SEPTEMBER 7, 2017; MIDWEST FOOD RECOVERY SUMMIT

FOOD RECOVERY AT KANSAS RETAIL GROCERS:

REDUCING AND REDISTRIBUTING EXCESS FOOD

SUSTAINABILITY 2020 GOALS

INCREASE ECO-STEWARDSHIP

Source Reduction

Feeding People

- Continue to expand eligible foods into the Perishable Donations Partnership (PDP).
- Implement PDP programs in Kroger family of stores distribution centers.
- Continue to train associates and collaborate with local food banks.

Zero Waste

Kroger aims to ultimately meet and exceed EPA's Zero Waste threshold of 90% diversion from landfill in our facilities by 2020.

Feeding Animals

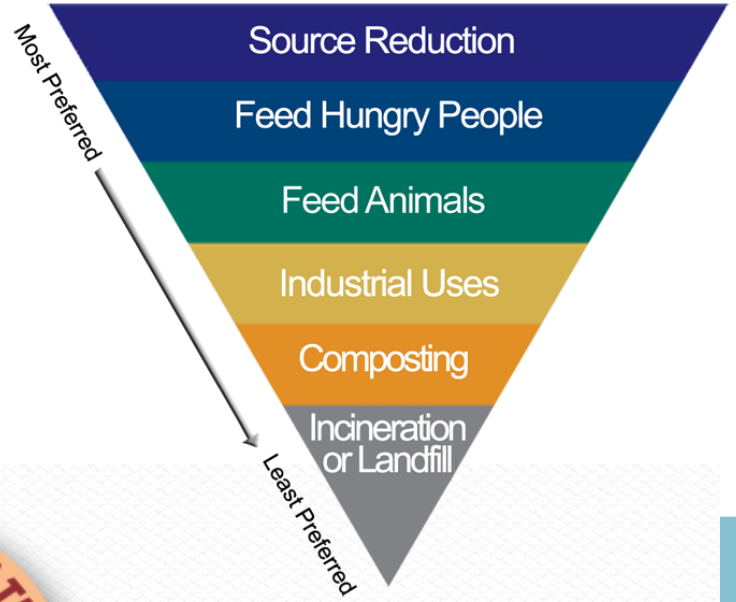
In both our plants and retail locations, Kroger will continue to expand animal feed processes that allow us to donate safe and nutritious food scraps to animals, where feasible.

FOOD RECOVERY
FEEDS SEDGWICK COUNTY FOOD INSECURE

Project Overview:

- Work with Sedgwick County Grocery Chains to identify food waste that can be reduced along with redistributing excess food. Identifying food waste that that can be donated to programs that feed the hungry.

Food Recovery Hierarchy



PERISHABLE DONATIONS PARTNERSHIP

A partnership between the stores in the Kroger family and local food banks that benefits hungry people in our communities.

FOOD RECOVERY
YEAR ONE INTERN: KARA HALL

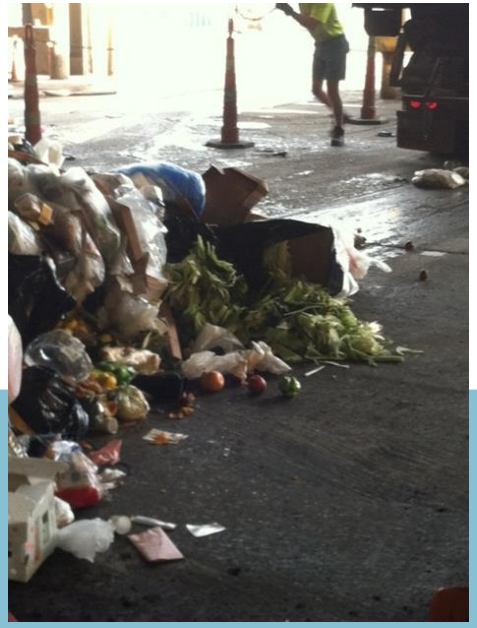
In first year of two-year project, an intern was placed at two Dillon's grocery store locations in Wichita, Kansas.

- Dillon's is owned and operated under Kroger.
- Dillon's was already donating some food; worked with the Pollution Prevention Institute to improve and quantify source reduction efforts and food diversion.

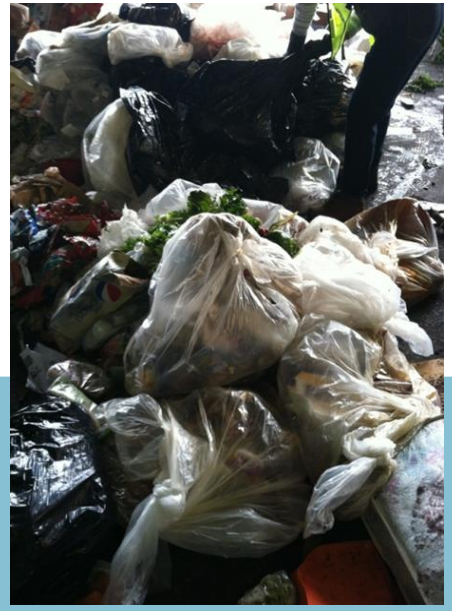
Kara Hall, civil engineering student at KU

Transfer Station June 6th, 2013

Large amounts of produce found in trash



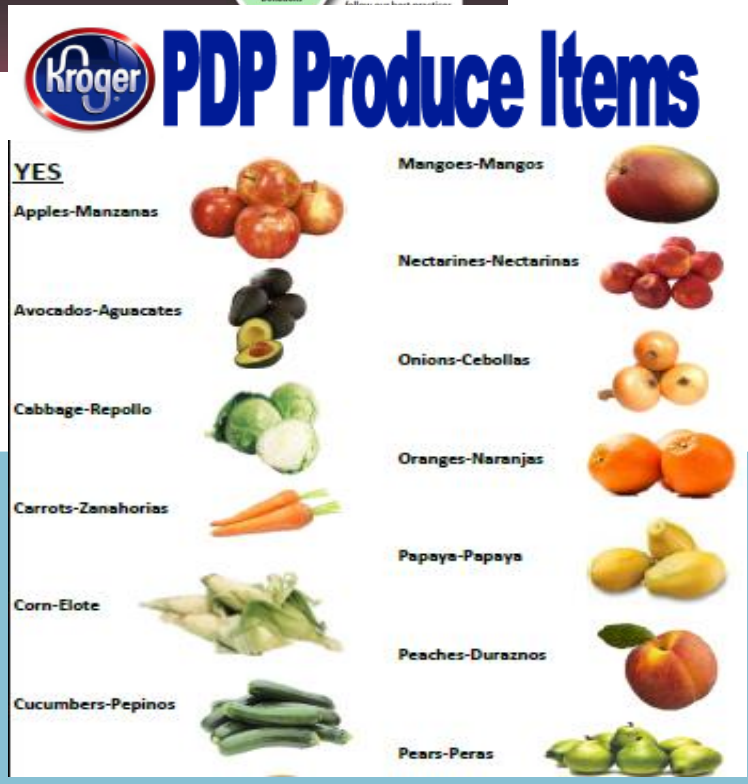
Cornhusks account for a large amount of waste



Approximately 30% of waste was organics

FOOD RECOVERY – YEAR ONE

Quest™
RESOURCE MANAGEMENT GROUP



FOOD RECOVERY – YEAR ONE

Summary of 2013 intern recommendations for Dillons

Project description	Annual estimated environmental impact	Annual estimated cost savings	Status
Grocery	2.7 tons	$2,058	Planned
Produce	36 tons	$2,863	Implemented
Bakery			
Bolilo Rolls	2.5 tons	$14,202	Implemented
Donuts	2.1 tons	$9,079	Partially Implemented
Deli	5.4 tons.	$29,955	Recommended
Total savings *	**48.7 tons**	**$58,157**	
GHG reductions *	**33 metric tons CO2e**		

FOOD RECOVERY – YEAR TWO INTERN: BINTOU BAYO

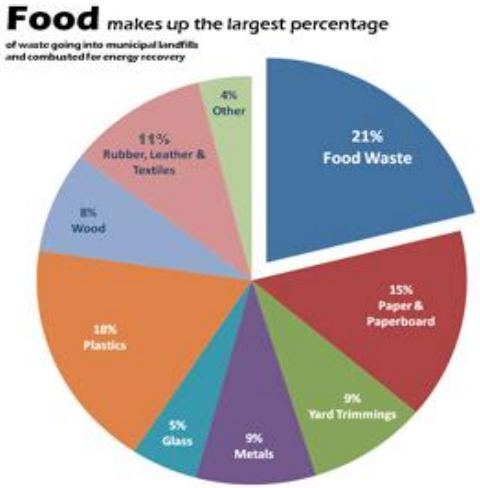
Dillons - Food Recovery Challenge

Main Focus:

- Produce
- Bakery
- Deli
- Dairy
- Meat & Seafood

Goals:

- Reduce food waste going into landfills.
  - Identify source reduction opportunities.
  - Maximize food donations to the Kansas Food Bank (KFB).
  - Increase Quest's food waste diversion program



Bintou Bayo, WSU renewable energy engineering
Now a Dillon's employee

FOOD RECOVERY– YEAR TWO

PRODUCE

Source Reduction

- Reduce soup options from four to two
  - 50% reduction for 6 months – 1,460 lb./yrs.
  - Implemented immediately

- Recommended all trimmings and excess be diverted to Quest.

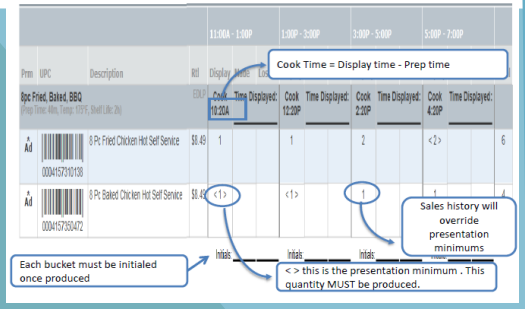
BAKERY

Increased donations to the Kansas Food Bank by 87%!!

DELI

Source Reduction

- Baked and BBQ Baked Chicken
  - Recommended reduce production by 50%
  - Not eligible for KFB or Quest
  - If implemented, 4 tons of waste reduced.



DAIRY

First Week's Food Donations to Kansas Food Bank: 26 crates of milk – 111 gallons!

FOOD RECOVERY – YEAR TWO

WATER CONSERVATION

Reverse Osmosis System

- malfunctioning, leaking water to floor drain
- Reported and resulted in water savings of 1.1 million gallons
- Found similar problem at another store

Thawing practices for deli & Chinese kitchen

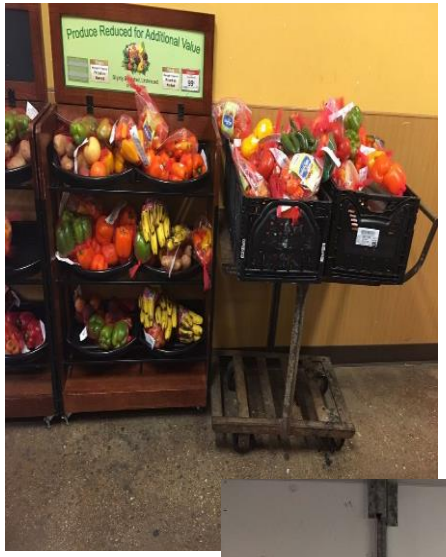
- Recommended refrigerator thawing
- Conserve 210,240 gallons of water/yr.
- Implemented immediately

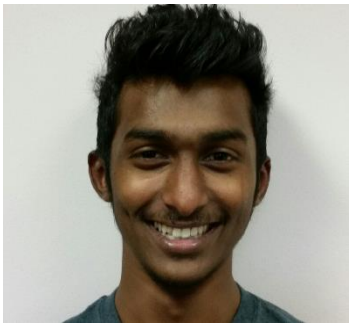
FOOD RECOVERY – YEAR TWO

Summary of 2014 P2 intern recommendations for Dillons Food Stores

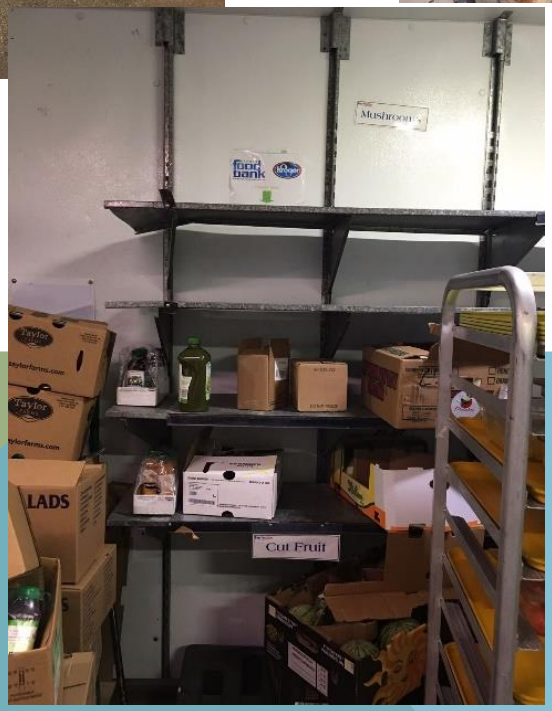
Project description	Annual estimated environmental impact	Annual estimated cost savings	Status
Deli BBQ baked chicken	0.5 tons	$3,500	Recommended
Deli baked chicken	0.4 tons	$2,300	Recommended
Deli small sides	1.4 tons	$6,000	Implemented
Produce	26.6 tons	$14,000	Implemented
Bakery	12.8 tons	$1,000	Implemented
Water	1,300,000 gal	$7,000	Implemented
Total savings	**41.7 tons waste diverted** **1.3 million gallons of water saved**	**$33,800**	
GHG reductions *	**67.2 metric tons CO2e ($MTCO_2E$)**		

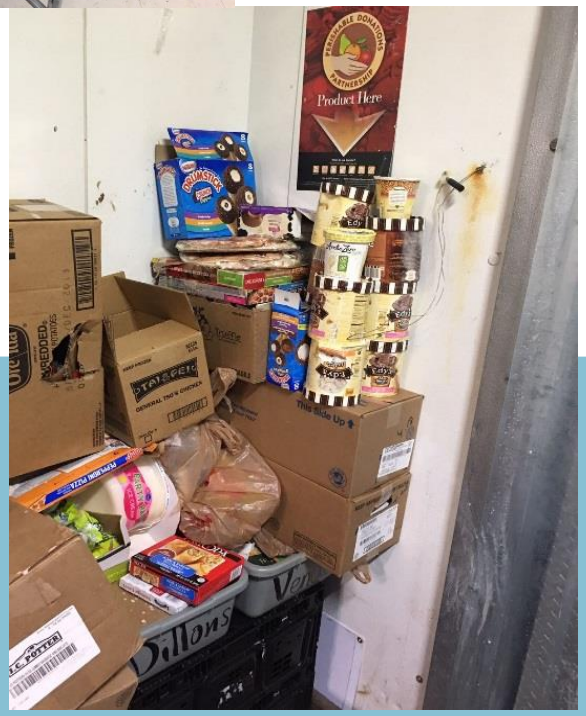
2017 CIRCUIT RIDER INTERN





Venkatesan (Venki) Gunasekaran, WSU industrial engineering





2017 CIRCUIT RIDER - 2017 DRAFT RESULTS

Project Description	Annual Estimated environmental impact	Annual estimated cost savings	Status
Produce – store 12	9.1 tons	$40,000	Recommended
Produce – store 89	-	$65,000	Recommended
Bakery – store 12	11 tons	$66,000	Implemented
Total Savings	20.1 tons	$171,000	
GHG reductions	22 metric tons CO2e		

QUESTIONS?

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