

# Continuous Flow Vermicomposting

Model 5-6 Flow Through  
Vermicomposting Unit



**PV Waste Solutions**

Orange is the new Green

# Outline

- ▶ PV Waste Solutions
- ▶ Brief History/ About us
- ▶ Model 5-6 Flow Through
- ▶ Feedstocks
- ▶ Collection
- ▶ Advantages/ Challenges
- ▶ Future
- ▶ Questions



# About Us

## ▶ A brief history

- ▶ **2009:** PV Disposal was created with 1 truck & 11 bins
- ▶ **2014:** 4 trucks, 100 bins, soil remediation / compost facility (BEST Landfarm)
- ▶ **2015:** PV Disposal becomes PV Waste Solutions- Purchase Model 4-5 Flow Through Vermicomposter
- ▶ **2016:** Curbside Organic Collection Begins



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# PV Waste Solutions

## ▶ Waste disposal bin rentals

- ▶ 9-20 yard driveway-friendly bins

## ▶ Soil Remediation

## ▶ Hydro-vac Waste

## ▶ Composting

- ▶ City of Regina Leaf and Yard Waste Depots
- ▶ Christmas Tree-cycle
- ▶ Organic Curbside Collection
- ▶ Wood Waste/ Wood Pallets/ Drywall



# PV Waste Solutions

## ▶ Outreach, training & events

- ▶ Clean Earth Warriors program
- ▶ Group presentations
  - Composting 101
  - Vermicomposting 101
  - Waste Reduction

## ▶ Composting at Home

- ▶ Home Consultations
- ▶ Worm Factory 360 Sales



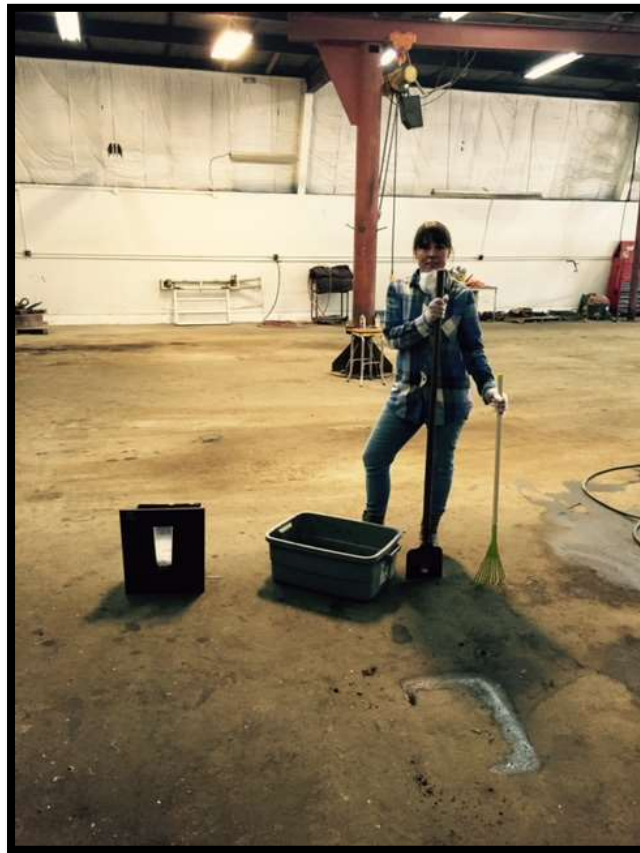
# Model 5-6 Flow Through Vermicomposting Unit

- ▶ Designed for Hospitals, Cafeterias, Prisons, Grocery Stores etc.
- ▶ 5' Wide x 6' Long x 4' High
- ▶ Will support an average worm population of 150 pounds
- ▶ Will process approx. 45-55 lbs of total waste per day - this includes both carbon and nitrogen stocks
- ▶ Output Per Week is approx. 200-250 lbs





# High Tech Production Line



# Compost Collection Tray





# Feedstocks

- ▶ Food waste: fruit, vegetables, breads, pastas- preferably foods that are raw, uncooked, unseasoned
- ▶ Coffee grinds, filters, paper towels, tea bags
- ▶ Leaves and grass clippings
- ▶ Shredded paper and cardboard

## Avoid

- Citrus, Meat, Dairy



# Advantages

- ▶ Compost all our paper and cardboard waste
- ▶ Compost all of our snack, lunch and coffee waste including tea bags
- ▶ Compost all of our organic waste from our homes and surrounding businesses
- ▶ Great marketing tool
- ▶ Clean Earth Warriors Program
- ▶ Sale of Worm Factory 360's



# Challenges

- ▶ **Cost** - system including delivery was \$7530 US
- ▶ Feedstock collection- too much, too little
- ▶ Feedstock size- needs to be small and rotten
- ▶ Temperature Control
- ▶ Fruit Flies
- ▶ Ongoing maintenance
- ▶ Dependability



# Future

- ▶ Vermicompost Sales- Farmers Market
- ▶ Red Wiggler Worm Sales
- ▶ Clean Earth Warrior Programs
- ▶ Vermicompost Presentations and Education
- ▶ Worm Factory 360 Sales



# Questions?

## **PV Waste Solutions**

Compost & Remediation Facility

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