

# Eco-Reps Passion Project Presentations

4/13/2020



The University of Vermont

# Order of Operations

Name	Project
Mackenzie Laverick	UHS Swap Shelf
Lauren Waibel	Expanded Compost Collection in Harris Millis
Dallas Brummer	Shower Timers in Harris
Minnie Brown	Food Values Tabling
Mia Papageorge	Off Campus Food Guide
Ayanna McDaniel	Advancing Composting Participation in MAT
Ailey Bosworth	Dining Hall Passport
Amanda Minsk	Advancing Composting Participation in CWP
Ali Drew	Howe Library Composting Initiative
Emily Johnston	Off Campus Act 148 Compliance Video
Clare Nelson	Reductarian Cow
Amanda Vilensky	Mercy Lighting Audit & Recommendations
Natalie Connor & Annie	Bringing Bulk Food to CatPause
Annie Selle	Upcycled Sculpture

## Everyone

- Videos on, but muted
- "side by side" view is recommended
- Use the chatbox and "reaction" feature

## Presenters

- Remember who is before you so you are ready to go
- Set a timer, present for 3 min. (Makayla will interrupt if you go too far over)
- 2 min Q/A
- Caylin flips slides

## Audience

- Mute yourself unless asking a question
- Ask questions in the chat as we go, Caylin will read to presenter
- Can also unmute for a question

# UHS Swap Spot

Mackenzie Laverick

## What is it:

A location for students to exchange new or used goods that they no longer want.

## Why have it:

This system helps break up the linear consumption cycle and encourages students to reuse and recycle! Many students have things they receive as gifts that they don't actually want, or grow old of the things they already have. To prevent these unwanted items from going to the trash or straight to the recycling, instead letting the community reuse them first! At the end of each semester, excess items can be taken to Goodwill or the Salvation Army and donated. Items that can no longer be used can be broken down for parts or recycled.



# UHS SWAP SPOT

LOCATED IN THE UHS COMMON ROOM

**DONATE UNWANTED  
GOODS AND PICK  
SOMETHING UP IN  
RETURN!**

## WHY HAVE A SWAP SPOT?

This system helps break up the linear consumption cycle and encourages students to reuse and recycle!

## HOW DOES IT WORK?

Everything is by donation. Items must be in good and useable conditions, students should not donate anything that they wouldn't give to a friend.

- Food must be non-perishable and unopened.
- Clothes should be in good condition and will be periodically taken to VSTEP thrift sales located in the Rosa Parks Room in the Davis Center.

### Other Acceptable items:

- School/office supplies
- Art/décor
- Games
- Cleaning supplies
- Books/Eertainment

### Unacceptable items:

- Medications
- Opened/perishable food
- Used makeup products
- Broken products/appliances.

# UHS Swap Spot Cont.

## How it works:

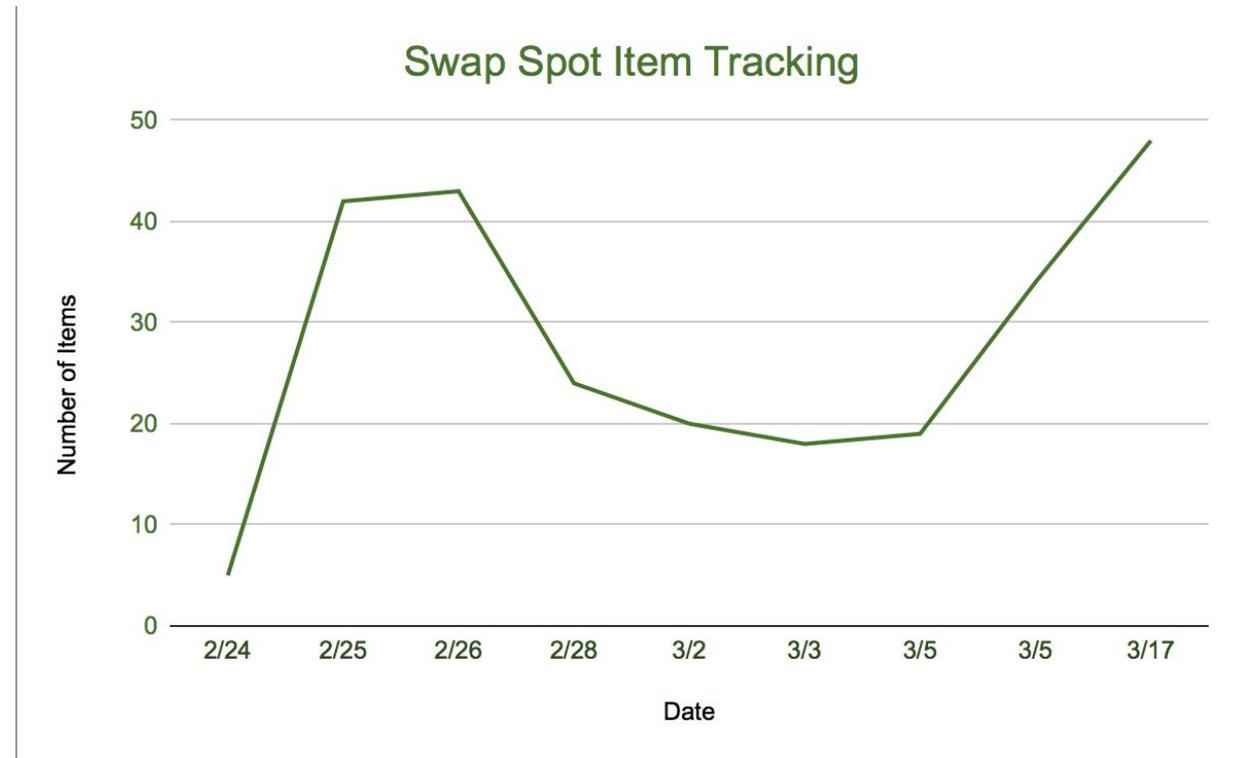
I set up a shelf in the UHS lobby where students can drop stuff off and pick things up. Everything is free by donation and free to take, maintained by the honor's system. Guidelines about what is acceptable to leave are by the shelf and I checked in every few days to make sure everything's running smoothly.

## Results (thus far):

The Swap Spot was well received and used, a chart showing the in/out flux of items from the few weeks it was up and I was able to monitor the shelf are to the right.

## Future movements:

- Continuing this project, the swap spot is very self-sustaining and future UHS ecoreps can continue to monitor
- Helping VSTEP/SGA set up a permanent thrift store on campus.



**Questions?**

# *Compost Pilot in the HM Complex*

**Lauren Waibel**

- **Un-Fun Fact:** 300 lbs of trash/week is collected in Res Halls (out of 32,000 lbs/week across campus)
  - a lot of this is compostable brown paper towel matter!
- students trash a lot of compostable items...
- **Goal:** reduce what students put into the landfill, reduce UVM's waste!
- starting with a pilot population: Harris Millis Complex residents



# How it happened:

This required a lot more external help than I initially expected...

- UVM Recycling and Zero Waste (Corey & Grace)
- IRA (generous funding)
- UVM Custodial Staff (Stephane)

The budget, \$1422 🤔 from IRA, was used for...

- new green compost bins for under bathroom sinks
- new compost bins for waste rooms
- new mini trash bins for non-compostables in bathrooms
- compost bin bag liners
- marketing materials

## The Marketing and Prep Process...

- descriptive, permanent posters
- LC newsletter announcements
- bulletin board



## ... and finally, the Physical Process!

- custodial staff putting bins in place
  - establishing new waste collection routine
- hanging signs
- monitoring the successes and flaws of the pilot
  - collecting data using multiple spreadsheets
  - also shoutout Dallas!

		signs in place?	correct liners?	% compost contamination	% trash contamination
<b>week 1</b>	<b>harris floor...</b>				
	1	yes	yes	-	-
	2	yes	yes	-	-
	3	yes	yes	-	-
	4	yes	yes	-	-
<b>week 1</b>	<b>millis floor...</b>	yes	yes	-	-
	1	yes	yes	-	-
	2	yes	yes	-	-
	3	yes	yes	-	-
	4	yes	yes	-	-

# Coronavirus and Beyond

**Although only in its early weeks, the pilot went well and most bathrooms and waste rooms had <5% contamination.**

**For now, the project has been postponed due to lack of on-campus students. :(**

**Original hope was to expand the pilot in future years to more ResHalls...**

**The infrastructure and planning is already in place!**

**Next year, this program will continue in Harris Millis with EcoReps and/or UVM R&ZW Staff**

**Hopefully, it will expand into future halls in coming years! Definitely could be implemented with the work of a future change agent.**

# Brown Paper Towel Composting



That's all!

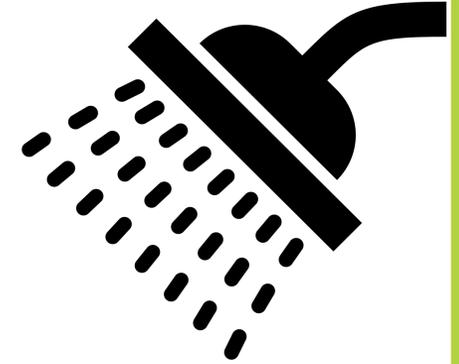
Ask me your questions!





# Shower Timers in Harris Hall

Dallas Brummer



## Goals:

- Each year in Harris hall alone, over 8 million gallons of water are used!
- To reduce this number, I installed shower timers in each shower of the Harris building to see if there was behavioral change and a reduction in water consumption among students

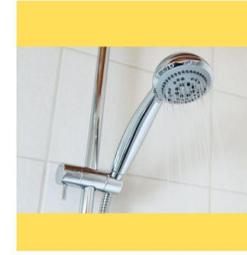
## Methods:

- Each week I collected data on the quality of timers and posters in all of the bathrooms
- I will also be releasing a google survey for Harris students to get direct feedback on their experience with the shower timers

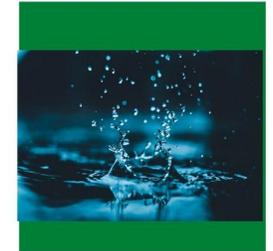


## Resources Used

- Used Eco-Rep shower timers from previous years (65 timers)
- Reused laminated Eco-Rep signs to alert students of the installation of these timers
- Announcement made in sustainability newsletter
- Borrowed sandwich board from sustainability learning community to advertise the installation



## SHOWER TIMERS SURVEY



### INFO

In order for us to see behavioral change, we are conducting a survey from Harris residents. You can find the survey at <https://forms.gle/Y2Uj5DUTJq6DoLvC6>



FOR MORE INFORMATION, CONTACT YOUR BUILDING ECO-REP  
DALLAS.BRUMMER@UVM.EDU

# Coronavirus Effects

## Results:

- Luckily I was able to collect 7 weeks of data
- Survey did not receive enough responses to be useful in evaluated behavior changes
- Overall, the timers received positive feedback

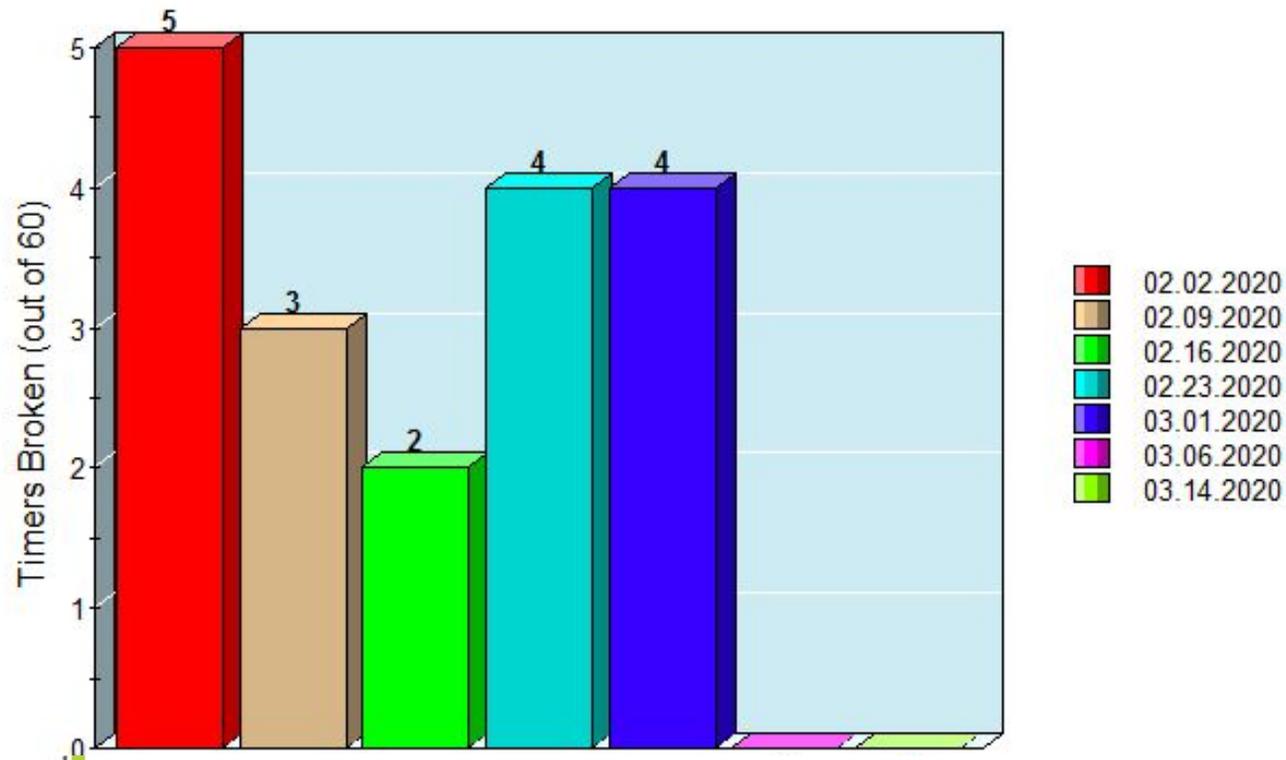
## Next Step:

- The Clean Energy Fund awarded UVM approximately \$5,000 to install shower timers this Fall
- With this funding we will be purchasing shower timers and distributing them to all residence halls on campus.
- Will be working with SGA and past Eco-Rep, Mary (L&L CA during 2018-2019), to help distribute these timers and use data from this year and previous years as reference

You get a shower timer and you get a shower timer!!!



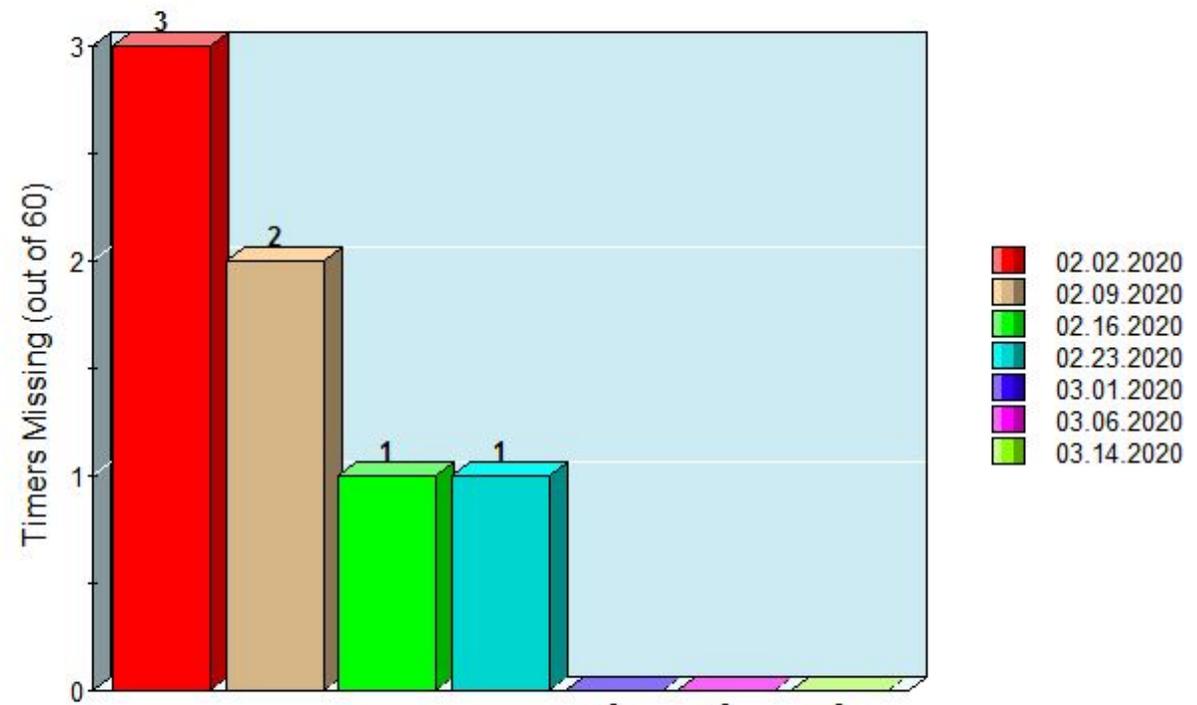
## Number of Broken Timers



Over the seven weeks, 18 out of the 60 shower timers ended up breaking. There did not appear to be any significant correlation between broken timers and floors.

Over the seven weeks, 7 out of the 60 shower timers went missing. There were two specific bathrooms where there continued to go missing (bathroom 6 on the first floor and bathroom 4 on the third floor).

## Number of Missing Timers



**Questions???**

# Food Values Tabling- Minnie

## Purpose/Goals:

- Spread awareness of the environmental, animal welfare issues, and health impacts of diet. Very few people know exactly where their food comes from and the impact their diet can have on these issues.
- Awareness. People cannot change their behavior if they are not aware of their impacts.
- Teach people the importance of knowing where their food comes from and the negative (but also positive) impacts it can have on one's health and the environment. Aim is NOT to blame, just inform.

## Methods:

- Tabling at unlimited dining halls (target on-campus students).
  - Wednesdays 5:30-7:30
- Materials:
  - Poll question: "What is your primary food value" -environment, health, animal welfare.
  - Info sheets/brochures on topics
  - Pledge sheet
  - Stickers!!

## Results/COVID-19 Impacts

- Was able to table at Central, Redstone, and Trinity. Harris Millis was scheduled after break.
- Materials as well as poll and pledge results were left at school.
- Approx. participation: 100-150 participants in poll. Poll results: Most votes towards health and environment, significantly less for animal welfare.



## Notes/Takeaways:

- Lots of good conversations!!
- Best participation/conversations were with people who made their way to table themselves.
- Lots of "oh I didn't know that" and "what are food values;" Could tell people were actually learning something
- Less on the table the better- people are more interested in the interactive parts than info packets.
- Improvements: Better communication with dining; seemed like there were some confusion with staff

**Questions???**

# Off campus food guide: Mia

## Goals

- create a guide for off campus students on how to be food independent (obtaining food: buying or growing)
  - price comparisons between different grocery stores
  - bulk shopping
  - garden tips
    - what grows best in VT (summer and root vegetable focus)
    - vertical gardening
    - window gardening
    - microgreens
    - herbs
    - community gardens
    - give a timeline of gardening from start to results
    - how to regrow certain veggies from ends/ scraps
- food insecurity resources (food pantries)
- QR code to Emily's off campus composting video



# Off campus food guide- Mia

## Progress

- made a draft about info in guide
- was going to send to Maya to make the guide beautiful after Spring Break :(

## Corona effects

- more research was necessary about local Burlington scene and prices
  - price comparisons of essential goods between different grocery stores in the Burlington area hard to do from Indiana
- passion -> stress.

# Table of Contents

[RECIPES](#)

[NUTRITION](#)

[STUDENT ORGANIZATIONS](#)

[COOKING CLASSES & TUTORIALS](#)

[Cooking Classes](#)

[Online Tutorials](#)

[GROCERY STORES](#)

[Stores within walking/biking distance from Central Campus](#)

[Stores within walking/biking distance of North Campus](#)

[Stores that are further from campus](#)

[DELIVERY SERVICES](#)

[SPECIALTY GROCERY STORES](#)

[TRANSPORTATION](#)

[SAVING MONEY ON FOOD](#)

[QUICK TIPS FOR FOOD PLANNING & SHOPPING](#)

<http://sustainability.umich.edu/media/files/UpdatedFoodGuide.docx.pdf>  
University of Michigan's Sustainable Food Program has a guide! The guide was created as part of a project for the course ENVIRON 391: Sustainability and the Campus during the winter semester of 2015.

Any questions  
or comments?



You about my  
passion project

# COMPOSTING IN MAT- Ayanna's Passion Project

## The Problem

- Lack of compost participation in reshall
  - Compost bins mostly empty
  - Always a lot of compost bags at front desk

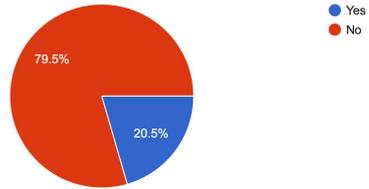


## My Goals

- Increase composting participation
- In order to do this
  - Preliminary compost survey to see who participates
    - Encourage students to fill out with \$20 gift card raffle
  - Advertisement of the composting program + benefits
  - Final survey to see what changed



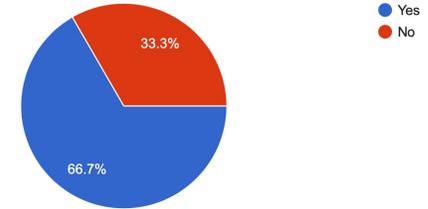
Did you know that there are free compost bags located at the MAT front desk for you to compost in your room?  
39 responses



79.5% of participants did not know that there were compost bags at the front desk



Did you know that there are compost bins in the MAT lobby?  
39 responses

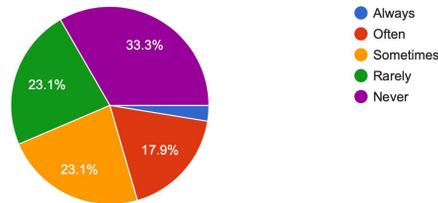


33.3% of participants did not know of the compost bins in the lobby

## Results

39 participants in the survey

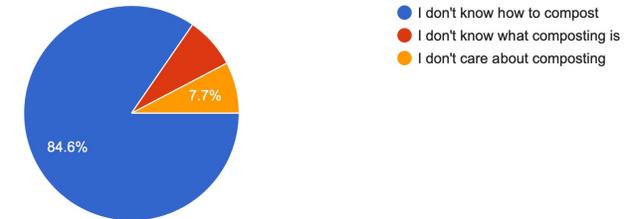
How often do you compost in MAT?  
39 responses



Over half of participants (56.4%) rarely or never compost



If you selected never on the question above, why don't you compost?  
13 responses



Majority of the participants that never compost don't know how to (84.6%)

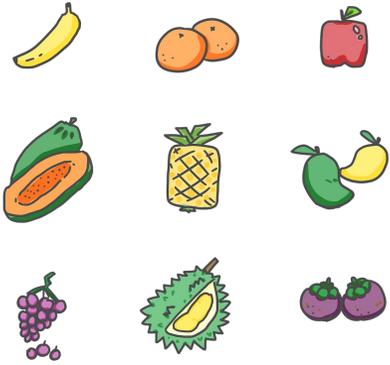
# Conclusion

## How COVID 19 Affected my Plans + Moving Forward

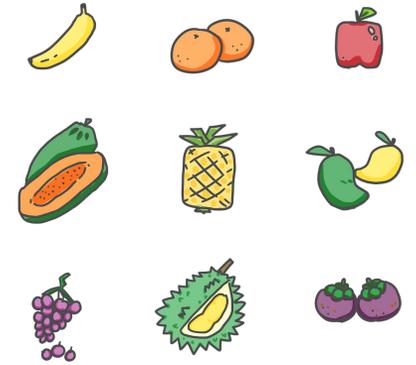
- Unable to continue advertisement due to not being in dorms
- Therefore, unable to make change in my building's composting habits
- On a positive note
  - I was able to see how many people compost, if they know about composting, their fears, and what path future change agents of MAT can continue in

**QUESTIONS?**





# Dining Hall Passport Ailey Bosworth



- **The goal** of my project was to make students explore other dining options in order for them to be more knowledgeable about the options on campus
  - I was interested in making sure students were able to get food on a consistent basis no matter where they were in case a dining hall was busy
  - The audience was mostly students who only ate at Central Dining and the Davis Center to make them aware of all the choices

## **Methods:**

- The budget for this project was the cost to print the brochures
- Stakeholder role in achieving the project
  - UVM Staff/Faculty → Dining really helped me with my project
- Behavior change tactics used was that the passport would make students aware of other locations with good options that are less trafficked. The hope is students would be introduced to new places and want to go back.

Each student would receive a passport and get it stamped to get one of the prizes below

Spice up your dining experience by opting to eat at a dining location you may not usually choose!

Present this filled out passport at the register at Central Campus Dining in order to get one prize:

-Half-off UVM dairy bar pint from Marché or Redstone Market

-Half-off a smoothie at the UVM Dairy Bar

-Two small coffees at Campus Perk or Cyber Café

-Free bagel with cream cheese at Marché



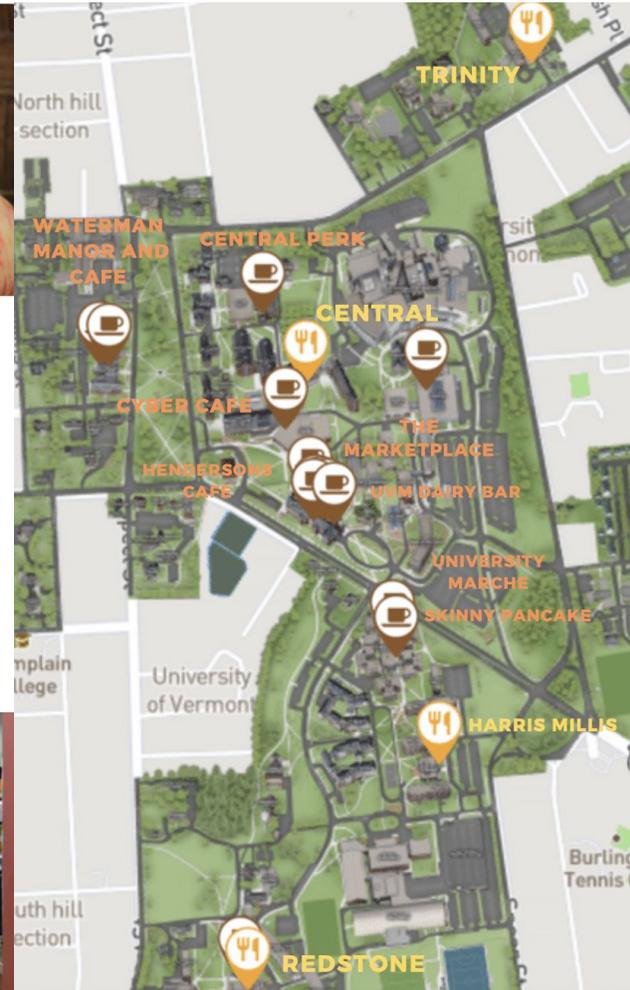
### Contact Us

[amboswor@uvm.edu](mailto:amboswor@uvm.edu)  
with questions

BY UVM ECO-REPS

**UVM**  
**DINING**  
**Passport:**  
Explore the  
Options and  
Cash in!

March 23rd-April 3rd



### DINING OPTIONS

GET YOUR PASSPORT STAMPED!  
MARCH 23RD-APRIL 3RD



#### HARRIS MILLIS

Claim to fame: PeaPod dinners with good vegan and vegetarian options and the famous garlic bread. Don't forget about ice cream for dessert.



#### REDSTONE UNLIMITED

Claim to fame: Vermont Kasher catering meals several times a week plus veggie sausage at breakfast, vegan cream cheese for bagels, and yummy natural peanut butter.



#### TRINITY / NORTHSIDE DINING

This dine-in location proudly features Mindful meals, exhibition cooking, deli, soup and a salad bar. Claim to fame: Peaceful atmosphere and rarely busy.

# How Coronavirus Changed My Project:

## Results:

- Since I am not at school and can't follow through with this project this year, we were not able to measure any results
- Up to this point my project was successful and ready to go, all the brochures were printed
- I learned the importance of going with the flow because my idea changed a lot along the way and even now since I am not able to do it

## Next steps:

- I would hope that dining uses the passports next year
- I didn't get to hand them out and see the results or if people liked the prizes that I chose, which would have been nice to see
- Another Change Agent could definitely follow through with my project next year and I would love to see that!

**Questions???**

# Compost Passion Project!

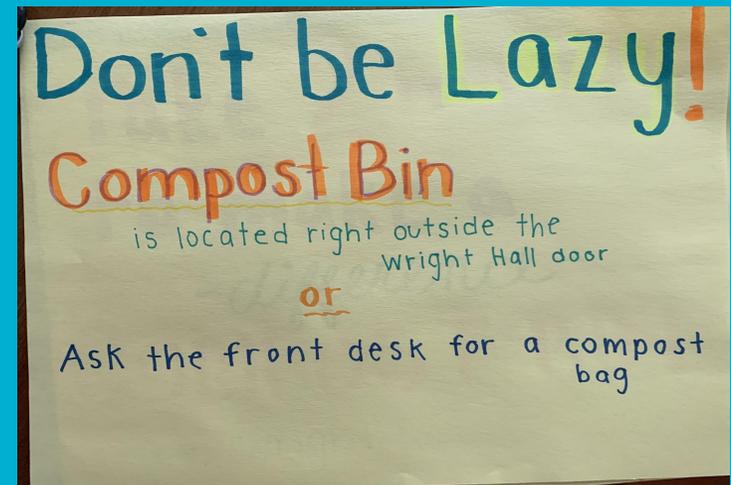


Amanda Minsk

# Original Passion Project

**Problem:** Students do not frequently use the Compost Bins in their resident halls

**Goal:** Enhancing educational composting signage



# *~Alternative~* Passion Project

**Problem** : my family does not compost

**Goal**: create a composting system and teach them how to accurately compost!



# How I Began...

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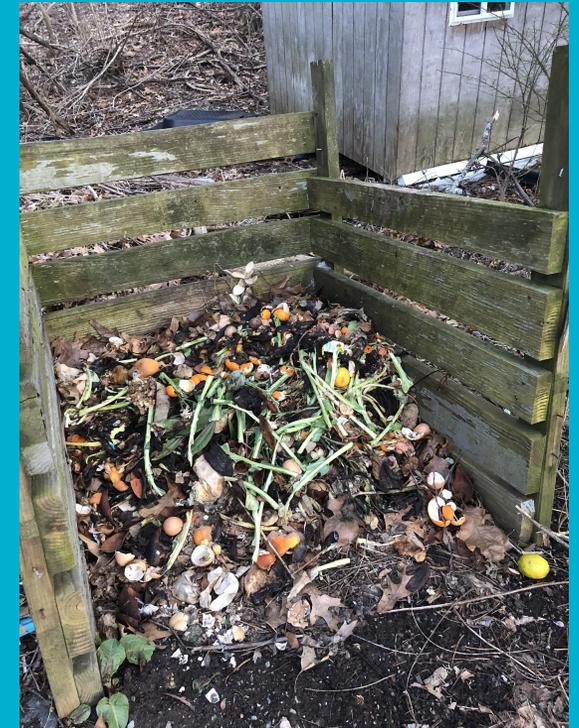
Consulted Auntie Susie

She taught me the basics about compost and what can and can not go in the compost

Their Compost



Compost Tumbler

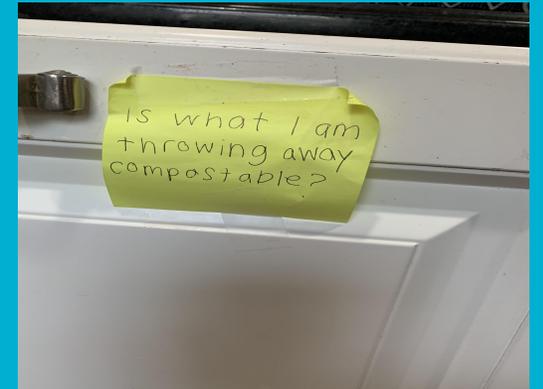


# Composting in my home

1. Talked to my family about starting to Compost at home
2. Found a location for the Compost Bin and outdoor location for the Compost to go
3. Then we were ready to go!!!

## How it started off

- Lots of Reminders!!
  - Notes around the kitchen and verbal reminders
- Not much participation from the family

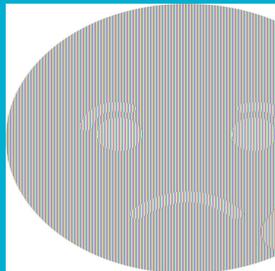


# Who Composted the Best

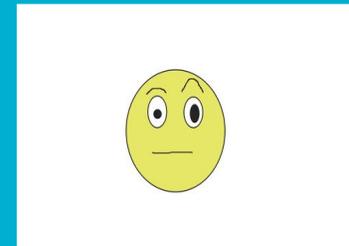
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After 5 days of starting the project

1. Amanda
2. Mom
3. Katie (sister)
4. Dad



After 10 days



# Results

- In the beginning only I was the one who composted
- After a couple days and reminders about having the compost I started to see more food scraps
- Overall, I think we compost 60% time when we could compost it

# Next Steps

- Have my family keep the compost going when I am back at UVM
- Compost more foods
- Begin composting newspaper and cardboard
- Involve my Neighbor

**Questions???**

# Compost in Howe Library

Ali Drew

The goal of my project was to draw attention to the new compost bins in the Howe library.

I was interested in spreading awareness about the compost bins because they were installed summer of 2019, so most students/faculty were not aware of them.



# How I Went About It: Posters

## THERE'S COMPOST IN HOWE!

Cyber Café & Reference Desk



Take an extra 3 minutes to reduce your carbon footprint for the sake of the planet!



## What Goes Where: Cyber Café

### COMPOST

Sandwich containers



Small Simply To Go containers



Salad container



Speeder & Earl's cup\*



Any "ECO" plastic



\* look for black text that says "100% compostable"

### RECYCLING



Sushi container

Yogurt container (not lid)



Sabra Hummus container (not surrounding plastic)



Speeder & Earl's coffee cuff



### TRASH

Speeder & Earl's coffee lid



Snack bags (brands & options are rotating)



## How I Went About It: Waste Audit

Waste audit to see if offering and advertising the compost bins makes a difference in the amount of compostable items found in the bins.

Thanks to the library staff & Cyber Café staff that gave me permission to hang up posters & conduct a waste audit. They were all very excited about my project!



# RESULTS & NEXT STEPS

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## Challenges with the Coronavirus

I was unable to complete the waste audit which was going to show us if the compost bins/posters actually made a difference the amount of compostable items found in the landfill and recycling bins. I was also unable to put up the “What Goes Where? Cyber Café” posters in the library.

## Next Steps

A future change agent could also put up the “What Goes Where? Cyber Café” posters in the library.

Another change agent could complete the waste audit that I was planning to accomplish, and could push for getting a compost bin on every floor of the library.



# QUESTIONS?





# Off Campus Act 148 Compliance Video



Emily Johnston

- The **goal** of this project was to fill a gap in resources available to off-campus students and to educate the student body about Act 148.
  - Act 148 bans compostable material from landfills. Before this, there was no University-sponsored information about how off-campus students should compost.
- **Creating a Video**
  - This project was free :)
  - OSCRC (The Off Campus Student Resource Center) helped in directing what type of content would be best for off-campus students. This will be sent out in their newsletter.
  - CSWD also gave lots of resources and helped edit the script

# The Video

After researching the processes that go into compost and Act 148 itself, I wrote a script that detailed how to effectively remove food scraps from waste in Burlington that then was turned into this video:



Presents a guide to compost



University of Vermont Off-Campus Student's Guide to Composting

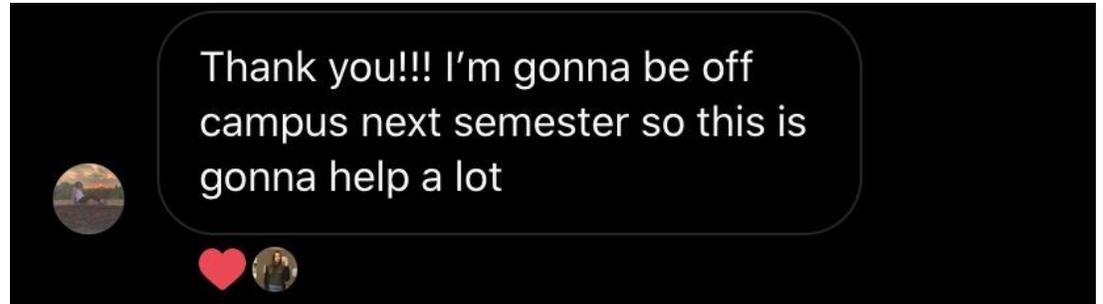
13 views • Apr 2, 2020

👍 0    💬 0    ➦ SHARE    ⌵ SAVE    ...

<https://www.youtube.com/watch?v=FqjcvVPQ0x0&t=1s>, Thanks to Kylie!

# Response/Reflection

- The video came out on the Eco-Reps Youtube page on April 2, 2020
- It has 14 views and 1 comment
- I received a DM from a UVM student who was excited to use it as a resource!
- I will continue to promote the video and as clubs send it out I hope it will get more views
- **Challenges:** I first filmed it on a whiteboard, a glare was distracting, had to change the format of the video



## Coronavirus effect:

- Since this was a video project, I was able to do it remotely
- The video was eventually supposed to be on screens around campus, only about 100 students are on campus so this form of engagement was lost
- It is hard to motivate students to click on a resource for a future problem when there is a pandemic ongoing on

**Questions???**

# Reducetarian Cow!

Clare Nelson

Mission : To spread the concept of becoming a Reducetarian to the student body

**Because perfection is silly, but *reduction is realistic***

1. Build a (somewhat) life-size cow sculpture
2. On the cow spots, write facts about the impact of the meat and dairy industry
3. Have a pledge poster so students can commit to practicing reducetarianism
4. Display in the library during earth week



# Corona

## Impact :

project flopped

cow abandoned



# so.... I built a compost bin!

Mission (revised) :

To **reduce the impact of my neighborhood's waste** and promote plant-based foods!

1. Got wooden pallets from a wine distributor
2. Recorded myself building the compost bin
3. Told my neighbors and offered to pick up their compost if they wanted to contribute!



**Questions???**

The image shows the exterior of a large, modern building with a prominent brick tower on the right and a long wing of windows on the left. The building is set against a clear blue sky and a green lawn. A large, semi-transparent pink rectangular box is overlaid across the middle of the image, containing the title text. A smaller, similar box is positioned below it, containing the author's name.

# **Mercy Hall Lighting Audit**

**Amanda Vilensky**

# Problem

Mercy hall has unsustainable, old lighting that:

- Wastes energy
- Causes headaches
- Can affect mental health
- Violates UVM safety regulations



# Solution: perform a lighting audit

Lighting audit= process that measures lighting conditions to determine cost-effective changes that can be made

- Take notes on Mercy hall lighting
- Calculate the amount of money and energy that can be saved if a cost-effective change was made
- Calculate the payback period
- Send to reslife



# Step one: what's in Mercy?



Number of  
fixtures



Type of  
fixture



Wattage



Number of lamps  
per fixture

This count was done with the help of **Rich Wolbach**, the UVM Energy Management Engineer

# Step two: find cost-effective replacement

Incandescent



Halogen



Fluorescent



LED



Lifespan:

about 1 month

about 1 month

about 1 year

about 3 years

some of the  
lighting in Mercy

most of the  
lighting in Mercy

what we want to  
change to

# Step three: put data into excel

FLOOR/ LOCATION	CURRENT			
	# FIXTURES	# LAMPS/FIXTURE	WATTAGE	HOURS PER YEAR
Hallway 3rd floor	15	2	32	8760
Hallway 2nd floor	15	2	32	8760
Hallway 1st floor	15	2	32	8760
Kitchen 3rd floor	2	3	32	1440
Kitchen 2nd floor	2	3	32	1440
Kitchen 1st floor	2	3	32	1440
Bathroom 3rd floor	5	2	32	6048
Bathroom 2nd floor	5	2	32	6048
Bathroom 1st floor	5	2	32	6048
Over sink in bathroom 3rd floor	3	1	32	6048
Over sink in bathroom 2nd floor	3	1	32	6048
Over sink in bathroom 1st floor	3	1	32	6048
Handicap shower fixture 3rd floor	1	1	13	1008
Handicap shower fixture 2nd floor	1	1	13	1008
Handicap shower fixture 1st floor	1	1	13	1008
Dorms 3rd floor	52	3	32	1440
Dorms 2nd floor	52	3	32	1440
Dorms 1st floor	52	3	32	1440

NEW	
# LAMPS	WATTAGE
2	10
2	10
2	10
2	10
2	10
2	10
2	10
2	10
2	10
2	10
1	10
1	10
1	10
1	7
1	7
1	7
2	10
2	10
2	10

# Step three (cont.) : put data into excel

FLOOR/ LOCATION	LIGHTING UPGRADE DETAILS		
	EXISTING DESCRIPTION	LAMPS OR FIXTURES	PROPOSED DESCRIPTION
Hallway 3rd floor	1x4 flourescent surface mounted, toggle switch	F	2x2 automatic
Hallway 2nd floor	1x4 flourescent surface mounted, toggle switch	F	2x2 automatic
Hallway 1st floor	1x4 flourescent surface mounted, toggle switch	F	2x2 automatic
Kitchen 3rd floor	surface mount flourescent 18 cell lens	F	set in the ceiling 2x2 Automatic
Kitchen 2nd floor	surface mount flourescent 18 cell lens	F	change to set in the ceiling 2x2 Automatic
Kitchen 1st floor	surface mount flourescent 18 cell lens	F	change to set in the ceiling 2x2 Automatic
Bathroom 3rd floor	surface mounted, suspect ceiling asbestos	L	LED replacement lamp
Bathroom 2nd floor	surface mounted, suspect ceiling asbestos	L	LED replacement lamp
Bathroom 1st floor	surface mounted, suspect ceiling asbestos	L	LED replacement lamp
Over sink in bathroom 3rd floor	old original lighting, wall mount single fixtures	F	New LED fixture
Over sink in bathroom 2nd floor	old original lighting, wall mount single fixtures	F	New LED fixture
Over sink in bathroom 1st floor	old original lighting, wall mount single fixtures	F	New LED fixture
Handicap shower fixture 3rd floor	single lamp flourescent ceiling mtd	F	Water-rated fixture
Handicap shower fixture 2nd floor	single lamp flourescent ceiling mtd	F	Water-rated fixture
Handicap shower fixture 1st floor	single lamp flourescent ceiling mtd	F	Water-rated fixture
Dorms 3rd floor	2X4 bilevel switching		prefer warm lighting, drop ceiling d-lamp to 2
Dorms 2nd floor	2X4 bilevel switching	L	prefer warm lighting, drop ceiling d-lamp to 2
Dorms 1st floor	2X4 bilevel switching	L	prefer warm lighting, drop ceiling d-lamp to 2

# Step four: calculations on the excel sheet

FLOOR/ LOCATION
Hallway 3rd floor
Hallway 2nd floor
Hallway 1st floor
Kitchen 3rd floor
Kitchen 2nd floor
Kitchen 1st floor
Bathroom 3rd floor
Bathroom 2nd floor
Bathroom 1st floor
Over sink in bathroom 3rd floor
Over sink in bathroom 2nd floor
Over sink in bathroom 1st floor
Handicap shower fixture 3rd floor
Handicap shower fixture 2nd floor
Handicap shower fixture 1st floor
Dorms 3rd floor
Dorms 2nd floor
Dorms 1st floor

SAVINGS		COST ESTIMATE	
WATTAGE	\$/ KWH \$0.158	LABOR (\$65/hour)	MATERIALS
660	\$913.49	\$487.50	\$3,000.00
660	\$913.49	\$487.50	\$3,000.00
660	\$913.49	\$487.50	\$3,000.00
152	\$34.58	\$65.00	\$400.00
152	\$34.58	\$65.00	\$400.00
152	\$34.58	\$65.00	\$400.00
220	\$210.23	\$162.50	\$50.00
220	\$210.23	\$162.50	\$50.00
220	\$210.23	\$162.50	\$50.00
66	\$63.07	\$97.50	\$600.00
66	\$63.07	\$97.50	\$600.00
66	\$63.07	\$97.50	\$600.00
6	\$0.96	\$32.50	\$100.00
6	\$0.96	\$32.50	\$100.00
6	\$0.96	\$32.50	\$100.00
3952	\$899.16	\$1,690.00	\$520.00
3952	\$899.16	\$1,690.00	\$520.00
3952	\$899.16	\$1,690.00	\$520.00

# Step five: send complete excel sheet to reslife

FLOOR/ LOCATION	CURRENT				NEW		SAVINGS		COST ESTIMATE		LIGHTING UPGRADE DETAILS		
	# FIXTURES	# LAMPS/FIXTURE	WATTAGE	HOURS PER YEAR	# LAMPS	WATTAGE	WATTAGE	\$/ KWH \$0.158	LABOR (\$65/hour)	MATERIALS	EXISTING DESCRIPTION	LAMPS OR FIXTURES	PROPOSED DESCRIPTION
Ground floor lobby	8	2	32	8760	2	10	352	\$487.20	\$260.00	\$80.00	bi-pin, 4 ft, fluorescent	L	LED replacement lamp
Ground floor lobby	13	1	26	8760	1	9	221	\$305.88	\$422.50	\$130.00	horizontal mount, GX24Q4 base, can lights CFL	L	LED replacement lamp
Ground floor common room	7	2	28	1460	2	10	252	\$58.13	\$227.50	\$1,400.00	2X4 Flourescent 32 cell egg crate lens	F	2x2 fixture embedded daylight
Ground floor lobby display	2	1	9	8760	1	9	0	\$0.00	\$65.00	\$6.00	LED one burnt out	L	LED replacement lamp
Ground floor 002B office	9	2	28	730	2	10	324	\$37.37	\$292.50	\$1,800.00	2X4 fluorescent	F	2x2 daylight sensor
Ground floor outside bathroom	2	2	28	1440	2	10	72	\$16.38	\$65.00	\$400.00	2X4	F	New LED fixture
Ground floor bathroom	1	2	13	720	2	5	16	\$1.82	\$32.50	\$3.00	drum ceiling mounted, bi-pin	L	LED replacement lamp
Stairwell south LED ceiling drum	7	1	9	8760	1	9	0	\$0.00	\$227.50	\$700.00	LED ceiling drum	F	REMPHOS high-low LED fixture
Stairwell south LED incandescent	1	1	60	8760	1	14	46	\$63.67	\$32.50	\$3.00	LED incandescent wall mounted, toggle switch controls	L	LED replacement lamp
North stairwell	4	1	9	8760	1	9	0	\$0.00	\$130.00	\$400.00	LED ceiling drum	F	REMPHOS high-low LED fixture
Bottom north stairwell	1	2	32	8760	2	10	44	\$60.90	\$32.50	\$100.00	1X4	F	REMPHOS high-low LED fixture
Hallway 3rd floor	15	2	32	8760	2	10	660	\$913.49	\$487.50	\$3,000.00	1x4 flourescent surface mounted, toggle switch	F	2x2 automatic
Hallway 2nd floor	15	2	32	8760	2	10	660	\$913.49	\$487.50	\$3,000.00	1x4 flourescent surface mounted, toggle switch	F	2x2 automatic
Hallway 1st floor	15	2	32	8760	2	10	660	\$913.49	\$487.50	\$3,000.00	1x4 flourescent surface mounted, toggle switch	F	2x2 automatic
Kitchen 3rd floor	2	3	32	1440	2	10	152	\$34.58	\$65.00	\$400.00	surface mount flourescent 18 cell lens	F	set in the ceiling 2x2 Automatic
Kitchen 2nd floor	2	3	32	1440	2	10	152	\$34.58	\$65.00	\$400.00	surface mount flourescent 18 cell lens	F	change to set in the ceiling 2x2 Automatic
Kitchen 1st floor	2	3	32	1440	2	10	152	\$34.58	\$65.00	\$400.00	surface mount flourescent 18 cell lens	F	change to set in the ceiling 2x2 Automatic
Bathroom 3rd floor	5	2	32	6048	2	10	220	\$210.23	\$162.50	\$50.00	surface mounted, suspect ceiling asbestos	L	LED replacement lamp
Bathroom 2nd floor	5	2	32	6048	2	10	220	\$210.23	\$162.50	\$50.00	surface mounted, suspect ceiling asbestos	L	LED replacement lamp
Bathroom 1st floor	5	2	32	6048	2	10	220	\$210.23	\$162.50	\$50.00	surface mounted, suspect ceiling asbestos	L	LED replacement lamp
Over sink in bathroom 3rd floor	3	1	32	6048	1	10	66	\$63.07	\$97.50	\$600.00	old original lighting, wall mount single fixtures	F	New LED fixture
Over sink in bathroom 2nd floor	3	1	32	6048	1	10	66	\$63.07	\$97.50	\$600.00	old original lighting, wall mount single fixtures	F	New LED fixture
Over sink in bathroom 1st floor	3	1	32	6048	1	10	66	\$63.07	\$97.50	\$600.00	old original lighting, wall mount single fixtures	F	New LED fixture
Handicap shower fixture 3rd floor	1	1	13	1008	1	7	6	\$0.96	\$32.50	\$100.00	single lamp flourescent ceiling mtd	F	Water-rated fixture
Handicap shower fixture 2nd floor	1	1	13	1008	1	7	6	\$0.96	\$32.50	\$100.00	single lamp flourescent ceiling mtd	F	Water-rated fixture
Handicap shower fixture 1st floor	1	1	13	1008	1	7	6	\$0.96	\$32.50	\$100.00	single lamp flourescent ceiling mtd	F	Water-rated fixture
Dorms 3rd floor	52	3	32	1440	2	10	3952	\$899.16	\$1,690.00	\$520.00	2X4 bilevel switching		prefer warm lighting, drop ceiling d-lamp to 2
Dorms 2nd floor	52	3	32	1440	2	10	3952	\$899.16	\$1,690.00	\$520.00	2X4 bilevel switching	L	prefer warm lighting, drop ceiling d-lamp to 2
Dorms 1st floor	52	3	32	1440	2	10	3952	\$899.16	\$1,690.00	\$520.00	2X4 bilevel switching	L	prefer warm lighting, drop ceiling d-lamp to 2
Laundry room	2	2	24	1440	2	7	68	\$15.47	\$65.00	\$20.00	2x2 recessed 2 footers, toggle switch control	F	2x2 automatic
Laundry room over the sink	1	2	32	1440	2	10	44	\$10.01	\$32.50	\$10.00	4 foot toggle switch control	L	LED replacement lamp
All floors elevator entrance	4	1	28	8760	1	10	72	\$99.65	\$130.00	\$40.00	1X4	L	LED replacement lamp
<b>TOTALS:</b>	<b>296</b>	<b>58</b>	<b>877</b>	<b>151,542</b>	<b>52</b>	<b>303</b>	<b>16,679</b>	<b>\$7,520.95</b>	<b>\$9,620.00</b>	<b>\$19,102.00</b>			

NOTE: 8760= LIGHTS ON 100% OF THE TIME

SIMPLE PAYBACK

3.82

Current KWH yearly consumption=  
132,902 KWH

New consumption=  
15,617 KWH

# Results

- The payback for this project would be 3.82 years
- The savings would be \$7,520.95 per KWH and 117,285 KWH per year



- There are safety hazards with toggle-switch control, so reslife should approve of these changes
- To take this further, do a light audit for the rest of Trinity Campus and get reslife's attention!

A big thank you to Rich Wolbach!!!  
And a big thank you to Caylin!!!



# Bulk Food in Cat Pause

Annie and Natalie

## Why we proposed the addition of a bulk section:

- Single-use plastic waste is abundant worldwide
- UVM pays a high fee for trash collection
- 87.4% of students say sustainability is important to them (OoS survey, 2018)
- Bulk snacks are generally less expensive, serving both Cat Pause and the student



<https://www.webstaurantstore.com/choice-stackable-topping-dispenser-with-notch-11-x-4-x-11/176TDN11.html>



<https://www.webstaurantstore.com/avaweigh-pc20-20-lb-compact-digital-portion-control-scale/334PC20.html>



Roll over image to zoom in

## 100 Natural Kraft Merchandise Bags, 5x7-1/2, No Gusset by WCI

by WCI

★★★★☆ 172 ratings

| 17 answered questions

**Amazon's Choice** for "brown treat ba..."

Was: \$7.50

Price: **\$6.50** FREE Shipping on orders over \$25.00 shipped by Amazon or get **Fast, Free Shipping** with Amazon Prime

You Save: **\$1.00 (13%)**

**Note:** Available at a lower price from **other sellers** that may not offer free Prime shipping.

Package Quantity: **100**

**100**

200

<https://www.webstaurantstore.com/one-piece-aluminum-scoop-12-oz/407AS12.html>

[https://www.amazon.com/Natural-Kraft-Merchandise-Gusset-WCI/dp/B00E9AAGLA?ref\\_=fscfp\\_pl\\_dp\\_9](https://www.amazon.com/Natural-Kraft-Merchandise-Gusset-WCI/dp/B00E9AAGLA?ref_=fscfp_pl_dp_9)

Thanks to our fantastic stakeholders:  
Robert Santry from the Bookstore,  
Veronica Beaugregard from Cat Pause, and  
Marissa Watson from UVM Dining

Other things to highlight:

- No major legal barriers
- We would have gotten supplies and begun implementation after spring break
- Buy a jar, bring your own, or Eco Ware it
- Found potential suppliers
- We hope the project can be continued next year from where we left off

Queeestiooons?

# Waste Demon Sculpture



Garbador

+



Rhydon

**"Can you defeat your waste???"**

# Materials - From the Dumpster!

- Wood and foam base → “Interesting Trash”
  - (kudos to Claire)
  - Attached with paper maché
  - Cans, opened and interlocked like scales
  - Bottles
  - Utensils
  - Bags
  - Plastic Caps
  - Paper scraps
- ◆ hockey puck
  - ◆ wire
  - ◆ baby bottle
  - ◆ holographic wolf
  - ◆ little plastic toys
  - ◆ strange little valves and parts of packaging





**Location:**  
McAuley Lobby

**Stakeholder:**  
Bech Evans

**Corona Impact:**  
Delayed until the fall

**Questions?**

**Thanks for Watching!!**