**Background**

Urban Food Deserts
- Low access - Greater than 33% of the population live more than 1 mile from a supermarket
- Low income – Poverty rate greater than 20%
- Unhealthy options

**Problem**

Urban Food Desert in Worcester
- Area of 0.5 square miles Population: 5248
- Percentage of Low Access: 100%
- Percentage of Low Income: 30.4%
- Percentage of households without vehicles: 29.4%

**Solution**

Renovate an existing foreclosed house (26 Windsor St, Worcester MA) to support an aquaponics system.

**Financial Model**

<table>
<thead>
<tr>
<th>Cost</th>
<th>Income</th>
<th>Profit</th>
</tr>
</thead>
<tbody>
<tr>
<td>$1,000</td>
<td>350</td>
<td>250</td>
</tr>
</tbody>
</table>

**Cost**
- Acquisition of a house and building permits
- Large set up cost
- Training and education
- Possibility for technological or biological failures

**Benefits**
- Efficient yield
- Minimum inputs
- Small production costs
- Subsidies costs through government grant
- Access for community
- Steady reliable source of protein and produce
- Jobs

**Assessment**
- Calculate new “low access levels”
- Membership

**References**


Windsor St, Worcester MA) to support an aquaponics system.


