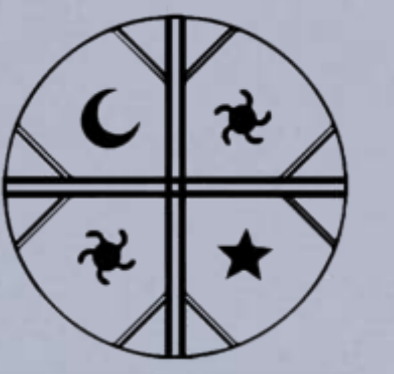




# The Quinoa We Grow



By Daniela Hernández Cuadra

## Introduction

This work illustrates how Quinoa (*Chenopodium quinoa Willd*) is an important crop worldwide because of its potential to make a significant impact on the global food shortage crisis and in fighting poverty. A profile review of the plant is provided, highlighting what makes it notably adaptable to a wide range of conditions and highly stress-resistant. Two approaches were taken: biological to highlight its advantages and sociocultural to mark its significance.



## Why Quinoa?



Exceptionally Adaptable



Suitability to Global Issues



Advantageous Byproducts



Requires Minimal Protection



Pharmacological Applications



Remarkable Nutritional Value



Potentially Cultivable Anywhere



Salinity & Drought Resistance



Biological Pest & Disease Control for Other Plants

## Not Just Any Pseudocereal

- Mostly self-pollinated.
- Natural defenses optimize water use.
- Highly efficient survival mechanisms.

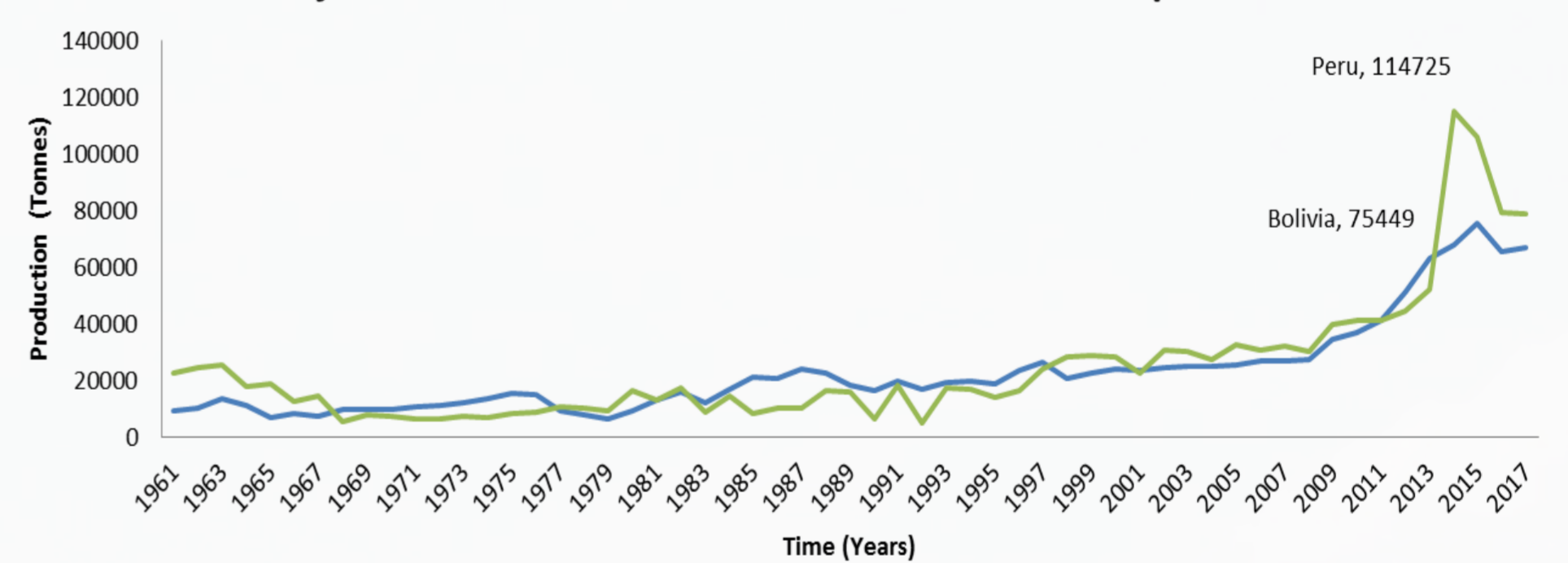
## What Can We Expect?

- A biodiversity bottleneck event, due to farmer migration from rural zones to urban centers, exposing Quinoa to further genetic erosion.
- Due to a greater popularity and a better reputation it may become too expensive for those who need it the most

## Up, Down, and Back

- Sacred respect and dietary staple to various Indigenous Cultures.
  - Over 5,000 yrs. adapting to our convenience and preference.
  - Adaptation to different forms of stress over the last 3,000 years.
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- A powerful influence in Quinoa's diversity is considered a political bottleneck that has lasted over 400 years.
  - The Spanish discouraged and destroyed cultivated areas, reducing Quinoa's biodiversity.
  - The species survived only thanks to native small-scale growers in Peru, Bolivia, and Chile.
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- Every year more countries add Quinoa to their production.
  - The UN organization is working to spread Quinoa worldwide.
  - 2013 was declared "International Year of Quinoa".

Major Producers' Tonnes of Quinoa Production per Year



## Conclusions

- Importance of Indigenous cultures to aid current world crises.
- Quinoa has the potential to make a significant impact on the global food shortage crisis, and capacity to help us fight poverty, starvation, hunger, and malnutrition.
- As climate change rapidly degrades farming conditions worldwide, a crop that resists these conditions is becoming vital.