

# ROOFTOP RESILIENCE

## Localized Food System

Community of local growers and consumers, independent from global forces.

## Resilient Food System

Capacity of system to provide sufficient food to all through disturbances.

CITY OF VANCOUVER

100 RESILIENT CITIES

## Our Objective:

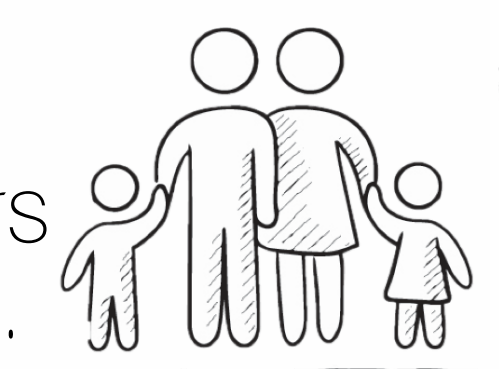
Determine how much of Vancouver's urban core could be fed according to the production capacities of their rooftop spaces.

Statistics collected found that.

**99,230 people**

(Statistics Canada)

Live in Vancouver's urban core.



**20,736 tonnes**

(Health Canada),  
(Statistics Canada)

of vegetables are required annually.



That's a lot of people that need a lot of food!

## Urban Core:

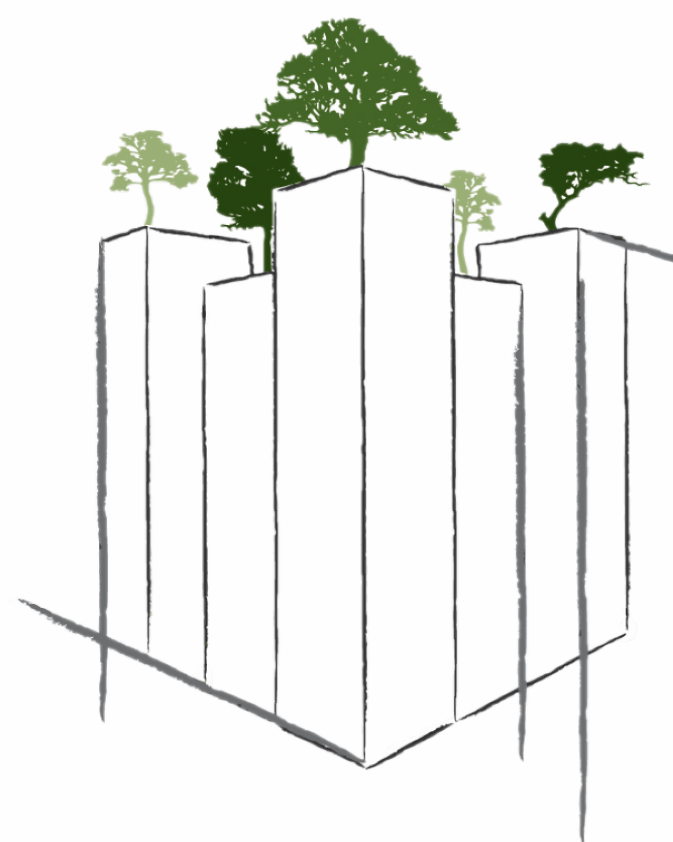
West end + Downtown.  
Vancouver's most densely populated neighborhoods.

Analysis of current and possible production space found that.

Currently only

**<1%**

Of Vancouver urban core area is being used to produce food. (VUFS, 2017)



By using rooftop space to produce food, it can increase up to

**20%**

Vancouver urban core area.

**Rooftop Farms**  
that were interviewed or researched.



## Available Rooftop Space:

Combined area of flat roofs in urban core. Calculated from the city of Vancouver's open data catalogue.

Calculated available rooftop space

**=1,172,017m<sup>2</sup>**

**BROOKLYN GRANGE**

Plenty of empty rooftops for many potential farms.

**TOPSOIL**

## Traditional:

Growing in soil can feed

**13-20%**

of the population

## Hydroponics:

Growing in water based solution. No Soil! can feed

**160-275%**

of the population

Successful urban farms are opening and growing across North America.

Growing urban farms means more food from the community, for the community.

## References

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