in Boulder Valley School District
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

www.bvsd.org/food
Two Sources of Food Waste

Pre-Consumer

Post-Consumer

www.bvsd.org/food
Tracking → Awareness → Action = Prevention

“Traditional” K-12 food waste routes

Newer ideas for K-12 food waste

www.epa.gov/foodscrap

www.bvsd.org/food
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!

Source: www.bvsd.org/food
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

www.bvsd.org/food
Immediate Feedback

YOUR REPORT WAS RECEIVED!

FINANCIAL IMPACT

<table>
<thead>
<tr>
<th>Item Value:</th>
<th>$31.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>If Wasted Daily for a Year:</td>
<td>$11,315</td>
</tr>
</tbody>
</table>

Abby D STATS

<table>
<thead>
<tr>
<th>Reports:</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Team Rank:</td>
<td>3</td>
</tr>
</tbody>
</table>

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

www.bvsd.org/food
**GOAL**

**vegetable trim waste**

**ACCOMPLISHED**

![Checkmark]

**REDUCTION GOAL**

25%

**FINAL REDUCTION AMOUNT**

36%

**STARTING WASTE**

156 lb

**ENDING WASTE**

99.6 lb

**FOOD ITEM**

All Food Items

**START DATE**

2018-11-26

**LOSS REASON**

Trim Waste

**END DATE**

2018-12-23
Opportunities for Change

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

www.bvsd.org/food
Opportunities for Change

www.bvsd.org/food
LeanPath in Schools

School Satellite Kitchens

School Cafeterias

www.bvsd.org/food
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

www.bvsd.org/food
Reports

Top Loss Reasons (Weight)

- Overproduction: 613 lb
- Unspecified: 365 lb
- Misorder: 23 lb
- Testing: 12 lb
- Expired: 1 lb

www.bvsd.org/food
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

www.bvsd.org/food
Real-Time Display

Food Waste @ This Location
Dashboard Waste Totals

- Last Month: 807.2 LB
- Current Month So Far: 571.3 LB
- Projected End of Month: 961.8 LB

What can YOU do to reduce food waste?

Did you know?

- Food Waste = Wasted Resources
- Last Month: 807.2 LB Food Wasted
- This Cafe. Your Plates. That's like wasting 40,360 gallons of water

www.bvsd.org/food
Reports

Waste Trend (Weight)

<table>
<thead>
<tr>
<th>Site</th>
<th>% Change in Food Waste vs. Baseline (Weight)</th>
<th>Amount Change (Weight)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Columbine Elementary School</td>
<td>-21.92%</td>
<td>445.03</td>
</tr>
<tr>
<td>Centennial Middle School</td>
<td>-3.69%</td>
<td>126.52</td>
</tr>
<tr>
<td>Fireside Elementary School</td>
<td>+1.02%</td>
<td>17.50</td>
</tr>
<tr>
<td>Douglass Elementary School</td>
<td>+3.05%</td>
<td>57.09</td>
</tr>
</tbody>
</table>

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)

www.bvsd.org/food
Questions?

Laura Smith

laura.a.smith@bvsd.org