Insects as an organics management technology

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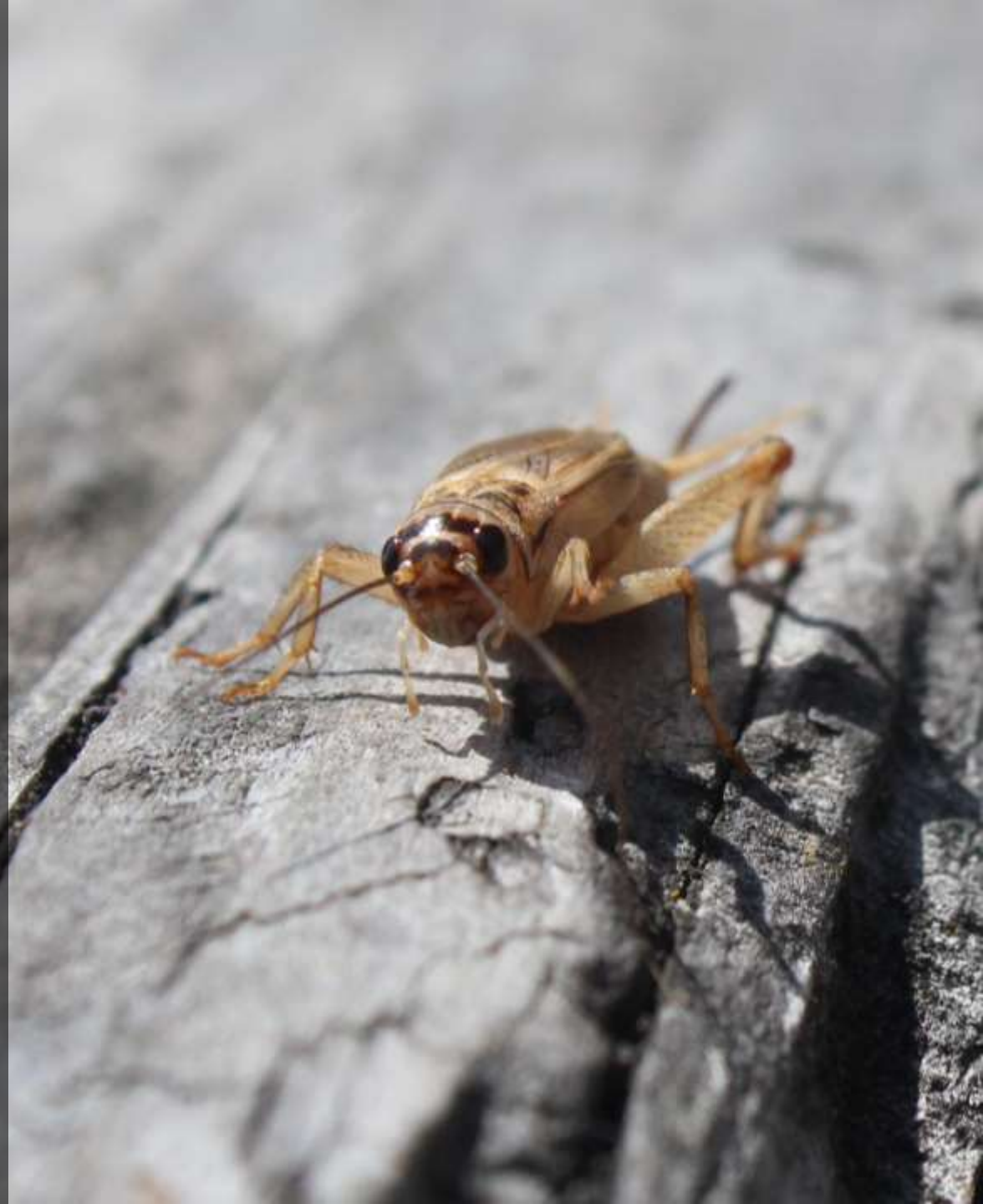


City of Los Angeles

406,000 Tons of Annual Commercial Food Scraps

Tyler Isaac 2015

Composting and Anaerobic Digestion

Large enough capacity?

Economically viable?

Image: http://feedresource.com/

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

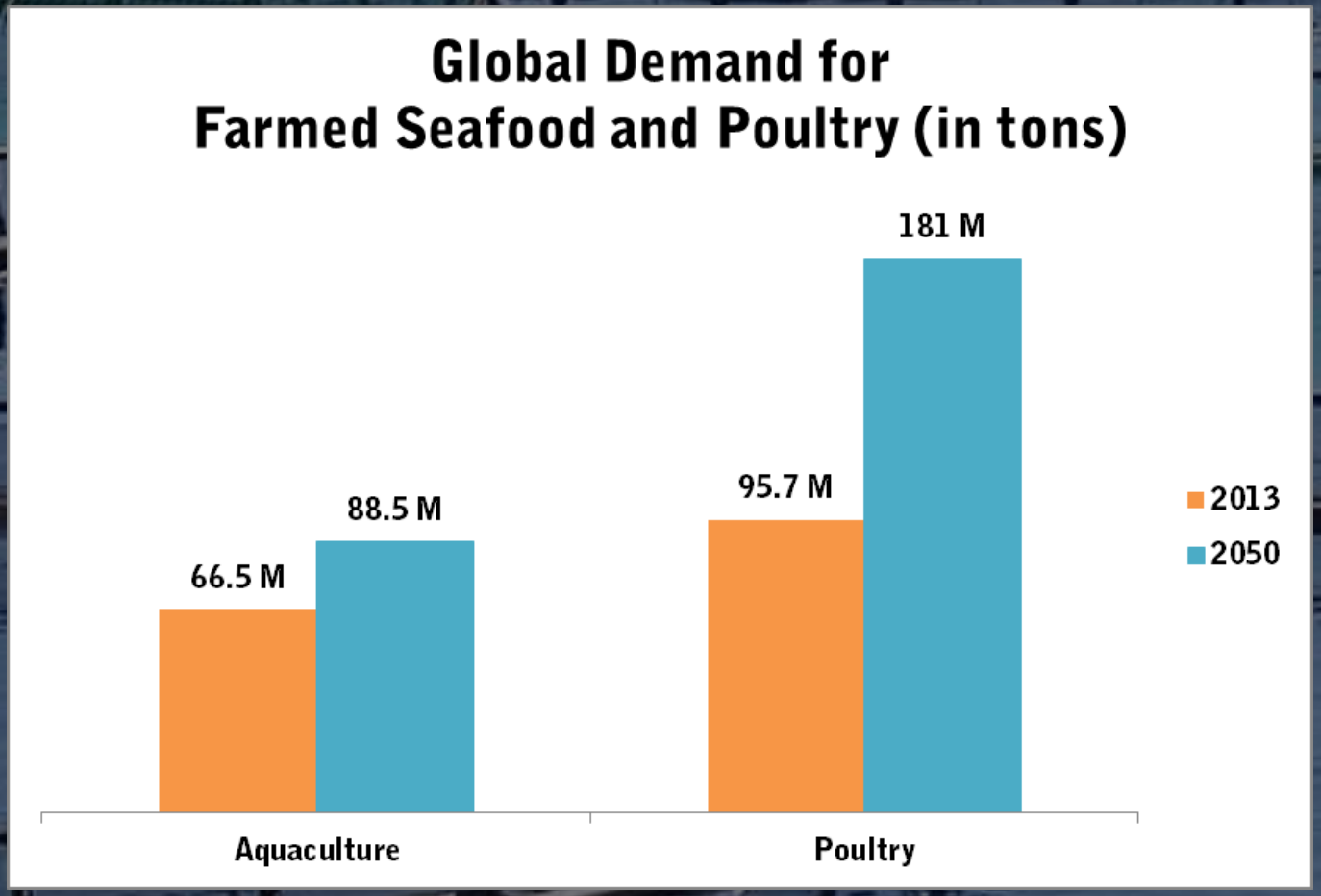
Value: $500 - $1,500 per ton

Net Present Value: -$6.4 to $15.4 million

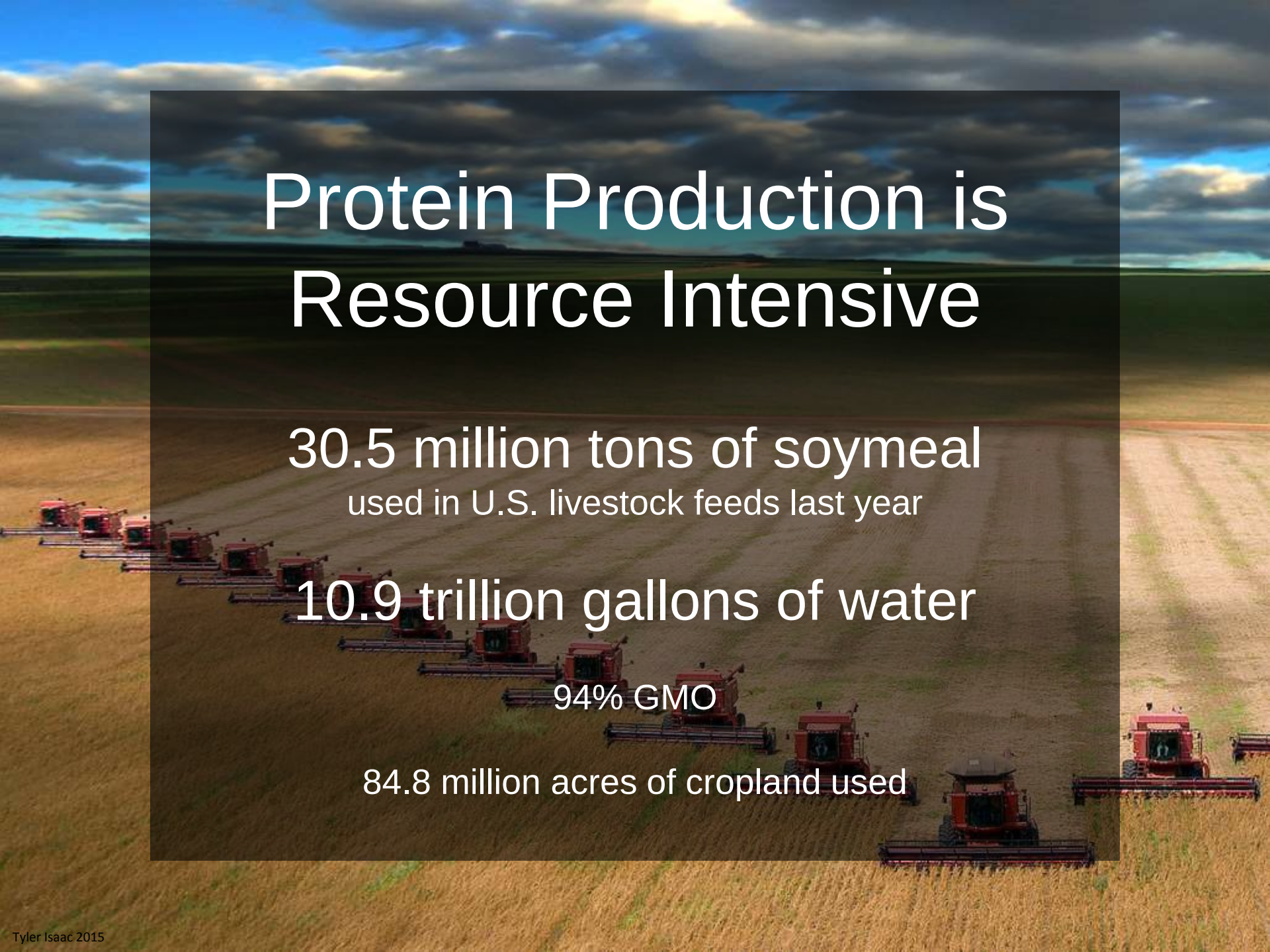
Tyler Isaac 2015

Assumption parameters from EnterraFeed

Demand for poultry and aquaculture is increasing



Source: 2005/Transparency Market Research



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”

Tyler Isaac 2015

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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