

PERRY County 2021
INVENTORY, APPRAISAL & INSPECTION SNAPSHOT

12/28/2021

Inventory Data - NBIS Bridges Only

				<u>NBIS COUNT</u>		
NBIS Bridges > 20'				119		
Bridges 10'-20'				45		
				164		
Item 22 Inspection Responsibility				CODE	# NBIS	# ALL
Data Tab	Col BV,BW	County		2	119	164
Item 21 Maintenance responsibility				CODE	# NBIS	# ALL
Data Tab	County			2	119	164
Col D	City or other local			4	0	0
	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
					119	164
Item 42 Type service on bridge				CODE	# NBIS	# ALL
Data Tab	Other			0	0	0
Col Q	Highway			1	119	164
	Railroad			2	0	0
	Ped/Bikeway			3	0	0
	Hwy/RR			4	0	0
	Hwy/Ped			5	0	0
					119	164
Item 42 Type service under bridge				CODE	# NBIS	# ALL
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	119	164
	Hwy/waterway			6	0	0
	RR/waterway			7	0	0
	Hwy/waterway/RR			8	0	0
	Relief (for waterways)			9	0	0
					119	164

ITEMS 43A,B,C Structure Typ		CODE	# NBIS	# ALL
Data (Col M,N,O)				
Other Culvert (incl frame culverts)		019	0	1
Concrete Slab		101	12	20
Concrete Box Beam/Girder Multiple		105	2	3
Concrete Frame		107	1	2
Concrete Culvert (incl frame culverts)		119	0	4
Concrete Continuous Slab		201	3	3
Steel Beam or Girder		302	67	79
Steel Girder w/ Floor System		303	1	1
Steel Thru Truss (includes Pony)		310	6	6
Steel Culvert (incl frame culverts)		319	2	13
Prestr. Conc. Cont. Box Beam/Girder Multiple		505	25	25
Aluminum or Iron Culvert (incl frame culverts)		919	0	7
			119	164

Item 92 Fracture Critical		CODE	# NBIS	# ALL
Data Tab	Requires FC Inspection	Y	10	n/a
Col U,Y,Y	Requires FC Inspection	N	109	n/a
			119	n/a
	FC Switch Y/N is Blank		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	1	1
	stable above footing	8	98	137
	countermeasures installed	7	1	1
	no scour evaluation made	6	0	0
	stable within footer limits	5	19	25
	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
			119	164

Item 63 Documented Engineering Judgment			# NBIS	# ALL
	Field Eval & Doc EJ		22	n/a
BR_100 for these bridges?				
Item 92 Underwater			# NBIS	# ALL
		CODE		
Data Tab	requires dive inspection	N	119	n/a
Col W,X,Z	requires dive inspection	Y	0	n/a
			119	
Item 70 Plan Information			# NBIS	# ALL
		CODE		
Data Tab	plans not avail	0	69	113
Col. AV	plan avail	1	38	39
	field measured	2	11	11
	Field Testing	3	0	0
	not applicable	N	1	1
			119	164
Item 63 Method of Analysis			# NBIS	# ALL
		CODE		
Data Tab	Work Stress	0	22	56
Col. AV	LFR	1	0	0
	LRFR	2	0	0
	load test	3	0	0
	No rating done	4	0	0
	LFR	5	0	0
	AS	6	30	30
	LRFR	7	56	65
	Assigned LFR HS20	8	10	12
	Assigned LRFR HL93	D	0	0
	not appl (RR, etc)	F	1	1
	Not applicable (Ped, RR, Bldg)	X	0	0
			119	164
REMINDER:				
Load Factor required for bridges built after 1995 (exceptions: timber, etc.)				
LRFR required for bridges built after 2010				

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	3	100.0%	(C)
Comprehensive	0	3	100.0%	(C)
Refresher	0	3	100.0%	(C)

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 3 – Team Leader Qualifi (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	0	10	100.0%	(C)
METRIC 12 – Routine Quality Inspection					
Field Ratings		# > +/-1	# Ratings	% PASS	COMPLIANCE
	field ratings	0	24	100.0%	(C)
Comments		Missing	# < 6	% PASS	
Tab	Comments when Rating < 6	4	119	96.6%	(C)
Error		Total Scou	% PASS		
Comment	Rating should be = Scour	0	119	100.0%	within tolerance +/- 1
Tab	Noncompliant Scour Rating E	0	119	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	119	100.0%	(C)
Op RF = 0 but not closed		0	119	100.0%	(C)
% Legal < 100 but not posted		0	119	100.0%	(C)
Item 41= B		0	119	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

