

Layer Name: Bridges

File Name: bridges_nbi

Layer Type: Point

Status: Complete

Geog. Extent: Main Hawaiian Islands

Projection: Universal Transverse Mercator, Zone 4 (Meters)

Datum: NAD 83 HARN

Description: Bridges in the State of Hawaii, as of January, 2018.

Source: National Bridge Inventory, January, 2018. Hawaii bridges downloaded by Hawaii Statewide GIS Program from the Homeland Infrastructure Foundation-Level Data (HIFLD) Open Data site (<https://hifld-geoplatform.opendata.arcgis.com/datasets/national-bridge-inventory-nbi-bridges>) on 1/5/18. Projected to UTM Zone 4 NAD 83 HARN.

Attributes: Please see table on following pages for summary of attributes and domains. Please also see complete metadata at http://files.hawaii.gov/dbedt/op/gis/data/bridges_nbi.html.

Contact: Hawaii Statewide GIS Program
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Item Name	Alias	Value	Meaning
	(Only items listed in this column have aliases at this time)		
FID			
Shape			
STFIPS			
Region			
Item8	Structure Number		
Item5A	RecordType		
		1	Route ON Structure
		2	Route Under Structure
Item5B	Route Signing Prefix		
		1	Interstate Hwy
		2	US Numbered Hwy
		3	State Hwy
		4	County Hwy
		5	City Street
		6	Federal Lands Road
		7	State Lands Road
		8	Other
Item5C	Designated Level of Service		
		0	None of the below
		1	Mainline
		2	Alternate
		3	Bypass
		4	Spur
		6	Business
		7	Ramp, Wye, Connector, etc.
		8	Service and/or unclassified frontage road
Item5D	Route Number		
Item5E	Directional Suffix		
		0	n/a
		1	N
		2	S
		3	E
		4	W
Item2	Hwy Agency District (State or Federal)		
Item3	County Code (FIPS)		
Item4	Place Code		
Item6A	Features Intersection		

Item6B	Blank		
Item7	Facility Carried by Structure		
Item9	Location (Narrative Description)		
Item10	Minimum Vertical Clearance (Meters)		
Item11	Kilometer Part		
Item12	Base Hwy Network (1=yes, 0=no)		
Item13A	LRS Route Number		
Item13B	LRS Sub-route Number		
Item16	Latitude		
Item17	Longitude		
Item19	Bypass, Detour Length (km)		
Item20	Toll Status		
Item21	Maintenance Responsibility		
		'01	State Hwy Agency
		'02	County Hwy Agency
		'03	Town Hwy Agency
		'11	City Hwy Agency
		'12	Local Park, Forest, or Reservation Agency
		'21	Other State Agencies
		'25	Other Local Agencies
		'26	Private (other than railroad)
		'27	Railroad
		'31	State Toll Authority
		'32	Local Toll Authority
		'60	Other Federal Agencies
		'61	Indian Tribal Government
		'62	Bureau of Indian Affairs
		'63	Bureau of Fish and Wildlife
		'64	US Forest Service
		'66	National Park Service
		'67	Tennessee Valley Authority
		'68	Bureau of Land Management
		'69	Bureau of Reclamation
		'70	Corps of Engineers

			(Civil)
		'71	Corps of Engineers (Military)
		'72	Air Force
		'73	Navy/Marines
		'74	Army
		'75	NASA
		'76	Meto Washington Airports Svc
		'80	Unknown
Item22	Owner		
Item26	Functional Classification of Inventory Route		
		'01	Rural - Principal Arterial - Interstate
		'02	Rural - Principal Arterial - Other
		'06	Rural - Minor Arterial
		'07	Rural - Major Collector
		'08	Rural - Minor Collector
		'09	Rural - Local
		'11	Urban - Principal Arterial - Interstate
		'12	Urban - Principal Arterial - Other Freeways or Expressways
		'14	Urban - Other Principal Arterial
		'16	Urban - Minor Arterial
		'17	Urban - Collector
		'19	Urban - Local
Item27	Year Built		
Item28A	# Lanes on structure		
Item28B	# Lanes under structure		
Item 29	Avg Daily Traffic		
Item 30	Year of Avg Daily Traffic		
Item 31	Design Load		
Item 32	Approach Roadway Width (meters)		
Item 33	Bridge Median		
Item 34	Skew (degrees)		
Item 35	Structue Flared		
Item 36A	Traffic Safety Features - Bridge Railings		
Item 36B	Traffic Safety Features -		

	Transitions		
Item 36C	Traffic Safety Features - Approach Guardrail		
Item 36D	Traffic Safety Features - Approach Guardrail Ends		
Item 37	Historical Significance		
		1	On National Register of Historic Places
		2	Eligible for National Register of Historic Places
		3	Possibly eligible for National Register of Historic Places
		4	Not determinable
		5	Not eligible for National Register of Historic Places
Item 38	Navigation Control		
Item 39	Navigation Vertical Clearance		
Item 40	Navigation Horizontal Clearance		
Item 41	Structure Open, Posted or Closed		
Item 42A	Type of Service On Bridge		
		1	Highway
		2	Railroad
		3	Pedestrian-Bicycle
		4	Highway-railroad
		5	Highway-pedestrian
		6	Overpass at interchange or 2nd level of multi-level interchange
		7	Third level (Interchange)
		8	Fourth level (Interchange)
		9	Building or plaza
		'0	Other
Item 42B	Type of Service Under Bridge		
		1	Highway, with or without pedestrian
		2	Railroad

		3	Pedestrian-Bicycle
		4	Highway-railroad
		5	Waterway
		6	Highway-waterway
		7	Railroad-waterway
		8	Highway-waterway-railroad
		9	Relief for waterway
		'0	Other
Item 43A	Structure Type, Main - Kind of Material or Design		
		10 possible values, e.g., concrete, steel, etc.	
Item 43B	Structure Type, Main - Type of design or construction		
		23 possible values, e.g., slab, tunnel, etc.	
Item 44A	Structure Type, Approach Spans - Kind of Material or Design		
		10 possible values, e.g., concrete, steel, etc.	
Item 44B	Structure Type, Approach Spans - Type of design or construction		
		23 possible values, e.g., slab, tunnel, etc.	
Item 45	Number of Spans in Main Unit		
Item 46	Number of Approach Spans		
Item 47	Inventory Route, Total Horizontal Clearance (meters)		
Item 48	Length of Maximum Span (meters)		
Item 49	Structure Length (meters)		
Item 50A	Left Curb or Sidewalk Width (meters)		
Item 50B	Right Curb or Sidewalk Width (meters)		
Item 51	Bridge Roadway Width, Curb to Curb (meters)		

Item 52	Deck Width, Out to Out (meters)		
Item 53	Minimum Vertical Clearance Over Bridge Roadway (meters)		
Item 54A	Minimum Vertical Clearance Reference Feature		
		3 possible values, e.g., Highway beneath structure	
Item 54B	Minimum Vertical Underclearance		
Item 55A	Minimum Lateral Underclearance on Right Reference Feature		
		3 possible values, e.g., Highway beneath structure	
Item 54B	Minimum Lateral Underclearance on Right		
Item 56	Minimum Lateral Underclearance on Left		
Item 58	Condition Rating - Deck		
		11 possible values, e.g., Poor, Good, Excellent	
Item 59	Condition Rating - Superstructure		
		11 possible values, e.g., Poor, Good, Excellent	
Item 60	Condition Rating - Substructure		
		11 possible values, e.g., Poor, Good, Excellent	
Item 61	Condition Rating - Channel and Channel Protection		
		11 possible values, e.g., protected, eroded, etc.	
Item 62	Condition Rating - Culverts		
		11 possible values, e.g., deterioration, scaling, etc.	
Item 63	Method Used to Determine Operating		

	Rating		
		5 possible values, e.g., Load Factor, Allowable Stress, etc.	
Item 64	Operating Rating - Maximim permissible metric tons (meters)		
Item 65	Method Used to Determine Inventory Rating		
		5 possible values, e.g., Load Factor, Allowable Stress, etc.	
Item 66	Inventory Rating - Maximim permissible metric tons (meters)		
Item 67	Appraisal Rating - Structural Evaluation		
		10 possible values	
Item 68	Appraisal Rating - Deck Geometry		
		9 possible values	
Item 69	Appraisal Rating - Underclearances		
		9 possible values	
Item 70	Appraisal Rating - Bridge Posting		
		6 possible values	
Item 71	Appraisal Rating - Waterway Adequacy		
		10 possible values	
Item 72	Appraisal Rating - Approach Roadway Alignment		
		10 possible values	
Item 75A	Type of Work Proposed		
		8 possible values, e.g., rehabilitation, replacement, etc.	
Item 75B	Work Done By		
		2 possible values, contractor or owner	
Item 76	Length of Structure Improvement (meters)		
Item 90	Inspection Date		
Item 91	Designated Inspection Frequency (number of		

	months)		
Item 92A	Critical Feature Inspection - Fracture - Yes or No and # of months between inspections		
Item 92B	Critical Feature Inspection - Underwater Inspection - Yes or No and # of months between inspections		
Item 92C	Critical Feature Inspection - Other Special Inspection - Yes or No and # of months between inspections		
Item 93A	Critical Feature Inspection - Fracture - Year of last inspection		
Item 93B	Critical Feature Inspection - Underwater Inspection - Year of last inspection		
Item 93C	Critical Feature Inspection - Other Special Inspection - Year of last inspection		
Item 94	Bridge Improvement Cost (in thousands of dollars)		
Item 95	Roadway Improvement Cost (in thousands of dollars)		
Item 96	Total Project Cost (in thousands of dollars)		
Item 97	Year of Improvement Cost Estimate		
Item 98A	Border Bridge - Neighboring State Code		
Item 98B	Border Bridge - Percent responsibility		
Item 99	Border Bridge Structure Number		
Item 100	STRAHNET Highway Designation		
		4 possible values,	

		whether or not STRAHNET and type of route	
Item 101	Parallel Structure Designation		
		3 possible values - right or left parallel structure or none	
Item 102	Direction of Traffic		
		4 possible values, e.g., 1 way, 2 way, etc.	
Item 103	Temporary Structure Designation		
Item 104	Highway System of Inventory Route		
		2 possible values, 0 or 1, not on or on National Highway System	
Item 105	Federal Lands Highways		
		8 possible values, if run through federal lands	
Item 106	Year Reconstructed		
Item 107	Deck Structure Type		
		10 possible values, e.g., concrete, steel, etc.	
Item 108A	Wearing Surface / Protective System - Type of Surface		
		11 possible values, e.g., Concrete, gravel, etc.	
Item 108B	Wearing Surface / Protective System - Type of Membrane		
		7 possible values, e.g., Built-up, epoxy, etc.	
Item 108C	Wearing Surface / Protective System - Deck Protection		
		11 possible values, e.g., Galvanized reinforcing, etc.	
Item 109	Average Daily Truck Traffic (Percent)		
Item 110	Designated National Network		
		2 possible values, 0 or 1, not on or on national	

		network for trucks	
Item 111	Pier or Abutment Protection		
		5 possible values, e.g., not required, functioning, etc.	
Item 112	NBIS Bridge Length		
Item 113	Scour Critical Bridges		
		13 possible values, re vulnerability to scour	
Item 114	Future Average Daily Traffic		
Item 115	Year of Future Average Daily Traffic		
Item 116	Minimum Navigation Vertical Clearance (Meters)		
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	(Only highlighted items have aliases at this time)		
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Shape			
STFIPS			
Region			
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Item5A	RecordType		
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		2	US Numbered Hwy
		3	State Hwy
		4	County Hwy
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		6	Federal Lands Road
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Item5D	Route Number		
Item5E	Directional Suffix		
		0	n/a
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		2	S
		3	E
		4	W
Item2	Hwy Agency District (State or Federal)		
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