Public Area Cleanliness Index

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CITY'SVISION

- The City's Vision is to ensure that the City of Miami Beach will be:
 - Cleaner and Safer
 - More Beautiful and Vibrant
 - A Unique Urban and Historic Environment
 - A Mature Stable Residential Community with <u>Well-Improved Infrastructure</u>
 - A Cultural Entertainment, Tourism Capital and International Center for Innovation and Business
 - While Maximizing Value to our Community for the Tax Dollars Paid



WHATISTHECLEANLINESSINDEX

- The Cleanliness index is a set of standards that can be used to measure the cleanliness of the City of Miami Beach's public areas.
- The Cleanliness Index provides standards on rating the cleanliness of 4 factors:
 - Litter / Trash
 - Litter / Garbage Cans
 - Organic Materials
 - Fecal Matter



WHYASSESSTHECLEANLINESS OFPUBLICAREAS?

- To provide a quantitative measurement to gauge the cleanliness of the City as it relates to the vision statement
- Use the data captured to direct the City's efforts in improving the cleanliness maintenance functions
- Assist the departments in determining what factors affect the cleanliness of the public areas
- Evaluates if different initiatives and service levels are effective in making the public area cleaner



CLEANLINESSPROGRAM

- Identified during 2005 Strategic Planning Process
- Developed in response to community input, workshops, and retreats
- Community input- community meetings/focus groups/complaints
- 2005 Community Surveys



2005SURVEY

- Identified cleanliness of streets (commercial areas) and waterways area for improvement
- Cleanliness important quality of life issue
- Cleanliness one change- Make MB better
- Negative perceptions of cleanliness key driver lower value tax dollar paid



KEYINTENDEDOUTCOMES

- Strategic Plan accountability through both qualitative and quantitative measures
- Survey data provides qualitative measures (perceptions)
- Cleanliness Index: Objective measurement process and program to assess cleanliness, based on best practice review, nationally and internationally



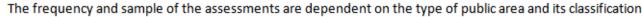
CLEANLINESSINDEXPROGRA M

- Implemented in September of 2005
- Index is a scale from 1 (Extremely Clean) to 6 (Extremely Dirty) used to evaluate four factors:
 - Litter/Trash, Organic Material, Fecal Matter,
 Garbage Cans
- Photographs taken of unacceptable conditions (3 or worse)
- Assessors conduct cleanliness assessments

CLEANLINESSINDEXPROGRA M

- Public areas assessed: streets, sidewalks, alleys, parks, parking lots, beaches, and waterways
- Stratified sample and frequency (number of assessments conducted at one location each quarter)

		How is the		When are	these areas	assessed	?
Public Area	Classification	sample	Weekd	lay	Weekend		
		selected?	Daytime	Night	Daytime	Night	Late Night
		Random					
Ctroote	Entertainment	sample	X	X	X	X	X
Streets,		Random					
Sidewalks,	Commercial (Non-Entertainment)	sample	X		X	X	
Alleys		Random					
	Residential	sample	X		X		
Parking Lots	Entertainment	All	X	X	Х	X	X
Faiking Lots	Commercial (Non-Entertainment)	All	X		Х	X	
Parks	N/A	All	X		X		
		Random					
Beaches	N/A	Sample	X		X		
Waterways	Hotspots	All	X		Х		·
		Random					
	Non-hotspots	sample	X		X		





PROGRAMRESULTS

- Reported quarterly and compared to previous quarter and with the same quarter from previous year
- Identifies trends and seasonality
- Color indicators used to identify under performing

			FY05/06			FY10/11	FY11/12			FY12/13					FY13/14				
Parking Lots	Q1	Q2	Q3	Q4			FY Score	Q1	Q2	Q3	Q4	FY Score	Q1	Q2	Q3	Q4	FY Score	% change from prior Qtr	% change from prior FY Qt
Commercial – Entertainment	2.02	2.27	2.33	2.00	2.16	1.74	1.65	1.43	1.50	1.40	1.77	1.53	1.54					-13.0%	7.69%
Commercial – Non-Entertainment	2.49	2.17	2.25	2.01	2.23	1.85	1.79	1.66	1.64	1.71	1.88	1.72	1.57					-16.5%	-5.42%
Cleanliness Per Factor																			
Commercial – Entertainment																			
Litter/Trash	2.41	2.50	2.74	2.39	2.51	2.15	1.95	1.67	1.65	1.69	2.11	1.78	1.71					-19.0%	2.40%
Organic Materials	1.95	2.06	2.38	2.05	2.11	1.73	1.81	1.40	1.52	1.51	1.97	1.60	1.71					-13.2%	22.14%
Fecal Matter	1.48	1.47	1.78	1.44	1.54	1.20	1.17	1.04	1.18	1.12	1.31	1.16	1.14					-13.0%	9.62%
Litter/Garbage Cans/Dumpsters	2.22	3.06	2.43	2.14	2.46	1.91	1.68	1.66	1.67	1.27	1.66	1.57	1.61					-3.0%	-3.01%
Commercial – Non-Entertainment									•										
Litter/Trash	3.10	2.67	2.38	2.37	2.63	2.22	2.02	1.94	2.10	2.05	2.05	2.04	1.86					-9.3%	-4.12%
Organic Materials	2.78	2.33	2.42	2.01	2.39	1.97	2.17	1.94	1.65	2.02	2.02	1.91	1.63					-19.3%	-15.98%
Fecal Matter	1.66	1.75	1.76	1.48	1.66	1.22	1.12	1.20	1.12	1.08	1.29	1.17	1.13					-12.4%	-5.83%
Litter/Garbage Cans/Dumpsters	2.41	1.92	2.42	2.19	2.24	1.95	1.87	1.53	1.70	1.88	2.21	1.83	1.70					-23.1%	11.11%
Cleanliness Per Time of the Week																_			
Commercial – Entertainment																			
Weekday(Monday 8AM - Friday 5PM)	1.86	2.17	2.49	1.78	2.07	1.66	1.68	1.49	1.42	1.41	1.84	1.54	1.47					-20.1%	-1.34%
Weekend(Friday 8PM - Sunday 12AM)	2.14	2.37	2.03	2.43	2.24	1.84	1.66	1.38	1.60	1.40	1.60	1.50	1.39					-13.1%	0.72%
Commercial – Non-Entertainment																			
Weekday(Monday 8AM - Friday 5PM)	2.59	2.06	2.29	1.88	2.21	1.84	1.77	1.63	1.60	1.80	2.11	1.79	1.64					-22.3%	0.61%
Weekend(Friday 8PM - Sunday 12AM)	2.42	2.37	2.09	2.14	2.26	1.82	1.80	1.68	1.66	1.63	1.54	1.63	1.54					0.0%	-8.33%



PROGRAMRESULTS

	FY05/06	FY09/10	FY10/11	FY11/12	FY12/13				
Public Area	FY Score	% change from Base FY	% change from Prior FY	% Change from Best FY					
Overall City Score	2.10	1.80	1.60	1.59	1.49	-29.0%	-6.3%	-6.7%	
Streets	2.03	1.74	1.65	1.55	1.47	-27.6%	-5.2%	-5.4%	
Not including alleys	1.94	1.66	1.54	1.45	1.36	-29.9%	-6.2%	-6.6%	
Commercial – Entertainment	1.95	1.69	1.55	1.44	1.37	-29.7%	-4.9%	-5.1%	
Commercial – Non-Entertainment	1.83	1.63	1.57	1.50	1.42	-22.4%	-5.3%	-5.6%	
Residential	2.01	1.65	1.51	1.43	1.32	-34.3%	-7.7%	-8.3%	
Alleys	2.60	1.99	1.89	1.84	1.77	-31.9%	-3.8%	-3.9%	
Sidewalks	2.06	1.75	1.63	1.45	1.36	-34.0%	-6.2%	-6.6%	
Commercial – Entertainment	2.04	1.77	1.64	1.43	1.37	-32.8%	-4.2%	-4.3%	
Commercial – Non-Entertainment	1.95	1.77	1.63	1.57	1.42	-27.2%	-9.6%	-10.5%	
Residential	2.14	1.71	1.59	1.42	1.31	-38.8%	-7.7%	-8.4%	
Parks	1.90	1.57	1.39	1.44	1.38	-27.4%	-4.2%	-0.7%	
Parking	2.21	2.00	1.81	1.75	1.63	-26.2%	-6.9%	-7.3%	
<u>Waterway</u>	2.59	2.11	1.70	1.96	1.72	-33.6%	-12.2%	1.1%	
Beach Areas									
Miami Beach Responsibility Only	1.85	1.59	1.43	1.36	1.40	-24.3%	2.9%	2.8%	
Miami-Dade County Responsibility	1.93	1.63	1.48	1.42	1.46	-24.4%	2.8%	2.7%	



PROGRAMRESULTS

- Assistant City Manager conducts cleanliness review meetings with stakeholder departments
- Analyze and discuss results, identify root causes and develop possible solutions
- Costs, impact, effort, and need for reallocation of resources, or new resources considered
- Distributed to the City Commission quanterlych

STAKEHOLDERDEPARTMENT S

- Public Works/Sanitation, Parks, Code, and Parking
- Use quantifiable data to validate need for change in service levels (not anecdotal information)
- Supervisors analyze results with front line staff
- Front line staff use data to identify root causes and determine solutions MIAMIBEACH

RESULTSOFTHEPROGRAM

FY 2005/06 to FY 2012/13

- Overall city cleanliness score improved by 29%
- Streets and sidewalks scores have improved by 27.6% and 34.0% respectively
- Parking lots scores improved by 26.2%
- Waterways scores improved by 33.6%



RESULTSOFTHEPROGRAM

Community Satisfaction Survey FY 2005/06 to FY 2011/12

- In 2005, 62% of residents rated the cleanliness of streets in neighborhoods as excellent or good compared to 74% in 2012, a 19% increase
 - North Beach residents rated street cleanliness 55% in 2005 and 70% in 2012, a 27% increase and South Beach/Belle Isle: 56% in 2005 and 76% in 2012, a 38% increase
- In 2005, 50% of businesses rated the cleanliness of streets in business areas as excellent or good compared to 62% in 2012, a 24% increase
 - South Beach/Belle Isle businesses rated street cleanliness 41% in 2005 and 57% in 2012, a 39% increase



RESULTSOFTHEPROGRAM

- Waterway cleanliness
 - Business rating improved overall, especially in Mid-beach, which improved overall by 20.4%
 - Resident ratings also improved 16.3% from 2005, with South Point and Condo Corridor in 2012 rating cleanliness in canals/waterways as excellent or good at 65% and 61% respectively



PROGRAMIMPLEMENTATION

- Developing program comprised of time spent by staff and staff holder departments
- One time cost (FY05) totaled approximately \$7,300 and \$600 for equipment)
- FY10 upgrade automation monthly cost \$300 for five Blackberry
- FY13 enhancement to include appearance index cost \$20,000 for equipment and additional staff time
- Recurring costs approximately \$5,000 annually for staff time and Blackberry usage
- Admin time available for employees for after-hours assessments

PROGRAMIMPLEMENTATION

- FY07 1.8 million budgeted for cleanliness service enhancements
 - Expand sanitation services on entertainment streets and sidewalks from 5 to 7 days/nights per week
 - Added an entertainment shift from 3 a.m. to 11 a.m.
 - Expand litter control in alleys citywide
 - Enhanced service levels for city parking lots
 - Add roving litter squads in Mid-beach and North Beach
 - Enhance beach cleanliness- addition of new sand sifting equipment
 - Outsourcing of waterway cleanliness
- Current enhancements



\$115,000 increased pressure cleaning (weekly on Washingtor

PUBLICAREAAPPEARANCEIND EX

 Program is being expanded to include a public area appearance index, assessors not only assessing cleanliness, but overall appearance of public areas, including landscaping



ADAPTABLE

- Program can be adapted for use in other cities
- City must identify what factors drive satisfaction of their customers for area being assessed
- Factors identified through best practice research and discussion with stakeholder departments
- City Manager or Chief administrator NSMPPENTCH

ADAPTABLE

- Maintain an unbiased approach to gathering the data
- Employee from departments not involved in the cleanliness program are assessors
- City Manager requirement for departments not involved in cleanliness to provide employees to conduct assessments each quarter



ASSESSINGSTREETS, SIDEWAL KS, PUBLICRIGHT-OF-WAYS, ALLEYS, ANDBEACHES



INDEXFORSTREETS, SIDEWALKS, RIGHT-OF-WAYS, ALLEYS, PARKS, PARKINGLOTS, AND BEACHES

The following index is used to rate and provide a score for the cleanliness of a street, sidewalk, right-of-way, alleys, parking lots, and beaches.

Index	Litter/Trash	Litter / Garbage Cans	Organic Materials	Fecal Matter
1 Extremely Clean	No litter and/or debris on entire block face.	 Can is in good working order and none are no more than 3/4 full. Can is in a clean condition free of items, such as stickers, graffiti. 	 Isolated instances of small fresh organic material, such as leaves, branches, etc., cover the paved area. No large organic material, such as tree limbs or palm fronds on the ground. 	• Fecal matter is <u>not</u> visible.



1-EXTREMELYCLEAN











INDEXFORSTREETS, SIDEWALKS, RIGHT-OF-WAYS,

Index	Litter/Trash	Litter / Garbage Cans	Organic Materials	Fecal Matter
2 Clean	Isolated pieces of litter on the entire assessed area. The area is not void of litter, but may contain an isolated incidence of litter.	 Can is in good working order and none are no more than 3/4 full. There is isolated piece of trash outside of the can. Can is in a clean condition free of items, such as stickers, graffiti. 	 Less than 10% of a 10 step distance paved area is covered by small organic materials, but occurring no more than 10% of the entire assessed area. If occurring in more than 10% of the entire assessed area, then add 1 point. No large organic material on the ground. 	Past residue of fecal matter. It seems that an attempt was made to clean the fecal matter, but residue was left behind.



2-CLEAN









INDEXFORSTREETS, SIDEWALKS, RIGHT-OF-WAYS,

ALLEVO DADKO DADKINOLOTO ANDDEACHEO

Index Litter/Trash	Litter / Garbage Cans	Organic Materials	Fecal Matter
Small to moder amounts of litter 10 step distance litter accumulations should account less than 10 sn pieces or 2-4 por large litter, boccurring in now than 10% of the assessed area. If the litter densions occurs between 25% of the enting area, then add point. If the litter densions occurs more than 25% of the enting area, then add 2 points.	but is full with trash, which can be seen from the eye level. There is no litter above the rain guard. There is some residue from past garbage. Can is in a clean condition, but may have one small isolated instance of a sticker or graffiti, which the eye is not drawn to it.	 Between 10% - 30% of a 10 step paved area is covered by organic materials, but occurring in no more than 10% of the entire assessed area. If occurring in more than 10% of the entire assessed area, then add 1 point. Between 1 and 3 pieces of large organic materials is on the ground. Isolated case of organic material accumulation caused by standing water and poor drainage. 	One instance of fecal matter is present on the public area.

3-SOMEWHATCLEAN











3-SOMEWHATCLEAN



to moderate amount of litter. In a 10 step area, there are less than 10 small pieces or 2-4 pieces of large litter.



Sea oats located on the sand dunes should not be rated against the index for organic material. The organic materials that should be rated is sand on paved areas, leaves, seaweed, etc.



INDEXFORSTREETS, SIDEWALKS, RIGHT-OF-WAYS,

Organic Materials Fecal Matter **Organic Materials** Index Cans Can is full and there is Between 30% - 50% of Consistently Two instances of scattered trash. In a trash above the rain a 10 step paved area is fecal matter are 10 step distance the guard. In some cases, covered by organic present on the public there is evidence that materials, but occurring trash accumulation area. should account to there is improper use in no more than 10% of more than 10 pieces by the residents. the entire assessed of small litter or over area. If occurring in Can is in a working 4 pieces of large litter more than 10% of the condition, but contains occurring in no more entire assessed area. items such as than 10% of the entire then add 1 point. stickers or graffiti on assessed area. Between 4 and 10 them. Somewhat If the litter density pieces of large Dirty occurs between 10organic materials is on the ground. **25%** of the entire area. then add 1 point from 2 to 3 instances of the rating scale. organic material If the litter density accumulation caused by standing water and occurs more than 25% of the entire area. poor drainage. then add 2 points from The organic material the rating scale. is beginning to turn brown.



4-SOMEWHATDIRTY



Sidewalk area contains 4 large pieces of organic material.



Litter Can contains some paint that was spilled on it and is dented.



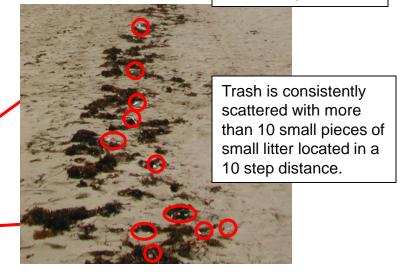


4-SOMEWHATDIRTY



Around 30% of a 10 step are is covered by organic material, in this a case seaweed

Trash is consistently scattered with more than 10 small pieces of small litter located in a 10 step distance.





INDEXFORSTREETS, SIDEWALKS, RIGHT-OF-WAYS,

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Index	Litter/Trash	Litter / Garbage Cans	Organic Materials	Fecal Matter
5 Dirty	Consistent accumulation of trash. In a 10 step distance there are multiple piles of trash consisting of more than 10 pieces of small litter or over 4 pieces of large litter. If the litter density is occurring between 10 - 25% of the assessed area, then add 1 point from the rating scale.	 Can is full and there is trash above the rain guard and beginning to overflow since there is no room to put additional trash. There may be evidence of improper use by the residents. Can has some damage, but is usable. A large area of the can contains items such as stickers or graffiti on them. 	 Over 50% of a 10 step paved area is covered by organic materials, but occurring in no more than 10% of the entire assessed area. If occurring in more than 10% of the entire assessed area, then add 1 point. Over 10 pieces of large organic materials is on the ground. 3-4 instances of organic material accumulation caused by standing water and poor drainage. Faint foul odor is present due to standing water. The organic material has been on the ground for some time and has turned brown. 	Three instances of fecal matter are present on the public area.

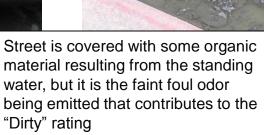


5-DIRTY











Parking lot is 50% covered with organic material, which has been there for some time because it is turning brown.



INDEXFORSTREETS, SIDEWALKS, RIGHT-OF-WAYS,

ALLEVO DADKO DADKINOLOTO ANDDEACHEO

Index	Litter/Trash	Litter / Garbage Cans	Organic Materials	Fecal Matter
6 Extremely Dirty	 Area is blocked by an accumulation of trash and litter. Illegal dumping may be evident. Hazardous materials on the street. 	 Can is full and trash has overflowed to the ground. In some cases, there is a rat/rodent/insect infestation. Can is damaged and needs to be replaced. Can is covered of items such as stickers or graffiti. 	 90-100% of a 10 step paved area is covered with organic material. The organic material has been on the ground for some time and has turned brown. Over 5 instances of organic material accumulation caused by standing water and poor drainage. Strong foul odor is present due to standing water. 	Four or more instances of fecal matter are present on the public area.



6-EXTREMELYDIRTY



A large accumulation of trash is present through the entire street.

10 step area is 90% covered by standing water that has been there for some time, since algae is forming on the paved area. The water is also emitting a smell.







QUESTIONS ?

