



Leanpath

in Boulder Valley School District



BOULDER VALLEY
SCHOOL DISTRICT



TM

BVSD Food Services

- 52 Schools: 31K students
- Nearly 14,000 meals each day
 - 2 entrees at elementary
 - 3 entrees at secondary
- Scratch Cooking
- Salad Bars
- 3 Production Kitchens



Two Sources of Food Waste

Pre-Consumer



Post-Consumer





Food Recovery Hierarchy

www.epa.gov/foodscraps

Source Reduction

Reduce the volume of surplus food generated

Feed Hungry People

Donate extra food to food banks, soup kitchens and shelters

Feed Animals

Divert food scraps to animal feed

Industrial Uses

Provide waste oils for rendering and fuel conversion and food scraps for digestion to recover energy

Composting

Create a nutrient-rich soil amendment

Landfill/ Incineration

Last resort to disposal

Tracking →
Awareness →
Action =
Prevention

Newer ideas for
K-12 food waste

“Traditional” K-12
food waste routes

Pre-Consumer Waste

HOW MUCH OF THIS PROBLEM STEMS FROM U.S. FOODSERVICE OPERATIONS?

4-10% of food purchased is **THROWN OUT** before reaching a plate.



\$9-23 BILLION of pre-consumer waste generated by the U.S. out-of-home restaurant and foodservice industry every year.

Pre-consumer waste is the kitchen waste that occurs before the food even reaches a guest, from **OVERPRODUCTION, SPOILAGE, EXPIRATION** and **TRIMMINGS**. It's within the control of the foodservice operator and can be prevented!

Reasons for Pre-Consumer Waste

- Over-Purchasing & Padding
- Food Safety
- Trim Waste
- Overproduction
- Customer Experience & Choice



LeanPath 360 FS Tracker in Production Kitchens

- Three Regional Kitchens + Catering
- Only compost bin in each kitchen
- Track by employee
- Track by food category
- Track by waste reason



Photo:

Immediate Feedback

YOUR REPORT WAS RECEIVED !

THANKS FOR TRACKING!

FINANCIAL IMPACT

Item Value: **\$31.00**

If Wasted Daily for a Year: **\$11,315**

Abby D STATS

LAST 30 DAYS

Reports: 9

Team Rank: 3

Environmental Impact

Resources consumed if wasted daily for a year:

8979.0 bath tubs of water



329.5 gallons of oil

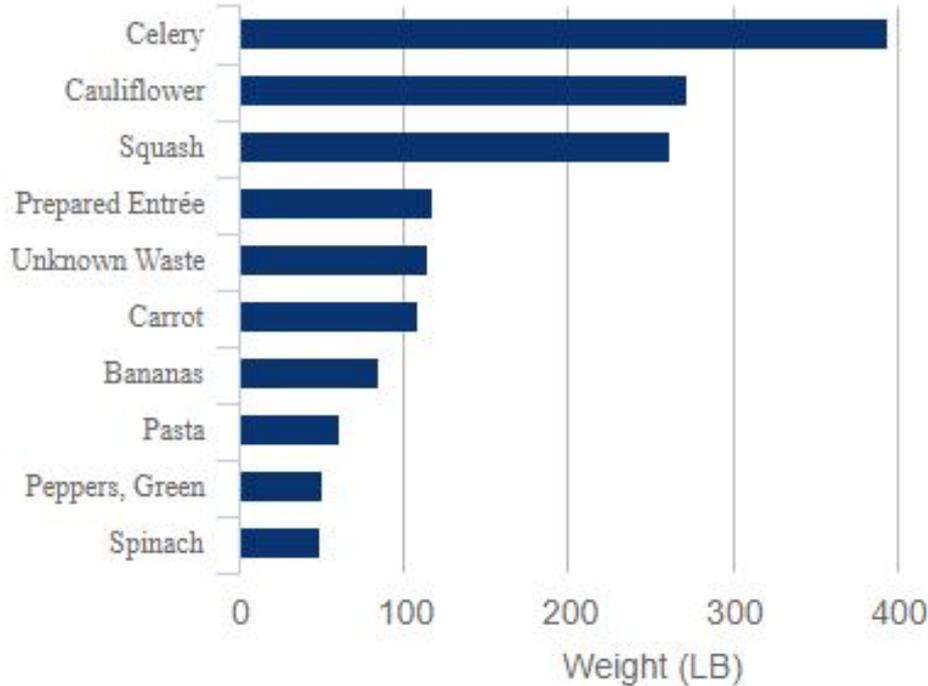


0.7 cars on the road

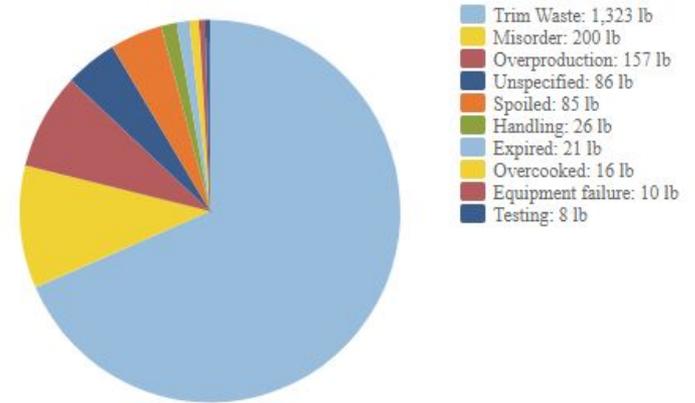


Reports

Top Waste Foods (Weight)



Top Loss Reasons (Weight)



Participating Employees

Operator	Transactions	Last Participation	Average Transaction Time
Brian dewitt	33	12/17/2018	15 sec
jane	31	12/17/2018	9 sec
April Servold	27	12/18/2018	13 sec
Candy ma	27	12/21/2018	14 sec
Joy N	27	12/17/2018	8 sec
Dignora S	18	12/21/2018	14 sec

GOAL

vegetable trim waste

ACCOMPLISHED



REDUCTION GOAL

25%

STARTING WASTE

156 lb

FOOD ITEM

All Food Items

LOSS REASON

Trim Waste

FINAL REDUCTION AMOUNT

36%

ENDING WASTE

99.6 lb

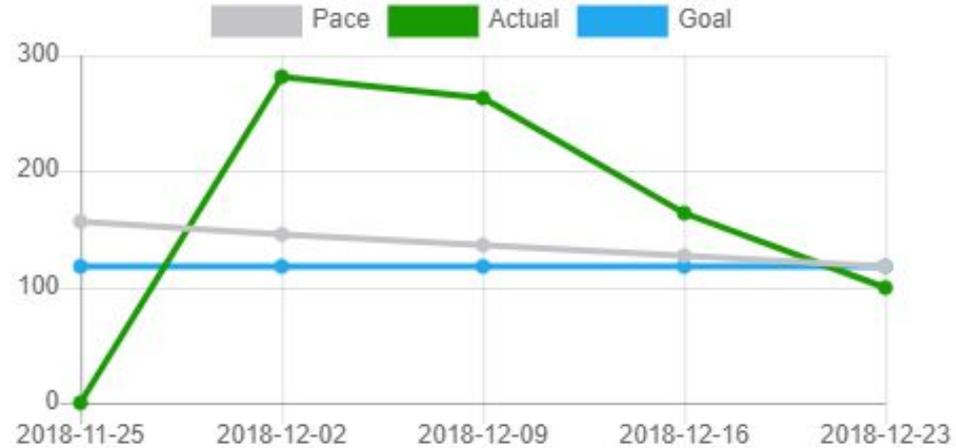
START DATE

2018-11-26

END DATE

2018-12-23

PROGRESS CHART



Opportunities for Change

- Adjust purchasing habits
- Adjust order guides
- Adjust menus
- Identify training needs
- Implement safe re-use



Opportunities for Change



LeanPath in Schools

School Satellite Kitchens



School Cafeterias



LeanPath 360 FS Tracker in School Satellite Kitchen

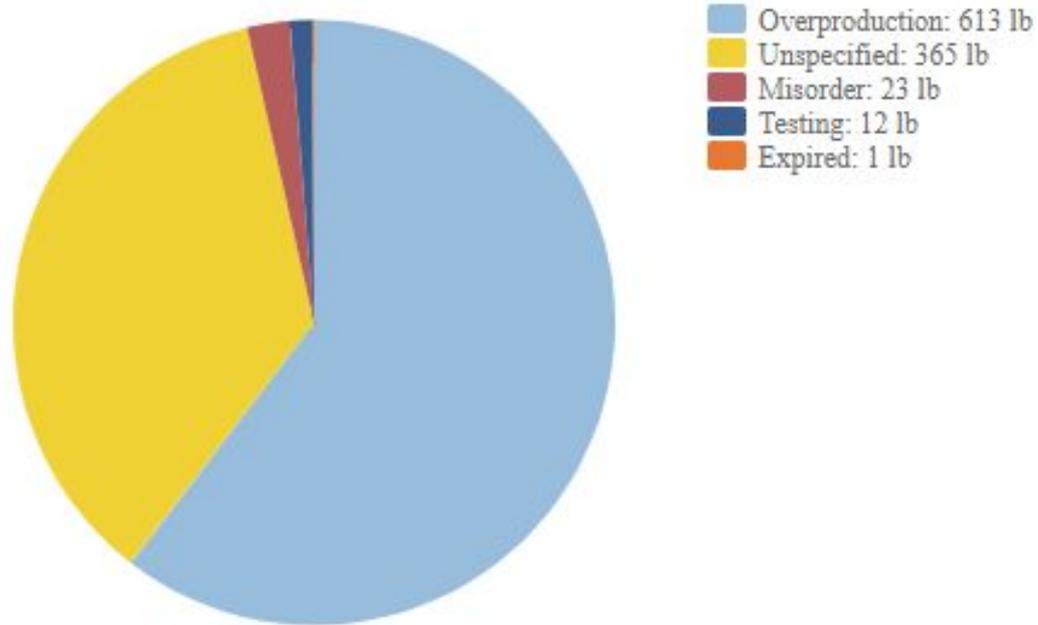
- One School Kitchen (back of house)
- Only compost bin in kitchen
- Track by employee
- Track by entree, side or salad bar
- Track by waste reason



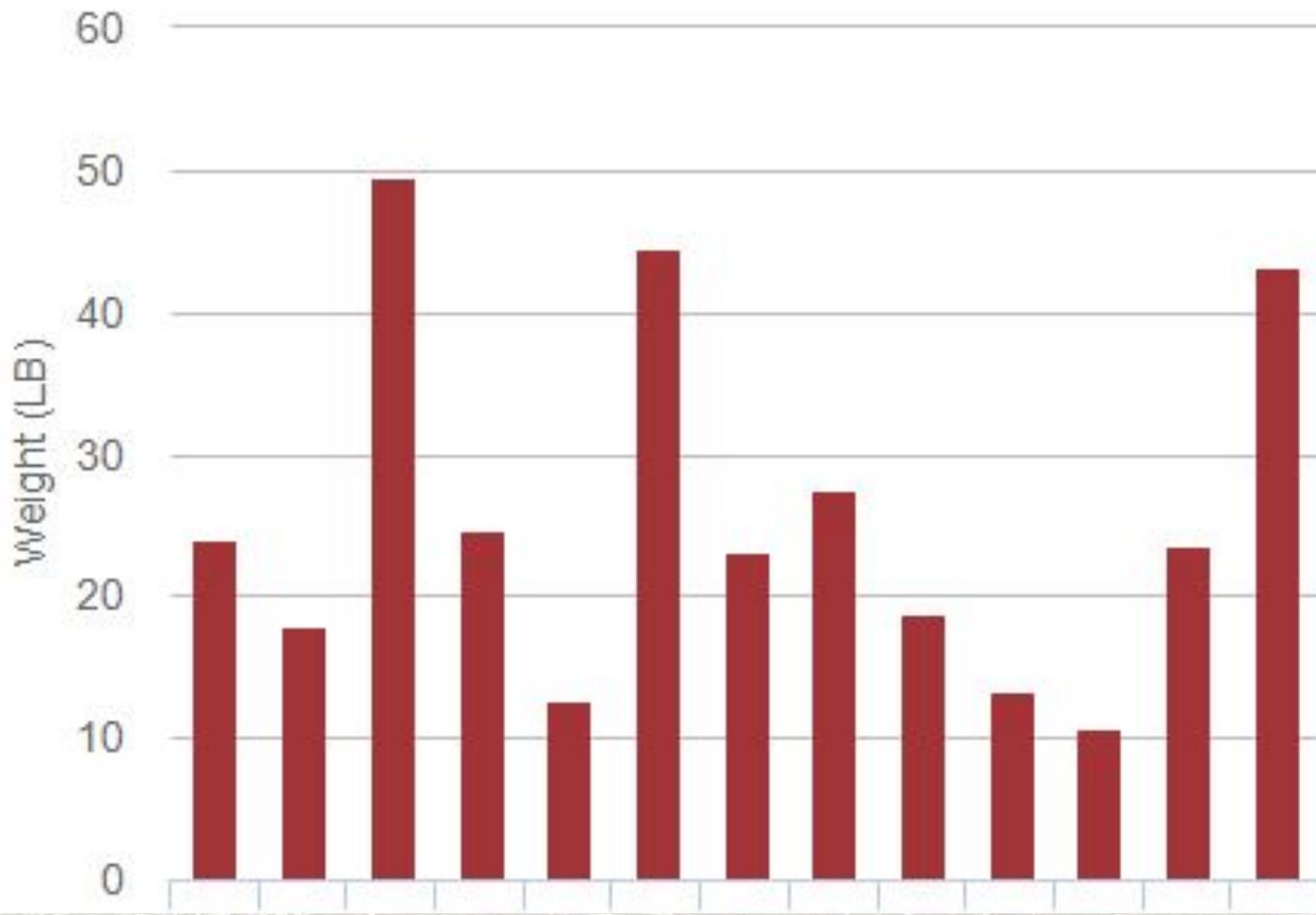
Photo:

Reports

Top Loss Reasons (Weight)



Waste Trend (Weight)



Hi Laura Smith,

Here is your weekly progress update on the active goals at Meadowlark School. Your goals are grouped by Location below.

LOCATION:

Meadowlark - PreConsumer

In Progress

Entree waste

Your goal weight:

50.4 lb

Last week's weight:

52.1 lb

This goal ends on:

2018-12-23

Number of Days Remaining in Goal:

21

LeanPath Spark in School Cafeterias

- Six School Cafeterias (front of house)
 - Three more to be installed next semester
- Scale under regular cafeteria compost bin
- Track lbs per transaction
- Projects real-time data in cafeteria



Photos:

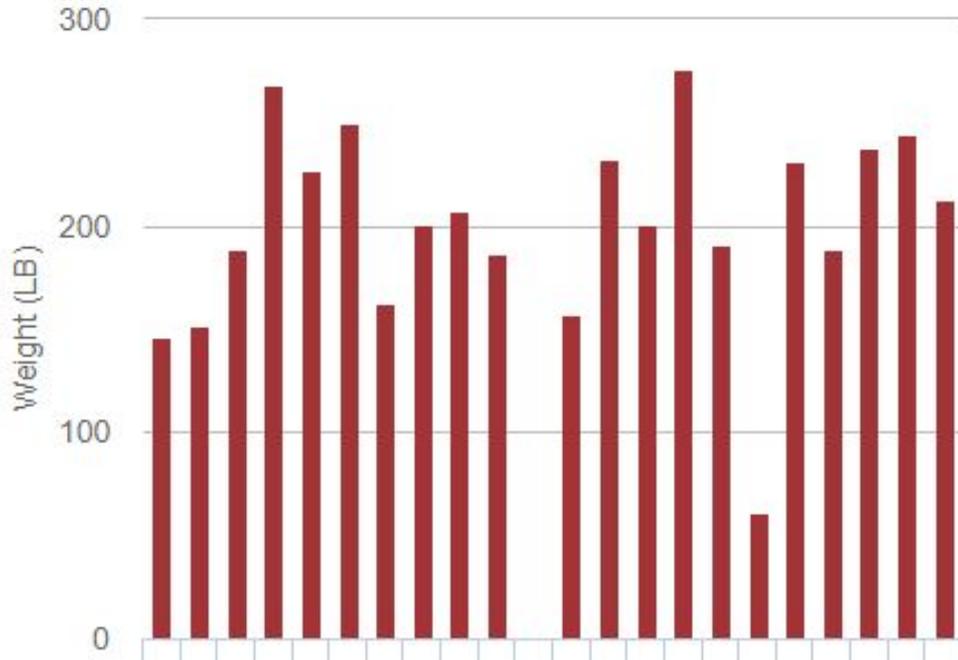


Real-Time Display



Reports

Waste Trend (Weight)



Site	% Change in Food Waste vs. Baseline (Weight)	Amount Change (Weight)
Columbine Elementary School	-21.92%	445.03
Centennial Middle School	-3.69%	126.52
Fireside Elementary School	+1.02%	17.50
Douglass Elementary School	+3.05%	57.09

Waste by Day of Week (Weight)



Paying for LeanPath

- \$10,000 from Boulder County's Resource Conservation Division's Zero Waste funding program (2017)
- \$24,000 from the Colorado Department of Public Health and Environment's Recycling Resources Economic Opportunity mini-grant program (2018)
- \$9,400 from Boulder County's Resource Conservation Division's Zero Waste funding program in (2019)
- \$22,000 from World Wildlife Fund to expand food waste education in schools (2018-19)
- \$14,190 from Boulder County's Resource Conservation Division's Zero Waste funding program in (2020)



Questions?



Laura Smith

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