2013 INVENTORY, APPRAISAL & INSPECTION SNAPSHOT

FULTON COUNTY ENGINEER

Inventory Data - BR 87 NBIS Bridges Only

	NBIS COUNT
NBIS Bridges > 20'	120
Bridges 10'-20'	140
	260

	Possible NBIS length errors	<mark>5</mark> total	see list	
		CODE	COUNT	<u>%</u>
ltem 95	Inspection Responsibility			
	County	3	120	100.0%
ltem 97	Maintenance responsibility			
	County	3	120	100.0%
	City or other local	4	0	0.0%
	Railroad	6	0	0.0%
	Private	7	0	0.0%
	Combination	8	0	0.0%
	ODNR	А	0	0.0%
	Park District	С	0	0.0%
	Township	F	0	0.0%
			120	100.0%
ltem 100	Type service on bridge			
	Other	0	0	0.0%
	Highway	1	120	100.0%
	Railroad	2	0	0.0%
	Ped/Bikeway	3	0	0.0%
	Hwy/RR	4	0	0.0%
	Hwy/Ped	5	0	0.0%
	RR Abnd. rails rem'vd	А	0	0.0%
			120	100.0%

Item 100 Type service under bridge

	Hwy w/ or w/o Ped	1	0	0.0%
	Railroad	2	0	0.0%
	Ped/Bkwy	3	0	0.0%
	Hwy w/ RR	4	0	0.0%
	Waterway	5	120	100.0%
	Hwy/Waterway	6	0	0.0%
	RR/Waterway	7	0	0.0%
	Hwy/Wtrway/RR	8	0	0.0%
	Relief (RR w/o tracks)	9	0	0.0%
	Other	0	0	0.0%
			120	100.0%
Item 63	Structure Type			
	concrete slab simple	111	7	5.8%
	concrete slab continuous	112	12	10.0%
	concrete beam simple	121	8	6.7%
	concrete frame simple	171	1	0.8%
	concrete culvert filled	195	3	2.5%
	prestressed conc. box beam simple	231	39	32.5%
	prestressed conc. box beam continuous	232	6	5.0%
	steel beam simple	321	31	25.8%
	steel beam continuous	322	6	5.0%
	steel culvert filled	395	5	4.2%
	Steel Truss (pony)	34A	2	1.7%
			120	100.0%
Item 188	Fracture Critical		COUNT	<u>%</u>
	fracture critical member	Y	2	1.7%
	fracture critical member	N	118	98.3%
		_	120	100.0%
	No. of steel trusses and girders	34_, 36_ Struct. Type	2	
	Fracture Critical File to be completed by A		<u>COUNT</u>	
	Required Fracture Critical Files	2 truss/girde	2	
	(including written Procedure and FPD)			

Item 189	Underwater

Gusset Pl. Analysis

Required Gusset Plate Analysis

to be completed by December 31, 2011

COUNT

1

2 trusses

		requires dive inspection	Ν	120	100.0%
		requires dive inspection	Y	0	0.0%
		dive inspection dates		0	0.0%
Item 74	Scour				
		Bridge not over waterway	Ν	0	0.0%
		unknown foundation	U	0	0.0%
		over tidal waters	Т	0	0.0%
		foundations on dry land	9	0	0.0%
		stable above footing	8	118	98.3%
		countermeasures installed	7	0	0.0%
		no scour evaluation made	6	0	0.0%
		stable within footer limits	5	2	1.7%
		stable action needed	4	0	0.0%
		scour critical - unstable	3	0	0.0%
		scour critical - scour present	2	0	0.0%
		scour critical - failure imminent	1	0	0.0%
		scour critical - bridge failed	0	0	0.0%
				120	100.0%

	Load Rating	CODE	<u>COUNT</u>	<u>%</u>
ltem 87	Plan Information			
	no plans	0	0	0.0%
	plans available	1	119	99.2%
	field information	2	1	0.8%
	not applicable	Ν	0	0.0%
			120	100.0%

	Load Rating		CODE		<u>COUNT</u>	<u>%</u>
ltem 84	Method of Analysis					
	WS or AS		1		27	22.5%
	Load Fac	tor (LF)	2		75	62.5%
	Load & R	esistance Factor	3		2	1.7%
	Combina	tion of methods	4		1	0.8%
	Engineer	ing Judgment Superstr	5		15	12.5%
	Load test	ting	6		0	0.0%
	Engineer	ing Judgment Substr	7		0	0.0%
	Not appli	icable (Ped or RR bridges)	Х		0	0.0%
					120	100.0%
REMINDE	R:					
	•	d for bridges built after 19 idges built after 2010	93 (wi	th certa	in exceptions)	
	LOAD RATING	Goal	I	DATE	COUNT	<u>%</u>

Total NBIS bridges to loa	d rate			
120	80%	County 3/26/2013	105	87.5%
120	80%	ODOT 3/27/2013	105	87.5%
ODOT		COUNTY		
total	120	tota	120	
already rated	105	closed	0	
Left to load rate	15	sub eng. Judg	0	
		Good 5'S	0	
		Br no veh traffic	. 0	
		already rated	105	
		Left to load rate	15	

Inspection Condition Data - BR 86 NBIS Bridges Only

General Appraisal		CODE	<u>COUNT</u>	<u>%</u>
	9 Excellent	9	3	2.5%
	8 Very good	8	8	6.7%
	7 Good	7	41	34.2%
	6 Satisfactory	6	50	41.7%
	5 Fair	5	9	7.5%
	4 Poor	4	9	7.5%
	3 Serious	3	0	0.0%
	2 Critical	2	0	0.0%
	1 Imminent Failure	1	0	0.0%
	0 Closed	0	0	0.0%
			120	100.0%

Rating Consistency	COUNT	<u>%</u>
GA <> Summary Items	2	1.7%
1-4 codes <> Summary	14	0.7%

INSPECTION FREQUENCY		COUNT	
Number inspections per day	Avg.	8.9	
	High	13	
Recommended Max. 10 per day	# days over 10	5	45.5%
Maximum 50 reviews per day			

Operating Status	CODE	<u>COUNT %</u>

Open, No restriction	А	115	95.8%
Open, posting recommended	В	0	0.0%
Open, Half width construction	С	0	0.0%
Open because of temporary fix	D	0	0.0%
Open using temporary structure	E	0	0.0%
New struture not yet open	G	0	0.0%
closed for load capacity reason	К	0	0.0%
Posted for load capacity	Р	5	4.2%
Posted for other than load	R	0	0.0%
Closed for other than load	Х	0	0.0%
		120	100.0%

Good 5's	from culverts	
	Culvert fill>6.5'	1 possible

Goo	d 5's	from plans		
				0 possible

195 Culvert vs 171 Frame	# that do NOT meet the	e 2' Rule
	0	0.0%

Item 41	AGE of BRIDGES	YEAR COUNT	
		-1900 2	1.7%
		1901-1910 0	0.0%
		1911-1920 3	2.5%
		1921-1930 5	4.2%
		1931-1940 9	7.5%
		1941-1950 3	2.5%
		1951-1960 17	14.2%
		1961-1970 19	15.8%
		1971-1980 27	22.5%
		1981-1990 15	12.5%
		1991-2000 12	10.0%
		2001-2010 6	5.0%
		2011-2020 2	1.7%
		120	100.0%

Compliance Codes for the following Metrics:

(C)	Compliant
(SC)	Substantially Compliant
(CC)	Conditionally Compliant (Adhering to approved pan of corrective action)
(NC)	Not Compliant

METRIC 6 Insp. Frequency Routine

Bridge Inspections Ov	rerdue	<u>ACTU</u>	AL COUNT	<u>% COMPLIANT</u>	COMPLIANCE
NBIS -	24 months		0	100.0%	(C)
ORC -	18 months		0	100.0%	(C)

METRIC 8 - Insp. Frequency Underwater

Dive Inspections Overdue	ACTUAL	COUNT	<u>% COMPLIANT</u>	<u>COMPLIA</u>	NCE
60 months		0	N/A	(C))

METRIC 10 - Insp. Frequency FC Member

FC Inspections Overdue	ACTUAL COUNT	<u>% COMPLIANT</u>	COMPLIANCE
24 months	0	100.0%	(C)

METRIC 13 - Load Rating

	Need for	# Not	% of NBIS	PCA in effect
Type of Metric check	<u>compliance</u>	Rated	Rated	COMPLIANCE
Deck, Super, Sub, Culvert Summary <=4	100%	0	100.0%	(C)
Operating Status = D or E	100%	0	100.0%	(C)
FC=Y	100%	0	100.0%	(C)
Operating Status = P or R	100%	0	100.0%	(C)
Bridges with no restrictions	95%	15	87.5%	(CC)

METRIC 14 - Post or Restrict

		<u>%</u>	
		COMPLIA	
Bridge posting/closing Follow-through	<u>COUNT</u>	<u>NT</u>	COMPLIANCE
Bridges below 10% legal but not closed	0	100.0%	(C)
Operating Rating Factor = 0 but not closed	0	100.0%	(C)
Bridges below 100% legal but not posted	0	100.0%	(C)
Bridges to be posted but aren't (GA code B)	0	100.0%	(C)

METRIC 22 - Inventory (partial review)

Structure Length	ACTUAL COUNT	COMPLIANCE
Number of bridges >10% length difference	0	d <mark>epends on sample size</mark>
LAT/LONG		
missing coordinates	1	depends on sample size

PRELIMINARY FHWA 23 Metric Matrix

23 metrics used by FHWA to measure NBIS compliance

Compliance Codes for the following Metrics:

- (C) Compliant
- (SC) Substantially Compliant
- (CC) Conditionally Compliant (Adhering to approved PCA)
- (NC) Not Compliant

Metric	Description	(C)	(SC)	(CC)	(NC)
1	State Bridge Inspection Organization				
2	Program Manager Qualification				
3	Team Leader Qualification				
4	Load Rating Engineer Qualification				
5	UW Bridge Inspection Diver Qualification				
6	Routine Inspection Frequency - Low Risk				
7	Routine Inspection Frequency - High Risk				
8	UW Inspection Frequency - Low Risk				
9	UW Inspection Frequency - High Risk				
10	FC Inspection Frequency				
11	Frequency Criteria				
12	Inspection Quality 100%				
13	Load Rating				
14	Posted or Restricted Bridges				
15	Bridge Files				
16	FC Bridges				
17	UW inspection procedures				
18	Scour Critical Bridges				
19	Complex Bridges				
20	QC/QA				
21	Critical Findings				
22	Inventory 94%				
23	Updating of Data				

** based on results of Field Review

<u>Metric</u>	Action Needed	
13	Complete and submit load ratings by Oct 1, 2013	
22	check inventory and make corrections in upcoming year	



