

## SWA's 25 Gallon Pilot

#### About the SWA



- Government agency
- Celebrating 40 years of service to 1.4M residents of Palm Beach County
- Responsible for collection in unincorporated PBC and disposal of countywide waste and recyclables
- Fully committed to dual-stream system
- RMPF process around 100,000 tons of recyclables each year

#### **SWA's Dual Stream Process**



## Reported Single Stream Results

- Data shows that the change to single stream recycling brings in more material
- Data shows there is more contamination in the recycling material
- Data shows less money is brought in per recycled commodity sold at market

## Theory

- It is due to a larger bin that residents recycle more material, not the change to single stream
- The recycled commodity remains cleaner, thus bringing in more revenue

## About the Village of North Palm Beach



- Located 9 miles north of West Palm Beach
- Is a residential community with a population of 12,582
- They self-haul with once-a-week (Thursday) curbside recycling pickup
- They were willing to partner on this project
  - Even got Village Council approval
- And...

# About the Village of North Palm Beach

Some residents were already using them



Some residents really needed them



# What We Know About NPB Residents (who took the non-statistically valid survey)

- 83.2% said they are above the age of 45
- 72.8% said they are in a married or domestic partnership, with or without kids
- 56.3% said they have at least a bachelors degree
- 38.6% said they have a household income of \$90,000 or greater
- 88.5% said they identified as being white

#### 25-Gallon Bins

- 3,600 units
- \$11.94 cents each
- Made from HDPE resin with UV stabilizers
- 5-year warranty
- 2 sided printed
- Nestable
- Drain holes



## The 2-sided Hot Stamp

Side 1 Side 2

Pilot Project 2014/15

## RECYCLE Right \*BLUE\*

**Aluminum Cans** 

**Drink Boxes** 

Glass Bottles and Jars (all)

Milk/Juice Cartons

Plastic Containers (#1-#7)

**Steel Cans** 

866-NEW-BINS



of Palm Beach County www.SWA.org

Pilot Project 2014/15

#### NPB Newsletter

#### Cover



#### **Page**

#### Village and Solid Waste Authority Partner to Recycle More!



The Solid Waste Authority (SWA) of Palm Beach County and the Village of North Palm Beach (NPB) are partnering to give you the chance to recycle more at home. Coming soon, your blue recycling bin will be getting a little bigger (25 gallons) and have a different shape. This will only be available for residents who are currently using these 18 gallon blue and yellow recycling bins.

North Palm Beach was selected because of the great job that you are already doing with recycling. This pilot program is to test if having a larger blue recycling bin increases recycling recovery and participation, and makes it easier for you, the residents.

The SWA is providing all of the new larger recycling bins at no cost to residents or the Village. You'll still use your current yellow recycling bin for all of your paper material.

We expect the new blues will be delivered sometime in October, along with a reminder of what to put in each bin and contact information if you'd rather not participate.

You can expect more information as we get closer to bin distribution. But to learn more about the pilot program, please email SWA at Recycle@SWA.org. Thanks for recycling, and keep up the good work!



#### NPB Police Re-Accreditated by CALEA

The North Palm Beach Police Department completed the second 3 year advanced e-accreditation process from April 18 - 2014 A team of CALEA (Commission on Accreditation for Law Enforcement Agencies) assessors arrived at the CALEA (Commission on Accreditation for Law Enforcement Agencies) assessors arrived at the CALEA (Commission on the CALEA (Com

This on-site re-assessment looked at standards that apply to patrol, investigations, administration, crime prevention, property and evidence, the Reserves, the Explorers programs, and all areas of Police Departments' operations.

This re-accreditation is a voluntary process where we "open our books" for outside scrutiny to insure that we meet the most ingrouse set of standards designed for law enforcement in the United States. We agreed to meet all the standards applicable to the largest size agency defined by CALEA, and to prove compliance with those standards on a continual basis through documentation and inspection. Inspections occur both internally and once every three years by a team of law enforcement professionals chosen by CALEA from non-bordering jurisdictions.

We thank all the citizens for their support of the North Palm Beach Police Department over the years, and look forward to continuing to improve our services.



www.village-npb.org

Public Works/Police -Pg. 5



#### Pre-Pilot Direct Mail

#### Side 1



Dear village of North Palm Beach resident: Beginning next week, the Solid Waste Authority of Palm Beach County will begin delivering new Blue 25-gallon recycling bins to the residents in North Palm Beach for a recycling pilot project. We are hoping you will help us gain a base-line account of your current recycling activity, by taking a few moments to fill out the attached survey OR by filling it out

online at <a href="https://www.surveymonkey.com/s/PRE25pilot">https://www.surveymonkey.com/s/PRE25pilot</a> until Oct. 10, 2014.

If you choose to fill out the attached form, please return it by Oct. 10, 2014 to: Solid Waste Authority of Palm Beach County Public Affairs and Recycling, 7501 N. Jog Road, West Palm Beach, Fl. 33412.

Thank you in advance for being a part of this pilot project!

1.	Do you recycle plastics, alu Yes (skip to Q3)	minum/steel or glass in yo	our square 18-gallon Blue bin now	?

2. If	NO, w	hy not?
-------	-------	---------

■ Every week

	f YES,	how ofter	do you	ı recycle plast	ics, aluminun	n/steel or	glass in y	our square	18-gallon Blue	
--	--------	-----------	--------	-----------------	---------------	------------	------------	------------	----------------	--

- 4. If YES, do you usually have more plastics, aluminum/steel or glass recyclable materials than your
- square 18-gallon Blue bin can hold?
- 5. If YES, what do you currently do with your excess Blue bin recyclable materials?
- 6. Do you recycle paper and cardboard materials in your square 18-gallon Yellow bin now?
  ☐ Yes (skip to 0.8) ☐ No
- 7. If NO, why not?
- If YES, how often do you recycle paper and cardboard materials in your square 18-gallon Yellow
  - □ Every week
- Every other week
- Once a Month

Once a Month

- If YES, do you usually have more paper and cardboard recyclable materials than your square 18gallon Yellow bin can hold?
  - ☐ Yes ☐ No (skip to Q11)

10. If YES, what do you currently do with your excess Yellow bin recyclable materials?

#### Side 2

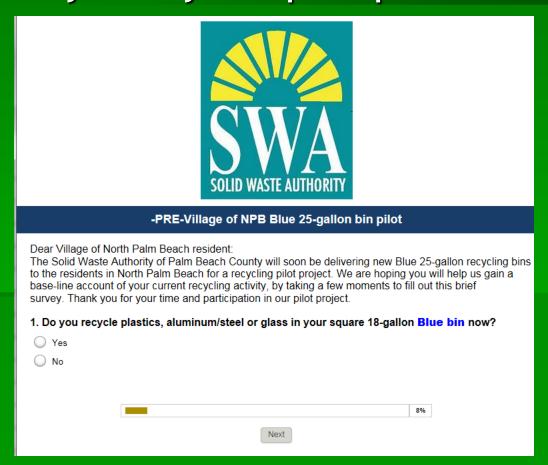
			have the sam cle (skip to Q14			
12. Do yo	u feel a larger Blue bin	would enco	urage you to	recycle more pla	stics	, aluminum/steel o
	Yes, larger square bin			Yes, larger rou		
•	Yes, larger round bin	without a lid	-	No, my current	bin	is fine
13. Do yo mater	u feel a larger Yellow bi ials?	n would end	ourage you t	o recycle more p	aper	and cardboard
	Yes, larger square bin			Yes, larger rou		
	Yes, larger round bin	with a lid	u	No, my current	DIN	is fine
14. If you be?	could add one comme	nt about the o	urrent two-bin	(dual stream) re	ecycl	ing process it wou
-						
	s about yourself					
	Male 🔲	Female				
	is your age range?					
	18-24 years old		15-54 years old		75	years or older
	25-34 years old 35-44 years old		55-64 years old 55-74 years old			
_	33-44 years old		75-74 years or	•		
	is your marital status?					
	Single (Never married					
	Single (Never married Married or domestic p			owed), with kid(s	•)	
	Married or domestic p					
18. What	is the highest degree o	r level of scho	ool vou have co	ompleted? If curr	ently	enrolled, highest
	e received.		•			
	Doctorate degree			Some college of		
	Master's degree					te, diploma or the
				equivalent (for	exa	
	Bachelor's degree		_			
0		ional training		Some high sch Prefer not to a	ool, r	
0	Bachelor's degree Associate degree Trade/technical/vocat	_		Some high sch	ool, r	
19. What	Bachelor's degree Associate degree Trade/technical/voca is your total household	income?		Some high sch Prefer not to ar	ool, r nswe	r
19. What	Bachelor's degree Associate degree Trade/technical/vocal is your total household \$150,000 or more	income?	\$70,000 to \$1	Some high sch Prefer not to ar 79,999	ool, r nswe	s20,000 to \$29,9
19. What	Bachelor's degree Associate degree Trade/technical/voca is your total household	income?		Some high sch Prefer not to ar 79,999 59,999	ool, r nswe	\$20,000 to \$29,9 \$10,000 to \$19,9
19. What	Bachelor's degree Associate degree Trade/technical/vocal is your total household \$150,000 or more \$100,000 to \$149,999 \$90,000 to \$99,999	income?	\$70,000 to	Some high sch Prefer not to an 79,999 59,999 59,999 49,999	ool, r nswe	\$20,000 to \$29,9 \$10,000 to \$19,9 Less than \$10,00
19. What	Bachelor's degree Associate degree Trade/technical/vocal is your total household \$150,000 or more \$100,000 to \$149,999	income?	\$70,000 to \$3 \$60,000 to \$3 \$50,000 to \$3	Some high sch Prefer not to an 79,999 59,999 59,999 49,999	ool, r nswe	
19. What	Bachelor's degree Associate degree Trade/technical/vocal is your total household \$150,000 or more \$100,000 to \$149,999 \$90,000 to \$99,999	income?	\$70,000 to	Some high sch Prefer not to an 79,999 59,999 59,999 49,999	ool, r	\$20,000 to \$29,9 \$10,000 to \$19,9 Less than \$10,00 Prefer not to ansv
19. What	Bachelor's degree Associate degree Associate degree Trade/technical/vocal is your total household \$150,000 or more \$100,000 to \$149,999 \$90,000 to \$99,999 \$80,000 to \$89,999 e specify your ethnicity. White	income?	\$70,000 to	Some high sch Prefer not to ar 79,999 59,999 59,999 49,999 39,999	ool, r	\$20,000 to \$29,9 \$10,000 to \$19,9 Less than \$10,00 Prefer not to ansv
19. What	Bachelor's degree Associate degree Trade/technical/vocal is your total household \$150,000 or more \$100,000 to \$149,999 \$90,000 to \$99,999 \$80,000 to \$89,999 e specify your ethnicity. White Hispanic or Latino	income?	\$70,000 to \$: \$60,000 to \$: \$50,000 to \$: \$40,000 to \$: \$30,000 to \$: Native Ameri	Some high sch Prefer not to an 79,999 59,999 59,999 49,999 39,999 can or lian	ool, r	\$20,000 to \$29,9 \$10,000 to \$19,9 Less than \$10,00 Prefer not to ansv
19. What	Bachelor's degree Associate degree Associate degree Trade/technical/vocal is your total household \$150,000 or more \$100,000 to \$149,999 \$90,000 to \$99,999 \$80,000 to \$89,999 e specify your ethnicity. White	income?	\$70,000 to	Some high sch Prefer not to an 79,999 59,999 59,999 49,999 39,999 can or lian	ool, r	\$20,000 to \$29,9 \$10,000 to \$19,9 Less than \$10,00 Prefer not to ansv



33412.

## Online Survey Pre-Pilot

#### www.surveymonkey.com/pre25pilot



## **Pre-Pilot Survey Results**

#### 501 responses

- 97.8% said they recycle
- 91.1% said they recycle Blue bin material every week
- 48.2% said they have more Blue bin material than current 18-gallon bin can hold
  - Some said they use 2 bins
  - Some said they use their neighbor's bin
  - Some said they put excess in plastic bags and place them besides the bin
  - Others said they throw excess away
- 19.9% said a larger Blue bin would encourage them to recycle more Blue bin material



## **Pre-Pilot Survey Results**

#### 501 responses

- 97.8% said they recycle
- 90.5% said they recycle Yellow bin material every week
- 34.2% said they have more Yellow bin material than current 18gallon bin can hold
  - Some said they use 2 bins
  - Some said they place the excess material in a cardboard box besides the bin
  - Some said they save the excess till the next week
  - Others said they throw excess away



#### Set Out Schedule

		MONDAY	TUES	SDAY	WEDNESDAY		
TRAILER #1	,	WES - DRIVER	WES - I	DRIVER	WES - DRIVER		
1st Shift		2 TEMPS	LANE - 7:00-3:00	2 TEMPS	LANE 7.00.2.00	2.751400	
2nd Shift	LANE - 7:00-3:00	2 TEMPS LA		2 TEMPS	LANE - 7:00-3:00	2 TEMPS	
TRAILER #2		GARY - DRIVER	GARY -	DRIVER	GARY - DRIVER		
1st Shift	PATTI 7:00-11:00	2 TEMPS	SANDY 7:00-11:00	2 TEMPS	JASON 7:30-11:00	2 TEMPS	
2nd Shift	BRETT 11:00-3:00	Z TEIVIPS	WILLIE 11:00-3:00	Z TEIVIPS	KAREN 11:00-3:00		
BOXTRUCK	N	MARK - DRIVER	MARK - DRIVER		MARK - DRIVER		
1st Shift	BOB 7:00-3:00	2 TEMPS	KAREN 7:00-11:00	2 TEMPS	BOB 7:00-3:00	2 TEMPS	
2nd Shift	BOB 7.00-3.00	DONNA 11:00-3:00		Z TEIVIF3	BOB 7.00-3.00	Z IEIVIPS	
1) WILL HAVE 8	TEMPS TOTAL 2 FOR E	ACH VEHICLE TO WALK AND PLACE BI	NS AND 2 FLOATERS.				
2) WILL USE SU	SAN TO TRANSPORT PE	OPLE TO AND FROM DELIVERY TEAM!	S AT CHANGE OF SHIFTS, MOVE 1	TEMPS AROUND, DISTRIBUTE W	ATER, ETC.		
3) ALL STAFF M	UST WEAR SAFETY BOO	TS AND SAFETY VEST!					

- Total homes = 2,663
- Less than 50 residents called to pick them up
  - Elderly
  - 1 or 2 person household and would generate enough to fill it up

## **Bin-Drop Postcard**

Side 1 Side 2







## **Photos of Participation**









#### Mid-Pilot Direct Mail

#### Side 1



February 17, 2015

Dear Village of North Palm Beach Resident

Since October 2014, the Solid Waste Authority of Palm Beach County, in partnership with the Village of North Paim Beach, has been piloting new round 25-gallon Blue recycling bins to see if the larger Blue bin brings about an increase in Blue bin recyclables. We are proud to say that our initial findings do show this to be true.

Comparing the year-over-year weight of Blue bin recyclables (plastic containers, aluminum and steel cans, and glass) collected from October 2014 through January 2015, there has been a 10.6%, or 20 ton, increase in Blue bin material collected. This also equals an increase in Recycling Revenue Share for the Village

While we do plan on continuing to evaluate this pilot for the rest of the year, we wanted to conduct a mid-pilot survey to gauge your thoughts on using the larger Blue recycling bin. You can fill out the survey online at https://www.surveymonkey.com/s/mid25oilot. OR fill out the hardcopy survey below and mail it back to:

olid Waste Authority of Palm Beach County Public Affairs and Recycling Department

f you have questions or concerns about accessing the survey link, please call 561-640-4000, 4726. Thank you advance for your continued participation in this 25-gallon Blue bin recycling pilot!

- Did you recycle plastics, aluminum/steel or glass in your new round 25-gallon Blue bin during the pilot?
   Yes
   No
- If YES, how often did you place your new round 25-gallon Blue bin to the curb during this pilot?
   Every week

  - ☐ Every other week
    ☐ Once a Month
- 3. Did you have more plastics, aluminum/steel or glass recyclables than fit into your new round 25-gallon
- 4. If YES, did you use your old square 18-gallon Blue bin as well as the new 25 gallon Blue bin?
- 5. If NO, what did you do with the excess plastics, aluminum/steel or glass recyclables?
- Do you feel the larger Blue bin encouraged you to recycle more plastics, aluminum/steel and glass?
   ☐ Yes
- 7. Do you feel the larger round 25-gallon Blue bin made recycling plastics, aluminum/steel and glass
- 8. Did you continue to recycle paper and cardboard materials in your square 18-gallon Yellow bin during
- 9. If YES, how often did you place your square 18-gallon Yellow bin to the curb during this pilot?

  - ☐ Every week
    ☐ Every other week
    ☐ Once a Month

#### Side 2

□ Yes □ No	ooard materials during this pilot?
11.If YES, did you have more paper and cardboard Yellow bin?  Yes  No	d recyclable materials than fit into your square 18-gallon
12. If YES, what did you do with your excess Yellov	w bin recyclable materials?
13. Which bin – new round 25-gallon Blue bin or old material (by volume not weight) in it each time y Blue Yellow Same amount	d square 18-gallon Yellow bin - do you feel had more you placed recyclables to the curb?
14. Do you feel a larger Yellow bin would encourag  Yes  No, my current bin is fine	e you to recycle more paper and cardboard materials?
15. Do you feel a larger Yellow bin would make rec ☐ Yes ☐ No	ycling paper and cardboard materials easier?
16. If you could add one thing about this recycling p	oilot project it would be?
17.Tell us about yourself: □ Male □ Female	
18. What is your age?    18-24 years old   25-34 years old   25-34 years old   35-44 years old   45-34 years old   55-34 years old   55-34 years old   57-34 years old   75-years or older	19. What is your marital status?  Single (Never married, Separated, Divorced, Widowed), no kids Single (Never married, Separated, Divorced, Widowed), with kids(s) Married or domestic partnership, no kids Married or domestic partnership, with kid(s) I drather not say
20. What is the highest degree or level of school you have completed? If currently enrolled, highest degree received.  Doctorate degree  Bashelor's degree  Associate degree  Associate degree  Associate degree  I trade itechnical vocational training  Some college credit, no degree  High school graduate, diploma or the equivalent (for example: OED)  Some high school, no diploma  If arther not say	21. What is your total household income?  \$150,000 or more \$150,000 to \$149,999  \$80,000 to \$84,999  \$80,000 to \$84,999
22. Please specify your ethnicity.  White Hispanic or Latino Black or Affician American Native American or American Indian Asian / Pacific Islander Other I'd rather not say	□ l'd rathernot say



## Online Survey Mid-Pilot

#### www.surveymonkey.com/mid25pilot



## Mid-Pilot Survey Results

#### 242 responses

- 81.4% say they recycled in the new 25-gallon Blue bin
- 80.3% say they recycle Blue bin material every week
  - 91.1% say they recycle Blue bin material every week (PRE)
- 38.0% say they have more Blue bin material than current 18-gallon bin can hold
- 79.5% say they used their old 18-gallon Blue bin for excess
- 65.3% said the larger Blue bin encouraged them to recycle more Blue bin material
  - 19.9% said a larger Blue bin would encourage them to recycle more Blue bin material (PRE)
- 84.1% said the larger Blue bin made recycling Blue bin material easier

## Mid-Pilot Survey Results

#### **Biggest Complaints**

- Doesn't fit with their current bin-cart combination
- No wheels







## What Did the Haulers Say

- Overall, the drivers liked it!
- Easier to pick up making less time spent at each stop
- Wondered if yellow 25 gallon coming next
- One driver noticed it was heavy at an allglass bottles house

#### **Pilot Results**

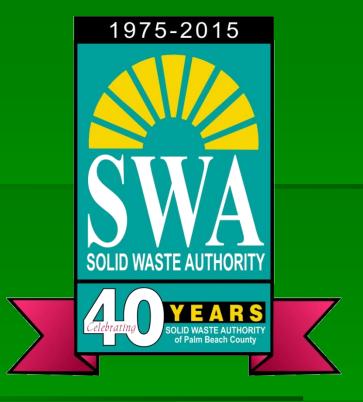
PR	RIOR YEAR		CURRENT YEAR			T			
Date	TOTAL CM	TOTAL NP	Date	TOTAL CM	TOTAL NP	INC/(DEC) TONS CM	% INC/(DEC) CM	INC/(DEC) TONS NP	% INC/(DEC) NP
October-13	47.78	64.93	October-14	53.77	66.32	5.99	12.5%	1.39	2.1%
November-13	38.88	68.09	November-14	41.44	56.24	2.56	6.6%	(11.85)	(17.4%)
December-13	44.78	63.97	December-14	47.24	65.12	2.46	5.5%	1.15	1.8%
January-14	57.21	80.98	January-15	66.17	77.85	8.96	15.7%	(3.13)	(3.9%)
February-14	46.51	67.68	February-15	49.02	59.87	2.51	5.4%	(7.81)	(11.5%)
March-14	46.03	60.66	March-15	46.38	55.87	0.35	0.8%	(4.79)	(7.9%)
April-14	45.22	56.86	April-15	49.81	56.88	4.59	10.2%	0.02	0.0%
May-14	53.48	71.12	May-15	58.74	65.95	5.26	9.8%	(5.17)	(7.3%)
June-14	40.52	51.90	June-15	41.85	49.76	1.33	3.3%	(2.14)	(4.1%)
July-14	42.45	61.68	July-15	50.76	55.40	8.31	19.6%	(6.28)	(10.2%)
August-14	37.87	46.86	August-15	39.31	42.00	1.44	3.8%	(4.86)	(10.4%)
September-14	33.52	48.62	September-15	40.15	50.74	6.63	19.8%	2.12	4.4%
Total	534.25	743.35		584.64	702.00	50.39	9.4%	(41.35)	(5.6%)
Avg Per Month	44.52	61.95		48.72	58.50	4.20	9.4%	(3.45)	(5.4%)

#### **Pilot Results**



#### Pilot Results

- The actual container increase during pilot period was more than 9 percent, or additional 50.39 tons of containers collected over the previous year
- The quality of the recycled product is kept
- In December 2015, Recycling Department recommended expanding the effort countywide
- 25 gallon blue bins are available by request and extremely popular
   in less than five months, almost 900 have been distributed



## Willie Puz wpuz@SWA.org 561-640-8914