

Insects as an organics management technology

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City of Los Angeles

406,000 Tons of Annual
Commercial Food Scraps



43,303 Tons
Recycled



Composting and Anaerobic Digestion

Large enough capacity?

Economically viable?

Insects are an organics solution



Naturally consume organic waste

- Efficient feed conversion
- No additional water necessary



Industrial production tech developed

- Scalable system capacities greater than 100 tpd
- Designs in place for multiple species



Create natural, high quality feed

- Non-GMO, organic, highly nutritious
- Produces higher quality livestock

Economics

55,000 sq. ft. facility

Capital Costs: \$8.7 million

Operational Costs: \$1.0 million

Discount Rate: 10%

Capacity: 36,000 tons per year

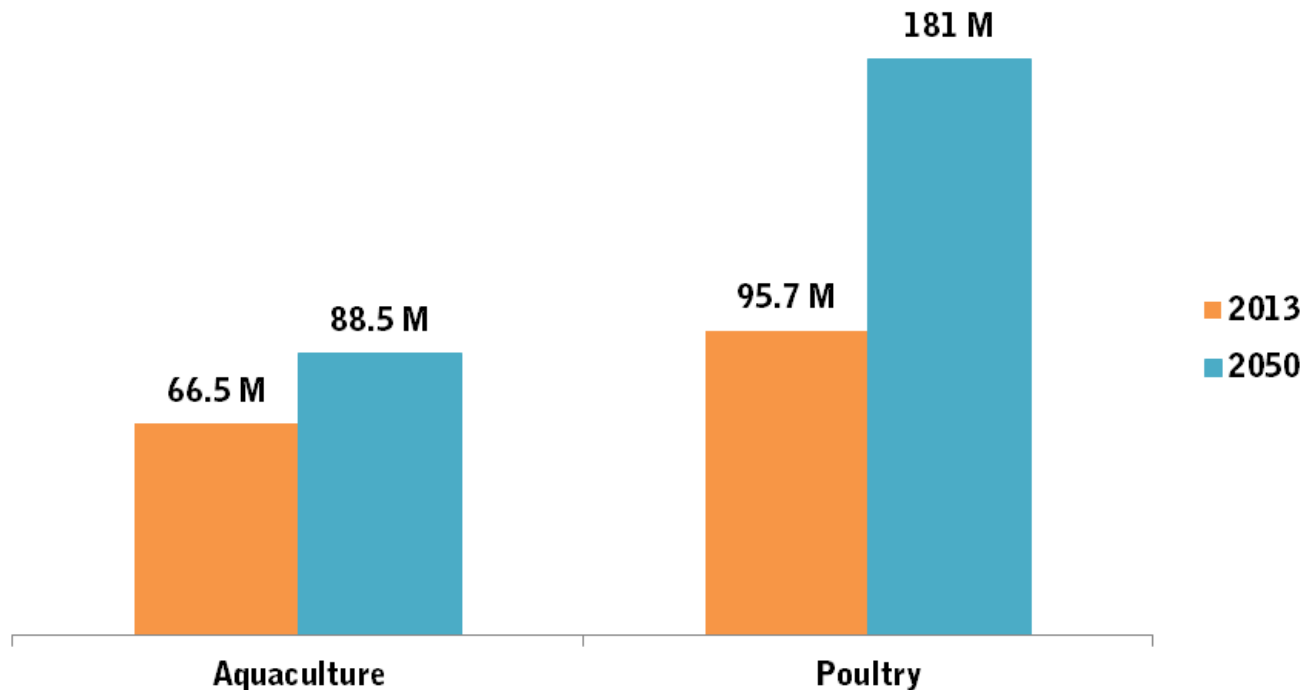
Estimated Production: 2,500 tons per year

Value: \$500 - \$1,500 per ton

Net Present Value: -\$6.4 to \$15.4 million

Demand for poultry and aquaculture is increasing

Global Demand for Farmed Seafood and Poultry (in tons)





Protein Production is Resource Intensive

30.5 million tons of soymeal
used in U.S. livestock feeds last year

10.9 trillion gallons of water

94% GMO

84.8 million acres of cropland used

An aerial photograph of a dry riverbed in a mountainous region. The riverbed is a wide, winding channel of light brown sand and gravel, with a small pool of dark blue water in the center. A metal truss bridge spans across the riverbed. The surrounding landscape is a mix of dark green evergreen forests and brown, rocky hills under a clear blue sky.

Insect Production is Resource Efficient

Minimal additional water required

Low feed conversion ratio

Can be grown vertically

Local and Sustainable Food Production Fueled by “Waste”



Slightly Nutty

Santa Barbara, CA

Nutritious, delicious
crickets and cricket
powder
coming soon!

It'll put a jump in your step!



Thanks!

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