SUSTAINABLE AGRICULTURE



21 million people

WHY AQUAPONICS?

COMPARED TO INDUSTRIAL AGRICULTURE

COMPARED TO VERTICAL FARMING + PERMACULTURE

Aquaponics uses 90% less water than industrial agriculture

There is **no harmful runoff** associated with aquaponics

Little required energy: electricity from grow lights, pumps + filtration, where renewable energy such as wind, solar, and hydroelectric often used

Conserves land - growing 6x more per square foot

Through an informal **decision matrix analysis**, aquaponics was found to have the **highest Total Suitability Score** through the following metrics:

Water, land + nutrient use efficiency Water pollution mitigation Cost of implementation Required maintenance Impact on the local economy

