# TOLD Trash On the Lawn Day Training Guide



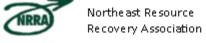


How to Plan and Perform a School-wide Waste Audit

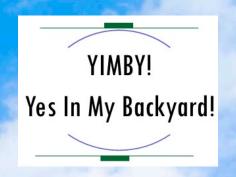
#### WELCOME COMMUNITY EDUCATORS AND ENVIRONMENTAL AMBASSADORS

Northeast Resource Recovery Association (NRRA) is pleased to present today's training which is made possible by a generous grant from the U.S Dept. of Agriculture Rural Development with the following goals:

- 1. Raise awareness of the opportunities in the community to divert food from landfill disposal (or incineration) by connecting the mid-scale generator, solid waste facility, processing treatment facility, composting facility, and food waste facility.
- 2. Expand NRRA's TOLD (Trash On The Lawn Day) technical assistance program for schools.
- 3. Reduce the environmental pollution and human health hazards associated with exploding and mismanaged batteries both rechargeable and single use.

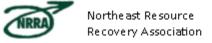






Thanks to the USDA Rural Utility Service, the program training is free. The goal of the program is for the trained participants to work together on creating a safer environment, knowledgeable staff on the proper storage and handling of hazardous materials and working in conjunction on solid waste issues.







#### About Us

In 1981, four New Hampshire municipalities founded the Northeast Resource Recovery Association, then called the New Hampshire Resource Recovery Association, to provide a clearinghouse for current, up-to-date information and a source of technical and marketing assistance in the general areas of waste reduction and recycling.

As amended July, 1995

Articles of Agreement of

Northeast Resource Recovery Association (formerly New Hampshire Resource Recovery Association)

Article 1. The name of this corporation shall be

Northeast Resource Recovery Association

Article 2. The object for which this corporation is established is

as a clearinghouse for relevant information, as a source of education in the field of solid waste management, as a cooperative agent with state, regional and local governmental agencies, as a market development service.





#### NRRA Coverage Area

- ✓ Vermont
- ✓ New Hampshire
- ✓ Southern Maine
- ✓ Northern Massachusetts
- ✓ Connecticut
- ✓ Rhode Island
- ✓ Any NRRA member town



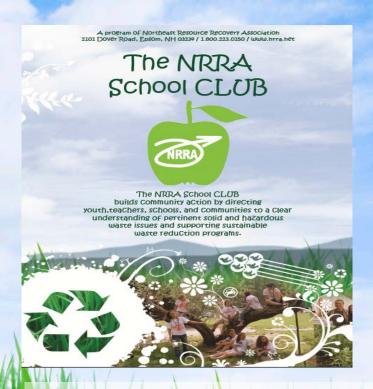


## NRRA's School Recycling CLUB

School Workshops



School News You Can Use Newsletter



Technical Assistance



Annual School Conference

theclub@nrra.net



#### Classroom Workshops

- Healthy Home,Clean Waters
- Waste = GlobalClimate Change
- Back to the Earth
- Garbage Guerrillas

#### School Technical Assistance

- Green Cleaning & IAQ Evaluation & Review
- Trash On the LawnDay (TOLD)
- Star Assessment





#### M.O.M. and NRRA Workshops



M.O.M.: Members/Operations/Marketing

monthly meetings

In addition, NRRA conducts workshops and facility tours several times a year that can be used for continuing education credits toward transfer facility operator certifications and renewals.

### NRRA SW FACILITY OPERATOR TRAINING MODULES

(Professional development credits where applicable)

- Operator Smack Down! A Safety and Public Relations Training for Waste Facility Operators
- 2. Things That Go BOOM! And Other Regulated Waste
- 3. Act 148 VT's Universal Recycling Law: What Do I Need to Know?
- 4. The Dirt on Dirt: Municipal Composting 101
- 5. Processed Glass Aggregate: A Certified Waste Derived Product
- 6. China Sword: Current Market Trends in Recycling









## TOLD Trash On the Lawn Day Training Guide





## How to Plan and Perform a School-wide Waste Audit

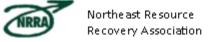


#### TOLD Preview

#### Maple Ave TOLD featured on WMUR:



Credit: WMUR



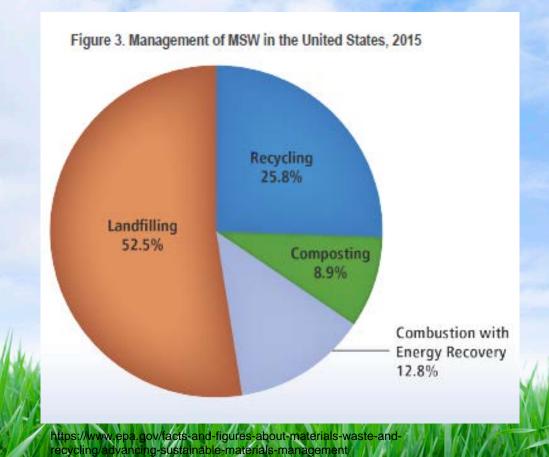
#### Why Trash On the Lawn Day?

- Collect baseline data regarding waste generation and management.
- Use data to target improvements on campus.
- Service to your school community.
- Leadership development.
- Grow your environmental club.
- Learn about important environmental issues.
- Great addition to student college applications and resumes.





#### To Tip the Scales on Waste





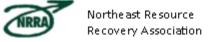
#### Four Major Steps

- Envisioning and Action Planning
- TOLD Audit Planning
- TOLD Event
- Students analyze and create the presentation of the Results & Action Plan Implementation.



#### Actions We Will Review

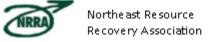
- 1. Planning Core group
- 2. Setting Goals Short-term and long-term goals
- 3. Identifying stakeholders Volunteers, custodial staff, etc.
- 4. Job assignments Promotion, day before, day of, clean up, etc.
- 5. Selecting location
- 6. Materials needed
- 7. Doing the waste audit What to expect
- 8. Presenting the results
- 9. Best practices Tips and techniques





## Envisioning and Action Planning

- Why should we do a waste audit?
- What do we want to accomplish?
- What are the lessons we want to teach?
- Develop an action plan by thinking about shortand long-term goals.
- How will we reach those goals?
- What is our timeline?
- How will we know if we have reached our goals?





#### 1. Planning

- Who is part of the core group? Who should be at your planning meetings?
  - Interested club members
  - Student volunteers
  - Adult advisor(s)
  - Head grounds/custodial staff member





#### TOLD Planning Schedule

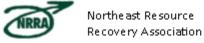
- Choose a date
- Schedule a planning meeting (2-3 weeks before event)
- TOLD Event
- Post TOLD Actions





#### 2. Setting Goals

	Examples of short term goals:	Examples of long term goals:
Sta	rt a recycling program at our ool	Reach a 95% recycling rate
	rt composting pre-consumer anic waste	Launch a post-consumer composting program
	place milk cartons with recyclable stic jugs	Purchase a bulk milk dispenser for cafeteria
	courage students to bring less ste from home in lunches	Establish a zero waste agenda for all lunches
-	place plastic utensils with degradable ones	Purchase metal utensils
exis	rease awareness of already- sting composting program and lose problems with contamination	Increase organics diversion to 95% and eliminate contamination completely
	se money for the environmental to to fund outreach initiatives	Renegotiate the school's hauling contract to better reflect the needs and values of waste diversion
Buil	ld a greenhouse	Develop a closed loop system, including a greenhouse, composting system, and local foods menu





#### 3. Identifying Stakeholders

After the core group has outlined their action plan, hold well-advertised TOLD planning meetings for all those interested in helping out.

- Interested club members
- Student volunteers
- Adult Advisor(s)
- Head grounds/custodial staff member(s)



## Identifying Stakeholders - Continued

- Administrators
- Maintenance staff
- Business managers
- Community members & organizations (your solid waste district)
- Other teachers



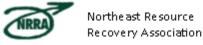




#### TOLD Audit Planning

- Where should the audit take place?
- Visibility
- Sorting
- Clean up

Make sure the custodian has saved all trash from the previous day (NO bathroom or nurse's station waste); you'll need about 2-3 bags per group (set to one side near weigh station)





#### Planning Continued

- When should the event be held?
- When should the results be presented?
- When will the event organizers meet following the event to discuss next steps?







#### 4. Job Assignments

#### **Pre-TOLD Jobs:**

Marketing/Publicity:

Sign/Poster Makers

Press Alert/Release Writers

**Media Contactor** 

**Label Makers** 

**Materials Finders** 

Custodian Reminder-hold 1 day of trash

(minus bathroom or medical waste)

#### **TOLD 'Day of' Jobs:**

Waste sorters/helpers

1 Emcee (micro or megaphone?)

Tour Guide(s)

Data Weigher(s)

Data Collector(s)

Photo/Videographer

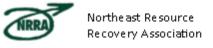
Litter collectors if windy

Custodial helpers



#### 5. Selecting Location

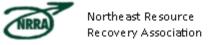
- Where is the most visible place to complete the audit so that classes can easily access, view and participate in it?
- Where is the most logical place to separate the waste with regards to moving trash and cleaning up afterwards? Are the dumpsters nearby? Is there a hose available? Is there an electrical outlet?
- Be sure to allow for wind and septic smells in your location selection.
- Be sure your posters, flyers and announcements include the date and location of the waste audit!
- Don't forget appropriate clothes no open-toed or high heeled shoes; jeans are recommended; dress for the weather.





#### 6. Materials Needed

- 5 gallon buckets
- Tarps (weights for the corners or ground anchors through grommets)
- Rubber/ Garden gloves & aprons
- Signs for each category (trash, paper, compost, etc.)
- Large plastic bags to weigh trash & recycling before & after
- Writing utensils/markers
- Tape and paper (to label bags)
- Data collection sheets (define categories of all recyclables)
- Clip boards; table & chair for recording weights on computer
- Trash (1 day of school waste-no bathroom or medical waste)
- Scales (common household is fine)
- Volunteers (in work clothes and close-toed shoes/boots)
- Canopy or pop-up tents (if rainy) or alternative indoor location
- Snow-fencing (if windy)





#### 7. Doing the Waste Audit

- Determine if your TOLD will be inside or outside based on the day's weather.
- Make sure to allow at least 1 hour to: place your tarps, set up your bags and signs, set out gloves & aprons, set up your weigh station, set up a tent or canopy if needed.
- Announce to each group the importance of keeping recyclables out of the landfill; explain what can and can't be recycled or composted in the community. Review the separate bins and labels; point out any special fundraising collections (pouches, markers, etc.).
- From each group, assign student monitors for each bin to make sure materials are going into the correct bin and to swap out the full bag with an empty when needed.





#### Example Schedule

Session	Time	Grade	# of students	
Setup	8:15-9:10	EKC Helpers:	tbd	
Session 1	9:15-10:00	К	45	
Session 2	10:05-10:50	3	42	
Session 3	10:55-11:40	5	44	
Session 4	11:45-12:30	4	35	
Lunch for TOLD Staff	12:30-1:00			
Session 5	1:00-1:45	1	43	
Session 6	1:50-2:35	2	43	
End of day cleanup	2:35-3:05	EKC Helpers:	tbd	



Kensington Elementary School

#### Activities and Ideas



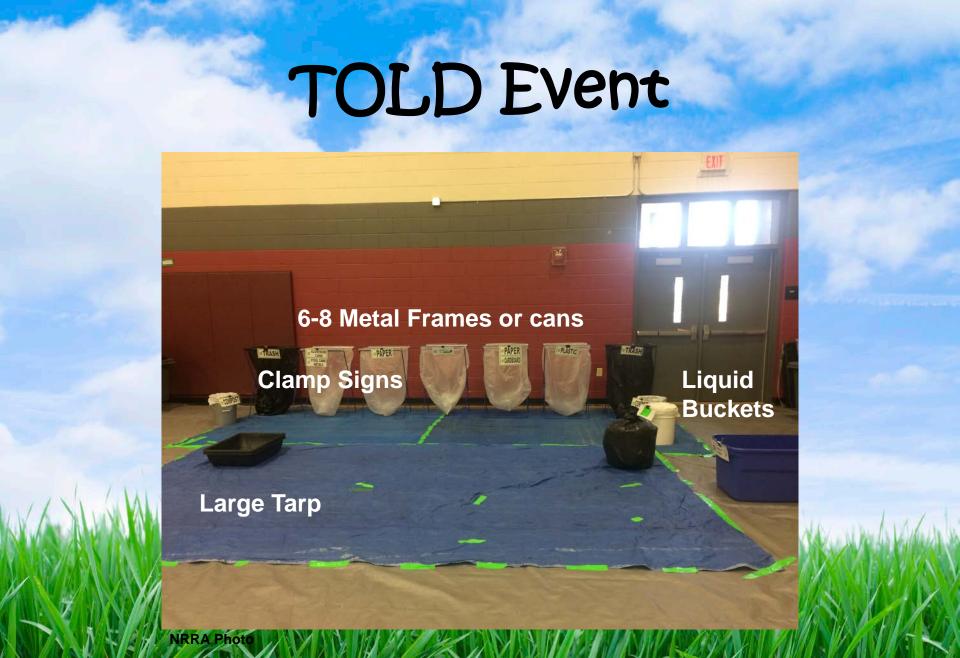


NRRA Photo

NRRA Photo











# Putting Bags on Frames





#### Supply Table/Weigh Station







#### Prepare to Sort





NRRA Photo



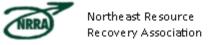




#### Collecting Data

	-	FIE	LD DATA SH	EET		-		
NID.	DA							
	KA)	SCHOOL:				(IRRA)		
		DATE:				<b>U</b>		
	UNSORTED				SORTED			
BAG#	WEIGHT	CODE		BAG#	WEIGHT	CODE		
11.4		1/. 20	V				V	
	The second secon	A / 1 M / 1	A D					

1				CODES			
Ī	Α	Aluminum	G	Glass	S	Steel/Metal	
	СВ	Cardboard	PL	Plastic	TF	Terracycle/Fundraiser	
	FD	Food/Compost	PPR	Paper	TR	Trash	

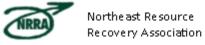




# Doing the Waste Audit - Continued

- Assign students to weigh bags (before & after sorting) and enter data.
   Select students volunteers to sort the trash (6-7). Weigh bags and empty trash onto the tarps (2-4 bags per group depending on group size and trash available). When collection bins are full have the monitors swap them out.
- NOTE: Allow at least 1 hour (before final bell) to clean up and pack materials for storage.





### 8. Presenting the Results

175.00

Daily Weight

92.00 45.00

2.00

10.00

22.00

2.00

2.00

# Bags Sorted, **Total Weight** Unsorted. **Average Weight** 

Contents of sorted trash by weight and percentage of overall weight.

Bag	
Weights	



Sort	
Bags Sorted:	11
Total Weight Unsorted	175
Average Weight	15.90909

			Contents
2.57%	52.57	92	Trash
5.71%	25.71	45	Compost (incl. liquids)
1.14%	1.14	2	Cardboard (incl. milk cartons)
5.71%	5.71	10	Plastics
2.57%	12.57	22	Paper
1.14%	1.14	2	Steel Cans/Metals
1.14%	1.14	2	Aluminum Cans
0.00%	0.00	0	Glass
100%	100	175	Total
	2 1	2 2	Steel Cans/Metals Aluminum Cans Glass

Daily Trash	in # of Bags)	11

Bag Weights:	W	eight
	_	20
	2	30
	3	10
	4	10
	5	6
	6	36
	7	8 5 10
	8	5
	9	10
	10	20
	11	20
	12	
	13	
	14	
	15	
	16	
	17	
	18	
	19	
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	
	21	
	22	
	23	
TOTAL WEIGHT UNSORTED		175

TRASH ON THE LAWN DAY

(Based on 190 days/Yr)

33,250,00

(Based on Pricing Guide)

(0.060)

Current Value

Yearly Cost \$ (1,995.00)

Yearly Weight

8.550.0 380.0 1,900.0 4,180.0 380.0 380.0

0.025 0.053 0.030 0.013 0.048 0.610 (0.015)

213.75 19.95 57.00 52.25 18.15 231.80

\$ (455.90) Estimated Cost or Potential Revenue (Fully sorted) \$ 1,539.10 TOTAL YEARLY POTENTIAL SAVINGS (Savings in disposal fees + recycling revenue)

Compost shown as a (charge) if shipped Compost shown as a positive value if used on site

SPECIAL COLLECTIONS:

22 Markers/Highlighters 4 Boxtops for Education .5 lb. Terracycle Wrappers

SAMPLE DATA SHEET

Values are subject to change Last updated: 10/19/17

**Estimated** Cost or **Potential** Savings

**Total Year Potential** Savings



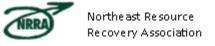


## Presenting the Results - Continued

#### Once the audit is complete:

- •What do the results of the audit suggest as the biggest opportunity for positive change?
- •What is the best way to convey the results of the audit to the entire school community?
- •How do you implement your new action plan? When should you have the kick-off?
- •What obstacles do you face and what opportunities are presenting themselves?
- •Should you have another TOLD next year to compare your waste audit today to your improvements of the future?







### 9. Best Practices

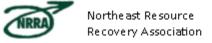
**Document the audit**: Have someone film or take pictures and make a video or slideshow that can be played for the school and for future TOLD planners.

Host the audit in a visible place and make colorful signs.

**Designate "tour guides" or "MC's"** to talk to and engage everyone who participates in or observes TOLD – sing a recycling song; ask recycling trivia questions. Walk them through the process, tell them your goals, ask them for their thoughts, invite them to join the initiative, and/or offer rewards and incentives.

Set a rain/snow date and/or location.

Wear old clothes, high boots, and/or jump suits.



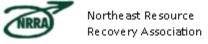


### Best Practices - Continued

**Call the media**. If reporters or photographers attend the audit, get their contact information so you can call them with the results so that they may include them in the story.

**Involve as many classes as possible**: Art, science, economics, media productions, sociology, and many more disciplines can be connected with waste themes. Ask the principal to make it mandatory for teachers to bring their classes out to the audit to at least witness, and better yet, participate in the waste separation.





### Best Practices - Continued

Design and maintain clear, legible data sheets and collection processes. Make sure data collection is thoughtful and organized so you don't mess it up. Make data collection sheet representative of the categories you plan to examine. Have one or more designated data recorders so that nothing is lost or overlooked.

**Label bags**: After a bag is weighed and the volume is estimated, label the bag with the data and set aside. This will make it clear to volunteers which bags/data has been recorded.

Consider covering the audit site: Ask the athletic department if you can borrow a canopy in the event of sun/rain/snow. The canopy also gives the audit location some structure and increases visibility. Be sure to anchor the canopy securely to the ground in case of wind. Ask the maintenance staff for assistance.

# Trash On the Lawn Day in Action

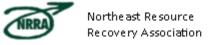






### Results and Action Plan Implementation

- What do the results tell about the school's waste habits?
- Meet with planning group after event to talk about results and next steps.
- Use results as a springboard for further action.





### Options for Schools

Hire NRRA



Rent a Kit



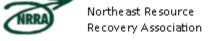
Example only

## The TOLD Kit

- Large, heavy-duty black bags for trash cans
- Large, medium weight white or clear bags for recycling cans
- Glad FlexForce bags for buckets (prevent leaking)
- Scales
- Clipboard & pen
- Calculator
- Field data sheet
- First aid kit

- Signs and clamps or clothespins to attach them to the bins:
  - o Trash (2)
  - o Plastic (2)
  - Paper/Cardboard (2)
  - Aluminum/Steel/Metal
  - Compost/Food Waste (2)
  - Glass/Electronics (set aside-adult handling)
  - Optional Signs (1 each): Special collections for Terracycle, markers/highliters for Crayola, Milk Cartons and Juice Boxes, straws (to focus on eliminating), and blanks.

- Manual Included
- Shipped to your school





### School Provides

- Trash Cans (6-8)
- 5 gal. buckets (1-2)
- Tarps (1 large or 2 medium)
- Table/Chairs (1 each, more as needed)
- Aprons for special helpers, recycling club, et.
- Paper towels
- Clorox wipes
- Hand sanitizer
- Gloves
- Mop/Hose/All-purpose cleaner for tarps



# TOLD in Action in Goffstown, NH



https://www.youtube.com/watch?v=m7n7OCi7JWg

&feature=voutu.be











### This concludes our training module: Trash On the Lawn Day

Permission to Copy NRRA's training material is available for reproduction by permission only.

Permission for use can be obtained by contacting info@nrra.net.

Some ancillaries, including electronic and print components, may not be available to customers outside the United States.

NRRA is an equal opportunity provider and employer.

This material is based upon work supported under a grant by the Rural Utilities Service, United States Department of Agriculture. Any opinions, findings, and conclusions or recommendations expressed in this material are solely the responsibility of the authors and do not necessarily represent the official views of the Rural Utilities Service.

Copyright © 2019 Northeast Resource Recovery Association 2101 Dover Road (NH Rt.4) Epsom, NH 03234

These materials may be duplicated for use by NRRA CLUB Members only and reproduced for non-commercial education purposes only.

Others contact the Northeast Resource Recovery Association for permission.

