

<b>ACADEMIC INSTITUTION</b>	University of Regina	<b>PROJECT NAME</b>	You Should Garden & Water Secure
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**NEED AND AUDIENCE**

The two needs that we are addressing are food security and water security. In Canada, more than 5 million people have recently been food insecure, and over 300,000 people have been affected by boil water advisories. There are a number of negative effects associated with these two issues, including increased health complications, higher risk of stress and depression, and lower social, cultural, and economic opportunities. Climate change is causing these issues to exponentially worsen, and we have therefore decided to prioritize food security and water security as key problems to tackle.

**ACTION TAKEN**

You Should Garden has hosted five workshops on how to garden in a sustainable manner, and has covered topics ranging from organic foods, to pest control, to composting. We have a focus on minimizing food waste, promoting community gardening and harvest donation, and mitigating inefficient water use. Not only have we empowered people with a monetizable skill that allows them to become market gardeners, but we have also helped people be self sufficient and food secure. On the WaterSecure side, we are developing a network of on-site water testing hubs in remote Canadian communities. These hubs will more efficiently and affordably track deadly pathogens in community water sources, including total coliform and e-coli. Furthermore, we are developing a complimentary digital water security monitoring web map that will allow researchers, activists, government workers, and the general public to access our data freely. As part of this web map, we will also compile various health and environmental datasets for each remote community, which will help us track the overall population health of these communities. This will become a smart data system which we hope will empower the government to make more effective water infrastructure investment decisions.

**IMPACT**

You Should Garden has hosted five workshops, donated 400 pounds of vegetables, educated up to 75 people, and supplied 25 people with basic gardening supplies. We are currently developing a 6,400 square foot community garden in the City of Regina.

WaterSecure is still in its development stage, but it has placed as a finalist in the 2020 IISD Aqua Hacking Lake Winnipeg Challenge, and has been accepted into the North Forge incubator.

<b>STANDARD METRICS</b>			
<small>(These metrics are related only to the project presented and represent work done since May 2020)</small>			
Litres of water conserved	N/A	Metric tonnes of waste diverted	N/A
GHG emissions diverted	N/A	Dollar value of waste diverted in CAD \$	\$200
<b>PROJECT START DATE</b>	May 2020	<b>IS THIS PROJECT WHOLLY-OWNED AND OPERATED BY THE TEAM?</b>	Yes