REC Performance and OCA Review

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18 April 2017



US Army Corps of Engineers
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National REC Performance/OCA Genesis

- 1. In the begin, there was data....
- 2. RecBEST developed metrics that used data
- 3. More and more data was required/necessary to fuel machine including performance & condition data
- 4. Self reported data went unchecked and began to wander
- 5. Many inconsistencies were noted across the program
- 6. USACE infrastructure strategy Asset Mgmt
- 7. This team was born



USACE Infrastructure Strategy

- "In order to integrate risk within the USACE business processes, the organization is:
 - 1) creating and maintaining an accurate inventory of all assets;
 - 2) conducting condition assessments;
 - 3) determining consequences and associated risks;
 - 4) developing a risk-informed investment strategy based on the findings."
- O&M 20/20 Much???



National REC Performance/OCA





Round 1 = July 2014 - April 2015

- 6 projects 6 different MSC
- Created rating aides for paper process
- Cross walked OCA with FCI
- Combined RecBEST with Status

Round 2 = May 2015 - April 2016

- 7 projects 2 different MSCs
- Developed online data collection tool
- Established 5 critical asset types

Round 3 = May 2016 - Present

- 2 projects 1 MSC
- Develop new collection tool MICA
- Draft policy appendix
- Establish condition roll up reports

Visited 15 Lakes – all MSCs



WHAT'S NEW:

- Death of RecBEST / FCI as rating process
 - Official move to OCA rating (A-F)
- HQ OCA policy EC
 - REC appendix in draft form
- OCA tool development
 - Mobile Information Collection Application (MICA)
- Visual assessment rating process for all assets
- Training
- Scheduling



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DEPARTMENT OF THE ARMY U.S. Army Corps of Engineers Washington, DC 20314-1000

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[Series Title] POLICY FOR OPERATIONAL CONDITION ASSESSMENTS OF USACE ASSETS TABLE OF CONTENTS

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1. HQ OCA Policy for USACE Assets:

- Draft released 1 June 2016 for review/comment
- Establish 2 types of OCA reviews
- RAM or designee organizes teams
- Scheduled max every 5 yrs
- Encourages National QA/QC consistency review
- Assigns roles & qualifications for each
 - RAM
 - Regional OCA coordinator
 - OCA Team Leader
 - OCA Team Member
- REC Appendix in draft form

REC OCA - Two Tiered Approach:

Small Projects:

Condensed Review

1. Scope:

- Projects with <\$750K in Rec Assets or <\$750K in Service Budget
 - (260 projects)
- Performed minimum every 5 years
- 2. Process: Virtual (webcast, telecon, etc)
 - Review outlier data report
 - Review expenditure performance
 - Review OCA condition ratings;
- **3. Team consistency:** (same for each type)
 - Regional mix
- 4. Funding:
 - No travel necessary

Large Projects:

Comprehensive Review

1. Scope:

- Projects with >\$750K in Rec Assets or >\$750K in Serv Budget
 - 109 projects (including the 10 we have already accomplished)
- Performed minimum every 5 years

2. Process: Onsite

- Review outlier data report
- Review expenditure performance
- Full onsite review of current conditions

3. Team consistency:

Regional mix

4. Funding:

- Project funded travel and labor
- MSC/Districts ensure prioritized and budgeted

Assemble the Team





- Diversity in onsite review team is crucial to objective/consistent review
- •Team consisting of Peers from other MSC/districts. Ex:
 - District/MSC Program Managers
 - Lake Managers/Chf Rangers
 - Park Rangers/NRM Specialists
 - Landscape Architects
 - Civil Techs
- Team members selected/confirmed by MSC BLMs & RAMs
- Team members split up/share duties and assignments



Collect & Review Project Data

- Data Sources:
 - RecAssessment report
 - FCI Data (legacy)
 - RUDA (Capacity)
 - Unit Day Value (UDV)
 - PSA Analysis tool (Performance Matrix)
 - EDW expenditure details
 - NRRS occupancy and revenue
 - FEM work orders
 - CEFMS expenditure and revenue
- Compile/review data offsite with OCA team
- Upload to central repository (sharepoint)



Off Site Review:

												_							
	Core Me	trics					VISITATION				RUDA					SER	/ICE LE	VELS	
AreaName	B/C ((area NED + Rev) / OM cost)		ratio (rec	Net Cost per visit	Net Cost per RUDA (Cost - Rev / RUDA)		Selected	Percen t camper	total rec days	NED		Open_	Num Parking Spaces		RUDA total	Class	UserL	Area servic e levels	servic elevel
BOAT-IN SITES	4.45	14%	1.23	0.92	1.14	CAMPGROUND	14,820	100	56,316	532,186	125	365	_	365	45,625	D	Mediu m	15	Below
BRIDGE EAST VISTA	125.34	No Data	2.51	0.05	0.14	SCENIC VIEWING AREA	9,168	-	9,168	62,672	-	365	10	365	3,650	N/A	Mediu m	21	Below
GRAY PINE FLAT	25.38	No Data	0.40	0.28	0.11	LAND ACCESS POINT	5,347	-	5,347	38,071	-	365	37	365	13,505	N/A	Low	19	Below
LIBERTY GLEN	22.27	7%	0.99	0.41	0.40	CAMPGROUND	13,645	99	51,469	496,161	96	277	70	365	52,142	В	Mediu m	31	At
LITTLE FLAT	100.53	No Data	0.81	0.07	0.05	LAND ACCESS POINT	7,353	-	7,353	50,265	-	365	25	365	9,125	N/A	High	16	Below
LONE ROCK FRAILHEAD	63.90	No Data	0.35	0.07	0.02	LAND ACCESS POINT	9,665	-	9,665	95,007	_	365	75	365	27,375	N/A	Mediu m	19	Below
MILT BRANDT /ISITOR CENTER	48.14	No Data	3.10	0.04	0.13	VISITOR CENTER	60,492	-	60,492	606,130	-	-	75	260	19,500	В	High	35	Below
NO NAME FLAT	121.28	No Data	2.84	0.07	0.20	LAND ACCESS POINT	8,540	25	14,518	121,283	2	365	12	365	5,110	N/A	Mediu m	17	Below
OLD SKAGGS SPRINGS ROAD	23.28	No Data	0.45	0.38	0.17	LAND ACCESS POINT	780	25	1,326	11,642	-	365	8	365	2,920	N/A	Low	9	Below
PUBLIC BOAT RAMP	308.79	No Data	2.27	(0.10)	(0.22)	WATER ACCESS POINT	112,537	50	270,089	2,795,959	_	365	326	365	118,990	N/A	High	26	Below
ROCKPILE RECREATION AREA	No OM Cost		No Visit or RUDA	No OM		MULTIPURPOSE	1	10	1	12	-	365	-	365		N/A	Mediu m	17	N/A
SOUTHLAKE FRAILHEAD	147.07	No Data	0.64	0.06	0.04	LAND ACCESS POINT	15,023	25	25,539	220,607	_	365	110	365	40,150	N/A	Mediu m	17	Below

• Simple QA report can ID many problems before you leave the office

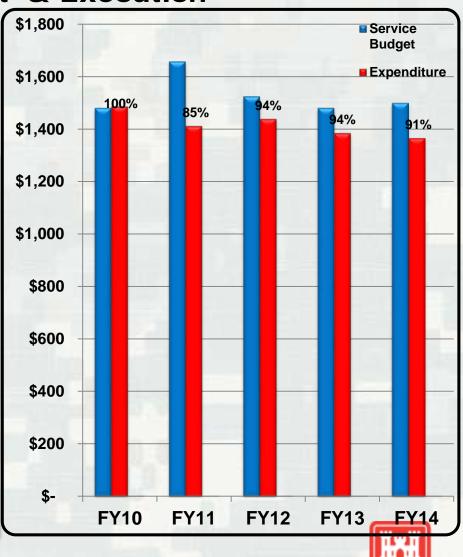
• SOURCE: RecSTATUS



Off Site Data Review:

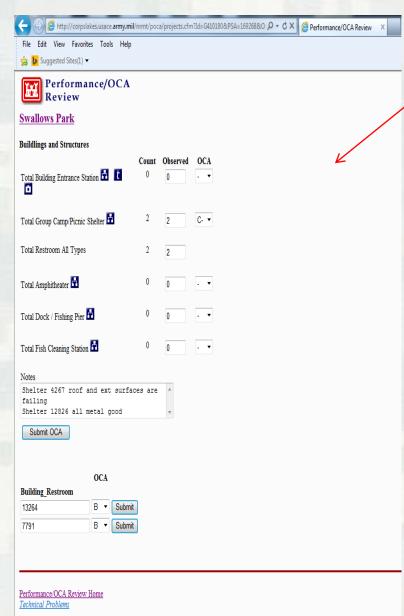
Service Budget & Execution

			5 Yr Avg	s	<u> </u>
	Service Budget Request (incr 1-4)	PresBudget (\$): Rec	Exp (\$): Recreation - Total	DELTA	
Lake of the Erhke	\$1,694,000	\$1,501,000	\$1,418,000	\$110,000	93%
\$1,650	\$1,6	657		→ Sei	
\$1,600		$\overline{}$		Bud	dget
\$1,550		\$1,524		9	527,527
\$1,500	\$1,480		\$1,480 \$1,480	\	
\$1,450	VI,100		ψ1, 40 0	\$1,476	
\$1,400					
\$1,350	FY10 FY	11 FY12	FY13 FY14	FY15 F	FY16



SOURCE: EDW Reports

Conduct On-site Review



- In brief Project mgmt on procedure
- Assess REC features using online tool; identify outliers or problem data
- Look at every Corps operated park on the project
- Confirm all reported performance data with team observations:
 - FCI/OCA Observed Condition
 - Visitation Meters & BMPs
 - Expenditures vs Allocation
 - •RUDA Count capacity
 - UDV Reported vs observed
- Outbrief project mgmt on findings
- Data uploaded to budget systems



Operational Condition Assessment



- Focus on REC 5 main asset groups
 - 1. Roads & Parking
 - (Paved & Unpaved)
 - 2. Buildings & Structures
 - Restrooms, gatehouses, shelters, fishing pier, etc
 - 3. Boat Ramps
 - Including courtesy docks
 - 4. Sites
 - Picnic sites, campsites, beaches, play areas
 - 5. <u>Utilities</u>
 - Sewer, water, electric, etc



Structures





•RecBEST Score: 5 (B)

- •In this park there were 4 buildings
 - 3 rated 'B'
 - 1 rated 'C-'
- Overall Score for bldgs in this park = B

•OCA Peer Score: C- (3)

•Old process has no visibility into the eaches



Boat Ramps



- RecBEST Score: 1 (F)
- •This ramp was rated failed because at a certain lake level it becomes unusable (due to condition @ that elevation)
- •OCA Peer Score: C (4)
- •Peer team rated a C (fair) because it was usable at most levels





•RecBEST Score: 3 (C)

•OCA Peer Score: B (5)

•?? Not sure where we went wrong here??





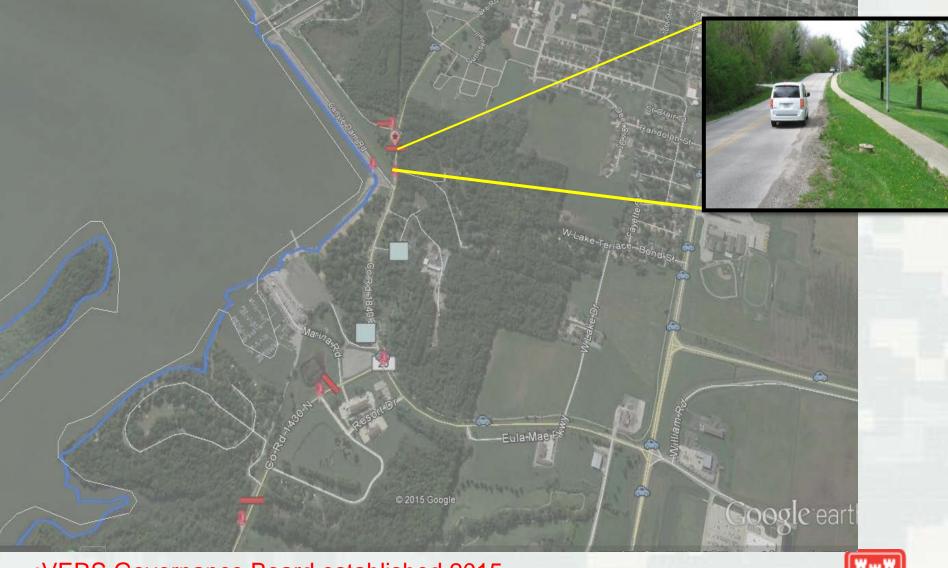
•RecBEST Score: 2 (D)

•OCA Peer Score: D (2)

•!! Winner, winner, chicken dinner!!

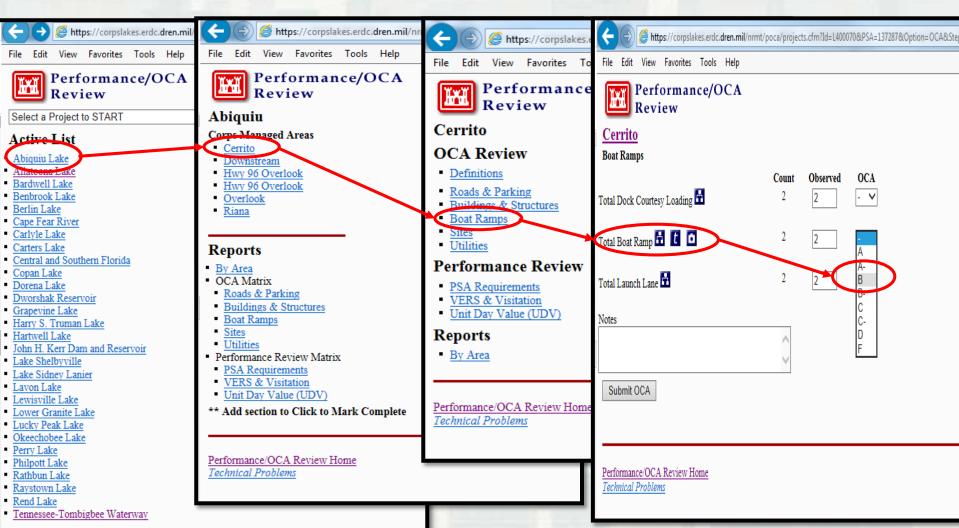


VERS Best Practices:



- •VERS Governance Board established 2015
- Mediate tough fixes and recommend engineered solutions

2. OCA tool development

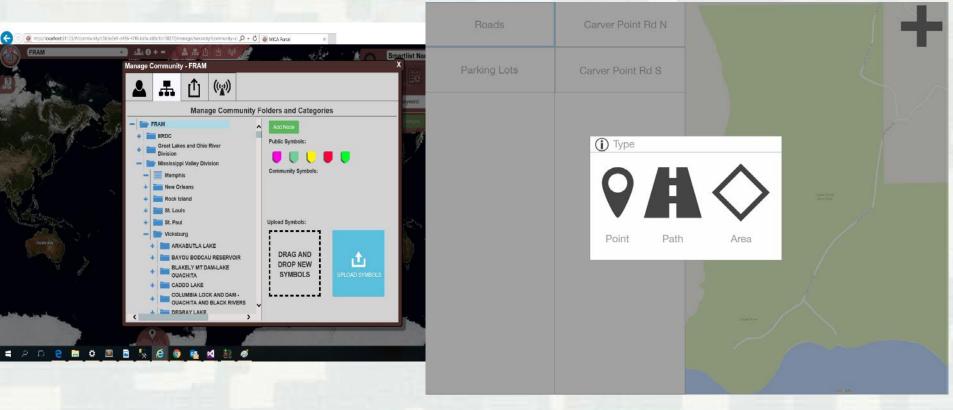


Performance/OCA Review Home Technical Problems

Current REC OCA tool



Under Development



- Mobile application smartphone, tables, 2-in-1
- GPS enabled, collecting polygon or point data
- Photos for each asset stored with data
- Data loaded directly to server.
 - If 3G or internet not available stored locally on phone to upload later

OCA Roll Up Reports

Divisi on	Distri ct	project	AreaName	Area Subtype	Area OM Cost (Contract, Gate Attendant , & Utility)	Total Recreat ion	Area Conditi on Categor y	Efficienc	X-AXIS Efficien	Y-Axis FCI Excl Signs	L . —	on_Ra			Conditi on_Utili ty
0.15		OKATIBBEE		DAY USE	00.407	400.070		High							
SAD	SAM	LAKE	EAST BANK	AREA	20,137	132,273	Fair	Efficiency	88.90	3.75	B-	-	≯ D	B-	B-
		OKATIBBEE		DAY USE			Poor to	High				/			
SAD	SAM	LAKE	WEST BANK	AREA	32,205	124,667	Fair	Efficiency	78.40	2.80	C-	G/	B-	C-	С
SAD		OKATIBBEE LAKE	GIN CREEK	MULTIPURPO SE AREA	21,632	39,186	Fair	Mid Efficiency	66.00	3.80	В-/	B-	B-	C-	B-
SAD	1	OKATIBBEE LAKE	PINE SPRINGS	DAY USE AREA	18,951	25,019	Good	Mid Efficiency	37.00	4.60	B-	B-	В	B-	B-
SAD	1	OKATIBBEE LAKE	COLLINSVILLE	DAY USE AREA	43,291	57,351	Fair	Mid Efficiency	33.90	3.60	B-	B-	B-	C-	С
SAD			TWILTLEY BRANCH	CAMPGROUN D	109,512	24,253	Poor to Fair	Low Efficiency	24.40	3.40	C-	С	B-	B-	B-

Park Name	Performance Score	Building Number	Building Description	OCA
East Bank	88.9	RH0310 /	Restroom	D
East Bank	88.9	RH7894	Restroom	D
East Bank	88.9	RH0542	Gatehouse	C-
West Bank	78.4	RH3456	Restroom	A-
West Bank	78.4	RH0987	Restroom	В
Gin Creek	66.2	RH7654	Restroom	B-
Gin Creek	66.2	RH8976	Gatehouse	C-
Pine Springs	37	RH5746	Restroom	В
Pine Springs	37	RH8760	Restroom	В



Performance & OCA Schedule: Example

Fiscal Year	District	Project	Date	Condensed	Comprehensive
2015	SAM	Tenn-Tom Water Way	26-30 Apr		X
2015	SAM	Lake Sidney Lanier	28-30 July		X
2016	SAM	Carters Lake			X
2016	SAM	Allatoona Lake			X
2016	SAS	Hartwell Lake			X
2017	SAM	Walter F. George			X
2017	SAM	George W. Andrews		Χ	
2017	SAW	Cape Fear Lock & Dam		Χ	
2017	SAJ	Lake Okeechobee WW			X
2017	SAJ	Central & South Florida		X	
2018	SAM	Seminole			X
2018	SAW	W. Kerr Scott			X
2018	SAW	Philpott Lake			X
2018	SAM	West Point			X

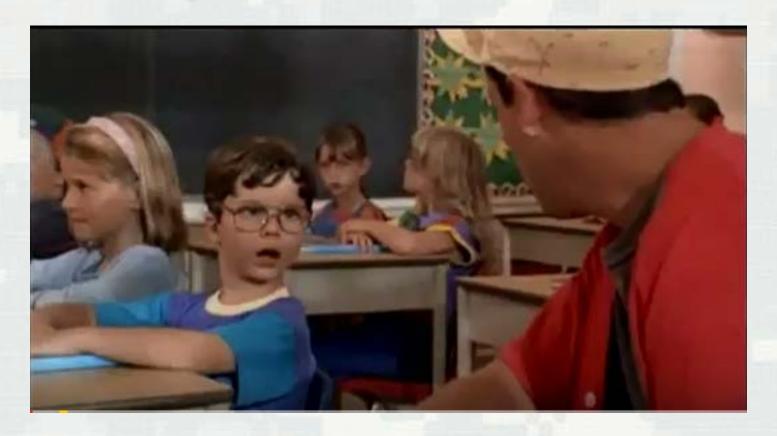


National REC Performance/OCA Next Steps

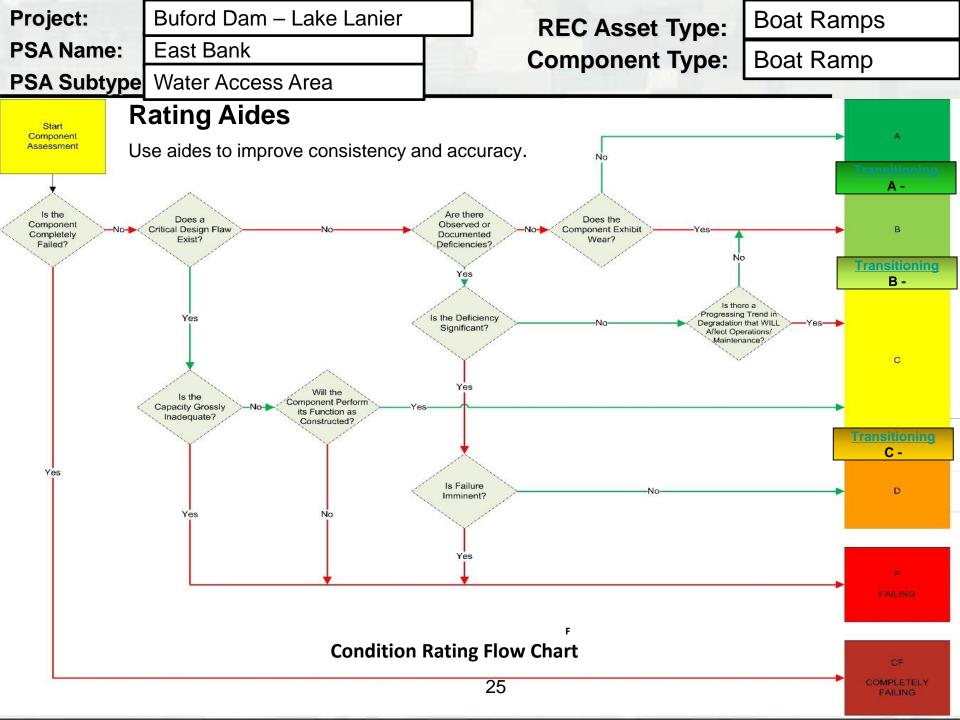
- 1. OCA tool development (ERDC-ITL team)
 - Tie data systems together
- 2. Identify Consequence & Risk
 - Include priority facility maintenance plan
- 3. More pilots
 - MVR Saylorville June 2017
 - SAM Walter F George Sept 2017
 - Your Project Here.....
- 4. Get Policy Signed
- 5. Implement!
 - Scheduled & Budgeted
 - Build rating/training aides & field manual
 - Train trainers
 - Build regional teams



??QUESTIONS??







The OUTPUT

Lower Granite Lake

Recreation Performance Review & Operational Condition Assessment 16-18 June 2015





- Report for local management/district
 Ops Chfs (optional?)
- Rollup report of performance and OCA data for RecBEST
- Photo library of all assets
- Recommendations on efficiency improvements
- ID improvement pkgs (either RIIS or Incr 5 pkgs)
- CONSISTENT DATA!



Operational Condition Assessment (OCA) – Sites: Picnic Sites

- 1. Impact areas
- 2. Tables
- 3. Canopies
- 4. Cookers, fire rings, grills





Picnic Sites: Example #1





Component Category:

Impact Area

impact Area		
No damage or deterioration	Α	
Transitioning	A-	
GOOD: surfaces have some small cracks, spalls, bumps or depressions; minor deterioration of containment barriers; surfacing material adequate; some vegetation and debris has encroached into impact zones < 20% of Surface impacted	В	X
Transitioning	B-	
FAIR: surfaces have significant cracking and/or holes, not uniformly smooth, rutted or some holes; containment barriers are loose, chipped or warped; surfacing material inadequate and eroded in places; significant vegetative encroachment and debris deposits 20-50% of Surface	С	
Transitioning	C-	
POOR: surfaces have major irregularities; containment barriers are severely deteriorated, damaged or missing; surfacing material is very thin; defined impact zone is highly obscured 50-80% of Surface	D	
FAILING/FAILED : Severe deterioration of all components, should be closed or replaced > 80% of Surfaces	F	





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Component Category:Tables

<u>100100</u>		
No damage or deterioration	Α	
Transitioning	A-	
GOOD : table units intact, slight chipping or cracking, small dents; surfaces are slightly marred; supports are solid <20% of Surface	В	X
Transitioning	B-	
FAIR : tables have significant cracks, chips; surfaces are slightly warped, gouged, splintered and/or pitted; paint is starting to chip and peel; tables wobble slightly 20-50% of Surface	С	
Transitioning	C-	
POOR: tables are severely cracked and/or chipped, warped, bent, broken or have parts missing; surfaces are uneven and rough; significant loss of paint; tables are loose and rickety 50-80% of Surface	D	
FAILING/FAILED : Severe deterioration of all components, should be closed or replaced > 80% of Surfaces	F	

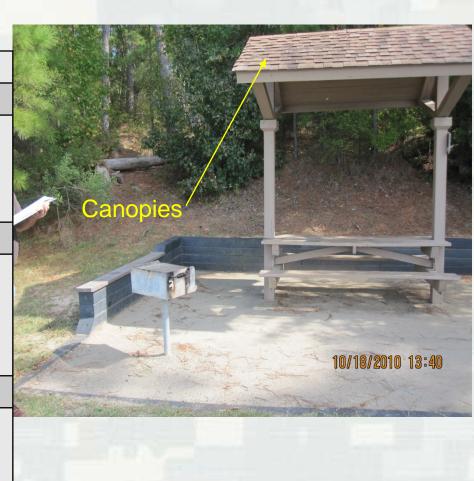




Component Category:

Canopies

No damage or deterioration	Α	
Transitioning	A-	
GOOD : Solid and firm; slight damage resulting from normal wear and tear; very light rust or rot <20% of Surface Distress	В	X
Transitioning	B-	
FAIR: Very little wobble; some damage such as dents, holes or splinters; paint flaking and beginning to peel; some rust or rot 20-50% of Surface	С	
Transitioning	C-	
POOR: Loose and wobbly, parts missing, canopy top sagging; significant damage or deterioration; peeling and missing paint 50-80% of Surface	D	
FAILING/FAILED : Severe deterioration of all components, should be closed or replaced > 80% of Surfaces	F	





Component Category:Cookers, Fire Rings, Grills

Cookers, Fire Kings, Ghils		
No damage or deterioration	Α	
Transitioning	A-	
GOOD : plumb and functional as designed; solid; some rust; minor dents and scrapes; slightly weathered, overall good paint coverage. < 20% of Surface	В	
Transitioning	B-	Х
FAIR : slightly off plumb or unlevel; still mostly functional as designed; some wobble; slightly bent; dents, scrapes or gouges; warped or bowed wood; significant rust; paint missing or peeling 20-50% of Surface	С	
Transitioning	C-	
POOR : not plumb, leaning or very unlevel; very marginally functional; significantly dented or bent; wobbly; holes in sides or bottom; rusted through rungs or grills; broken or missing wood. 50-80% of Surface	D	
FAILING/FAILED : Severe deterioration of all components, should be closed or replaced > 80% of Surfaces	F	





Example: 1

Impact Area	5	
Tables	5	
Canopies	5	
Cookers, Fire Rings, Grills	4	
Mean Score	4.75	В

FCI	(RecBEST)	0	CA (Asset Mgmt)
7	Excellent	A	Excellent
6	Excellent - Good	A-	Very Good (Transitioning)
5	Good	В	Good
4	Good – Fair	B-	Good – Fair (Transitioning)
3	<mark>Fair</mark>	С	Fair Fair
2	Fair – Poor	C-	Fair – Poor (Transitioning)
1	Very Poor/ Failing	D	Very Poor
0	Failing/ Failed	F	Failing - Failed

Picnic Sites: Example #2



Component Category: • Impact Area

Impact Area		
No damage or deterioration	Α	
Transitioning	A-	
GOOD: surfaces have some small cracks, spalls, bumps or depressions; minor deterioration of containment barriers; surfacing material adequate; some vegetation and debris has encroached into impact zones < 20% of Surface impacted	В	
Transitioning	B-	
FAIR: surfaces have significant cracking and/or holes, not uniformly smooth, rutted or some holes; containment barriers are loose, chipped or warped; surfacing material inadequate and eroded in places; significant vegetative encroachment and debris deposits 20-50% of Surface	С	X
Transitioning	C-	
POOR: surfaces have major irregularities; containment barriers are severely deteriorated, damaged or missing; surfacing material is very thin; defined impact zone is highly obscured 50-80% of Surface	D	
FAILING/FAILED : Severe deterioration of all components, should be closed or replaced > 80% of Surfaces	F	





BUILDING STRONG®

Component Category:Tables

• <u>Tables</u>		
No damage or deterioration	Α	
Transitioning	A-	
GOOD: table units intact, slight chipping or cracking, small dents; surfaces are slightly marred; supports are solid <20% of Surface	В	
Transitioning	B-	
FAIR : tables have significant cracks, chips; surfaces are slightly warped, gouged, splintered and/or pitted; paint is starting to chip and peel; tables wobble slightly 20-50% of Surface	С	X
Transitioning	C-	
POOR: tables are severely cracked and/or chipped, warped, bent, broken or have parts missing; surfaces are uneven and rough; significant loss of paint; tables are loose and rickety 50-80% of Surface	D	
FAILING/FAILED : Severe deterioration of all components, should be closed or replaced > 80% of Surfaces	F	





Component Category:Canopies

No damage or deterioration	Α	
Transitioning	A-	
GOOD : Solid and firm; slight damage resulting from normal wear and tear; very light rust or rot <20% of Surface Distress	В	
Transitioning	B-	
FAIR: Very little wobble; some damage such as dents, holes or splinters; paint flaking and beginning to peel; some rust or rot 20-50% of Surface	С	
Transitioning	C-	
POOR: Loose and wobbly, parts missing, canopy top sagging; significant damage or deterioration; peeling and missing paint 50-80% of Surface	D	
FAILING/FAILED : Severe deterioration of all components, should be closed or replaced > 80% of Surfaces	F	
Not Applicable	NA	Х





Component Category:Cookers, Fire Rings, Grills

• Cookers, Fire Rings, Grills		
No damage or deterioration	Α	
Transitioning	A-	
GOOD : plumb and functional as designed; solid; some rust; minor dents and scrapes; slightly weathered, overall good paint coverage. < 20% of Surface	В	X
Transitioning	B-	
FAIR: slightly off plumb or unlevel; still mostly functional as designed; some wobble; slightly bent; dents, scrapes or gouges; warped or bowed wood; significant rust; paint missing or peeling 20-50% of Surface	С	
Transitioning	C-	
POOR : not plumb, leaning or very unlevel; very marginally functional; significantly dented or bent; wobbly; holes in sides or bottom; rusted through rungs or grills; broken or missing wood. 50-80% of Surface	D	
FAILING/FAILED : Severe deterioration of all components, should be closed or replaced > 80% of Surfaces	F	





Example: 2

Impact Area	4	
Tables	4	
Canopies	NA	
Cookers, Fire Rings, Grills	5	
Mean Score	4.3	B-

FCI	(RecBEST)	0	CA (Asset Mgmt)
7	Excellent	A	Excellent
6	Excellent - Good	Α-	Very Good (Transitioning)
5	Good	В	Good
4	Good – Fair	B-	Good – Fair (Transitioning)
3	<mark>Fair</mark>	С	<mark>Fair</mark>
2	Fair – Poor	C-	Fair – Poor (Transitioning)
1	Very Poor/ Failing	D	Very Poor
0	Failing/ Failed	F	Failing - Failed