

RETHINKING RECYCLING

CHINA NATIONAL SWORD

Glass / Trash / Recycling in Crisis

March 20, 2019

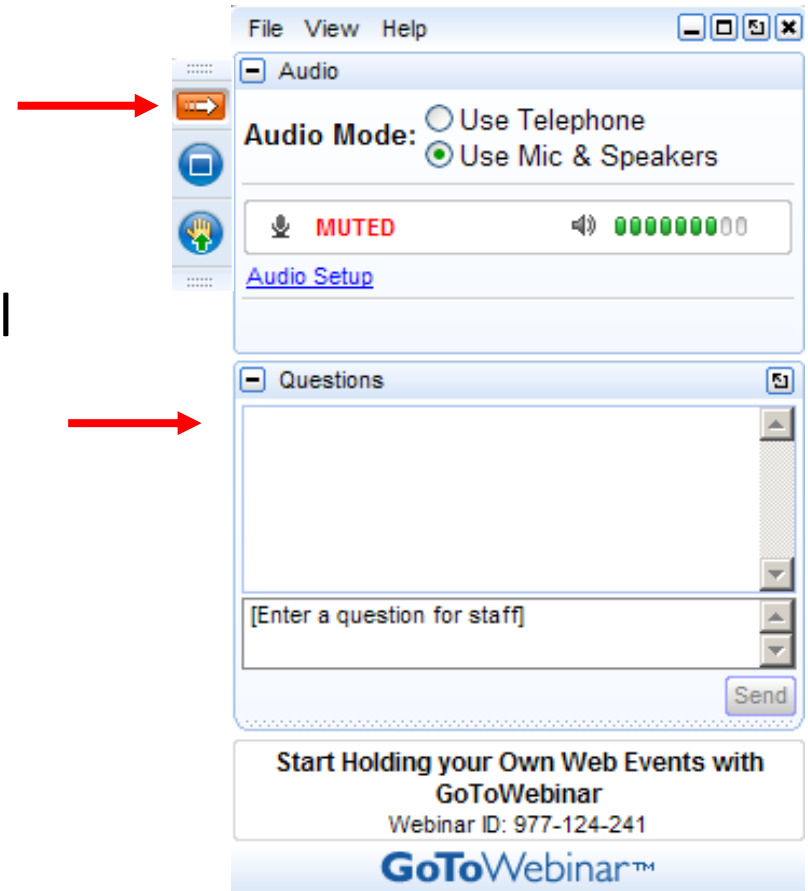


Mike Durfor – Executive Director
Northeast Resource Recovery
Association



How to Participate Today

- Open and close your Panel
- Submit text questions
- Q&A addressed during today's session





National Sword — What is It and How will it Impact *My* Program?



Dylan de Thomas, The Recycling Partnership

October 19, 2017



Green Fence



Earth Goddess



Where Did It Come From?

- Like Green Fence in 2013, stemmed from a media scandal
- At core, a political issue for China



Where Did It Come From?

- Anti-pollution and anti-corruption measures are connected and popular
- High-profile enforcement

Xi's Speech Had 89 Mentions of the 'Environment,' Just 70 of the 'Economy'

China's Xi Looks to Strengthen His Hand at Upcoming Communist Party Congress

China televises raids to enforce National Sword

China's Scrap Ban

- July 18 WTO Notice
- “4 classes, 24 kinds of scrap”
- All plastics, unsorted mixed paper, textiles, some glass and metals



WORLD TRADE
ORGANIZATION

G/TBT/N/CHN/1211

18 July 2017

(17-3880)

Page: 1/2

Committee on Technical Barriers to Trade

Original: English

NOTIFICATION

The following notification is being circulated in accordance with Article 10.6

1. **Notifying Member:** CHINA
If applicable, name of local government involved (Article 3.2 and 7.2):

Chinese authorities seize 85,000 tons in 'Sword' raid

What is Happening in China?

China is facing a Severe Environmental Crisis

• 60% of groundwater unfit for human consumption ...

19% of arable land contaminated with heavy metals ...

only 84 out of 338 prefecture-level or higher cities attained the national standard for air quality ...

• **Rising social pressure: pollution related social incidents leading cause of social instability**

Result of many factors, including:

- Decades of putting economic growth above the environment
- Lack of enforcement of existing environmental laws
- Lack of centralized control
- Staggering increase in urbanization
- 100 million new cars on the road in the last decade



Chinese CRT glass processing



Why Does It Matter?

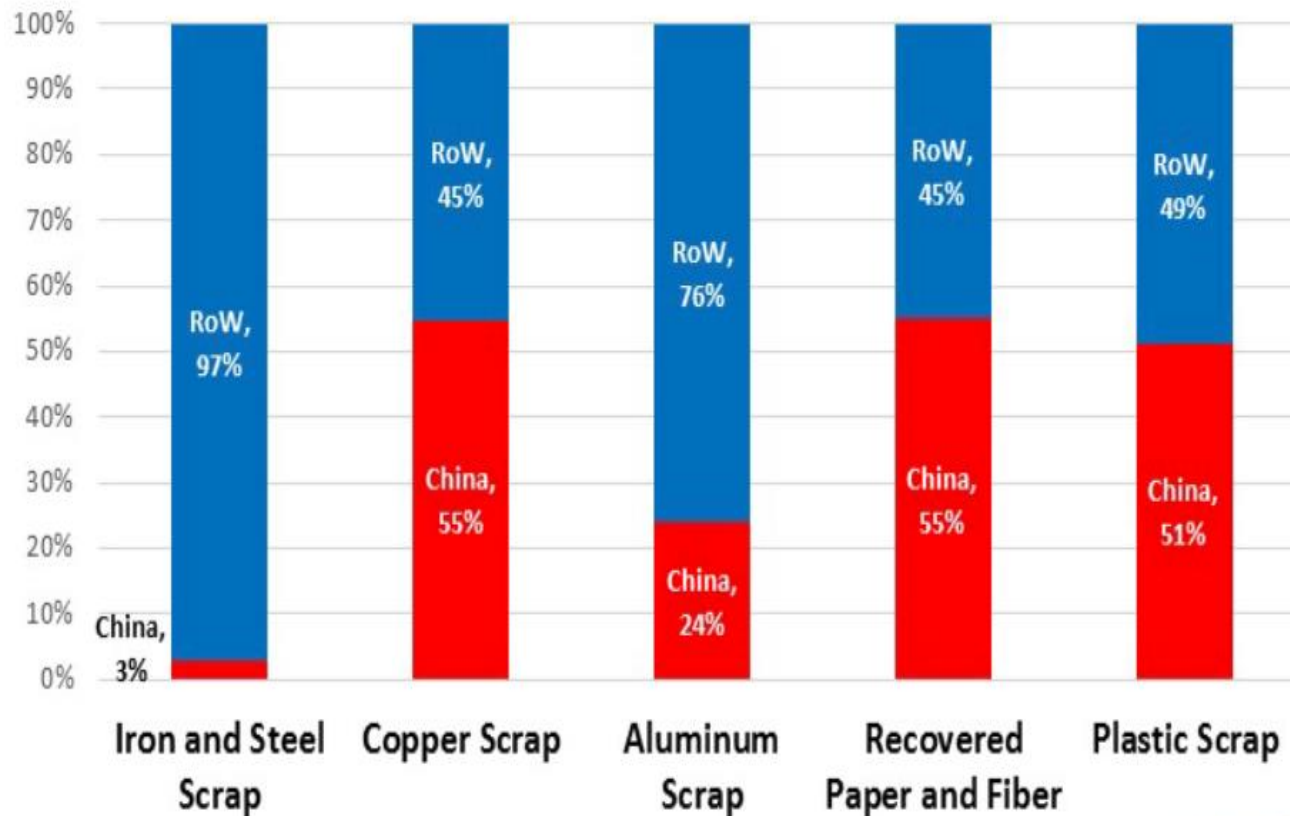


- Approximately 30% of all recyclables collected are exported outside the U.S.
- Hong Kong and China account for 69% of all U.S. exports for plastics other than No. 1 PET

Why China is so Important to the Global Recycling Industry?

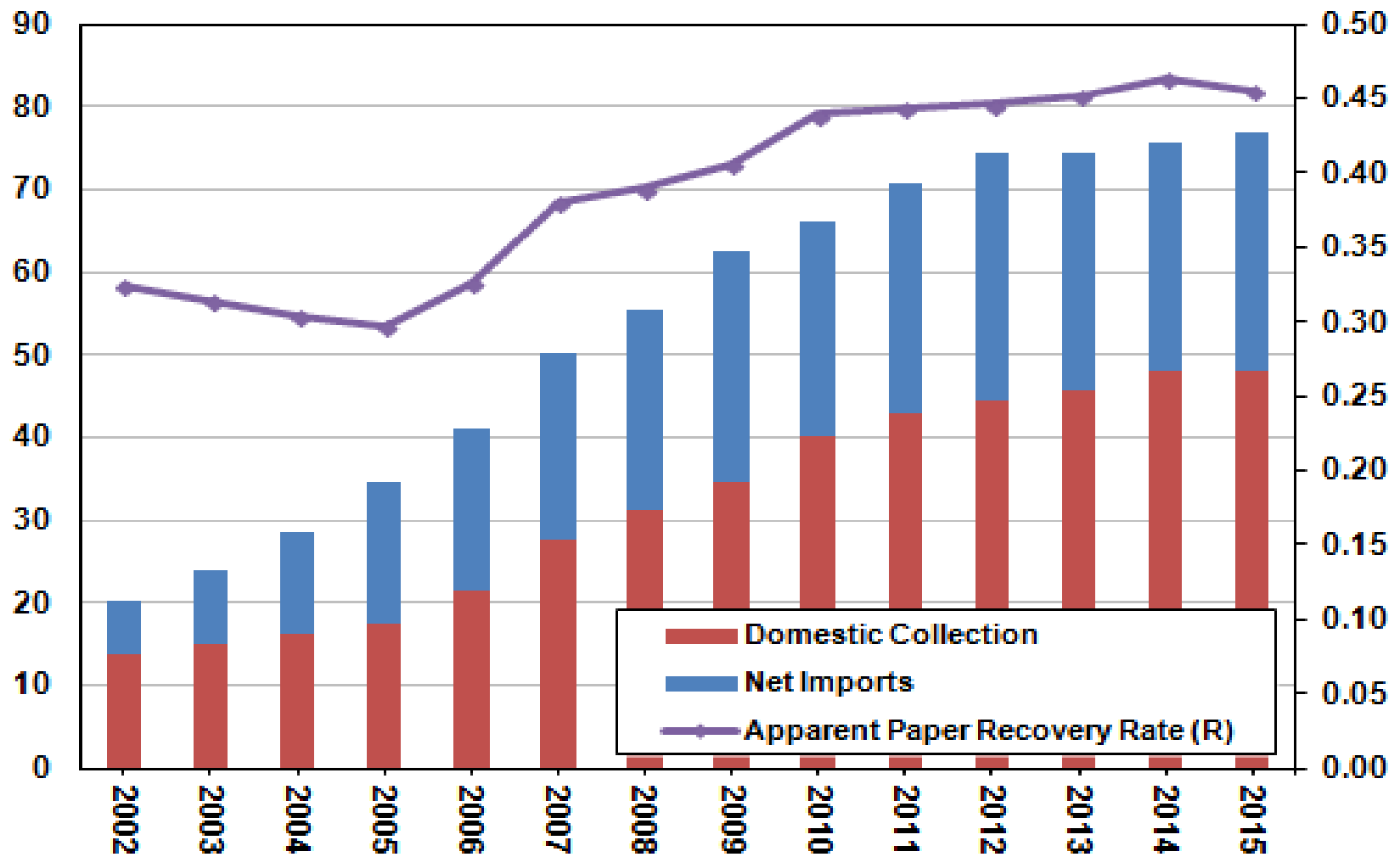
Mainland China's Share of Global Imports for Selected Recycled Commodities, 2016(p)

Source: UN Comtrade Database

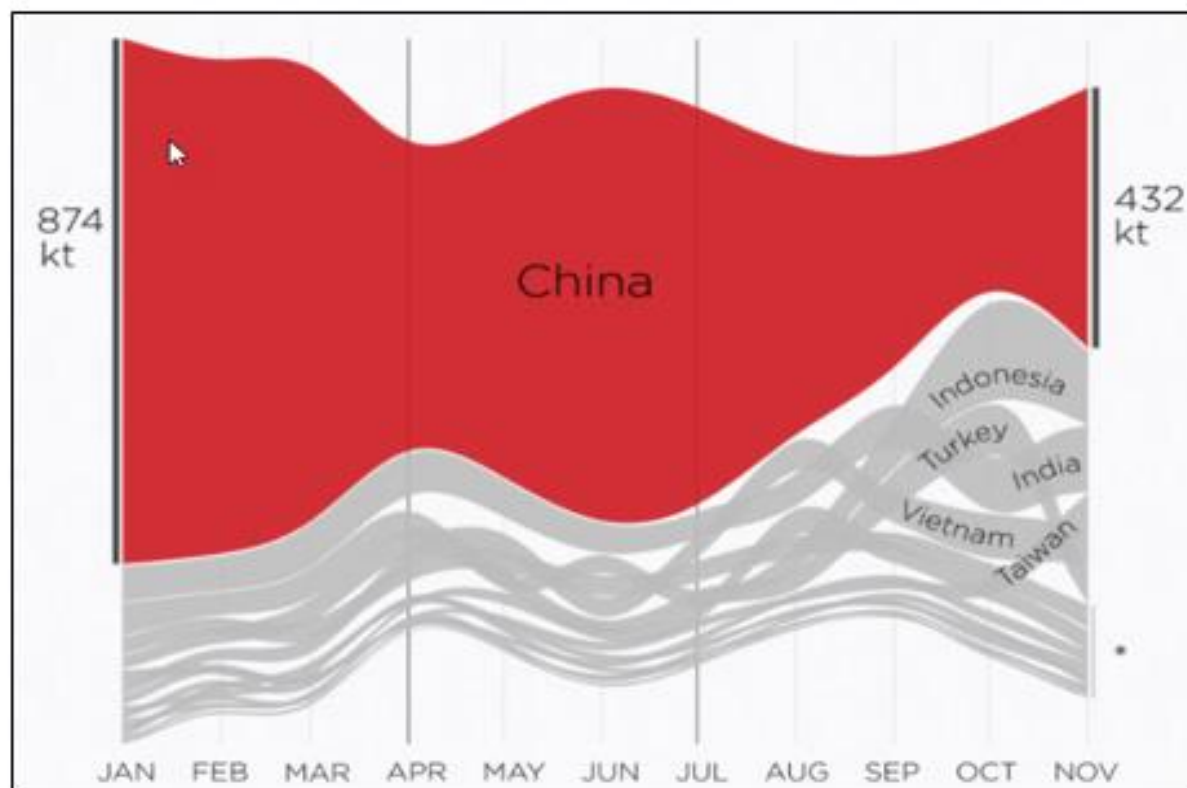


China is becoming self-sufficient

Figure 1
Chinese Recovered Paper Collection and Imports
Million Tonnes



2017 Paper Scrap Exports from the EU



Europe's paper scrap exports to China halved between January and November 2017

SOURCE: Eurostat, Resource Recycling and CEPI



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The evolution of packaging



*Pharma /
Over-the-counter*



Baby Food & Formula



*Cookies /
Crackers*



Coffee



Pet Food



Shaving



Juice

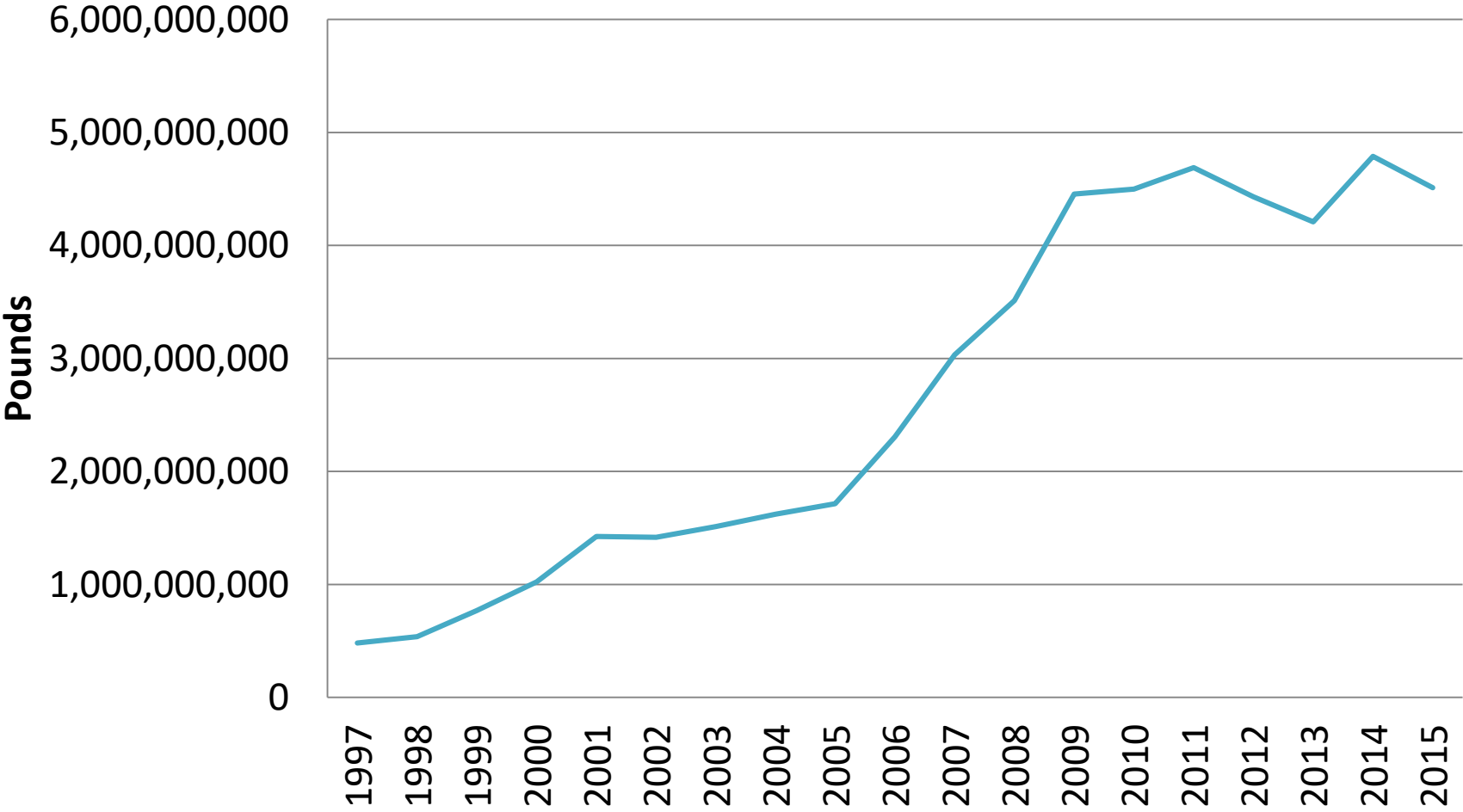
Nuts



Personal Care



Plastics exports



World's Largest Plastic Scrap Exporter: U.S.

Top 20 Plastic Scrap Exporters	2011	2012	2013	2014	2015
USA	2,127,877	2,011,095	1,909,535	2,172,382	2,043,124
Japan	1,631,455	1,673,620	1,681,733	1,670,228	1,606,271
Germany	1,462,561	1,511,349	1,324,863	1,453,609	1,376,833
United Kingdom	880,577	811,509	648,614	764,404	791,554
Netherlands	381,131	428,666	464,294	431,322	505,903
France	502,826	508,034	454,119	483,026	468,754
Mexico	442,197	522,143	517,067	862,744	449,974
Belgium	414,619	456,860	471,666	437,310	430,720
Spain	192,363	236,880	225,844	333,466	329,937
Thailand	232,170	263,128	317,540	346,912	265,390
Italy	269,601	228,019	191,621	175,859	223,076
Canada	197,638	203,046	170,783	193,037	208,939
Australia	151,209	193,087	155,085	185,705	206,060
Rep. of Korea	161,358	182,975	183,291	192,851	187,609
Malaysia	153,865	197,598	250,809	247,007	182,271
Poland	102,736	101,301	99,431	138,834	166,378
Austria	133,556	170,389	172,440	182,299	149,306
Indonesia	166,430	204,750	231,747	193,842	148,735
Other Asia, nes	164,825	157,914	120,210	146,153	145,125
Czechia	102,361	115,307	128,813	120,879	123,793
Hong Kong*	863,754	308,016	190,491	82,698	90,808
Rest of World	1,755,980	1,660,216	1,934,263	1,946,799	1,740,598
Grand Total	12,491,089	12,145,903	11,844,060	12,760,676	11,841,157

*Domestic exports, does not include re-exports

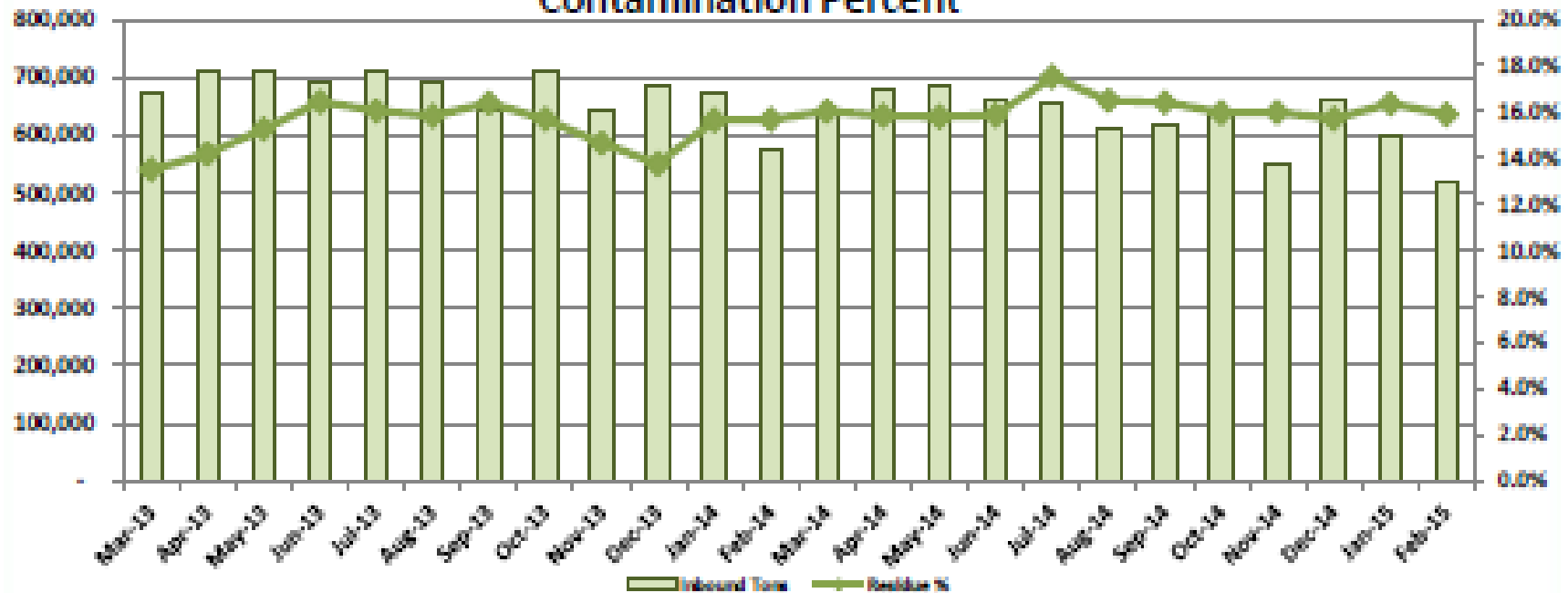
And It's All Single-Stream's Fault



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Increasing contamination

Contamination Percent



- According to WM figures, contamination of loads is an average of 16% of inbound tons.
- Contamination can be up to 50% of incoming loads
- Processing costs continue to increase as markets demand reduced contamination. This drives up cost to customers.

Source: Waste Management, 2015

RESOURCE
RECYCLING

And It's All Glass' Fault

Glass 'recycled' in curbside bins actually goes to landfill

Orange Grove Center not yet ready to sort it; raising \$1.6 million for new recycling equipment

Houston City Council Approves New Recycling Contract, Excludes Glass

Residents now have four months until a ban on glass in green bins goes into effect.

BUSINESS

High Costs Put Cracks in Glass-Recycling Programs

Some cities pull back as processors begin to charge for accepting trash-heavy shipments

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American recycling is stalling, and the big blue bin is one reason why

Recycling Industry Facing 'Nationwide Crisis,' Waste Management CEO Says

SundayReview | OPINION

The Reign of Recycling

By JOHN TIERNEY OCT. 3, 2015



IF you live in the United States, you probably do some form of recycling. It's likely that you separate paper from plastic and glass and metal. You rinse the bottles and cans, and you might put food scraps in a container destined

ing industry in the US is
ationwide crisis" as
ilities increasingly lose money and demand
for recyclables, [Waste Management](#) CEO David
ld the [Washington Post](#).



any's recycling division posted a loss of nearly \$16
the first quarter of the year, the newspaper reports. It
uttered almost 1 in 10 of its largest recycling facilities

'Heavy Hitters' in waste management call recycling 'broken model'

Newsprint: a serious problem

North American shipments in million metric tons:

2000: 15.8

2005: 12.7

2010: 7.8

2011: 7.3

2012: 6.7

2013: 6.4

2014: 5.4

This is a loss of 50 percent over eight years.



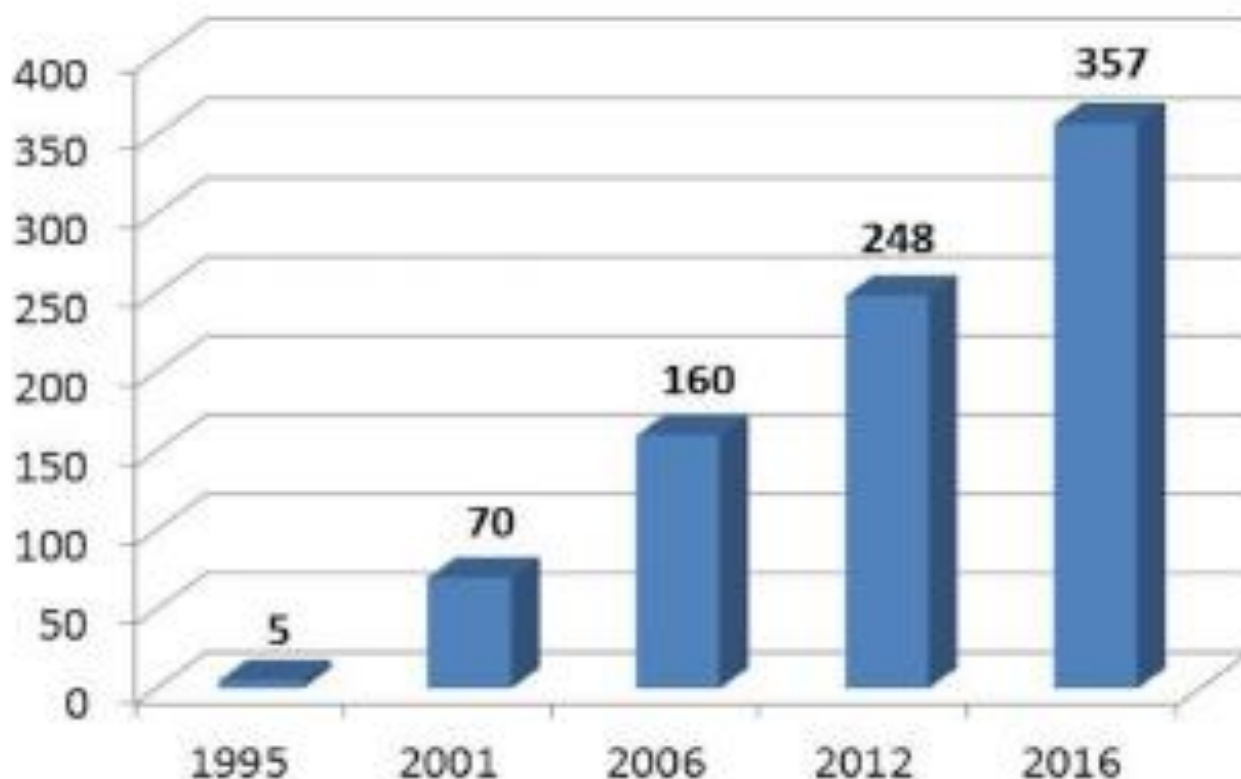
Larger is better

More and more large, regional, hub-and-spoke MRFs will come on-line. Thus, you'll see smaller and smaller communities moving to single-stream recycling collection and a number of smaller, old MRFs will close.

We have seen growth in processing



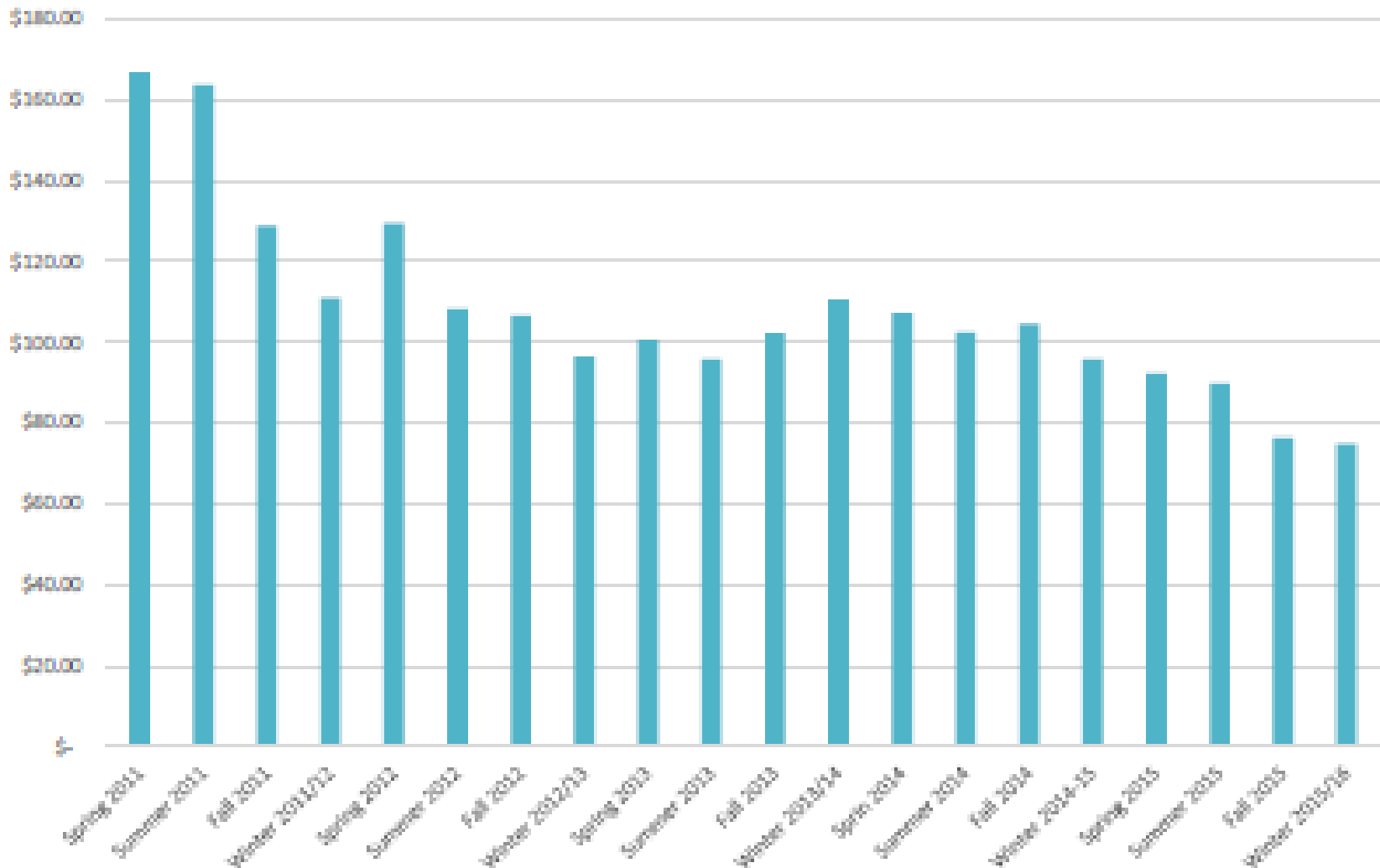
Growth of Single-Stream Processing in No. Am.



Source: Government Advisory Associates, Inc., 2013
& Resource Recycling, 2016

RESOURCE
RECYCLING

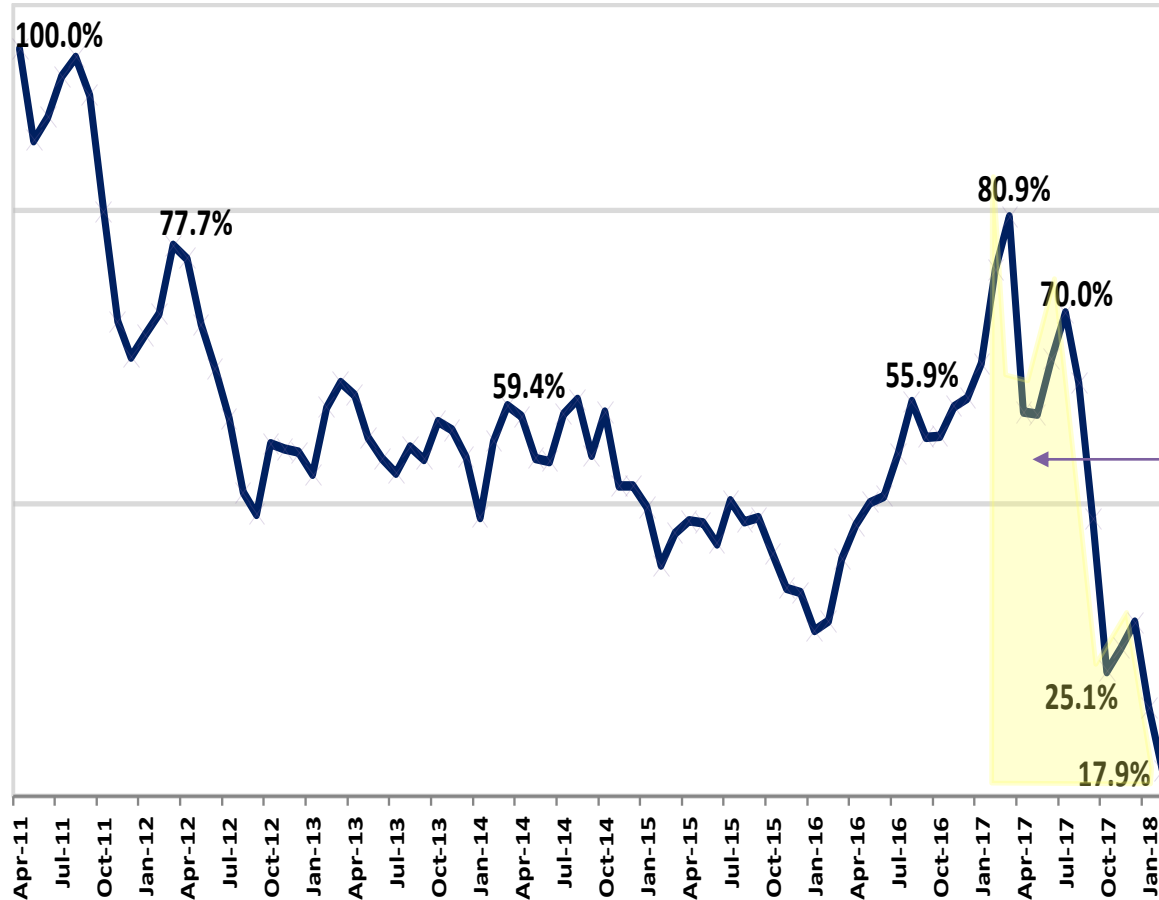
Value of a Commingled Ton



Source: Scott Mouw, NC DNER, 2016

RESOURCE
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Recycling Commodity Prices At Historical Lows



- National Sword announced
- 13.2 million tons diverted to secondary markets
- Jan, 2018 - Mix Paper price continues to fall with announced closure of Glass plant
- 63% loss in value of SS ton.

What Happens Next?



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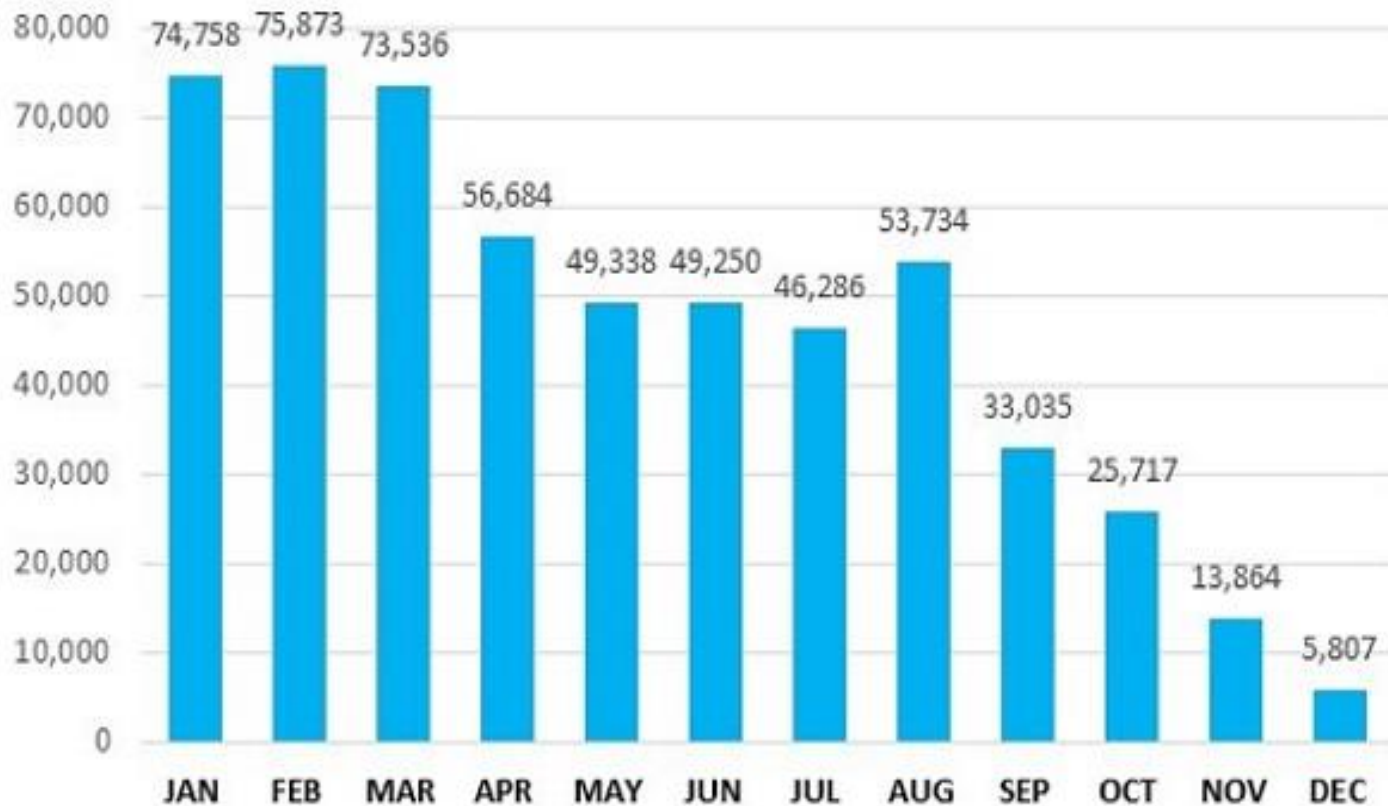


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New ways to assign risk

The three-year market slump has led governmental agencies and their recycling service providers to reconsider contractual agreements. New ways of risk sharing are being discussed and many MRFs are now charging suppliers for the first time.

Monthly U.S. Plastic Scrap Exports to Mainland China During 2017 (metric tons)



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What's Happening?

- Large regional differences
- Some buying Nos. 3-7 bales
- Some having trouble moving material
- Some paying to move material
- Some producing No. 5 PP bales (Tubs and Lids)
- Some talk of landfilling



- Market growth opportunities in Southeast Asia (Vietnam, Malaysia, Thailand, Indonesia), India, Mexico, Canada and the Netherlands

Plastic Scrap Export Growth Markets – PE					
Country	2016 (mt)	2016 YTD (mt)	2017 YTD (mt)	YTD Vol Growth (mt)	YTD Growth (%)
India	61,255	47,884	74,679	26,795	56.00%
Vietnam	18,290	13,516	29,518	16,002	118.40%
Malaysia	17,221	12,809	28,015	15,206	118.70%
Thailand	1,223	810	6,214	5,404	667.00%
Ecuador	192	12	2,297	2,285	19051.10%
Korea	224	101	1,972	1,871	1851.20%
Singapore	1,861	849	1,843	994	117.00%

- Demand growth in the United States

Looking Ahead – What's next

More **environmental compliance** inspections on Chinese enterprises

Low numbers of **approved imports**

Potential **ban** on additional paper, plastics and nonferrous metals



We are sending money to the landfill

Material	Recycling Rate	Value of Unrecovered Materials
Paper	61%	\$3.1 Billion
Aluminum Cans	65%	\$1.3 Billion
Plastic Bottles	31% HDPE, 30% PET	\$1.6 Billion
Steel Cans	65%	\$0.4 Billion
Glass Bottles	28%	\$0.1 Billion
Total		\$6.5 Billion

Disposal Projections in Massachusetts (MSW)

0% per Year Disposal Reduction Scenario

Year	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total Disposal Tons (baseline)	5,610,000	5,610,000	5,610,000	5,610,000	5,610,000	5,610,000	5,610,000	5,610,000	5,610,000	5,610,000
Total Disposal Tons (No reduction)	5,610,000	5,610,000	5,610,000	5,610,000	5,610,000	5,610,000	5,610,000	5,610,000	5,610,000	5,610,000
Average WTE Availability (Tons)*	3,190,000	3,227,000	3,227,000	3,227,000	3,227,000	3,227,000	3,227,000	3,227,000	3,227,000	3,227,000
Landfill Capacity (Tons)	1,330,000	1,487,845	1,602,970	842,245	842,245	621,000	621,000	621,000	621,000	201,000
Total Capacity (Tons)	4,520,000	4,714,845	4,829,970	4,069,245	4,069,245	3,848,000	3,848,000	3,848,000	3,848,000	3,428,000
Delta (Tons)	(1,090,000)	(895,155)	(780,030)	(1,540,755)	(1,540,755)	(1,762,000)	(1,762,000)	(1,762,000)	(1,762,000)	(2,182,000)
Estimated Total Ash Disposal (Tons)	638,000	645,400	645,400	645,400	645,400	645,400	645,400	645,400	645,400	645,400

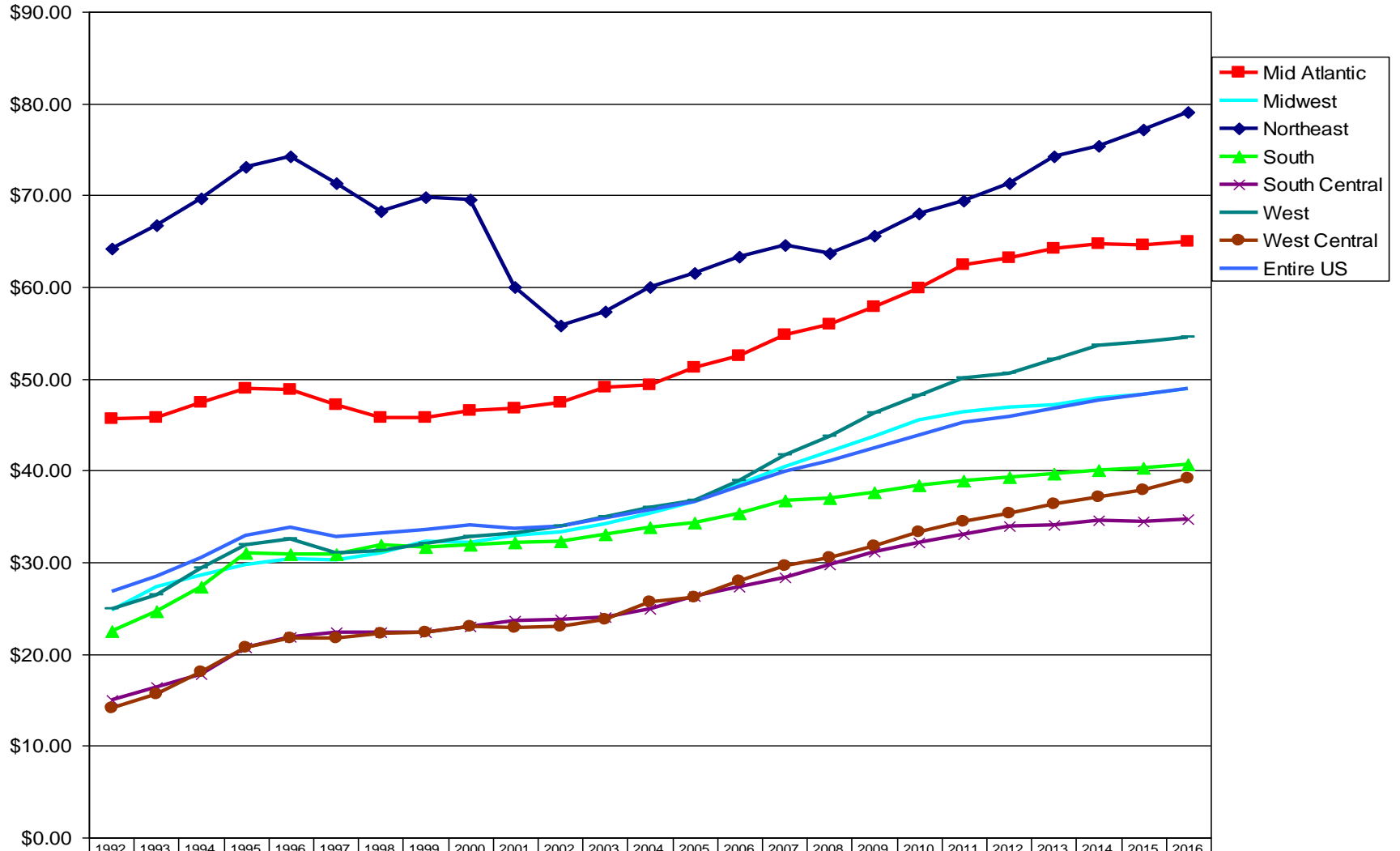
Assumed 0% reduction in disposal

HDR assumes MADEP Expansions and that Bourne's current contract with SEAMASS to be extended and allows approximately 30,000 tons of MSW disposal

* HDR Calculated Average Combustion Rate 2010 - 2016

Source - MassDEP, SWAC, 2016 Solid Waste & Waste Reduction Data

Landfill Tipping Fees for MSW by Year (1992 - 2016)



Source: Waste Business Journal, www.wasteinfo.com, San Diego, CA

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Mid Atlantic	45.67	45.82	47.44	48.97	48.81	47.22	45.74	46.12	46.55	46.88	47.44	49.32	49.32	51.24	52.48	54.78	56.95	57.88	59.91	62.46	63.46	64.79	64.66	64.55	64.97
Midwest	24.75	27.38	28.56	29.77	30.43	30.25	31.06	32.31	32.22	32.91	33.29	34.17	35.36	36.67	38.47	40.48	42.13	43.71	45.55	46.41	46.97	47.13	47.88	48.27	48.99
Northeast	64.17	66.69	69.66	73.09	74.24	71.28	68.20	69.77	69.54	59.99	55.81	57.39	60.06	61.54	63.28	64.52	63.70	65.55	68.06	69.44	71.33	74.19	75.36	77.12	79.01
South	22.45	24.62	27.27	31.04	30.90	30.89	31.89	31.71	31.96	32.21	32.24	33.05	33.81	34.34	35.34	36.68	37.01	37.69	38.34	38.92	39.23	39.71	40.07	40.29	40.69
South Central	14.95	16.44	17.75	20.71	21.92	22.37	22.35	22.35	23.04	23.66	23.83	23.98	24.86	26.28	27.34	28.33	29.74	31.17	32.10	33.03	33.88	34.10	34.52	34.45	34.73
West	24.89	26.42	29.33	31.92	32.48	31.07	31.26	32.00	32.81	33.14	34.00	35.00	35.99	36.73	38.89	41.71	43.74	46.28	48.12	50.05	50.65	52.09	53.66	54.03	54.58
West Central	14.15	15.65	17.99	20.67	21.73	21.79	22.19	22.32	22.96	22.84	23.01	23.71	25.70	26.24	27.99	29.61	30.50	31.72	33.32	34.47	35.32	36.33	37.16	37.82	39.16
Entire US	26.80	28.46	30.47	32.93	33.76	32.85	33.13	33.60	34.01	33.73	33.93	34.82	35.74	36.67	38.29	39.91	41.02	42.47	43.89	45.26	45.90	46.84	47.72	48.25	48.97

危机

“WHEN WRITTEN IN CHINESE, THE WORD ‘CRISIS’ IS COMPOSED OF TWO CHARACTERS. ONE REPRESENTS DANGER AND THE OTHER REPRESENTS OPPORTUNITY”

John F. Kennedy



*A Recycling Non-Profit
Working Together to Make Recycling Strong!*



Where have we Come From?

1916 To 1918

Due to massive shortages of raw materials during World War I, the Federal government creates the Waste Reclamation Service with the motto “Don’t Waste Waste – Save It.”

1930’S

Many people survive the Great Depression by peddling scraps of metal, rags and other items.

1940

Goods such as nylon, rubber and many metals are rationed and recycled to help support the war effort.

1955

The August 1st issue of Life magazine offers a two-page article on “Throwaway Living.” Consumers are progressively sold on the idea that single-use items are a necessity of the modern lifestyle.

Ease and convenience become the two most desirable qualities in product marketing, inevitably leading to parks, forests and highways becoming littered with garbage.

1964

The all-aluminum can is introduced. Recognizing the value of used aluminum cans as a raw material for making new cans, the aluminum industry will soon begin creating a massive system for recycling and redeeming used beverage containers.



An aerial photograph of a river, likely the Cuyahoga River in Cleveland, Ohio. A large fire is burning on the right bank, with thick black smoke rising into the sky. The river flows from the bottom left towards the top right. The text is overlaid on the image.

We'll keep the river on for you.

VISIT CLEVELAND





**IN THE FIGHT
AGAINST LITTER
AND POLLUTION,
WE STILL HAVE
SO FAR TO GO.**

You can help by becoming a company member. Write

Ad Council

American Wildlife Inc.

1400 K Street, N.W., Washington, D.C. 20004

A National Charitable Organization

People start pollution.
People can stop it.





1965 To 1970

[Reduce, Reuse, Recycle](#). In the form of a Mobius strip, the symbol was designed by Gary Anderson after a Chicago-based recycled-container company sponsored an art contest to raise environmental awareness.





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TOOLS.RECYCLINGPARTNERSHIP.ORG



Shielding Your Program from National Sword

National Sword (ˈnɑːʃ(ə)n(ə)l sɔːrd): 1 China's new quality rules on importation of recyclable material, focused on mixed paper and 3-7 plastics.

Is this a problem? It is. But it is also an opportunity. An opportunity to diversify market options. To refocus on quality. To support jobs in U.S. recycling. To grow U.S. manufacturing.

What can you do? Keep calm, stay informed, and focus on clean material.

What else? Well, since you asked:

1. Listen to market experts. [Register now](#) for our October 19 webinar. Have your questions ready.
2. Clean up your recycling stream. High quality bales are the best shield for National Sword. Use [these 6 steps](#) to keep contamination in check.
3. Talk to Your MRF. What are they seeing? Is it going to get bumpy? What does this mean for costs? How can you work together?
4. Don't take any recyclables off your [YES list](#). Markets ebb and flow. Rapid change is confusing for residents. Stay steady.
5. Don't freak out your residents. So long as there's no interruption in service – and there shouldn't be – you don't need to dive into the complexities of international markets. Keep it simple and [keep them recycling](#). Focus on quality. Again, stay steady.
6. Don't feed the trolls. If negative messaging comes up, pivot to the good. Ignore the bad and the ugly. Truly, stay steady.

National Sword Partnership Messaging

1. Webinar

2. Clean up your recycling stream

3. Talk to Your MRF

4. Don't change your programs

5. Don't freak out your residents

6. Don't feed the trolls



THE RECYCLING
PARTNERSHIP

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What should MRF operators be doing?

It's All About Quality!

Clean up your bales:

- **Communicate with customers**
- **Slow down the line**
- **Hire more workers**
 - Some MRFs having trouble finding workers
- **Add new technology**
 - Optical sorters/robotics



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Time to Change

- **We need to change our thinking**
 - China isn't going back to pre-Green Fence
 - Other Asian markets may be a temporary band-aid
- **We need to change our messaging**
 - Recycling isn't free
 - Contamination costs cities/processors lots of \$
 - Recycling creates U.S. jobs
 - Re-focus on waste diversion/Zero Waste - Boston
- **We need to consider changing the metrics**
 - Weight-based v GHG reduction v participation rates



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MARKET PREDICTIONS

The future markets are more likely than not to be volatile for some time.

Beyond that, major unforeseen events could occur totally undermining the stability of the recycling industry.



MOM - Members/Operations/Marketing meetings are held monthly.

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.



Working Together to Make Recycling Strong!

Market Pricing for September 2018 NRRA PRICE GUIDE for Members Only

****Please Note: THIS IS ONLY A GUIDE - does not reflect pricing for specific locations. Some items may be subject to rental/haul fees. NRRA uses multiple vendors; prices vary & subject to change**

MARKET DIRECTION

ALWAYS CALL FOR QUOTE

ALERT: ALL FIBERS CONTAMINATED OR NOT MEETING SPEC SUBJECT TO CHARGE UP TO \$150/TON PLUS TRANSPORT

Fibers:		Revenue / (Cost)	
Baled Mixed Paper	delivered	(\$65 Charge) - \$0	NC
Loose Mixed Paper	delivered	(\$90 Charge) - \$0	NC
Baled SOP (Sorted Office Paper)	(40-44,000 lbs. target)	\$185 - \$205	NC
Baled OCC	(40-44,000 lbs. target)	\$70 - \$75	NC
Loose OCC	delivered	\$30- \$65/ton	NC
Loose Books in Gaylords	delivered	\$15/ton	NC
#8 News WITH Magazines	delivered	\$45 - \$70	NC
#8 News	delivered	(\$32.00 Charge) - \$0	NC
Plastics: *REMINDER: NO Headers on TABB Loads**			
PET Baled	(35,000 lbs. target)	\$0.080 - 0.14/lb.	Revenue DOWN \$0.01
HDPE Natural Baled	(35,000 lbs. target)	\$ 0.305 - 0.40/lb.	Revenue DOWN \$0.15
HDPE Colored Baled	(35,000 lbs. target)	\$0.11 - 0.13/lb.	Revenue DOWN \$0.02
HDPE "Z" Mixed Baled	(35,000 lbs. target)	\$0.11 - 0.13/lb.	Revenue DOWN \$0.02
#1 - #7 Baled	(30-40,000 lbs. target)	(\$0.02) - \$0.04/lb.	NC
#3 - #7 Baled	Call For Specs		NC
Rigids Baled	Call For Specs	\$0 - \$0.01/lb	NC
Commingle - Loose (with or without glass):	delivered	(\$103 - \$54/ton)	Charge UP \$4.00
Single Stream Loose:	delivered	(\$123 - \$55/ton)	NC
MSW	delivered	(\$120 - \$70/ton)	NC
C&D	delivered	(\$79 - \$71/ton)	NC
C&D Source Separated Wood	delivered	(\$60/ton)	NC
C&D White Wood	delivered	(\$50/ton)	NC
Scrap Metal:			
Scrap Metal	delivered	\$95 - \$135/gt	DOWN \$20.00
Steel Cans Baled	(40,000 lbs. target)	\$95 - \$215/gt	DOWN \$20.00
Steel Cans Baled	(light loads - delivered)	\$55 - \$100/gt	DOWN \$20.00
Steel Cans Loose	delivered	\$55 - \$90/gt	DOWN \$20.00
Non-ferrous Metals			
Insulated house wire (#2 copper)	delivered	\$0.78/lb	NC
Aluminum Cans Baled (UBCs only)	(40,000 lbs. target)	\$0.53 - \$0.58lb	Revenue Down \$0.02
Aluminum Cans Baled	(light loads - delivered)	\$0.50- \$0.57lb	Revenue Down \$0.02
Aluminum Cans Loose	delivered	\$0.38 - \$0.46lb	Revenue Down \$0.02
Batteries (lead)		\$0.22 - \$0.36/lb.	NC
Vegetable Oil		\$0.25/gal.	NC
Freon Recovery (eff. 4/1 through 9/30)	25 unit min.	(\$9) per unit	NC
Glass PGA	delivered	(\$30/ton)	NC
Fluorescent Bulbs		(\$0.06/ft - \$0.11/ft)	NC
CFL's/U-tubes		(\$0.35/ea - \$0.55/ea.)	NC
Electronics - CRT TVs & Monitors	plus transport	(\$.49 - \$.205)	Cost UP \$0.04
Mixed Electronics - Printers, VCRs etc.	plus transport	(\$.12 - \$.14/lb.)	Cost UP \$0.04
CPU & Laptop (credits available)	plus transport	(\$0.06) - \$0.09 lb.	Cost UP \$0.04
Propane Tanks: Min. pick-up (25) 20 pounders	*No Helium Tanks, PLAN AHEAD*	\$25.00 p/u charge	NC
25-50 tanks: paid \$1.00/ea; 51-100 tanks: paid \$1.50/ea; over 100 tanks: paid \$2.00/ea - must be in good condition			
1 pound tanks: cost \$1 ea (or \$2 ea depending on quantity); Fire Extinguishers - cost \$5 ea			
Shingles	plus transport	(\$48.00 - \$69.00/ton)	NC
Gaylords- Slightly Used, Cardboard	(25 min.)	(\$10/ea.)	NC
Baling Wire- Various sizes	plus transport	(\$30 - \$100/bundle)	NC

The NRRRA School CLUB



The NRRRA School CLUB
builds Community action by directing
youth, teachers, schools, and communities to a clear
understanding of pertinent solid and hazardous
waste issues and supporting sustainable
waste reduction programs.





Mike Durfor, NRRA Executive Director, Presents a Special Recognition award to Scott Hazelton of Sunapee, NH

Sunapee, N.H. had similar success due to the dedication of the staff and cooperation of residents. Pictured are NRRA Exec. Director Mike Durfor and Sunapee Public Works Director Scott Hazelton. For the first 9 months Sunapee has net revenues of \$31,000 and cost avoidance of another \$10,000.

Both of these outstanding programs deserve special recognition as they demonstrate the value of recycling, saving their two communities over \$100,000 so far! With municipal budgets stretched to the max every year, these savings are a welcome benefit. The challenges being presented by “China Sword” (the recyclable import ban in China) are being met daily by programs like Rye, Sunapee and so many more whose efforts need to be recognized. In spite of the turmoil within the marketplace, “Recycling Rules.”



**38TH ANNUAL
CONFERENCE & EXPO**

**RECYCLING
STILL
RULES**

**and it's
COOL in SCHOOL!**



**10th Annual
School Recycling
Conference**

**Monday, May 20 —
Tuesday, May 21, 2019**
at the Radisson Hotel & Expo
Center in Manchester, NH



Tuesday, May 21, 2019
at the Radisson Hotel & Expo Center
in Manchester, New Hampshire

Presented by —
Northeast Resource Recovery Association
New Hampshire the Beautiful and NRRA School CLUB



A Recycling Non-Profit
Working Together to Make Recycling Strong!



Last week was the culmination of months of negative recycling news in short order:

Wednesday 8/8 – while I was delivering a presentation on China National Sword, China slapped a 25% tariff on cardboard imports from the US.

Thursday 8/9 –10:00am -Breaking news – Aluminum markets won't be moving for 4-6 weeks!

Thursday 8/9 -1:30PM –E-Waste pricing suffers major cost increase due to plastics markets collapse.

Friday 8/10- Scrap Metal Prices expecting large decrease

Saturday 8/11—Sunday 8/12 -Didn't answer the phone

Monday 8/13– NRRA Firefighters answer the call – NRRA moves three loads of OCC, 2 Plastics 2 stops, and 1 aluminum load. Tires picked up, scrap metal booked, and Freon removal scheduled. Press Release issued that glass has now found a new market to add to the historic PGA (Processed Glass Aggregate) usage thereby increasing the amount that can be pulled out of single stream and MSW. Town and Gown communication work continues with Indoor Air Quality programs.

Waste Advantage

The Advantage in the Waste and Recycling Industry



RYAN'S RECYCLING: The Future of the Waste and Recycling Industry

**HOW TO SELECT A QUALIFIED
M&A Transaction Advisor**

**THE ULTIMATE CHECKLIST
For Selecting a GPS Tracking
System for Waste Fleets**



A Recycling Non-Profit
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THE OCEAN CLEANUP

PREPARING FOR THE PACIFIC OPERATIONS





We serve the entire **NORTHEAST** and are the **RESOURCE** for all your municipal recycling and waste stream needs.

Our mission is the **RECOVERY** of all materials. We are an **ASSOCIATION** of members helping members.



BECOME AN

NRRA MEMBER TODAY!

LET US HELP YOU MANAGE YOUR ENTIRE
WASTE STREAM TO *HELP YOU SAVE MONEY*



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@ INFO@NRRA.NET

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Thank You
FOR RECYCLING

NEW HAMPSHIRE *The Beautiful*



Upcoming Webinars & Workshops



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Upcoming Webinars & Workshops



2019 Local Officials Workshops

HealthTrust  

FREE workshops for seasoned and new municipal officials and employees of NHMA member municipalities.

DATES AND LOCATIONS

Wednesday, April 10—Rochester (Frisbie Hospital Conference Center)
Tuesday, April 16—Peterborough (Community Center)
Wednesday, May 8—Lebanon (River Valley Community College, Lecture Hall)
Tuesday, May 21—Sugar Hill (The Meeting House)
Saturday, June 8—Concord (NHMA Offices)

Presented by NHMA's Legal Services attorneys, these workshops provide municipal officials with tools and information to effectively serve their communities. Topics will include the Right-to-Know Law, ethics and conflicts, town governance, municipal roads, and more. Ample time allowed for questions, answers, and discussion. Attendees will receive a complimentary copy of NHMA's 2019 edition of the publication, *Knowing the Territory*.

9:00 am— 4:00 pm
Registration begins at 8:30 am. Continental breakfast will be provided.

12:00 noon —1:00 pm
LUNCH ON YOUR OWN*
 **with the exception of the Rochester workshop*
Time provided for attendees to get lunch!

Sponsored by HealthTrust and Revision Energy

Registration Now Open! No Registration Fee.
To register online, please visit www.nhmunicipal.org and click on the Calendar of Events.
Cancellation must be received 48 hours in advance. If cancellation is not received 48 hours in advance, NHMA will charge you \$20 to cover workshop costs, including any meals.
Questions? Please call 800.852.3358, ext. 3350 or email NHMAregistrations@nhmunicipal.org



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Upcoming Webinars & Workshops



6 Regional Right-to-Know Workshops

The Right-to-Know Law and Governmental Meetings

Join Executive Director Margaret Byrnes and Legal Services Counsel Stephen Buckley who will discuss the requirements for holding a proper public meeting, as well as the exceptions to the meeting requirement (the so-called "non-meeting"). Then the attorneys will discuss the purposes for which public bodies may hold a nonpublic session, as well as the procedural requirements for a proper nonpublic session. This workshop will also address difficult "meeting" issues, such as communications outside a meeting and electronic means of communicating.

For registration information, visit www.nhmunicipal.org under Calendar of Events. Questions? Call 800.852.3358 or email NHMAregistrations@nhmunicipal.org.

6:30 pm—8:30 pm
Tuesday, March 26, 2019

Derry Municipal Center
14 Manning Street
Derry, NH 03038

6:30 pm—8:30 pm
Wednesday, April 3, 2019

Berlin High School (Library)
550 Willard Street
Berlin, NH 03570

6:30 pm—8:30 pm
Tuesday, July 23, 2019

County Hall Building
12 Court Street
Keene, NH 03431

1:30 pm—4:00 pm
Friday, May 3, 2019

Dover Police Department
46 Chestnut Street
Dover NH 03820

1:30 pm—4:00 pm
Tuesday, August 6, 2019

Moultonborough Safety Complex
1035 Whittier Highway
Moultonborough, NH 03254

TBA—Hanover/Lebanon Region in October



The Right-to-Know Law and Governmental Records

Join NHMA's Executive Director Margaret Byrnes and Legal Services Counsel Stephen Buckley who will share strategies to assist municipalities in handling governmental record matters arising under the Right-to-Know Law.

Handling governmental records requests requires an understanding of all aspects of request processing including the requirements for availability, storage, electronic records, redaction, cost estimates, mandated access for certain records and appointments for review of records.

Guidance will be provided on determining what is a governmental record, and when and how access and copies of public records must be provided. This workshop will also address what records are exempt from disclosure, along with whether a record request that would require a search for multiple documents must be fulfilled or whether a request impermissibly seeks to create a record that does not exist. In addition, guidance will be provided on the retention of governmental records and how claims under the Right-to-Know Law are enforced.

\$35 without publication/\$55 with publication, *A Guide to Open Government, New Hampshire's Right-to-Know Law*.



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For joining us today!



The New Hampshire Municipal Association is a nonprofit, non-partisan association working to strengthen New Hampshire cities and towns and their ability to serve the public as a member-funded, member-governed and member-driven association since 1941. We serve as a resource for information, education and legal services. NHMA is a strong, clear voice advocating for New Hampshire municipal interests.



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