



5 SUBJECTS BrM USERS SHOULD KNOW

User Group Meeting September 17, 2019 | Louisville, Kentucky



Hana Hwy at Palikea | Hawaii DOT

5 Basic things that maybe not every user of BrM knows, but you should.

CONTACT



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 **Jira Service Desk**

<https://bridgeware.atlassian.net/servicedesk/customer/portals>

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**OFF THE
SHELF**

**AVAILABLE
HELP**

**MAYVUE CAN
HELP**

**SETUP IS
WORTH THE
TIME**

**VALIDATE
OFTEN**

OFF THE SHELF

#1: BrM works off the shelf.



OFF THE SHELF

OFF THE SHELF

AVAILABLE HELP

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The screenshot shows the BrM Bridge Management software interface. The top left corner features the BrM logo and the text 'AASHTOWare Bridge Management' and 'AASHIO'. Below this is a user profile for 'USER, PONTIS'. The main header reads 'Bridges > View List'. A filter dropdown is set to 'BrM - None'. The main content area displays 'No records to display. Total Bridges: 0'. On the left, a sidebar menu lists various options: BRIDGES, TUNNELS, REPORTS, ADMIN, INSPECTION, GATEWAY, EXPORT, IMPORT, CHECK OUT, CHECK IN, OVERRIDE, TUNNELS, ANALYSIS, PROJECTS, and PROGRAMS.

The screenshot shows the U.S. Department of Transportation Federal Highway Administration website. The header includes the agency name and logo. The main heading is 'Bridges & Structures'. Below this is a navigation menu with tabs for 'Structures', 'Geotech', 'Hydraulics', and 'Safety and Management'. Under 'Safety and Management', there are sub-tabs for 'Bridge Inspection', 'Tunnel Inspection', 'Bridge Preservation', and 'Bridge Management'. The 'Bridge Inspection' tab is active, showing sub-options for 'Load Rating', 'NBIS', and 'NBI'. A breadcrumb trail at the bottom reads: 'Home / Programs / Bridges & Structures / Safety / Bridge Inspection / National Bridge Inventory'.

National Bridge Inventory (NBI)

- [NBI Regulations, Memos, and Documents](#)
- [LTBP InfoBridge Web Portal](#) (NBI data querying, analysis, and visualization tool. Google Chrome recom
- [Download NBI Data](#)
- [Tables of Frequently Requested NBI Information](#)
- [Recording and Coding Guide for the Structure Inventory and Appraisal of the Nations Bridges](#)
 - [Errata Sheets for Coding Guide](#)
 - [Record Format](#)
- [NBI Submittal File Check](#)
 - [NBI Data Checks](#)
- [FIPS/ANSI Codes](#)
- [Download NBI Element Data](#)
- [Specification for the National Bridge Inventory Bridge Elements](#)
- [NBI Element File Check](#)
 - [NBI Element Checks](#) (.pdf, 0.1 mb)
 - [XML Schema](#)
 - [Example XML](#) (4 mb)

We demoed in another presentation today that you can take your NBI and NBE files and go.

OFF THE SHELF

You can configure it any way your agency needs without having to customize it.

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▶	110	Re Conc Opn Girder/Beam
▶	111	Timber Open Girder
▶	112	Other Open Girder/Beam
▶	113	Steel Stringer
▶	115	Pre Conc Stringer

Create Element

Copy Element

Task Selection

Select a Tab and Task to Begin.

Tab Name:

Tasks:

New Tab

New Task

Copy Task

<input type="text" value="Custom Control"/>	<input type="text" value="Dropdown List"/>	<input type="button" value="Save Button"/>
<input type="text" value="Text Box"/>	<input type="checkbox"/> Checkbox	<input type="button" value="Save & Close Button"/>
<input type="text" value="Text Box (Parameter)"/>	Text Label	<input type="button" value="Cancel Button"/>
<input type="button" value="Add Element"/>		

You can setup the screens, the elements or the pages to have the data configured to the way your agency works. These are in-app configurations which do not prevent upgrades.

OFF THE SHELF

You can change the security settings.

Admin > Security > Groups

Groups

Select existing group: OR [Add new group](#)

Group Bridge Access Filters

[Edit](#)

Modify User Group Membership

Edit Group Name:

Users In Group

- BEAVERS, Michelle, (mharbaugh),
- BOSSERT, Lindsay, (lbossert),
- CARLSON, Andy, (ancarlson),
- CZECZOK, James, (jczeczok),
- DEMAREE, Jamie, (jdemaree),
- EBENSTEINER, Brad, (bebensteiner),
- FELDMEYER, Jesse, (jfeldmeyer),
- GEIST, Gerald, (GGEIST),
- HUNTER, Jason, (jhunter),
- JOHNSTON, Scott, (SJOHNSTON),
- LAWSON, Joe, (jelawson),
- LUTES, Jay, (JLUTES),

[Unselect All](#)

Users Not In Group

- ABDELMOKARM, Waleed, (wabdelmokarm),
- ABRAHAMSON, Chad, (cabrahamson),
- ALBERTA, Jay, (jalberta),
- ALBRECHT, Tim, (TALBRECHT),
- ALFSON, Loren, (LALFSON),
- AUER, Aaron, (aauer),
- AULT, Tracy, (TAULT),
- BAARSTAD, Marv, (MBAARSTAD),
- BEARD, Treva, (tbeard),
- BELANGER, James, (jbelanger),
- BERGLUND, Adam, (aberglund),
- BILSTAD, Brian, (B_BILSTAD),
- BORSCHER, Alan, (aborscher),
- BRINTNELL, Dave, (dbrintnell),
- BROWN, Bonnie, (bbrown),
- BUEHRE, Doug, (cbuehre),
- BURNET, Adam, (A_BURNET),
- CARLSEN, Jesse, (jcarlsen),
- CARLSTROM, Duane, (dcarlstr),
- CHILDRESS, Don, (D_CHILDRESS),
- CLEMENS, Jason, (jclemens),
- COOK, Roger, (R_COOK),
- DAHLY, Kevin, (kdalhy),
- DALLMAN, Wilbert, (WDALLMAN),
- DEVRIES, Sam, (sdevries),
- DOCKTER, Brandon, (bdockter),
- DOERR, Gary, (GLDOERR),
- DOLLINGER, Greg, (gdollinger),
- DONALDSON, Beau, (bdonaldson),
- ELSHAUG, Roger, (RELSHAUG),

[Unselect All](#)

Tab Security

Role	Visible	Read Only
Admin	<input checked="" type="checkbox"/>	<input type="checkbox"/>
AdminAnalysis	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Advanced	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Analysis	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Basic	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Default	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Inquiry Access Copied from Basic Role	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Inspector	<input checked="" type="checkbox"/>	<input type="checkbox"/>

[Save](#)

Task Security

Role	Visible	Read Only
Admin	<input checked="" type="checkbox"/>	<input type="checkbox"/>
AdminAnalysis	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Advanced	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Analysis	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Basic	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Default	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Inquiry Access Copied from Basic Role	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Inspector	<input checked="" type="checkbox"/>	<input type="checkbox"/>

[Save](#)

OFF THE SHELF

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You can configure the security in the application to give access to the people who need it (or hide pages from people who don't want to worry about those features).



OFF THE SHELF

You can use our reports, or you can write your own.



OFF THE SHELF

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Inspection Report
0029-156.680
Inspector: John Fischer
11/01/2017

IDENTIFICATION
Bridge Key: 0029156680
NBI Number: -1
Structure Name: -1
Location (9): 4 NORTH OF MANVEL
Carries (7): COUNTY HIGHWAY
Type of Service (42A): 6 2d level Interchg
Feature Crossed (6): I-29/JOHNSTOWN INT
Type of Service (42B): 1 Highway
Placecode (4): TURTLE RIVER TOWNSHIP
County (3): Gr. Forks
State (1): 38 North Dakota
Station: 1 - State
Region (2): Grand Forks
Latitude (16): 48.13
Longitude (17): -97.19
Owner (22): State Highway Agency
Custodian (21): State Highway Agency

INSPECTION
Date of Inspection (90): 11/1/2017
Frequency (91): 24
Next Inspection: 11/1/2019
Inspection Type: Freq (92) Last Insp (93) Next Insp
Element: 24 11/1/2017 11/1/2019
Fracture Critical (A): 1/1/1901 1/1/1901
Underwater (B): 1/1/1901 1/1/1901
Special Insp (C): 1/1/1901 1/1/1901

LOAD RATING AND POSTING
Posting Status (41): A Open, no restriction
Posting % (70): 5 A/B Above Legal Loads
Rating Date: 11/02/16
Design Load (31): 4 M 18 (H 20)
Opr Method (63): 1 LF Load Factor
Opr Rating (64): 54.20 Tons
Inv Method (65): 1 LF Load Factor
Inv Rating (66): 32.40 Tons

DECK GEOMETRY
Deck Geometry (68): 6 Equal Min Criteria
Deck Area: 8,169.40
Deck Type (107): 1 Concrete-Cast-in-Place
Wearing Surface (108A): 4 Low Slump Concrete
Membrane (108B): 0 None
Deck Protection (108C): None
O. to O. Width (52): 34.79
Curb / Sidewalk Width L (50A): 0.00
Curb / Sidewalk Width R (50B): 0.00
Median (33): 0 No Median

DECK CONDITION
Deck Rating (69): 6 Satisfactory
Bridge Rail (65A): 1 Meets Standards
Transition (36B): 1 Meets Standards
Approach Rail (36C): 1 Meets Standards
Approach Rail Ends (36D): 1 Meets Standards

SUPERSTRUCTURE GEOMETRY
of Main Spans (45): 2
of Approach Spans (46): 0
Main Material (43 A): 4 Steel Continuous
Main Design (43 B): 02 Stringer
Max Span Length (48): 115.16
Structure Length (49): 234.91
NBIS Length (37): Long Enough
Temp Structure (103): Not Applicable (P)
Skew (34): 0
Structure Flared (35): 0 No flare
Parallel Structure (101): No || bridge exists
Approach Alignment (72): 7 Above Min Criteria

SUPERSTRUCTURE CONDITION
Superstructure Rating (59): 8 Very Good
Structure Evaluation (67): 7 Above Min Criteria

Inspection Report
Wed 09/04/2019
Page 1 of 4

Bridge Inspection Report
00000000008659
Facility Name(7): US-380
Mile Post(11): 102.65 mi (201.76 km)
Team Leader: FRANK MARTINEZ
Inspection Date: 04/24/2018

Summary

Description	Total Qty	% in 1	Qty. St. 1	% in 2	Qty. St. 2	% in 3	Qty. St. 3	% in 4	Qty. St. 4
Deck	18,500.00	0%	0.00	100%	18,500.00	0%	0.00	0%	0.00
Imp Surface	18,500.00	0%	0.00	100%	18,500.00	0%	0.00	0%	0.00
Spall/Patched Area	162.00	0%	0.00	100%	162.00	0%	0.00	0%	0.00
Exposed Rebar	6.00	0%	0.00	0%	6.00	100%	0.00	0%	0.00
Reinforcing Steel	240.00	0%	0.00	100%	240.00	0%	0.00	0%	0.00
g (RC and Other)	300.00	0%	0.00	100%	300.00	0%	0.00	0%	0.00
Stringer/Beam	2,200.00	50%	1,100.00	50%	1,100.00	0%	0.00	0%	0.00
Concrete Staining	26.00	100%	0.00	0%	26.00	0%	0.00	0%	0.00
g (RC and Other)	242.00	100%	0.00	0%	242.00	0%	0.00	0%	0.00
Wall	225.00	94%	209.00	9%	20.00	0%	0.00	0%	0.00
Spall/Patched Area	2.00	0%	0.00	100%	2.00	0%	0.00	0%	0.00
Exposed Rebar	1.00	100%	0.00	0%	1.00	0%	0.00	0%	0.00
Reinforcing Steel	90.00	84%	85.00	6%	5.00	0%	0.00	0%	0.00
g (RC and Other)	5.00	100%	0.00	0%	5.00	0%	0.00	0%	0.00
Cap	255.00	84%	240.00	6%	15.00	0%	0.00	0%	0.00
Spall/Patched Area	4.00	0%	0.00	100%	4.00	0%	0.00	0%	0.00
Exposed Rebar	1.00	0%	0.00	0%	1.00	100%	0.00	0%	0.00
Reinforcing Steel	16.00	100%	0.00	0%	16.00	0%	0.00	0%	0.00
g (RC and Other)	80.00	0%	0.00	65%	92.00	35%	28.00	0%	0.00
Adhesion	24.00	100%	0.00	0%	0.00	0%	24.00	0%	0.00
Ball Damage	4.00	0%	0.00	0%	0.00	0%	4.00	0%	0.00
Crack	60.00	100%	60.00	0%	0.00	0%	0.00	0%	0.00
Crack Slab	600.00	0%	0.00	100%	600.00	0%	0.00	0%	0.00
Scaling	929.00	9%	80.00	98%	909.00	2%	20.00	0%	0.00
Concrete Coating	4,645.00	100%	4,645.00	0%	0.00	0%	0.00	0%	0.00
Damage	30.00	100%	0.00	0%	10.00	0%	20.00	0%	0.00
g (RC and Other)	48.00	79%	38.00	21%	10.00	0%	0.00	0%	0.00
Spall/Patched Area	2.00	100%	0.00	0%	2.00	0%	0.00	0%	0.00
g (RC and Other)	8.00	100%	0.00	0%	8.00	0%	0.00	0%	0.00
Settlement	6,000.00	90%	5,400.00	10%	600.00	0%	0.00	0%	0.00
Damage	600.00	100%	0.00	0%	600.00	0%	0.00	0%	0.00
Damage	30.00	100%	0.00	0%	30.00	0%	0.00	0%	0.00

T NAME QUANTITY UNITS QTY ST 1 QTY ST 2 QTY ST 3 QTY ST 4

Re Deck 18,500.00 sq ft 0.00 18,500.00 0.00 0.00

0.030 transverse cracks, HMWM has areas of sand wearing with 50% effectiveness. Bridge deck has 18 SY
gaps: 0.005 to 0.030 vertical, horizontal and longitudinal cracks, 4"x4" spalls with exposed rebar chairs.
has of moderate scale, rust stains and up to 4"x6" areas of delamination. Deck edge over pier #2 has a
rebar and has a 8"x8" spall with exposed rebar next to bridge rail #4. Same span outlet end has a 1"x4" spall
2" of delamination. Span #4 inlet end has a 1"x4" spall with exposed rebar and delaminated area up to
span has a 1/4" horizontal crack with delamination and a 1"x3" spall that has exposed rebar. Span #5
#4 with exposed rebar. Deck under, 0.005 to 0.013 transverse and longitudinal cracks. Some areas have
presence, minor honeycombing, and light rust stains.

T NAME QUANTITY UNITS QTY ST 1 QTY ST 2 QTY ST 3 QTY ST 4

Imp Surfaces 18,500.00 sq ft 0.00 18,500.00 0.00 0.00

as of minor sand wearing with 50% effectiveness.

T NAME QUANTITY UNITS QTY ST 1 QTY ST 2 QTY ST 3 QTY ST 4

Spall/Patched Ar 162.00 sq ft 0.00 162.00 0.00 0.00

Thu 08/01/2019
Page 5 of 8

INSPECTION RECOMMENDATIONS

UTDOT
Station
Management Engineer

Management Coordinator will be doing a follow-up visit 6 to 8 weeks after the
over Routine/Responsive Maintenance, Safety Features, Signing, and any other bridge

Questions or concerns, please contact Mike Ellis, Bridge Emergency/Maintenance
1-633-6224.

efforts.

On the left, our default inspection report. In the middle, New Mexico's customization of the report to make it easier to read. On the right: Utah's maintenance request letter which generates from BrM.



**OFF THE
SHELF**

**AVAILABLE
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AVAILABLE HELP

#2 Know what help is available.



AVAILABLE HELP

Documentation - The User Guide

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We have a user guide, and you can get to it from within BrM.



AVAILABLE HELP

Documentation - The Technical Manual

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**AASHTOWare
BRIDGE MANAGEMENT**

Technical Manual
BrM Release 6.0
August 31, 2018

$$\frac{\sum_e q_e w_e H I_e}{\sum_e q_e w_e} \quad 4-30$$

Health index of the element e

$$r_1 + r_2 y_2 + r_3 y_3 \quad 4-30$$

Percentage of element e in state i

Coefficients are $r_2 = \frac{2}{3}$ for State 2 and $r_3 = \frac{1}{3}$ for State 3. The user defines the overall health index which includes all the elements in the following image.

% in S1	% in S2	% in S3	Element Weight (W _e)
34.0%	0.0%	0.0%	40
24.0%	18.0%	0.0%	30
36.0%	23.0%	0.0%	10

Example Data for Health Index

$$.148 + \frac{1}{3} \times .003 = 0.95 \quad 4-31$$

$$.246 + \frac{1}{3} \times .186 = 0.79 \quad 4-32$$

$$.509 + \frac{1}{3} \times .234 = 0.67 \quad 4-33$$

$$\frac{.79 + (.26 \times 10 \times .67)}{.50 + (.26 \times 10)} = 0.928 = 92.8\% \quad 4-34$$

PREPARED FOR
AMERICAN ASSOCIATION
OF STATE HIGHWAY AND
TRANSPORTATION OFFICIALS
AASHIO

444 North Capitol Street
N.W., Suite 249
Washington, D.C. 20001

PREPARED BY
 Bentley
Advancing Infrastructure

685 Stockton Drive
Exton, PA 19341

Data Type	Description
varchar(32)	DEFAULT (SYS_GUID())
varchar(2)	
float(126, 0)	
varchar(4)	
float(126, 0)	
varchar(4)	
number(4)	
varchar(15)	
number(2)	
varchar(20)	
char(1)	
varchar(30)	
varchar(50)	
varchar(8)	
varchar(8)	
varchar(15)	
char(1)	
varchar(3)	
date	
varchar(32)	
number(8, 2)	
varchar(2)	
float(126, 0)	
float(126, 0)	
char(1)	
varchar(2)	
char(1)	
varchar(2)	

GET /rest/bridge/BFB20F07802040FB912558045D8DFE1

Return a single object of a type specific to the controller that has a given ID. The example above will return a bridge with a BRIDGE_GD of 1.

Mechanism for clearing the application's cache on demand. When a user refreshes (holds) an image of all of its configuration table data for a given user, the image is reused for all user sessions. However, there are certain conditions, such as adding roles and groups, or user group changes, that require the cache to be cleared. The API provides a simple means to invoke a cache refresh.

POST /rest/bridge/BFB20F07802040FB912558045D8DFE1

Immediately will dump the cache contents for 1 or all cached records. This has implications for connected users - they may get a 500 error. A refresh should normally be performed outside of active work. Please contact Bentley for more information.

GET /rest/bridge/BFB20F07802040FB912558045D8DFE1

Record of the given type with the data posted in the request body. The ID is specific to the controller type and is defined later in this manual.

POST /rest/bridge/BFB20F07802040FB912558045D8DFE1

Record, specified by the ID parameter, with the data posted in the request body is specific to the controller type and is defined later in this manual. The data posted in the request body would update BRIDGE_GD = 1 with new data provided in the request body.

GET /rest/bridge/BFB20F07802040FB912558045D8DFE1

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We have a technical manual that takes you through all the calculations. Nothing is black-box about BrM. But since this is the secret sauce, distribution of the Tech Manual is a little more regulated.



AVAILABLE HELP

Documentation – Youtube Training

<https://www.youtube.com/user/PontisBridge/videos>

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AASHTOWare Bridge
108 subscribers

SUBSCRIBED 108

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AASHTOWare BrM – Proposed Enhancements to... 66 views • 1 month ago	BrM April 2019 Patch Release Overview Video 115 views • 3 months ago	BrM December 2018 Patch Release Overview 73 views • 6 months ago	BrM 5.3 vs 5.2.3 Inspections 466 views • 1 year ago	Scenario Explorer 266 views • 2 years ago	Optimization 385 views • 2 years ago
Programs 303 views • 2 years ago	Projects 329 views • 2 years ago	Lifecycle Policies 280 views • 2 years ago	Network Actions 208 views • 2 years ago	Actions 232 views • 2 years ago	Benefits 242 views • 2 years ago
BrM 5.2.3 Training 2:57	BrM 5.2.2 Projects 12:59				

The youtube channel with playlists on how to run the optimizer, or what is coming out in the next patch.



AVAILABLE HELP

Peer Exchange | Facebook Group

<https://www.facebook.com/groups/1069154759766880/>

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Our facebook group of the members of the User Group.



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Peer Exchange | JIRA

<https://bridgeware.atlassian.net/servicedesk/customer/portals>

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AASHTO Product Support

Find help and services

BrM Product Support

Please select from the options below to let us know how to best support you or call us at 888-447-...

Recently used forms

- [Licensing in BrM Product Support](#)
Choose this if you have questions about licensing.
- [Question in BrM Product Support](#)
Don't see what you're looking for? Select this option

AASHTO Product Support Requests

Request contains... Open requests BrM Support Any request type

Type	Reference	Summary	Status	Service desk	Requester
	BRMSD-2174	Getting an error opening the inspection notes	OPEN	BrM Product Support	Jacob Armour
	BRMSD-473	Visual Form Editor Error	IN PROGRESS	BrM Product Support	Jacob Armour
	BRMSD-2251	Question: Warning when running Optimization Program in 6.1	ON HOLD	BrM Product Support	Christopher Laughlin
	BRMSD-1717	KYTC - Script error for 6.2	ON HOLD	BrM Product Support	Mark Faulhaber
	BRMSD-3142	Under records & Validation	ON HOLD	BrM Product Support	NOVAKOVICH Bruce D
	BRMSD-119	Patch 1 Error message on running custom reports says database connection error. Everything looks fine, worked in 6.0	ON HOLD	BrM Product Support	NOVAKOVICH Bruce D
	BRMSD-3100	Error when trying to download a Cross Section	ON HOLD	BrM Product Support	Patty Fish
	BRMSD-3148	BrM 6 set up in test	IN PROGRESS	BrM Product Support	nail.alammori
	BRMSD-3147	Database Trigger Bug	ACKNOWLEDGED	BrM Product Support	Jacob Armour
	BRMSD-105	Unable to delete Filter	IN PROGRESS	BrM Product Support	Jacob Armour

JIRA – including not just your questions but those of other people: maybe someone ran into the same problem earlier.



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MAYVUE CAN HELP

#3: Mayvue can help you too.

MAYVUE CAN HELP

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AVAILABLE HELP

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Mayvue Training

We offer training on:
 - BrM 101 - Inspection Features



Inspection > Condition

Condition Ratings

Deck (058): 7 Good
 Superstructure (059): 7 Good
 Substructure (060): 6 Satisfactory

Channel (061): 7 Minor Damage
 Culvert (062): N N/A (NBI)
 Waterway (071): 7 Above Minimum
 Unrepaired Spalls: (SF)

Validate Calculate SR Calculate NBI NBI Converter Profile: BrM Default

Element Conditions

Hide Elem Inspection Details Arrow Key Grid Navigation Help

Element: Elem # or Elem Desc: Struct. Unit: [All] Env.: [All] Clear Filters Quantity Percent Add Element

Elem.	Str. Unit.	Env.	Element Description	Tot. Qty.	Units	Qty1	Qty2	Qty3	Qty4			
16	1	Mod. (3)	Re Conc Top Flange	6600	sq.ft	3,600.000	0	0	0			
109	1	Mod. (3)	Pre Opn Conc Girder/Beam	610	ft	610.000	0	0	0			
219	1	Mod. (3)	Stl Abutment	120	ft	107.100	12.9	0	0			
310	1	Mod. (3)	Elastomeric Bearing	12	each	12.000	0	0	0			
330	1	Mod. (3)	Metal Bridge Railing	210	ft	210.000	0	0	0			
602	1	Mod. (3)	Appr Rail Sm Flag	1	(EA)	0.000	0	0	1			
604	1	Mod. (3)	Bank Protect Sm Flag	1	(EA)	0.000	1	0	0			
606	1	Mod. (3)	App Fill Sm Flag	1	(EA)	0.000	1	0	0			

Inspection Notes

Sign on bridge for boats. DS: "Boat Speed Limit No Wake Zone".
 Gauging station on DS side, midspan.
 Tidal influence, as per 1995 bridge plans.



We teach classes. We teach how to use inspection pages.



MAYVUE CAN HELP

OFF THE SHELF

AVAILABLE HELP

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SETUP IS WORTH THE TIME

VALIDATE OFTEN

Mayvue Training

We offer training on:

- BrM 101 - Inspection Features
- BrM 201 - Intro to SQL
- BrM 202 - Crystal Reports



Call for Projects Report

Structure Number	Bridge ID	Facility	Feature Intersected	Region
32	02102011000B010	US-41	W BR WHITEFISH RIVER	1- Superior
33	02102011000B020	US-41	W BR WHITEFISH RIVER	1- Superior
34	02102011000B030	US-41	HUBER CREEK	1- Superior
35	02102021000B010	M-94	SLAPNECK CREEK	1- Superior
36	02102021000B020	M-94	AU TRAIN RIVER	1- Superior
37	02102021000C010	M-94	BOHEMIAN CREEK	1- Superior
38	02102021000C020	M-94	AUTRAIN RIVER PENSTOCK	1- Superior
39	02102021000R010	M-94	WCL RR	1- Superior
40	02102031000B010	M-67	SCOTTS CREEK	1- Superior
41	02102031000B020	M-67	DEXTER CREEK	1- Superior
42	02102031000B030	M-67	BLACK CREEK	1- Superior
43	02102031000C010	M-67	JOHNSON CREEK	1- Superior
44	02102041000B010	M-28	SAND RIVER	1- Superior
45	02102041000B020	M-28	LAUGHING WHITEFISH RIVER	1- Superior
46	02102041000B030	M-28	ROCK RIVER	1- Superior
47	02102041000B040	M-28	AU TRAIN RIVER	1- Superior
48	02102041000C010	M-28	DEER CREEK	1- Superior



We teach SQL for engineers and how to create your own crystal reports

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AVAILABLE HELP

MAYVUE CAN HELP

SETUP IS WORTH THE TIME

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Mayvue Training

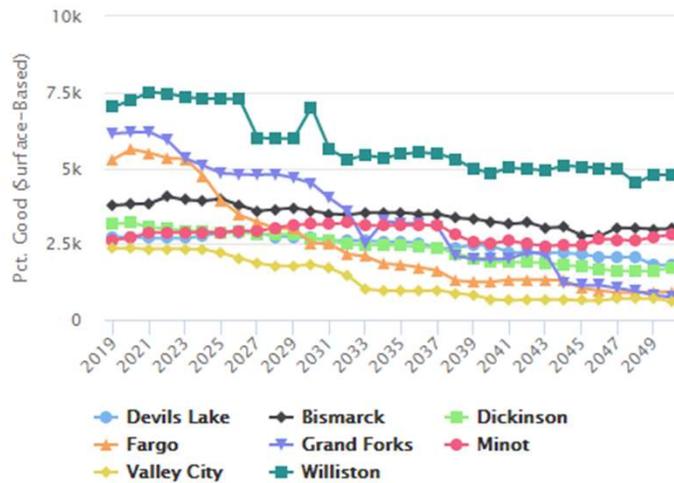
We offer training on:

- BrM 101 - Inspection Features
- BrM 201 - Intro to SQL
- BrM 202 - Crystal Reports
- BrM 301 - Optimization Setup
- BrM 302 - Optimization Fine Tuning



Pct Good by District

Years: 2020 to 2050



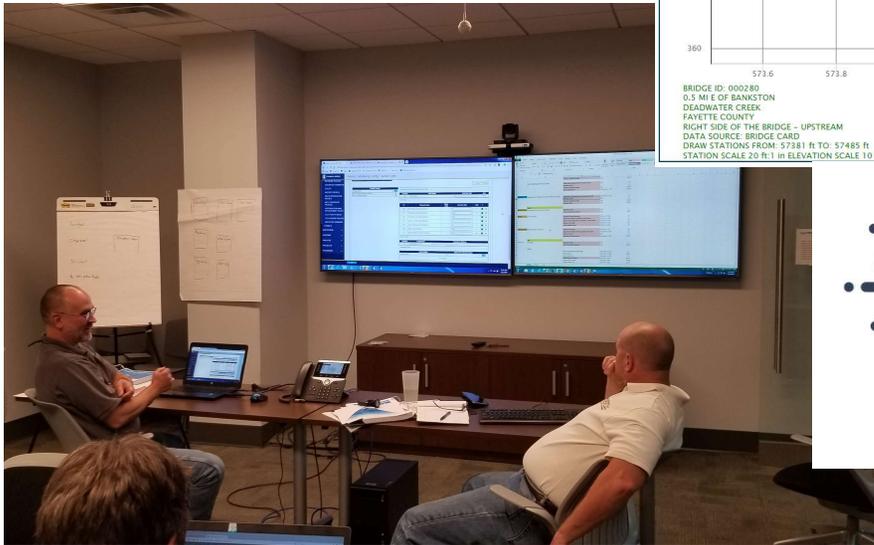
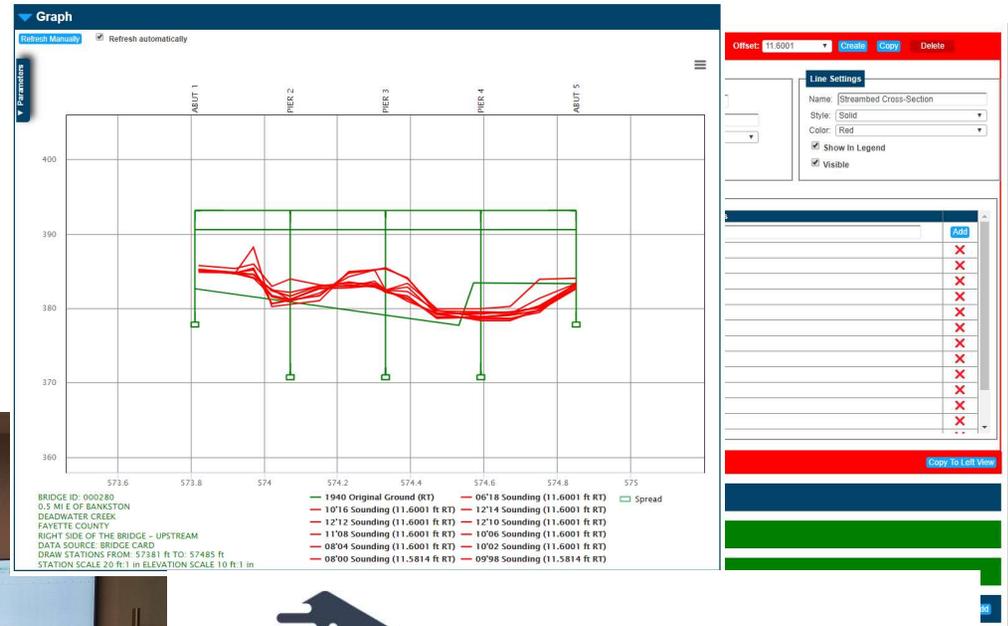
And we teach how to setup or fine tune your optimization process.

MAYVUE CAN HELP

Mayvue Configuration

We can do the setup for you:

- Configured or Custom Pages
- Reports
- Optimization Setup
- Data Cleanup or Data Transfer



OFF THE SHELF

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MAYVUE CAN HELP

SETUP IS WORTH THE TIME

VALIDATE OFTEN

We can do the setup for you. We can make your pages or reports. We can setup your optimization, and we can even port in your STIP or load ratings and cross sections.



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MAYVUE CAN HELP

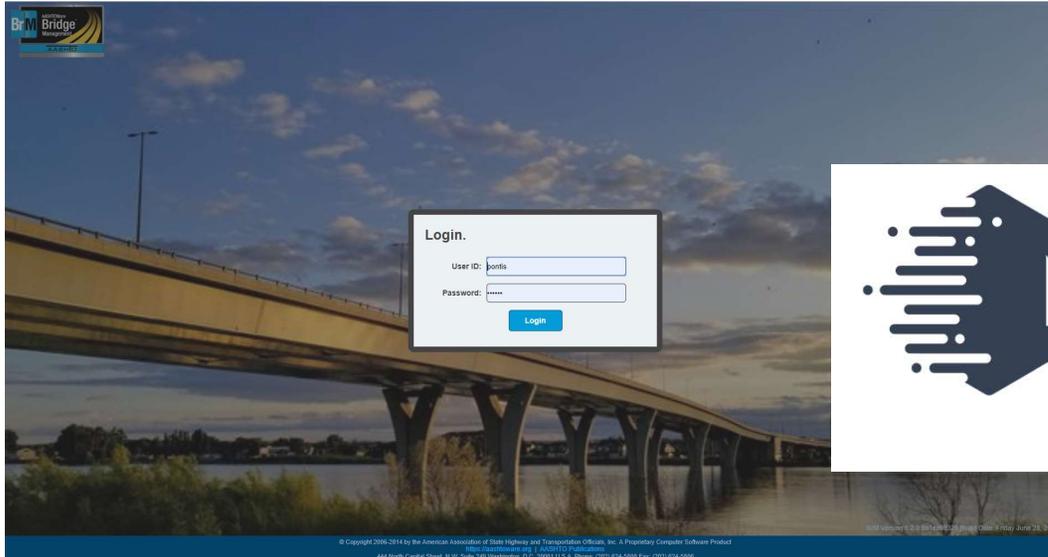
SETUP IS WORTH THE TIME

VALIDATE OFTEN

Mayvue Installation

We can do the installation for you:

- Install help
- Upgrade help
- Hosting
- Systems Integration



We can install BrM for you, or help you upgrade. We can host for you, or tie BrM into other systems at your agency.



OFF THE
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AVAILABLE
HELP

MAYVUE CAN
HELP

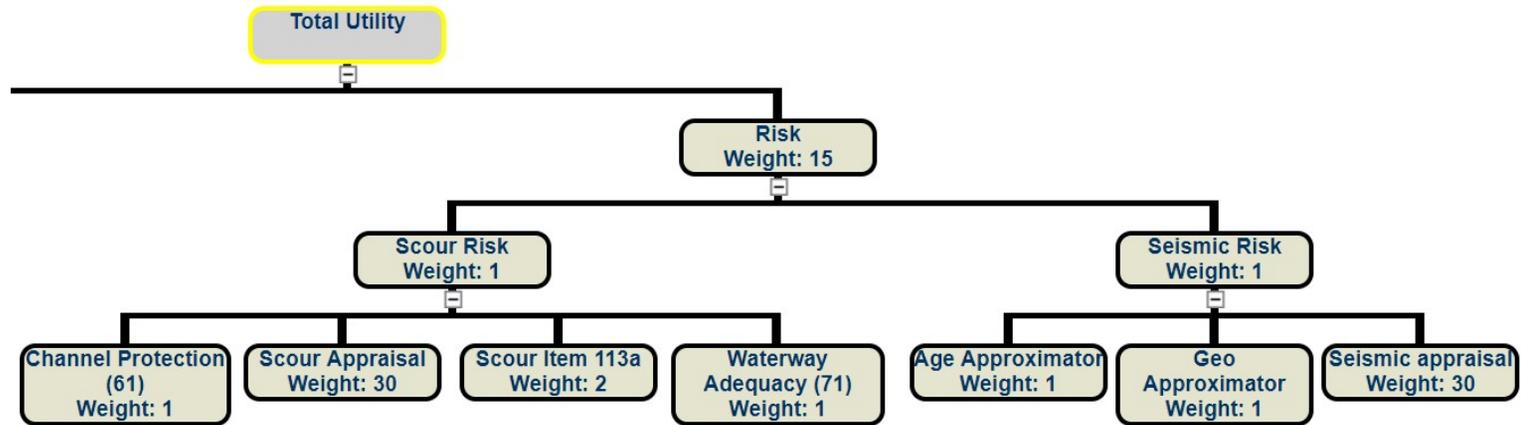
SETUP IS
WORTH THE
TIME

VALIDATE
OFTEN

SETUP IS WORTH THE TIME

#4: The setup is worth the time.

SETUP IS WORTH THE TIME



OFF THE SHELF

AVAILABLE HELP

MAYVUE CAN HELP

SETUP IS WORTH THE TIME

VALIDATE OFTEN

It is worth your time to have BrM setup to your settings. Whether you have risk for seismic or ice flows or wave actions or collisions, mimic your criteria.

SETUP IS WORTH THE TIME

Admin > Modeling Config > Action Defs

Name	Description	Notes
Approach Rail Replacement	Fix smartflag	
Asphalt & Membrane	Replace 510 and 521	
Asphalt Only	Replace 510	
Bridge Rehab	Combination	Network
Bridge Replacement	Replace Everything	
Culvert Rehab	Add Riprap, Slip-lining	
Culvert Replacement	Replace all Culvert Elements	
Drainage & Erosion Repair	Fix Approach Smartflag	
Epoxy Inject Beams & Columns	Move CS2 to CS1 for super and sub conc	
Joint Repair	Replace except assemblies	
Joint Replacement	Replace all Joints	
Microsilica Overlays & Hydrodemo	sortof replace conc deck	
Paint First Time	Create 515	
Paint Superstructure	Replace Paint 515	
Pavement Preservation	Combination	Network

Programs > Program Planning

Assigned Projects

Segment: All Year: All

Project Name	Category	A
0381(Pavement Preservation)	Preservation Work	
0747(Pavement Preservation, Substructure Spall Repairs)	Preservation Work	
4071(Culvert Replacement)	Major Rehab Work	
0740(Pavement Preservation)	Preservation Work	
1800(Bridge Rehab, Seismic Retrofit Phase 2)	Major Rehab Work	
0180(Pavement Preservation)	Preservation Work	
0395(Pavement Preservation)	Preservation Work	
0505(Pavement Preservation)	Preservation Work	
0254(Pavement Preservation)	Preservation Work	
0399(Bridge Rehab)	Major Rehab Work	
0400(Bridge Rehab)	Major Rehab Work	
0402(Bridge Rehab)	Major Rehab Work	
0403(Pavement Preservation)	Preservation Work	
0405(Pavement Preservation)	Preservation Work	
0805(Bridge Replacement)	Major Rehab Work	
0411(Pavement Preservation)	Preservation Work	
4069(Culvert Replacement)	Major Rehab Work	
0605(Pavement Preservation)	Preservation Work	
0609(Pavement Preservation)	Preservation Work	
0615(Pavement Preservation, Substructure Spall Repairs)	Preservation Work	
0627(Bridge Rehab)	Major Rehab Work	
1384(Pavement Preservation)	Preservation Work	
1409(Pavement Preservation)	Preservation Work	
1127(Pavement Preservation)	Preservation Work	
1142(Pavement Preservation)	Preservation Work	

OFF THE SHELF

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SETUP IS WORTH THE TIME

VALIDATE OFTEN

A list of projects which names projects you wouldn't consider is pretty much useless. Setup the actions you would really be willing to do.

SETUP IS WORTH THE TIME

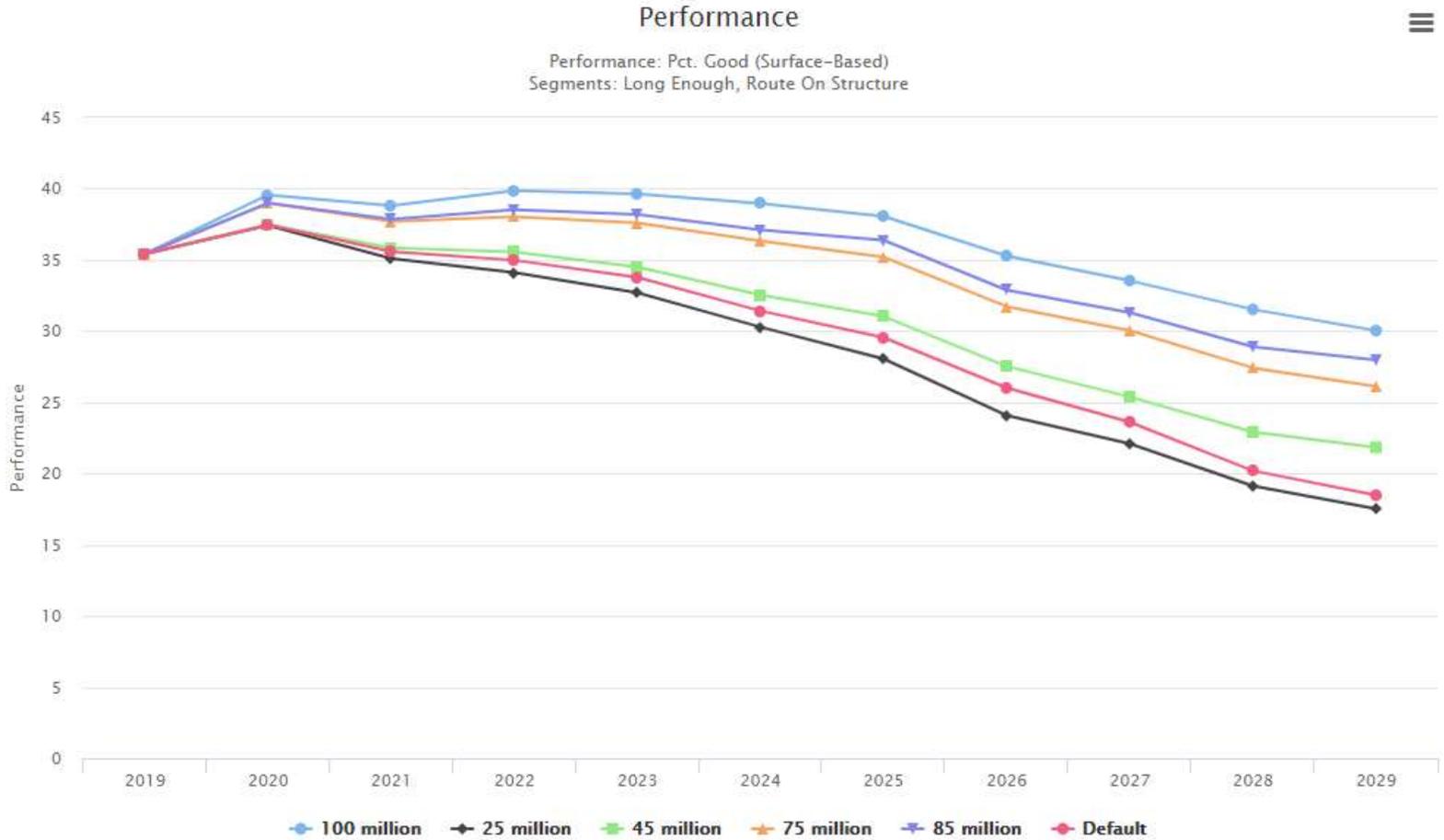
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SETUP IS WORTH THE TIME

VALIDATE OFTEN



Then your results and projections will be meaningful. They might not be exact, but they will be useful.



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**VALIDATE
OFTEN**

VALIDATE OFTEN

#5: Validate often.



VALIDATE OFTEN

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SETUP IS WORTH THE TIME

VALIDATE OFTEN

USER, PONTIS

Bridges > View List

Filter: BrM - None

Bridge ID	Inspector	Insp Date
<input checked="" type="checkbox"/> 0176	OSBURN, JOEL	7/24/2017 12:00:0
<input checked="" type="checkbox"/> 0177	DOGGETT, TIM	6/29/2017 12:00:0
<input checked="" type="checkbox"/> 0178	OSBURN, JOEL	7/24/2017 12:00:0
<input checked="" type="checkbox"/> 0179	LOWELL, DAVID	8/14/2017 12:00:0
<input checked="" type="checkbox"/> 0180	LOWELL, DAVID	8/23/2018 12:00:0
<input checked="" type="checkbox"/> 0181	LOWELL, DAVID	7/12/2017 12:00:0
<input checked="" type="checkbox"/> 0182	OSBURN, JOEL	7/25/2017 12:00:0
<input checked="" type="checkbox"/> 0183	LOWELL, DAVID	8/22/2018 12:00:0
<input checked="" type="checkbox"/> 0184	LOWELL, DAVID	8/22/2018 12:00:0
<input checked="" type="checkbox"/> 0185	loomis, amy	8/12/2019 12:00:0
<input checked="" type="checkbox"/> 0186	Consultant, Engineering	8/11/2018 12:00:0
<input checked="" type="checkbox"/> 0190	OSBURN, JOEL	7/26/2017 12:00:0
<input checked="" type="checkbox"/> 0191	DOGGETT, TIM	8/22/2017 12:00:0
<input checked="" type="checkbox"/> 0192	LOWELL, DAVID	6/28/2017 12:00:0
<input checked="" type="checkbox"/> 0193	OSBURN, JOEL	7/25/2017 12:00:0
<input checked="" type="checkbox"/> 0194	OSBURN, JOEL	7/24/2017 12:00:0
<input checked="" type="checkbox"/> 0201		7/10/2018 12:00:0

BRIDGES

- VIEW LIST
- MANAGE LAYOUTS
- MANAGE FILTERS
- NEW INSPECTION
- SUFF RATE
- VALIDATE
- CREATE STRUCT
- COPY STRUCT
- REMOVE STRUCT
- MANAGE BRIDGE GROUPS
- MAPPING

INSPECTION

REPORTS

TUNNELS

Run BrM's validation – the fed-file check – on subsets of bridges as they are inspected throughout the year, so that issues can be addressed before submittal season.



VALIDATE OFTEN

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SETUP IS WORTH THE TIME

VALIDATE OFTEN

USER, PONTIS Bridges > Validate

Validate

NBI Results NBE Results

<input checked="" type="checkbox"/>	Bridge ID	District	County
<input checked="" type="checkbox"/>	0176	03	130
<input checked="" type="checkbox"/>	0177	03	280
<input checked="" type="checkbox"/>	0178	03	201
<input checked="" type="checkbox"/>	0179	03	231
<input checked="" type="checkbox"/>	0180	05	261
<input checked="" type="checkbox"/>	0181	03	231
<input checked="" type="checkbox"/>	0182	03	201
<input checked="" type="checkbox"/>	0183	05	261
<input checked="" type="checkbox"/>	0184	03	261

1 2 3 4 5 6 7

Struct Num	District	County	FHWAERRORID	Severity	Validation message
No records to display.					

Cancel

It is so much easier to deal with a few at a time as they come up.

VALIDATE OFTEN

OFF THE SHELF

AVAILABLE HELP

MAYVUE CAN HELP

SETUP IS WORTH THE TIME

VALIDATE OFTEN

USER, PONTIS Bridges > Validate

Validate

NBI Results NBE Results

Bridge ID	District	County	Informative
<input checked="" type="checkbox"/> 0176	03	130	0
<input checked="" type="checkbox"/> 0177	03	280	0
<input checked="" type="checkbox"/> 0178	03	201	0
<input checked="" type="checkbox"/> 0179	03	231	0
<input checked="" type="checkbox"/> 0180	05	261	0
<input checked="" type="checkbox"/> 0181	03	231	0
<input checked="" type="checkbox"/> 0182	03	201	0
<input checked="" type="checkbox"/> 0183	05	261	0
<input checked="" type="checkbox"/> 0184	03	261	0

1 60 items in 7 pages

Informative (1)

Structure	District	County	Element	Parent Element	State	Severity	Message
0206	05	261					The most recent inspection for structure may include migrated data.

Cancel

This will save you from having to drop what you're doing for 3 months leading up to submittal. The upcoming scheduled process for validation should make that even easier.

CONTACT



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1-888-447-8776

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 **Jira Service Desk**

<https://bridgeware.atlassian.net/servicedesk/customer/portals>

Hana Hwy at Palikea | Hawaii DOT

