Mind your P's, Q's and KPI's-Key Performance Indicators

2019 Florida Recreation and Park Association Annual Conference

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The Woodlands Township (Texas)





What was the premise of Moneyball?



Moneyball



Looked for:

- Value
- Improvement
- Cost effectiveness
- Service levels?
- Other?



Moneyball



Can we implement a similar system in parks and recreation?



Before we start.....

Parks and Reconomics Reconomics

- What is your experience with KPI's?
- Do you use KPI's already?
- If you use them, how do you use them?

If you can't measure it, you can't manage it."- Peter Drucker



Session Concept

In today's <u>ultra competitive</u> <u>business ecosystem</u>, only the strong survive. In order to keep your team on top of their game, you need to <u>cultivate a</u> <u>data-driven culture</u> by sharing the right <u>performance indicators</u> and <u>business metrics</u> with





your team.

Session Objectives

- <u>Define KPI's</u> as related to parks and recreation
- Identify and understand the creation and <u>development process</u> for KPI's
- Develop a program for the <u>implementation of</u> <u>KPI's</u> within their agency



What is a KPI?

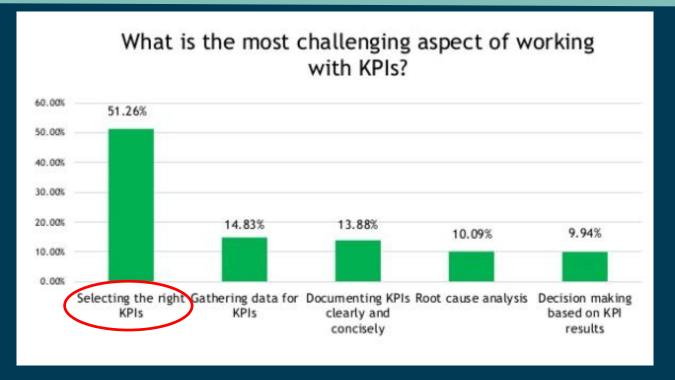
A Key Performance Indicator is a measurable value that demonstrates how effectively a company is achieving key business objectives.





What makes a good KPI





Brudan, 2015, Key Performance Indicators MasterClass https://www.slideshare.net/abdulsalammukhalfi/kpi-course-slides?qid=8d8bd287-b450-4e3c-85a4-f763ad7dea8b&v=&b=&from_search=9

Why use KPI's?

Parks and Reconomics REPRAZOR

- Performance effectiveness
- Monitor efficiency and effectiveness
- Measure change in process/actions
- Detect problems
- Process for improvement
- Focus on the facts
- Compete against other departments for dollars



Advantages of KPI's

Parks and and Reconomics

- Improve Operations
- Easy to measure and count
- Visibility on performance and strategic goals
- Agility in decision making
- Efficient management
- Raise questions
- Addresses financial and operational goals



Disadvantages of KPI's

Parks and Reconomics FIRMA 2014

- Use existing data available
- Frequency of data collection
- Short term
- Backward looking
- Used to punish rather than to motivate and equip.
- Too many measurementsparalysis by analysis



Data

What data do we have access to now??



Data

- Program registrations?
- Park Use?
- Revenues?
- Expenses?
- Marketing data?
- Demographic data??



KPI Development

Parks and Reconomics FIRM 2019

- Linked to the agency's goals/plans
- Designed to provide employees with relevant information
- Decided by management; understood by staff
- Desired indicators of performance (org and ind)
- Easy to understand



KPI Development

Parks and Reconomics FROM 2016

- Specific
- Measurable
- Achievable
- Result-oriented or Relevant
- Time-bound



KPI Development



Overall Business Strategy

What is this business trying to accomplish?

Goals and Objectives

What are the short and long term objectives to achieve the strategy

Key Business Drivers

What are the important execution steps to meeting the goals and objectives

Key Performance Indicators

What measures of success are tied to the drivers?

Supporting Metrics

What are the detailed measures that feed and augment the KPI's

- Output
- Outcome
- Efficiency





Remember.....

Parks and Reconomics FROM 2018

KPI's can be used for:

- Agency
- Department
- Team
- Employee



Output

- Measure results from an activity
- Easy to track
- Program/facility management software
- Easily reported



Types of KPI's- Output examples

Parks and Reconomics REPAZOR

Number of

- shelter reservations
- programs completed
- programs offered
- program participants
- fields rented
- Revenue generated
- Economic impact





Challenges with Outputs

- Is it the best story?
- Does not convey impact (community/participant)
- Does not reflect quality





- Individuals
- Groups
- Organizations
- Systems
- Communities



Outcome-Examples

- Improved skill level
- Park conditions
- Participants selfperception of self / health
- Weight loss or gain
- Customer satisfaction





Outcome- Challenges

- Difficult to gather data
- Utilize surveys
- Measurement tools can be subjective
- Labor intensive



Parks and Reconomics FRIPA 2014

Outcome- Advantages

- Demonstrates impact on individuals and community
- Illustrates quality of services



Efficiency-

- How resources achieve organizational objective
- Outputs/outcomes relative to dollars
- Cost of service evaluations
- Can compare cost of services across agency elements





Efficiency-

- Cost per hour to operate a recreation center
- Cost per participant for recreation operations
- Time to process a reservation
- Cost per pool visitor
- Time to complete a work order
- Cost per hour to maintain athletic <u>fields</u>



Efficiency-Advantages

- Comparing performance over time
- Compare cost of different services
- Look for efficiencies
 - Drive costs down
 - Increase revenues
 - Increase participation



KPI's for Parks and Recreation



Lets review some KPI's in

Parks and Recreation

- Work Orders
- Park Usage
- Program Use
- Program Staffing
- Aquatics Cost
- Boat House Cost



Remember.....

A KPI needs to be:

- Specific
- Measureable
- Achievable
- Result oriented or Relevant
- Time Bound



KPI's-Parks Work Orders

Desired Outcome

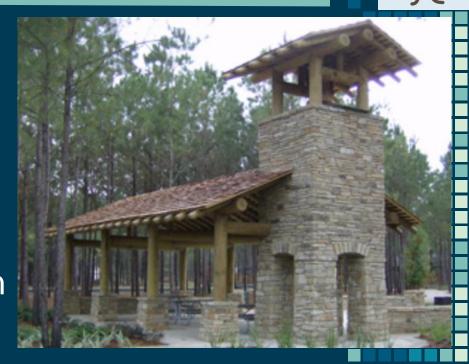
 Closure rate of work orders

Measure

Work Orders

Calculation

Work Order/Completion
 Frequency- Daily/Annual



KPI's-Parks Work Orders



	2013	2014	2015	2016	2017	2018
Work	3,698	2,841	2,818	2,584	2,836	3,259
Orders	3,090	2,041	2,010	2,304	2,030	3,239
Completed						
Work	3,601	2,773	2,785	2,520	2,728	2,266*
Orders						
%	97%	98%	99%	98%	96%	70%
Complete	91%	90%	77%	90%	90%	70%

What does this tell us?

KPI's-Parks Work Orders



Questions from data?

- Are there areas with 100% vs 70%?
- How do we improve 2018
- Did staff close out work orders?
- Comp's to other communities?
- Does this data turn into action?



KPI's-Parks Use

Desired Outcome

- Ensure access to facilities
 Measure
- number of field reservations
 Calculation
- Summary of field reservations



KPI's-Parks Use

Use of athletic fields

- Peak (define)
- Non Peak (define)
- Total



KPI's-Parks Use



			2018		2017		2016		2015		t
All Weather Turf	Fields	Hours	9)	9	9		9		9	Į
			Time	Capacity	Time	Capacity	Time	Capacity	Time	Capacity	İ
Weekday Peak Hours	4-11 pm	7:00	3:13	45.95%	2:50	40.48%	2:33	36.43%	1:43	24.52%	+
Weekend Peak Hours	8 am-11 pm	15:00	6:54	46.00%	6:02	40.22%	5:25	36.11%	3:21	22.33%	1
Tier A- Lighted			2	1	2	1	2	21		21	ł
Weekday Peak Hours	4-11 pm	7:00	1:57	27.86%	2:26	34.76%	1:34	22.38%	1:51	26.43%	4
Weekend Peak Hours	8 am-11 pm	15:00	3:06	20.67%	3:52	25.78%	1:46	11.78%	1:24	9.33%	

What does this tell us?
How can I use this data?
How does this compare to a "standard"?
How does this compare to other communities?

Desired Outcome

 Improve/Expand Programs (output)

Measure

 number of program participants

Calculation

 Summary of program numbers



Frequency- Annual



Great information but what does this really tell us?



Great information but what does this really tell us?

Does this tell us any more?

Row Labels	▼ Sum of Enrollments - Total
Adult Enrichment Programs	82
Adult Fitness Program	169
Adult Tennis	1201
Aquatic Programs	2629
Athletics - Basketball	0
Athletics - Soccer	292
Athletics - Softball	69
Athletics - Tennis	6453
Athletics Programs	569
Boat House	161
Contractor Camps	461
Exercise	244
Leagues	272
Pre-School	583
Recreation	2044
Recreation Camps Sunny Day	/z 3892 -
Special Events	353
Swim Lessons	6
Youth Programs	271
Youth Tennis	2635
Grand Total	22386

		2014	2015	2016	2017	2018	2014 v 2018 %	2017 v 2018
	Adult Enrichment Programs	82	825	580	562	490	597.56%	87.19%
	Adult Fitness Program	169	406	474	575	774	457.99%	134.61%
	Adult Tennis	1201	4228	4552	4924	4763	396.59%	96.73%
	Aquatic Programs	2629	607	427	407	449	17.08%	110.32%
	Athletics - Soccer	292	244	333	581	471	161.30%	81.07%
	Athletics - Softball	69	117	204	208	198	286.96%	95.19%
	Athletics - Tennis	6453	1902	268	377	361	5.59%	95.76%
	Athletics - Youth			74	26	40	54.05%	153.85%
What does	Athletics Programs	569	603	35	16	4	0.70%	25.00%
vviiai uocs	Boat House	161	80	92	85	20	12.42%	23.53%
this tell us?	Camp		291	653	643	1146	393.81%	178.23%
tino ton do.	Contractor Camps	461	510	500	458	449	97.40%	98.03%
	Exercise	244	1	25	22		0.00%	0.00%
	Leagues	272	1577	2194	1979	816	300.00%	41.23%
	Outdoor/ Adventure			25	31	156	624.00%	503.23%
	Pre-School	583	1305	2067	2423	3223	552.83%	133.02%
	Recreation	2044	1072	695	552	748	36.59%	135.51%
	Recreation Camps Sunny Day	3892	5422	4889	5466	12140	311.92%	222.10%
	Special Events	353	1199	1553	1743	3476	984.70%	199.43%
	Swim Lessons	6	6466	6184	6366	5981	92.50%	93.95%
	Swim Teams		2933	2513	1680	1622	55.30%	96.55%
41	Youth Programs	271	852	889	1197	1428	526.94%	119.30%
7	Youth Tennis	2635	9419	8316	7135	6607	250.74%	92.60%



Questions from data?

- What are our bench marks,
 i.e 5/10% per year?
- Are we ok with flat/level services?
- Lifecycle issues?
- Does this data turn into action?



Desired Outcome

Staff Efficiency

Measure

 Number of program participants/coordinator

Calculation

 Summary of program numbers/staff levels
 Frequency- Annual



Parks and Reconomics REPA 20N

2018-

- 25,314 registrations
- 5 Staff

What questions does this raise?



Recreation	Center Capacity Ana	lysis		
	Registrations	Registration Growth	Coordinators*	Coord/Registrations
2010	12389		4	3097.25
2011	14696	18.62%	4	3674
2012	15525	5.64%	4	3881.25
2013	18144	16.87%	4	4536
2014	19295	6.34%	4	4823.75
2015	21234	10.05%	5	4246.8
2016	22381	5.40%	5	4476.2
2017	23206	3.69%	5	4641.2
2018	25314	9.08%	5	5062.8
	Average	7.87%		





Questions from data?

- What is the benchmark for coordinators per registrations?
- If we exceed the benchmark- new staff?
- Lower-loose staff?



Desired Outcome

 Decrease service cost (efficiency)

Measure

Cost per hour-aquatics operations

Calculation

Service cost/hours of operation

Frequency- Annual



Parks and Reconomics REGAL 2001

What data is needed for to understand our cost per hour?

- Hours open
- Days open
- Revenue per pool
- Expenses per pool (%)





	Pre/Post Schedule and	Hours + Holidays	Regular Season (include	s July 4th)				
		Total Non-Regular	Regular Season Total	M/F or Saturday		Regular Season		Total Open
2018 Schedule	Open?	Open Hours	Days (M-Sat)	Hours	Mon-Sat Hrs	Total Days (Sun)	Sun Hrs	Hours
Alden Bridge	Mem Day only	6	53	10 am to 8 pm	10	11	5	591
Bear Branch *	none	0	0	10 am to 8 pm	0	0	0	0
Cranebrook	Pre/Post	100	54	10 am to 8 pm	10	11	5	695
Creekwood	Pre	50	54	12 noon to 6 pm	6	11	5	429
Falconwing	Pre/Post & Weekdays	206	54	10 am to 8 pm	10	11	5	801
Forestgate	Pre	50	53	12 noon to 6 pm	6	11	5	423
Harper's Landing	Pre/Post	100	54	10 am to 8 pm	10	11	5	695
Lakeside	Post	50	53	12 noon to 6 pm	6	11	5	423
Ridgewood	Post	50	53	10 am to 8 pm	10	11	5	635
Rob Fleming	Pre/Post	100	53	10 am to 8 pm	10	11	5	685
Sawmill	Pre/Post	100	53	10 am to 8 pm	10	11	5	685
Shadowbend ***	Pre/Post	100	53	10 am to 8 pm	10	11	5	685
Wendtwoods	Pre/Post	100	57	10 am to 8 pm	10	11	5	725
Windvale	Pre	50	53	10 am to 8 pm	10	11	5	635
Subtotal Open Hours		1,062	69	7	118	143	65	8,107
		1101			Rental Hours (F	Resident Parties Bef	ore/After Hours)	188
				ALL Lifeguarded AQ	UATICS PROG	RAM Hours (oustid	e of Open Hours)	1,900
						Grand Tota	l Pool Use Hours	10,195



					Gross cost	
			Gross Cost by % of	Net Cost by % of	per	Net Cost Per
Facility (Rank)	2018 Attendance	% of Attendance	Attendance	Attendance	Attendee	Attendee -
Alden Bridge (6)	11,723	7.81%	\$ 185,493.40	\$ 93,449.76		
Bear Branch	-	0.00%	\$ -	\$ -		
Cranebrook (4)	14,050	9.37%	\$ 222,313.59	\$ 111,999.41		
Creekwood (10)	5,133	3.42%	\$ 81,219.62	\$ 40,917.65		
Falconwing (5)	12,254	8.17%	\$ 193,895.43	\$ 97,682.62		
Forestgate (13)	3,380	2.25%	\$ 53,481.85	\$ 26,943.63		
Harper's Landing (12)	3,432	2.29%	\$ 54,304.64	\$ 27,358.15	\$15.82	\$7.97
Lakeside (11)	3,994	2.66%	\$ 63,197.19	\$ 31,838.12	\$13.62	\$7.97
Ridgewood (7)	9,583	6.39%	\$ 151,632.11	\$ 76,390.77		•
Rob Fleming (1)	42,002	28.00%	\$ 664,598.97	\$ 334,818.45		
Sawmill (3)	14,274	9.51%	\$ 225,857.95	\$ 113,785.02		
Shadowbend (8)	8,399	5.60%	\$ 132,897.64	\$ 66,952.53		
Wendtwoods (2)	16,224	10.81%	\$ 256,712.86	\$ 129,329.43		-
Windvale (9)	5,577	3.72%	\$ 88,245.05	\$ 44,456.99		
Total	150,025	100%	\$ 2,373,850.30	\$ 1,195,922.53		
2018 Expenditures	\$2,373,850.30					
2018 Revenue	\$1,177,927.77					
Net Costs	\$1,195,922.53					

Parks and Reconomics Fifth 2014

What does this tell us?

		Cost by	Cost by
		Attended	Attended
2018 Schedule	Total Open Hours	/ Open	/ Open
Alden Bridge	591	\$313.86	\$158.12
Bear Branch *	0	\$0.00	\$0.00
Cranebrook	695	\$319.88	\$161.15
Creekwood	429	\$189.32	\$95.38
Falconwing	801	\$242.07	\$121.95
Forestgate	423	\$126.43	\$63.70
Harper's Landing	695	\$78.14	\$39.36
Lakeside	423	\$149.40	\$75.27
Ridgewood	635	\$238.79	\$120.30
Rob Fleming	685	\$970.22	\$488.79
Sawmill	685	\$329.72	\$166.11
Shadowbend ***	685	\$194.01	\$97.74
Wendtwoods	725	\$354.09	\$178.39
Windvale	635	\$138.97	\$70.01
	8,107	\$292.81	\$147.52



Questions from data?

- Trends (5 years)
- Reduce the cost?
- Impact of the pool on the community?
- Other?



Desired Outcome

Service cost (efficiency)
 Measure

 Revenue per daybreakeven

Calculation

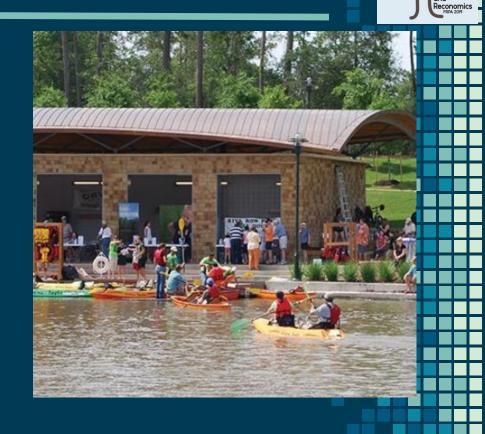
Rentals per day/expenses

Frequency- Daily/Annual



What data is needed to understand the breakeven cost?

- Revenue
- Expenses
- Average cost per rental
- Days open





	2013	2014	2015	2016	2017	2018
Boat House Revenue	\$194,436	\$217,855	\$322,471	\$394,645	\$396,880	\$372,449
Boat House Expenses	\$115,570	\$118,747	\$144,550	\$196,455	\$220,508	\$179,097
Profit/Loss	\$77,867	\$99,108	\$177,920	\$198,190	\$176,372	\$193,352
Total Rentals	10,927	11,668	17,554	22,628	21,714	19,765
Opreational Days	300	300	300	300	300	300
Revenue Per Day To BE	\$385.23	\$395.82	\$481.83	\$654.85	\$735.03	\$596.99
Rentals Per Day (\$20 per)	19.26	19.79	24.09	32.74	36.75	29.85
Actual Rentals Per Day	32.406	36.30917	53.74517	65.77417	66.14667	62.07483
Margins	1.682409	1.834615	2.230861	2.008832	1.799844	2.079594

Questions from data?

- What is the benchmark?
- How to I get back to 2.23 margins (2015)
- Trends (5 years)
- Action plan for improvement?



Output, Outcomes, Efficiency

Can I use all three types of KPI's for the following program??

Community based health fitness program to reduce childhood obesity



Output

- Number of children in program
- Number of classes
- Number of schools/sites



Outcomes

Parks and Reconomics

- Weigh lost
- Positive body image
- BMI- pre and post
- Diabetes %
- Cardio vascular efficiency



Efficiency

- Cost per person/per pound lost
- Per person weight lost/cost of program
- Per person body image increase/cost per program



What it looks like all together?

FY-18	Measure Details	3															and	
Recre	ation Programm	ing														J	Recond	2019 2019
Link	Desired Outcome	Measure	Calculation	Frequency	Data Source	Range	Baseline Year / Data	Long- Term Target (2015)	Annual Target	Threshold	Successful	Exemplary	% of Goal	Index Weight	Score	YTD Results and Comments		4
RP.1	Customer Satisfaction: Improved/ Expanded Parks, Open Spaces, Greenways and Recreation Opportunities SC417601	Measure public satisfaction with recreation opportunities, programs and Special Events	Unweighted average of the mean scores of the pertinent questions	Annual	Program Participant Surveys	0 - 100%	FY10 - 89.8% FY11 - 97.8% FY12 - 103.9% FY13 - 117.6% FY14 - 117.4%	> 95%	100%	≤ 86%	94% - 104%	≥ 105%		100.0%	117.4%	Prior to FY11, measure was RP.1,1 only.		
RP.1.1		Measure public satisfaction with recreation opportunities and programs in the Recreation Centers.	Unweighted average of the mean scores of the pertinent questions	Annual	Program Participant Surveys	0 - 100%	FY10 - 89.8% FY11 - 96.5% FY12 - 98.5% FY13 - 98.6% FY14 - 98.6%	> 95%	84%	≤ 71%	80% - 88%	≥ 89%	117.4%	50%	58.7%			
RP.1.3		Measure public satisfaction with appearance of Recreation Center facilities	Unweighted average of the mean scores of the pertinent questions	Annual	On-Line Recreation Center Appearance Satisfaction Survey		FY11 - 98.8% FY12 - 97.9% FY13 - 99.0% FY14 - 98.7%	> 95%	84%	≤ 71%	80% - 88%	≥ 89%	117.5%	50%	58.8%	Revise survey to include "safe, neat and orderly appearance". Separate resp. b/n PRK and RES (RP.1.4).		
RP.1.4		Measure public satisfaction with maintenance at Recreation Center facilities	Unweighted average of the mean scores of the pertinent questions	Annual	On-Line Recreation Center Maintenance Satisfaction Survey	0 - 100%	FY10 - 98.4% FY11 - 98.8% FY12 - 97.8% FY13 - 98.9% FY14 - 98.5%	> 90%	84%	≤ 71%	80% - 88%	≥ 89%		N/A	N/A	Track Only- RES.		

Final Thoughts I

Parks and Reconomics FREM 2011

- First year may be difficult
- Goals can be projected based upon history and resources
- Set stretch goals, ranges or levels of success
- Data driven decisions, especially during budget discussions
- Annually review results
- Tell your story!!!



Final Thoughts II



2018 The Woodlands Township Parks and Recreation Annual Report



SUMMARIZED DEPARTMENT ACTIVITY BY DIVISION

FACILI	TIES	
	2017	20
WORK ORDERS	3,178	3,2
WORK ORDERS COMPLETED	2,939	1,9
WORK ORDER COMPLETION %	92%	54.
PLANN	IING	
	2017	20
WORK ORDERS	872	88
WORK ORDERS COMPLETED	826	85
WORK ORDER COMPLETION %	95%	96
NATURAL RI	ESOURCE	s
	2017	20
FISH STOCKING-DOLLARS SPENT	\$ 19,509.85	\$25,3
TREE REMOVAL- CONTRACTOR/IN HOUSE	692/144	838,
TREE PLANTING	16,100	37,
VINE REMOVAL DAYS	240	24
SM/LRG CUL DE SACS MAINTAINED	1338/346	1,314
TOTAL CDS REFORESTATION- SMALL AND LARGE	201	20
WORK ORDERS	2,836	3,2
WORK ORDERS COMPLETED	2,728	2,2
WORK ORDER COMPLETION %	96%	70
PARK RAI	NGERS	
	2017	20
PATHWAY PATROL MILES/HRS	220/6,228	225/0
BANDIT SIGN REMOVAL	603	68
PARK INSPECT - BASIC/DETAILED	9,605/3,327	3,354,
PARKS/INSPECTIONS PER PARK	140/126.47	140/1
PARK INSPECTIONS- PLAYGROUND	899	83
BOAT H		
	2017	20
TOTAL RENTALS	21,714	19,
REVENUE	\$396,880	\$372
TOWN C	ENTER	
	2017	20

RECKE	ATION	
	2017	2018
REGISTRATIONS	24,708	27,935
ONLINE REGISTRATIONS	8,150	9,929
PROGRAM/SESSIONS	2,645	3,167
COST RECOVER (%)	109.04%	108.16%
FITNESS ROOM PASSES SOLD	343	812
FACILITY USAGE	64.75%	65.2%
AQUA	ATICS	
	2017	2018
SEASON PASSES SOLD	14,346	13,969
TOTAL POOL ATTENDANCE	315,708	325,500
COST RECOVERY (%)	49.6%	53.2%
RESCUE/ FIRST AID REPORTS	50/86	99/81
POOLS/SPRAY GROUNDS	13/5	14/5
LIFEGUARDS/WSI'S	338/37	338/36
WORK ORDERS ASSIGNED	43	126
WORK ORDERS COMPLETED	43	123
DEVELO	DRAENIT	
DEVELO		
	2017	2018
CASH SPONSORSHIP	\$252,820	\$194,455
IN KIND SPONSORSHIP	\$78,304	\$53,055
RACE PARTICIPANTS	4,520	4,117
OVERALL RACE NET	\$36,693	\$43,100
FIELD/PAVILION RESERVATIONS	5,853/1,580	5,349/2,034
SPECIAL EVENT PERMIT ROAD USE/NON ROAD USE	3/107	2/83
TOWNSHIP EVENT/PROGRAM	5/150+	6/150+
ROAD USE/NON ROAD USE		
ENVIRONMEN [*]	TAL SERVI	CES
	2017	2018
REFUSE/RECYCLING (TONS)	41.3/16	38/14.1
MOSQUITO TRAPS SET/WNV+	1749/10	1526/79
COMMUNITY TREE PLANTING PARTICIPANTS	303	181
WATER-WISE VILLAGE CHALLENGE	426	598
RESIDENT CA	RE CENTE	R
	2017	2018
TOWNHALL VISITORS	4,471	5,496
INBOUND PHONE CALLS	42,209	50,720
B11 REQUEST	1,622	2,522
SERVICE REQUEST CALLS	2,276	1,933

Thank you!!!!

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