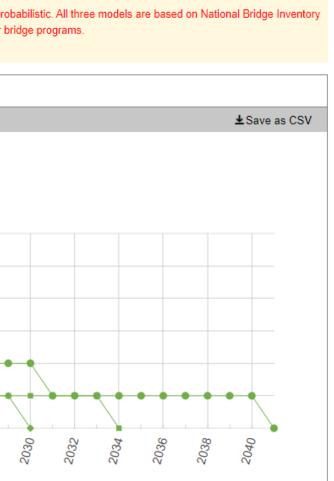
# Bridge No. 50-277-015

# LTBP InfoBridge condition forecast models

## Figure 1. Bridge 50-277-015 Deck Condition Forecast

Bridge Information														
State Name (1): South Dakota	Structure Number (8): 00000050277015													
Data Condition Forecast														
<ul> <li>InfoBridge condition forecast models are the results of research performed by FHWA's Long-Term Bridge Performance Program. The Base Model is a statistical deterministic model. Survival and Machine Learning models are p items. InfoBridge users should not develop their bridge preservation/replacement program relying directly on models' output. Bridge owners are advised to consider additional site- and bridge-specific data when developing their</li> <li>Not all bridges have models associated with them.</li> </ul>														
Deck     O     Superstructure     O     Substructure														
Condition Forecast Graph ?														
Historical Data 🗹 Deck —														
Time in Condition Models - Other 9 8 	Id ● V Lower Bound ▲ V Mean ■ V Median ◆													
Condition Rating														
4														
1982 <sup>1</sup> 1986 1988 1990 1994 1994	1996 1996 2000 2002 2006 2006 2016 2016 2016 201													



## Figure 2. Bridge 50-277-015 Superstructure Condition Forecast

ate Name (1): uth Dakota						Structure N 0000000502		):							
Data Con	ndition Forecast														
items. Info	e condition forec Bridge users sh	ould not deve	elop their l	bridge pre											
Not all brid	dges have mode	ls associated	I with then	n.											
🔾 Deck 🧕 🧿	Superstructure	▼ 0 S	ubstructur	е											
Condition Fore	ecast Graph 🤅	)													
istorical Data															
	n Models - Other	✓ Superstruct ✓ — • Forect		′ear 🗹 Up	per Bound	● 🔽 Low	er Bound A	🔺 🔽 Mea	n 🔳 🛃 Me	edian 🔶					
me in Condition 9 8				′ear ☑ Up	per Bound	• Z Low	er Bound A	▲ Vea	n 🔳 🗹 Me	edian 🔶					
ne in Condition 9 8				′ear ♥ Up	per Bound	• Z Low	er Bound A	Mear	n 🔳 🗹 Me	edian 🔶					
me in Condition 9 8				′ear ♥ Up	per Bound	• Z Low	er Bound A	Mear	n 🔳 🔽 Me	edian •					
9 9 8 7 2				′ear ♥ Up	per Bound	• V Low	er Bound A	Meal	n 🔳 🗹 Me	edian •					
me in Condition 9 8				rear ♥ Up	per Bound	• Z Low	er Bound A	Mean	n	edian •					



## Figure 3. Bridge 50-277-015 Substructure Condition Forecast

Bridge Inform	nation																					
State Name (1) South Dakota	):						ructure Nu 000005027															
Data C	Condition Foreca	st																				
items. In	lge condition f nfoBridge use pridges have n	rs should no	t develop	p their bri						-											_	
O Deck	O Superstrue	cture 🧿	Substruc	ture 🔻																		
Condition Fo	orecast Graph	n (?)																				
Historical Data	1	🗹 Subs	structure																			
Time in Conditi 9 — 8 —	ion Models - O	other 🗹 🛶 •	Forecast	t Start Yea	ar 🗹 Uppe	r Bound ●	Lower	Bound A	Mea	an 🔲 🔽	Media	1 •										
Condition Rating											$\checkmark$					•••		•••				
O 5 –								_							•	$\rightarrow \rightarrow \rightarrow$		• • • •		• • • •		••
4 -																				$\bullet$		••
3 -																						
1982	<sup>1984</sup> <sup>1986</sup>	<sup>1988</sup> 1990	<sup>1992</sup>	1994	<sup>1996</sup> <sup>1998</sup>	2000	2002 2004	2006	2008	2012	2014	2016 2016	2020	V Year	2026	2028	2032	2034 2036	2038	2040	2044	2046

