

ASHLAND County 2020
INVENTORY, APPRAISAL & INSPECTION SNAPSHOT

Inventory Data - NBIS Bridges Only

	<u>NBIS COUNT</u>
NBIS Bridges > 20'	136
Bridges 10'-20'	86
	222

Item 221	Inspection Responsibility	<u>CODE</u>	<u># NBIS</u>	<u># ALL</u>
Data Tab	Col BV,BW County	2	136	222
Item 21	Maintenance responsibility	<u>CODE</u>	<u># NBIS</u>	<u># ALL</u>
Data Tab	County	2	135	220
Col D	City or other local	4	1	2
	Railroad	27	0	0
	Private (tohter than RR)	26	0	0
	State Park	11	0	0
	Local Park	23	0	0
	Township	3	0	0
			136	222
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	136	222
	Railroad	2	0	0
	Ped/Bikeway	3	0	0
	Hwy/RR	4	0	0
	Hwy/Ped	5	0	0
			136	222
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	0	0
	Railroad	2	0	0
	Ped/Bkwy	3	0	0
	Hwy w/ RR	4	0	0
	Waterway	5	136	222
	Hwy/Waterway	6	0	0
	RR/Waterway	7	0	0
	Hwy/Waterway/RR	8	0	0
	Relief (for waterways)	9	0	0
			136	222

ITEMS 43A,B,C	Structure Type	Data (Col M,N,O)	<u>CODE</u>	<u># NBIS</u>	<u># ALL</u>
	Concrete Slab		101	0	5
	Concrete Frame		107	2	20
	Concrete Culvert (incl frame culverts)		119	1	24
	Concrete Continuous Slab		201	9	9
	Steel Beam or Girder		302	23	31
	Steel Girder w/ Floor System		303	16	19
	Steel Thru Truss (inlcudes Pony)		310	8	8
	Steel Culvert (incl frame culverts)		319	1	23
	Steel Continuous Beam or Girder		402	6	6
	Prestr. Conc. Cont. Box Beam/Girder Multiple		505	69	73
	Prestr. Conc. Cont. Box Beam/Girder Multiple		605	1	1

Timber Culvert (incl frame culverts)	819	0	1
Aluminum or Iron Culvert (incl frame culverts)	919	0	2
		136	222

Item 92A Fracture Critical		CODE	# NBIS	# ALL
Data Tab	Requires FC Inspection	Y	24	n/a
Col U,V,Y	Requires FC Inspection	N	112	n/a
			136	n/a
	FC date blank but FC=Y		0	n/a

Item 113 Scour			# NBIS	# ALL
Data Tab	Bridge not over waterway	N	0	0
Col AA	unknown foundation	U	0	0
	over tidal waters	T	0	0
	foundations on dry land	9	0	0
	stable above footing	8	61	82
	countermeasures installed	7	1	1
	no scour evaluation made	6	0	0
	stable within footer limits	5	74	139
	stable action needed	4	0	0
	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
			136	222

Item 63	Documented Engineering Judgment	# NBIS	# ALL
	Field Eval & Doc EJ	0	n/a

Item 92B	Underwater	CODE	# NBIS	# ALL
Data Tab	requires dive inspection	N	136	n/a
Col W,X,Z	requires dive inspection	Y	0	n/a
			136	
	dive insp date blank but Dive=Y		0	n/a

Item 709	Plan Information	CODE	# NBIS	# ALL
Data Tab	plans not avail	0	1	2
Col. AW	plan avail	1	134	218
	field measured	2	1	2
	Field Testing	3	0	0
	not applicable	N	0	0
			136	222

Item 63	Method of Analysis	CODE	# NBIS	# ALL
Data Tab	Field Eval & Doc. Eng Judgment	0	0	0
Col. AV	Load testing	4	0	0
	No Rating done	5	0	0
	Load Factor (LF)	6	101	0
	WS or AS	7	27	0
	Load & Resistance Factor	8	8	6
	Assigned Rating (LFR) HS20	D	0	126
	Assigned Rating (LRFR) HL93	F	0	80
	Not applicable (Ped, RR, Bldg)	X	0	10
			136	222

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	CODE	# NBIS	# ALL
Data Tab	Open, No restriction	A	128	213
Col AM	Open, posting recommended	B	8	8
	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	0	1
	Posted for other than load	R	0	0
	Closed for other than load	X	0	0
			136	222

Load Rating Data		
Load Rating Tab		# OF ERRORS
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 (Adhering to approved plan of corrective action)
(SC)	Substantially Compliant	(NC)	Not Compliant

METRIC 6 Insp. Frequency Routine

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

METRIC 8 - Insp. Frequency Underwater

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

METRIC 10 - Insp. Frequency FC Member

FC Inspections Overdue			Overdue	Total FC	% PASS	COMPLIANCE
Data Tab	Col. Y	24 months	0	24	100.0%	(C)

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	136	100.0%	(C)
		Error	Total Scour	% PASS	
Comments	Rating should be = Scour	0	136	100.0%	
Tab	# of Compliance Errors	0	136	100.0%	(C)

METRIC 16 - Fracture Critical Inspection

From Files review		Missing	# FC	% PASS	COMPLIANCE
Fract Critical Member ID		0	24	100.0%	(C)
Fatigue Prone Detail		9	24	62.5%	(NC)
Gusset Plate Calculations		0	24	100.0%	(C)
FC Inspection Procedure		9	24	62.5%	(NC)

METRIC 17 - Underwater Inspection

From Files review		Missing	# UW	% PASS	COMPLIANCE
UW Inspection Procedure		0	0	100%	(C)
Location of UW elements		0	0	100%	(C)
UW frequency identified		0	0	100%	(C)

PRELIMINARY FHWA 23 Metric Matrix

23 metrics used by FHWA to measure NBIS compliance

Compliance Codes for the following Metrics:

(C) Compliant (CC) Conditionally Compliant (per approved PCA)
 (SC) Substantially Compliant (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
12	Scour Rating should control Substructure or Culvert
16	Supply FC Insp Procedure and Fatigue Prone Details for each FC bridge