food expenditure on Potatoes, 2018 HIES



Source: Provincial Crop Reporting Service Centre, "Fruit, Vegetables and Condiments Statistics of Pakistan 2022-23", Ministry of National Food Security & Research <https://mnfsr.gov.pk/>

Figure 9: Percentage of average household vegetable expenditure on Potatoes, 2018 HIES



Source: Provincial Crop Reporting Service Centre, "Fruit, Vegetables and Condiments Statistics of Pakistan 2022-23", Ministry of National Food Security & Research <https://mnfsr.gov.pk/>

Potatoes are a staple ingredient across numerous dishes of local cuisines, and thus make up a significant portion of the expenditure on vegetables. The data suggests that the average household spends more in a month on potatoes than it does on onions or tomatoes, which are also staple foods.

Across wealth quintiles, we can observe that the proportional expense on potatoes decreases as wealth increases. This is true across proportional household expenditure, food expenditure, as well as vegetable expenditure.

Estimated expenditure on potatoes in 2023:

Census 2023

- A. Number of HHs in Pakistan in 2023 = 38.34 million HHs
- B. Avg. HH size in 2023 = 6.30 individuals/HH

HIES 2018-19 data

- C. Monthly per capita expenditure on potatoes in 2018-19 = Rs. 34.01
- D. (Calculated) Annual per capita expenditure on potatoes in 2018-19 = Rs. 408.12

Statistica

- E. Average gross inflation between 2019 and 2023 = 0.15 or 15%
- F. (Calculated) Gross inflation between 2019 and 2023 = 1.76 or 176%

Annual national expenditure on potatoes in 2023, adjusted for inflation on 2019 prices

$$= D*B*A*F = \text{Rs. 173.5 billion}$$

*Assuming spending habits have not changed between 2019 and 2023

Wish to Contribute to Gallup Big Data Analysis?

Gallup Pakistan is looking for collaboration with researchers to expand both the Big Data Analysis project as well as this study of national level data. If you have any ideas, please write to Bilal I Gilani, Project Director of the Big Data Analysis at Gallup Pakistan.

Methodology:

The data for this analysis is based on the records within the “*Fruit, Vegetables, and Condiments Statistics of Pakistan, 2022-23*” by the Ministry of National Food Security & Research, and the Household Integrated Economic Surveys (HIES) data from 2018-19, by the Pakistan Bureau of Statistics.

The “*Fruit, Vegetables, and Condiments Statistics of Pakistan 2022-23*” by the Ministry of National Food Security & Research, can be accessed at: <https://mnfsr.gov.pk/>

The Household Integrated Economic Surveys (HIES) data, can be accessed on the Pakistan Bureau of Statistics website at: <https://www.pbs.gov.pk/publication/household-integrated-economic-survey-hies-2018-19>

Pakistan National Census 2023, by the Pakistan Bureau of Statistics (PBS)
<https://www.pbs.gov.pk/sites/default/files/population/2023/Pakistan.pdf>

Pakistan Gross Inflation from *Statistica*
<https://www.statista.com/statistics/383760/inflation-rate-in-pakistan/>

For more survey data, see our website <http://www.gallup.com.pk/> or contact Gallup Pakistan at caf@gallup.com.pk

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