

MEIGS County 2020 INVENTORY, APPRAISAL & INSPECTION SNAPSHOT

2/9/2021

Inventory Data - NBIS Bridges Only

	<u>NBIS COUNT</u>
NBIS Bridges > 20'	144
Bridges 10'-20'	<u>166</u>
	310

Item 221	Inspection Responsibility	<u>CODE</u>	<u># NBIS</u>	<u># ALL</u>
Data Tab Col BV,BW	County	2	144	310
Item 21	Maintenance responsibility	<u>CODE</u>	<u># NBIS</u>	<u># ALL</u>
Data Tab	County	2	142	308
Col D	City or other local	4	0	0
	Railroad	27	2	2
	Private (tohter than RR)	26	0	0
	State Park	11	0	0
	Local Park	23	0	0
	Township	3	0	0
			<u>144</u>	<u>310</u>
Item 42A	Type service on bridge	<u>CODE</u>	<u># NBIS</u>	<u># ALL</u>
Data Tab	Other	0	0	0
Col Q	Highway	1	142	308
	Railroad	2	2	2
	Ped/Bikeway	3	0	0
	Hwy/RR	4	0	0
	Hwy/Ped	5	0	0
			<u>144</u>	<u>310</u>
Item 42B	Type service under bridge	<u>CODE</u>	<u># NBIS</u>	<u># ALL</u>
Data Tab	Other	0	0	0
Col R	Hwy w/ or w/o Ped	1	2	2
	Railroad	2	0	0
	Ped/Bkwy	3	0	0
	Hwy w/ RR	4	0	0
	Waterway	5	142	308
	Hwy/Waterway	6	0	0
	RR/Waterway	7	0	0
	Hwy/Waterway/RR	8	0	0
	Relief (for waterways)	9	0	0
			<u>144</u>	<u>310</u>

ITEMS 43A,B,C Structure Type	Data (Col M,N,O)	<u>CODE</u>	<u># NBIS</u>	<u># ALL</u>
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Concrete Slab	101	27	134
Concrete Frame	107	5	26
Concrete Deck Arch	111	1	1
Concrete Culvert (incl frame culverts)	119	0	4
Concrete Continuous Slab	201	4	4
Steel Beam or Girder	302	68	100
Steel Girder w/ Floor System	303	1	1
Steel Thru Truss (inlcudes Pony)	310	9	9
Steel Culvert (incl frame culverts)	319	0	1
Steel Continuous Beam or Girder	402	1	1
Prestr. Conc. Cont. Box Beam/Girder Multiple	505	28	28
Aluminum or Iron Culvert (incl frame culverts)	919	0	1
		<hr/>	
		144	310

Item 92A Fracture Critical		CODE	# NBIS	# ALL
Data Tab	Requires FC Inspection	Y	10	n/a
Col U,V,Y	Requires FC Inspection	N	132	n/a
			<hr/>	
			142	n/a
		FC Switch Y/N is Blank	2	n/a

Item 113 Scour			# NBIS	# ALL
Data Tab	Bridge not over waterway	N	2	2
Col AA	unknown foundation	U	0	0
	over tidal waters	T	0	0
	foundations on dry land	9	3	3
	stable above footing	8	52	105
	countermeasures installed	7	2	5
	no scour evaluation made	6	0	0
	stable within footer limits	5	76	172
	stable action needed	4	9	23
	scour critical - unstable	3	0	0
	scour critical - scour present	2	0	0
	scour critical - failure imminent	1	0	0
	scour critical - bridge failed	0	0	0
			<hr/>	
			144	310

Item 63	Documented Engineering Judgment	# NBIS	# ALL
	Field Eval & Doc EJ	30	n/a

BR_100 for these bridges?

Item 92B	Underwater	CODE	# NBIS	# ALL
Data Tab	requires dive inspection	N	142	n/a
Col W,X,Z	requires dive inspection	Y	0	n/a
			142	

Item 709	Plan Information	CODE	# NBIS	# ALL
Data Tab	plans not avail	0	29	145
Col. AW	plan avail	1	49	77
	field measured	2	64	85
	Field Testing	3	0	0
	not applicable	N	2	2
			144	309

Item 63	Method of Analysis	CODE	# NBIS	# ALL
Data Tab	Field Eval & Doc. Eng Judgment	0	30	148
Col. AV	Load testing	4	0	0
	No Rating done	5	2	0
	Load Factor (LF)	6	72	0
	WS or AS	7	26	0
	Load & Resistance Factor	8	14	2
	Assigned Rating (LFR) HS20	D	0	88
	Assigned Rating (LRFR) HL93	F	0	50
	Not applicable (Ped, RR, Bldg)	X	0	22
			144	310

REMINDER:

Load Factor required for bridges built after 1993

(exceptions: timber, etc.)

LRFR required for bridges built after 2010

Inspection Condition Data - NBIS Bridges Only

Item 41	Operating Status	<u>CODE</u>	<u># NBIS</u>	<u># ALL</u>
Data Tab	Open, No restriction	A	90	241
Col AM	Open, posting recommended	B	0	0
	Open, Half width constr.	C	0	0
	Open because of temp. fix	D	0	0
	Open using temp. structure	E	0	0
	New struture not yet open	G	0	0
	closed for load cap. reason	K	0	0
	Posted for load capacity	P	54	69
	Posted for other than load	R	0	0
	Closed for other than load	X	0	0
			144	310

Load Rating Data

<u>Load Rating Tab</u>		<u># OF ERRORS</u>
Col. AN	Op RF greater than Inv RF?	0
Col. AO	Posting and % Legal OK?	0
Col. AP	"0" used instead of blank	0
Col. AT	% legal <> lowest RF	0
Col.A V	Item 70 correct?	0
Col. AW	Method of Rating Alike?	0
Col. AX	Op & Inv RF in Tons as req'd?	0
Col. AY	Item 575 correct?	0
Col. AZ	Depth of fill completed?	0

KEY METRICS

(C) Compliant	(CC) Conditionally Compliant
(SC) Substantially Compliant	(NC) Non- Compliant
	(NC) (SC) If corrected within 6/12 months Refresher=6 mo, Comprehensive=12 mo

METRIC 2 - Program Manager Qualification (from files examination)

From Files review	Missing	#sampled	% PASS	COMPLIANCE
PE /Experience	0	1	100.0%	(C)
Comprehensive	0	1	100.0%	(C)
Refresher	0	1	100.0%	(C)

METRIC 3 - Team Leader Qualification (from files examination)

From Files review	Missing	#sampled	% PASS	COMPLIANCE
Degree /Experience	0	2	100.0%	(C)
Comprehensive	0	2	100.0%	(C)
Refresher	0	2	100.0%	(C)

METRIC 6 Insp. Frequency Routine

Bridge Inspections Overdue	# OVERDUE	% PASS	COMPLIANCE
Data Tab NBIS - 24 months	0	100.0%	(C)
Col. AB ORC - Calendar Year	0	100.0%	(C)
BIM - 18 months	0	100.0%	(C)

METRIC 8 - Insp. Frequency Underwater

Dive Inspections Overdue	# OVERDUE	# UW	% PASS	COMPLIANCE
Data Tab Col. Z 60 months	0	0	100.0%	(C)

METRIC 10 - Insp. Frequency FC Member

FC Inspections Overdue	# OVERDUE	# FC	% PASS	COMPLIANCE
Data Tab Col. Y 24 months	2	10	98.6%	(SC)

METRIC 12 - Routine Inspection

Field Ratings	# > +/-1	# Ratings	% PASS	COMPLIANCE
field ratings	0	24	100.0%	(C)
Comments	Missing	# < 6	% PASS	
Tab Comments when Rating < 6	0	142	100.0%	(C)
	Error	Total Scour	% PASS	
Comments Rating should be = Scour	0	142	100.0%	within tolerance +/- 1
Tab Noncompliant Scour Rating Err	0	142	100.0%	(C)

METRIC 14 - Posting Load rating data tab

From Files review	# errors	#sampled	% PASS	COMPLIANCE
Op RF < 3 tons but not closed	0	144	100.0%	(C)
Op RF = 0 but not closed	0	144	100.0%	(C)
% Legal < 100 but not posted	0	144	100.0%	(C)
Item 41 = B	0	144	100.0%	(C)

METRIC 16 - Fracture Critical Inspection

From Files review	Missing	# FC	% PASS	COMPLIANCE
Fract Critical Member ID	0	2	100.0%	(C)
Fatigue Prone Detail	0	2	100.0%	(C)
Gusset Plate Calculations	0	2	100.0%	(C)
FC Inspection Procedure	0	2	100.0%	(C)

METRIC 17 - Underwater Inspection

From Files review	Missing	# UW	% PASS	COMPLIANCE
UW Inspection Procedure	0	1	100.0%	(C)
Location of UW elements	0	1	100.0%	(C)
UW frequency identified	0	1	100.0%	(C)

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				
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 **				
23	Updating of Data				

** based on results of Field Review

Metric	Action Needed