



# Refining Optimization Results



User Group Meeting September 17,  
2019 | Louisville, Kentucky

# CONTACT



ZACHARY BOYLE  
zac.boyle@mayvue.com  
Text | Voicemail | (801) 450-9716

BrM@mayvue.com  
Support | 1-888-44-SUPPORT  
1-888-447-8777  
General | 1-877-462-9883



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GET RESULTS

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GET RESULTS

# GET RESULTS

Programs > Program Planning

**Assigned Projects**

Segment:  Year:

Project Name	Category	Automatic	Cost	Utility	Utility Benefit	Benefit/Cost (\$k)	Cost (\$k) / Benefit	Year	Frozen	Status
003000H11101095(Rehab Superstructure - HDOT)	Minor Rehab Work	Yes	\$10,669,188	80	3.48	0	\$3,065,858.60	2019	No	Proposed
009000370300759(Repair Substructure - HDOT)	Preservation Work	Yes	\$1,354	91	0.01	0	\$135,392.70	2019	No	Proposed
003000H11202591(Replace Joints - HDOT)	Major Rehab Work	Yes	\$38,400	94	3.62	0.0001	\$10,607.70	2019	No	Proposed
003000H10100538(Replace Joints - HDOT)	Major Rehab Work	Yes	\$104,000	94	2.59	0	\$40,154.40	2019	No	Proposed
009004600501273(Replace Deck - HDOT)	Major Rehab Work	Yes	\$4,711,364	97	8.85	0	\$532,357.50	2019	No	Proposed
009003600502300(Rehab Superstructure - HDOT)	Minor Rehab Work	Yes	\$315,329	39	2.08	0	\$151,600.60	2019	No	Proposed
009004500901100(Rehab Superstructure - HDOT)	Minor Rehab Work	Yes	\$280,292	93	0.5	0	\$560,584.80	2019	No	Proposed
003000780400115(Replace Joints - HDOT)	Major Rehab Work	Yes	\$98,800	95	2.59	0	\$38,146.70	2019	No	Proposed
003000H10201830(Repair Substructure - HDOT)	Preservation Work	Yes	\$2,422	94	0.03	0	\$80,716.80	2019	No	Proposed
003000H20200771(Repair Substructure - HDOT)	Preservation Work	Yes	\$24,499	92	0.12	0	\$204,155.90	2019	No	Proposed
009003780500770(Repair Substructure - HDOT)	Preservation Work	Yes	\$16,901	87	0.39	0	\$43,335.70	2019	No	Proposed
003000830302112(Rehab Superstructure - HDOT, Rehab Substructure - HDOT)	Major Rehab Work	Yes	\$949,376	57	6.16	0	\$154,119.50	2019	No	Proposed
003000H10100708(Repair Substructure - HDOT)	Preservation Work	Yes	\$3,374	93	0.01	0	\$337,395.10	2019	No	Proposed
009004500900886(Replace Deck - HDOT)	Major Rehab Work	Yes	\$930,002	75	7.09	0	\$131,170.90	2019	No	Proposed
009003600501942(Rehab Superstructure - HDOT)	Minor Rehab Work	Yes	\$2,347,447	85	0.64	0	\$3,667,886.60	2019	No	Proposed

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**Projects Map**



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# GET RESULTS

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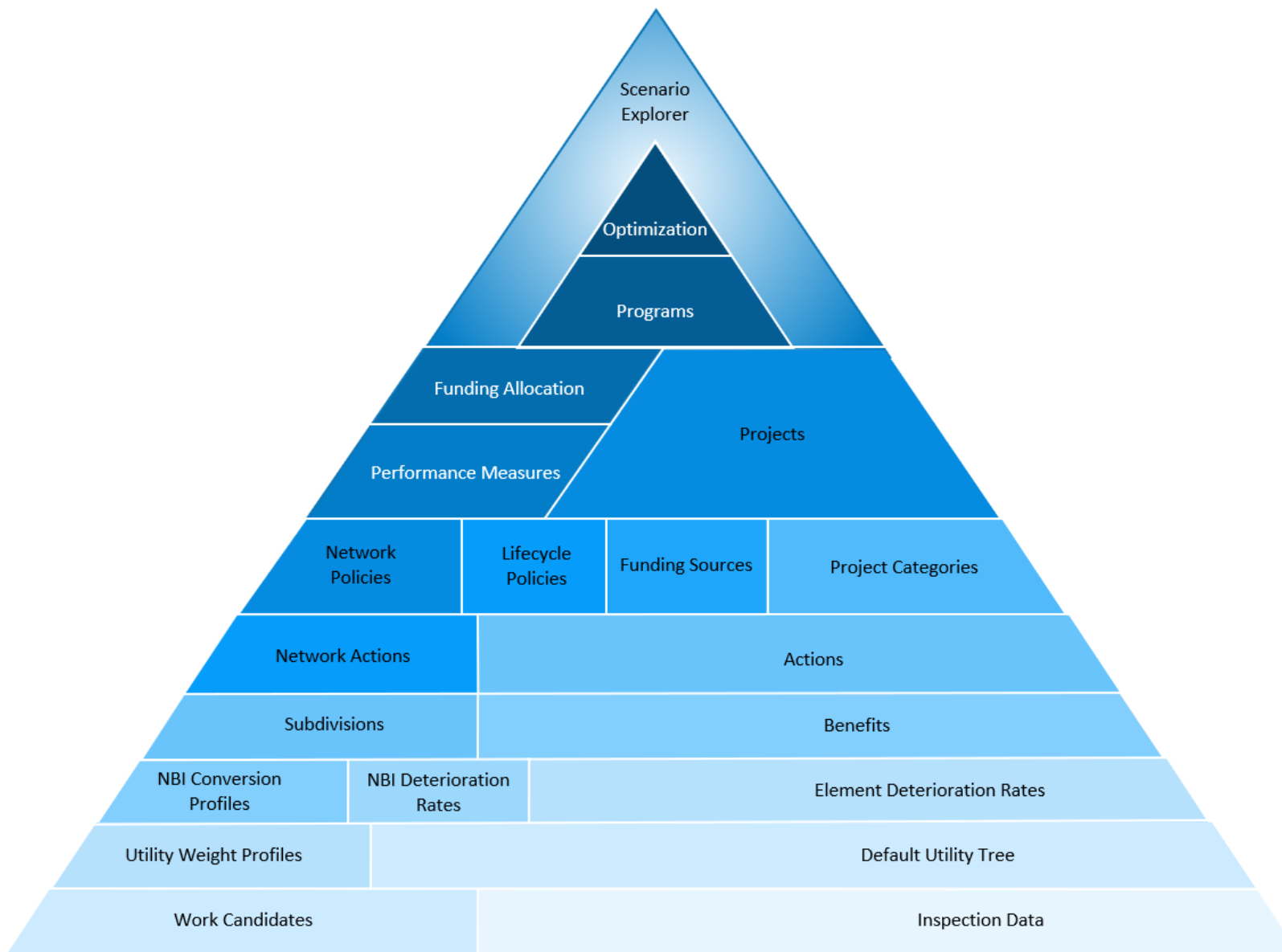
CONSIDER COSTS

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CONSIDER YOUR COSTS





# CONSIDER YOUR COSTS

Programs > Program Planning

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## Programs > Program Planning

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	009004500901100(Rehab Superstructure - HDOT)	Minor Rehab Work	Yes	\$280,292	93	0.5	
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	009004500900886(Replace Deck - HDOT)	Major Rehab Work	Yes	\$930,002	75	7.09	
	009003600501942(Rehab Superstructure - HDOT)	Minor Rehab Work	Yes	\$2,347,447	85	0.64	

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# CONSIDER YOUR COSTS

## Programs > Program Planning

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### Programs > Create/Edit Programs

Assigned Projects

Segment:  Year:

Project ID	Project Name	Structure Weights Formula
003000H11101095	(Rehab S	
009000370300759	(Repair S	
003000H11202591	(Replace	
003000H10100538	(Replace	
009004600501273	(Replace	
009003600502300	(Rehab S	
009004500901100	(Rehab S	
003000780400115	(Replace	
003000H10201830	(Repair S	
003000H20200771	(Repair S	
009003780500770	(Repair S	
003000830302112	(Rehab S	
003000H10100708	(Repair S	
009004500900886	(Replace	
009003600501942	(Rehab S	

Program Status:

Program URL:

Structure Weights Formula:

Program Start Year:

Program End Year:

Required Minimum Cost:

$\{bridge.deck\_area\} * (2 - (300000 - \{roadway.ADTTOTAL\}) / 3000)$

Discount Rate (%):

Inflation Rate (%):

Residual HiX Approximation

Indirect Cost (%):



# CONSIDER YOUR COSTS

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## Programs > Program Planning

### Admin > Modeling Config > Action Defs

**Assigned Projects**

Segment: All  Yes

ID	Element Name	Separated	Cost Per Unit	Unit	?	
003000H11101095	(Reha	<input type="checkbox"/>				<input type="checkbox"/>
009000370300759	(Repa	<input type="checkbox"/>				<input type="checkbox"/>
003000H11202591	(Repla	<input type="checkbox"/>				<input type="checkbox"/>
003000H10100538	(Repla	<input type="checkbox"/>				<input type="checkbox"/>
009004600501273	(Repla	<input type="checkbox"/>				<input type="checkbox"/>
009003600502300	(Reha	<input type="checkbox"/>				<input type="checkbox"/>
009004500901100	(Reha	<input type="checkbox"/>				<input type="checkbox"/>
003000780400115	(Repla	<input type="checkbox"/>				<input type="checkbox"/>
003000H10201830	(Repa	<input type="checkbox"/>				<input type="checkbox"/>
003000H20200771	(Repa	<input type="checkbox"/>				<input type="checkbox"/>
009003780500770	(Repa	<input type="checkbox"/>				<input type="checkbox"/>
003000830302112	(Reha	<input type="checkbox"/>				<input type="checkbox"/>
003000H10100708	(Repa	<input type="checkbox"/>				<input type="checkbox"/>
009004500900886	(Repa	<input type="checkbox"/>				<input type="checkbox"/>
009003600501942	(Reha	<input type="checkbox"/>				<input type="checkbox"/>

structure - HDOT

Overriding Direct Cost (overrides unit-costs)

Enabled	Field Name	Cost Per Unit	Unit
<input type="checkbox"/>	Deck Area	\$ <input type="text"/>	sq.ft

Unit Costs

ID	Element Name	Separated	Cost Per Unit	Unit	?	
202	Steel Column (Condition improved)	<input type="checkbox"/>	\$ <input type="text" value="1824.186"/>	each	<input type="checkbox"/>	<input type="checkbox"/>
203	Other Column (Condition improved)	<input type="checkbox"/>	\$ <input type="text" value="312"/>	each	<input type="checkbox"/>	<input type="checkbox"/>
204	Pre Conc Column (Condition improved)	<input type="checkbox"/>	\$ <input type="text" value="20000"/>	each	<input type="checkbox"/>	<input type="checkbox"/>
205	Re Conc Column (Condition improved)	<input checked="" type="checkbox"/>	CS2: \$ <input type="text" value="2496"/> CS3: \$ <input type="text" value="2745.6"/> CS4: \$ <input type="text" value="3020.16"/>	each	<input type="checkbox"/>	<input type="checkbox"/>
206	Timber Column (Condition improved)	<input type="checkbox"/>	\$ <input type="text" value="200"/>	each	<input type="checkbox"/>	<input type="checkbox"/>
207	Stl Tower (Condition improved)	<input type="checkbox"/>	\$ <input type="text" value="6573.84"/>	ft	<input type="checkbox"/>	<input type="checkbox"/>
208	Timber Trestle (Condition improved)	<input type="checkbox"/>	\$ <input type="text" value="250"/>	ft	<input type="checkbox"/>	<input type="checkbox"/>



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# ACTION FREQUENCY

TOO OFTEN | NOT OFTEN ENOUGH



# ACTION FREQUENCY

ACTION SHOWS UP TOO OFTEN

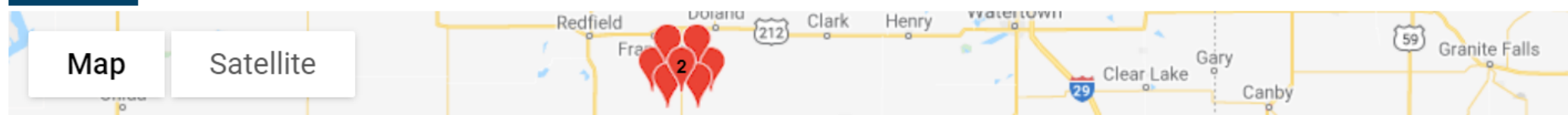
Programs > Program Planning

## Assigned Projects

Segment:  Year:

Project Name	Category	Automatic	Cost	Utility	Utility Benefit	Benefit/Cost (\$k)	Cost (\$k) / Benefit
Optimizer Generated 10/18/2019	No Category	Yes	\$812,100	86	19.12	0.0235	\$42.
58240300(Replace Structure)	No Category	Yes	\$2,107,443	93	24.28	0.0115	\$86.
Optimizer Generated 10/18/2019	No Category	Yes	\$2,832,200	86	21.21	0.0075	\$133.
Optimizer Generated 10/18/2019	No Category	Yes	\$348,100	90	20.69	0.0594	\$16.
32051277(Replace Structure)	No Category	Yes	\$2,119,100	87	17.48	0.0082	\$121.
16725271(Replace Structure)	No Category	Yes	\$3,899,230	89	18.7	0.0048	\$208.
26290158(Replace Structure)	No Category	Yes	\$850,535	90	24.64	0.029	\$34.
09290063(Replace Structure)	No Category	Yes	\$881,252	91	30.71	0.0348	\$28.
32280182(Replace Structure)	No Category	Yes	\$1,926,322	91	16.45	0.0085	\$117.
32395284(Replace Structure)	No Category	Yes	\$2,107,443	90	20.93	0.0099	\$100.
16083011(Replace Structure)	No Category	Yes	\$3,080,275	89	21.78	0.0071	\$141.
32305144(Replace Structure)	No Category	Yes	\$1,926,322	92	16.26	0.0084	\$118.
24381153(Replace Structure)	No Category	Yes	\$2,813,954	86	13.78	0.0049	\$204.
55132190(Replace Structure)	No Category	Yes	\$2,909,386	94	16.88	0.0058	\$172.
10097382(Replace Structure)	No Category	Yes	\$4,094,061	90	16.89	0.0041	\$242.
58183250(Replace Structure)	No Category	Yes	\$5,693,585	93	18.51	0.0033	\$307.
07125330(Replace Structure)	No Category	Yes	\$4,197,407	89	23.44	0.0056	\$179.

## Projects Map



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ACTION SHOWS UP TOO OFTEN

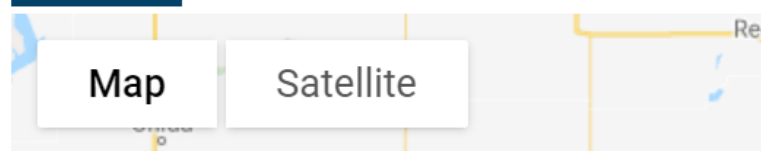
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### Assigned Projects

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	55132190(Replace Structure)
	10097382(Replace Structure)
	58183250(Replace Structure)
	07125330(Replace Structure)

### Projects Map



Programs > Create/Edit Programs

### Network Policies

#### Unassigned Network Policies:

- Replace Deck
- Uncon LSDC Overlay
- Uncon Scour Countermeasures
- Default Rehab Sub
- Uncon Zone Paint
- Default Rehab Deck
- Uncon Rehab Conc Culvert
- Complete Paint 7
- Replace Culvert
- UnCon Bent Cap Repair
- Uncond Replace Culvert
- Scour Countermeasures
- Complete Paint 6
- Bridge Rail Replacement
- Uncon Complete Paint 6
- Rehab Concrete Culvert
- Uncon Bridge Rail Replacement
- Zone Paint
- Bent Cap Repair
- Complete Paint 5

Assign All

#### Assigned Network Policies:

- Replace Bridge

Unassign All

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# ACTION FREQUENCY

ACTION SHOWS UP TOO OFTEN

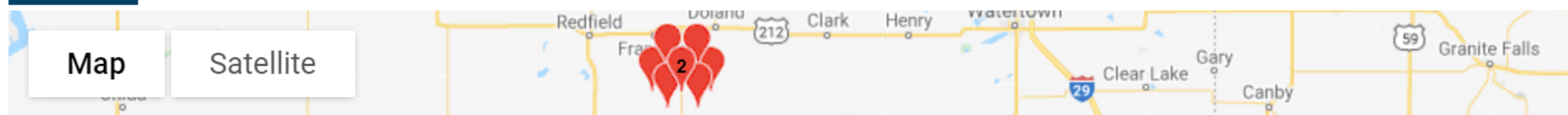
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58183250(Replace Structure)	No Category	Yes	\$5,693,585	93	18.51	0.0033	\$307
07125330(Replace Structure)	No Category	Yes	\$4,197,407	89	23.44	0.0056	\$179

## Projects Map



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# ACTION FREQUENCY

EXPECTED ACTION DOES NOT APPEAR

## Programs > Program Planning

	Project Name	Category	Automatic	Cost	Utility	Utility Benefit	Be
	009000310300413(Repair Superstructure - HDOT, Repair Substructure - HDOT)	Preservation Work	Yes	\$77,163	55	2.51	
	003000H10100708(Repair Deck - HDOT, Repair Superstructure - HDOT)	Preservation Work	Yes	\$38,048	83	0.29	
	003000H10202524(Repair Deck - HDOT, Repair Superstructure - HDOT, Repair Substructure - HDOT)	Preservation Work	Yes	\$44,921	85	0.55	
	003000830302112(Replace Structure - HDOT)	Replacement	Yes	\$2,026,966	63	21.7	
	003000610000045(Deck Overlay - HDOT, Repair Substructure - HDOT)	Preservation Work	Yes	\$160,111	83	1.94	
	003000830303459(Replace Structure - HDOT)	Replacement	Yes	\$7,720,890	63	9.24	
	003000990401986(Deck Overlay - HDOT, Repair Substructure - HDOT)	Preservation Work	Yes	\$1,241,962	56	3.45	
	003000990401724(Deck Overlay - HDOT, Repair Substructure - HDOT)	Preservation Work	Yes	\$1,185,994	88	0.99	
	009000310300566(Repair Superstructure - HDOT, Repair Substructure - HDOT)	Preservation Work	Yes	\$85,181	55	2.52	
	003000830303738(Deck Overlay - HDOT, Repair Substructure - HDOT)	Preservation Work	Yes	\$710,424	89	0.66	
	003000920400617(Replace Structure - HDOT)	Replacement	Yes	\$9,044,138	63	13.25	
	003000930301412(Replace Joints - HDOT)	Major Rehab Work	Yes	\$61,600	26	3.45	
	001000190006359(Deck Overlay - HDOT, Repair Substructure - HDOT)	Preservation Work	Yes	\$81,368	89	2.93	
	003000930301128(Repair Substructure - HDOT)	Preservation Work	Yes	\$75,815	61	2.04	
	003000920400480(Replace Joints - HDOT)	Major Rehab Work	Yes	\$70,400	50	1.65	

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COMPARE SCENARIOS



# ACTION FREQUENCY

EXPECTED ACTION DOES NOT APPEAR

## Programs > Program Planning

Project Name	
	009000310300413(Repair Superstructure - HDOT, Substructure - HDOT)
	003000H10100708(Repair Deck - HDOT, Repair Superstructure - HDOT)
	003000H10202524(Repair Deck - HDOT, Repair Superstructure - HDOT, Repair Substructure - HDOT)
	003000830302112(Replace Structure - HDOT)
	003000610000045(Deck Overlay - HDOT, Repair Substructure - HDOT)
	003000830303459(Replace Structure - HDOT)
	003000990401986(Deck Overlay - HDOT, Repair Substructure - HDOT)
	003000990401724(Deck Overlay - HDOT, Repair Substructure - HDOT)
	009000310300566(Repair Superstructure - HDOT, Substructure - HDOT)
	003000830303738(Deck Overlay - HDOT, Repair Substructure - HDOT)
	003000920400617(Replace Structure - HDOT)
	003000930301412(Replace Joints - HDOT)
	001000190006359(Deck Overlay - HDOT, Repair Substructure - HDOT)
	003000930301128(Repair Substructure - HDOT)
	003000920400480(Replace Joints - HDOT)

## Programs > Create/Edit Programs

### Network Policies

#### Unassigned Network Policies:

- TEST - Rehab Substructure
- TEST Rehab Superstructure
- TEST Repair Deck
- TEST Repair Sub
- TEST Repair Super

#### Assigned Network Policies:

- Deck - Overlay & Repair (HDOT)
- Deck - Overlay (HDOT)
- Deck - Repair (HDOT)
- Deck - Replace (HDOT)
- Paint Structure (HDOT)
- Rehab Culvert (HDOT)
- Rehab Substructure (HDOT)
- Rehab Superstructure (HDOT)
- Repair Culvert (HDOT)
- Repair Joint Seals (HDOT)
- Repair Steel Substructure (HDOT)
- Repair Substructure (HDOT)
- Repair Superstructure (HDOT)
- Replace Culvert (HDOT)
- Replace Joints (HDOT)
- Replace Structure (HDOT)
- Seismic Retrofit (HDOT)



Assign All

Unassign All

GET RESULTS

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# ACTION FREQUENCY

EXPECTED ACTION DOES NOT APPEAR

## Programs > Program Planning

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Alternative Log Output. Optimization GUID: 'E500DB5FFAAF4D36A7F931CF63C71C78' Program: 'NHS Bridges' Scenario: '\$50M per year' StartTime: 7/2/2020 4:28:31 PM									
Project Name	Bridge ID	Combination Name	Structure Weight	Starting Utilit	Cost	Utility Benefi	Year	ele	Rejection Reason
	009030001400249	(Replace Culvert - HDOT)	501	86.66	\$0.00	0	2020	F	Network policy
	009030001400249	(Replace Structure - HDOT)	501	86.66	\$0.00	0	2020	F	Network policy
	009030001400249	(Rehab Culvert - HDOT)	501	86.66	\$0.00	0	2020	F	Minimum cost violation
	009000310300413(Repair Superstructure - HDOT)	009030001400249 (Repair Culvert - HDOT)	501	86.66	\$214.55	0.84	2020	F	Minimum cost violation
	009030001400249	(Rehab Superstructure - HDOT, Rehab Substructure - HDOT, Seismic Retrofit - HDOT)	501	86.66	\$0.00	0	2020	F	Network policy
	003000H10100708(Repair Deck - HDOT Superstructure - HDOT)	009030001400249 (Rehab Superstructure - HDOT)	501	86.66	\$0.00	0	2020	F	Network policy
	009030001400249	(Deck Overlay - HDOT, Repair Superstructure - HDOT, Paint Structure - HDOT)	501	86.66	\$0.00	0	2020	F	Network policy
	009030001400249	(Repair Substructure - HDOT, Seismic Retrofit - HDOT)	501	86.66	\$0.00	0	2020	F	Network policy
	003000H10202524(Repair Deck - HDOT Superstructure - HDOT, Repair Substructure - HDOT)	009030001400249 (Repair Substructure - HDOT, Paint Structure - HDOT)	501	86.66	\$0.00	0	2020	F	Network policy
	009030001400249	(Paint Structure - HDOT)	501	86.66	\$0.00	0	2020	F	Network policy
	003000830302112(Replace Structure)	009030001400249 (Deck Overlay - HDOT, Repair Superstructure - HDOT, Repair Substructure - HDOT)	501	86.66	\$0.00	0	2020	F	Network policy
	009030001400249	(Rehab Superstructure - HDOT, Repair Substructure - HDOT)	501	86.66	\$0.00	0	2020	F	Network policy
	003000610000045(Deck Overlay - HDOT Substructure - HDOT)	009030001400249 (Deck Overlay - HDOT, Seismic Retrofit - HDOT)	501	86.66	\$0.00	0	2020	F	Network policy
	009030001400249	(Deck Overlay - HDOT, Repair Substructure - HDOT, Paint Structure - HDOT)	501	86.66	\$0.00	0	2020	F	Network policy
	003000830303459(Replace Structure)	009030001400249 (Rehab Superstructure - HDOT, Rehab Substructure - HDOT)	501	86.66	\$0.00	0	2020	F	Network policy
	009030001400249	(Rehab Superstructure - HDOT, Rehab Substructure - HDOT, Paint Structure - HDOT)	501	86.66	\$0.00	0	2020	F	Network policy
	003000990401986(Deck Overlay - HDOT Substructure - HDOT)	009030001400249 (Deck Overlay - HDOT, Repair Superstructure - HDOT)	501	86.66	\$0.00	0	2020	F	Minimum cost violation
	009030001400249	(Deck Overlay - HDOT, Repair Substructure - HDOT)	501	86.66	\$0.00	0	2020	F	Network policy
	003000990401724(Deck Overlay - HDOT Substructure - HDOT)	009030001400249 (Rehab Superstructure - HDOT, Repair Substructure - HDOT, Seismic Retrofit - HDOT)	501	86.66	\$0.00	0	2020	F	Network policy
	009030001400249	(Rehab Superstructure - HDOT, Repair Substructure - HDOT, Paint Structure - HDOT)	501	86.66	\$0.00	0	2020	F	Network policy
	009000310300566(Repair Superstructure - HDOT)	009030001400249 (Repair Substructure - HDOT)	501	86.66	\$0.00	0	2020	F	Network policy
	009030001400249	(Seismic Retrofit - HDOT)	501	86.66	\$0.00	0	2020	F	Network policy
	003000830303738(Deck Overlay - HDOT Substructure - HDOT)	009030001400249 (Repair Deck - HDOT, Repair Superstructure - HDOT, Repair Substructure - HDOT)	501	86.66	\$0.00	0	2020	F	Minimum cost violation
	009030001400249	(Repair Deck - HDOT)	501	86.66	\$0.00	0	2020	F	Minimum cost violation
	003000920400617(Replace Structure)	009030001400249 (Repair Deck - HDOT, Repair Superstructure - HDOT, Paint Structure - HDOT)	501	86.66	\$0.00	0	2020	F	Network policy
	009030001400249	(Repair Deck - HDOT, Repair Superstructure - HDOT)	501	86.66	\$0.00	0	2020	F	Minimum cost violation
	003000930301412(Replace Joints - HDOT)	009030001400249 (Repair Deck - HDOT, Repair Substructure - HDOT)	501	86.66	\$0.00	0	2020	F	Network policy
	009030001400249	(Rehab Substructure - HDOT, Seismic Retrofit - HDOT)	501	86.66	\$0.00	0	2020	F	Network policy
	001000190006359(Deck Overlay - HDOT Substructure - HDOT)	009030001400249 (Repair Deck - HDOT, Paint Structure - HDOT)	501	86.66	\$0.00	0	2020	F	Network policy
	009030001400249	(Replace Deck - HDOT, Replace Superstructure - HDOT)	501	86.66	\$0.00	0	2020	F	Network policy
	003000930301128(Repair Substructure - HDOT)	009030001400249 (Deck Overlay & Repair - HDOT, Repair Substructure - HDOT, Paint Structure - HDOT)	501	86.66	\$0.00	0	2020	F	Network policy
	009030001400249	(Replace Deck - HDOT)	501	86.66	\$0.00	0	2020	F	Network policy
	003000920400480(Replace Joints - HDOT)	009030001400249 (Replace Joints - HDOT)	501	86.66	\$0.00	0	2020	F	Network policy
	009030001400249	(Rehab Substructure - HDOT, Paint Structure - HDOT)	501	86.66	\$0.00	0	2020	F	Network policy
	009030001400249	(Repair Superstructure - HDOT)	501	86.66	\$0.00	0	2020	F	Network policy
	009030001400249	(Deck Overlay & Repair - HDOT, Repair Superstructure - HDOT)	501	86.66	\$0.00	0	2020	F	Minimum cost violation
	009030001400249	(Deck Overlay & Repair - HDOT, Rehab Superstructure - HDOT)	501						
	009030001400249	(Repair Superstructure - HDOT, Paint Structure - HDOT)	501						
	009030001400249	(Deck Overlay & Repair - HDOT, Seismic Retrofit - HDOT)	501						
	009030001400249	(Repair Joints - HDOT)	501	86.66	\$0.00	0	2020	F	Network policy

BrM 6.4 and above



# ACTION FREQUENCY

EXPECTED ACTION DOES NOT APPEAR

Analysis > LCCA

Sel.	Short-Term Work Item	Action	Base Utility	Utility (Change)	Condition (Change)	LifeCycle (Change)	Cost	Benefit / Cost (\$k)	Cost (\$k) / Benefit ▲	Target Year
	Last inspection		88.64	88.64 (0.00)	86.55 (0.00)	100.00 (0.00)	\$0			
<input type="checkbox"/>	System Generated	Place Wearing Surface - Network	88.64	88.64 (0.00)	86.55 (0.00)	100.00 (0.00)	\$20,358			2020
<input type="checkbox"/>	System Generated	Deck Overlay - HDOT	88.64	88.64 (0.00)	86.55 (0.00)	100.00 (0.00)	\$118,237			2020
<input type="checkbox"/>	System Generated	Replace Steel Super - HDOT	88.64	88.64 (0.00)	86.55 (0.00)	100.00 (0.00)	\$127,642			2020
<input type="checkbox"/>	System Generated	Deck Overlay & Repair - HDOT	88.64	88.64 (0.00)	86.55 (0.00)	100.00 (0.00)	\$134,360			2020
<input type="checkbox"/>	System Generated	Replace Substructure - HDOT	88.64	87.84 (-0.80)	86.55 (0.00)	97.35 (-2.65)	\$268,720	-0.03	-\$336	2020
<input type="checkbox"/>	System Generated	Replace Structure - HDOT	88.64	76.97 (-11.67)	91.00 (4.45)	55.18 (-44.82)	\$1,976,619	-0.0059	-\$169	2020
<input type="checkbox"/>	System Generated	Rehab Substructure - HDOT	88.64	83.76 (-4.88)	86.55 (0.00)	83.76 (-16.24)	\$806,160	-0.0061	-\$165	2020
<input type="checkbox"/>	System Generated	Rehab Superstructure - HDOT	88.64	83.76 (-4.88)	86.55 (0.00)	83.76 (-16.24)	\$806,160	-0.0061	-\$165	2020
<input type="checkbox"/>	System Generated	Test Replace - HDOT	88.64	90.42 (1.78)	91.00 (4.45)	100.00 (0.00)	\$672	2.6496	\$0	2020
<input type="checkbox"/>	System Generated	Replace Super - Network	88.64	89.62 (0.98)	89.00 (2.45)	100.00 (0.00)	\$34,800	.0282	\$36	2020
<input type="checkbox"/>	System Generated	Replace Deck - Network	88.64	89.41 (0.77)	88.48 (1.93)	100.00 (0.00)	\$43,500	.0177	\$56	2020
<input type="checkbox"/>	System Generated	Replace Concrete Super - HDOT	88.64	89.62 (0.98)	89.00 (2.45)	100.00 (0.00)	\$94,052	.0104	\$96	2020
<input type="checkbox"/>	System Generated	Replace Superstructure - HDOT	88.64	89.54 (0.90)	89.00 (2.45)	99.74 (-0.26)	\$201,540	.0045	\$224	2020
<input type="checkbox"/>	System Generated	Replace Deck - HDOT	88.64	89.23 (0.59)	88.48 (1.93)	99.39 (-0.61)	\$201,540	.0029	\$342	2020
<input type="checkbox"/>	System Generated	Replace Structure -	88.64	89.51 (0.87)	91.00 (4.45)	96.97 (-3.03)	\$322,464	.0027	\$371	2020

GET RESULTS

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# ACTION FREQUENCY

EXPECTED ACTION DOES NOT APPEAR

Analysis > LCCA

Sel.	Short-Term Work Item	Action	Base Utility	Utility (Change)	Condition (Change)	LifeCycle (Change)	Cost	Benefit / Cost (\$k)	Cost (\$k) / Benefit ▲	Target Year
		Last inspection	88.64	88.64 (0.00)	86.55 (0.00)	100.00 (0.00)	\$0			
<input type="checkbox"/>	System Generated	Place Wearing Surface - Network	88.64	88.64 (0.00)	86.55 (0.00)	100.00 (0.00)	\$20,358			2020
<input type="checkbox"/>	System Generated	Deck Overlay - HDOT	88.64	88.64 (0.00)	86.55 (0.00)	100.00 (0.00)	\$118,237			2020
<input type="checkbox"/>	System Generated	Replace Steel Super - HDOT	88.64	88.64 (0.00)	86.55 (0.00)	100.00 (0.00)	\$127,642			2020
<input type="checkbox"/>	System Generated	Deck Overlay & Repair - HDOT	88.64	88.64 (0.00)	86.55 (0.00)	100.00 (0.00)	\$134,360			2020
<input type="checkbox"/>	System Generated	Replace Substructure - HDOT	88.64	87.84 (-0.80)	86.55 (0.00)	97.35 (-2.65)	\$268,720	-0.03	-\$336	2020
<input type="checkbox"/>	System Generated	Replace Structure - HDOT	88.64	76.97 (-11.67)	91.00 (4.45)	55.18 (-44.82)	\$1,976,619	-0.0059	-\$169	2020
<input type="checkbox"/>	System Generated	Rehab Substructure - HDOT	88.64	83.76 (-4.88)	86.55 (0.00)	83.76 (-16.24)	\$806,160	-0.0061	-\$165	2020
<input type="checkbox"/>	System Generated	Rehab Superstructure - HDOT	88.64	83.76 (-4.88)	86.55 (0.00)	83.76 (-16.24)	\$806,160	-0.0061	-\$165	2020
<input type="checkbox"/>	System Generated	Test Replace - HDOT	88.64	90.42 (1.78)	91.00 (4.45)	100.00 (0.00)	\$672	2.6496	\$0	2020
<input type="checkbox"/>	System Generated	Replace Super - Network	88.64	89.62 (0.98)	89.00 (2.45)	100.00 (0.00)	\$34,800	.0282	\$36	2020
<input type="checkbox"/>	System Generated	Replace Deck - Network	88.64	89.41 (0.77)	88.48 (1.93)	100.00 (0.00)	\$43,500	.0177	\$56	2020
<input type="checkbox"/>	System Generated	Replace Concrete Super - HDOT	88.64	89.62 (0.98)	89.00 (2.45)	100.00 (0.00)	\$94,052	.0104	\$96	2020
<input type="checkbox"/>	System Generated	Replace Superstructure - HDOT	88.64	89.54 (0.90)	89.00 (2.45)	99.74 (-0.26)	\$201,540	.0045	\$224	2020
<input type="checkbox"/>	System Generated	Replace Deck - HDOT	88.64	89.23 (0.59)	88.48 (1.93)	99.39 (-0.61)	\$201,540	.0029	\$342	2020
<input type="checkbox"/>	System Generated	Replace Structure -	88.64	89.51 (0.87)	91.00 (4.45)	96.97 (-3.03)	\$322,464	.0027	\$371	2020

GET RESULTS

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GET RESULTS

CONSIDER COSTS

ACTION FREQUENCY

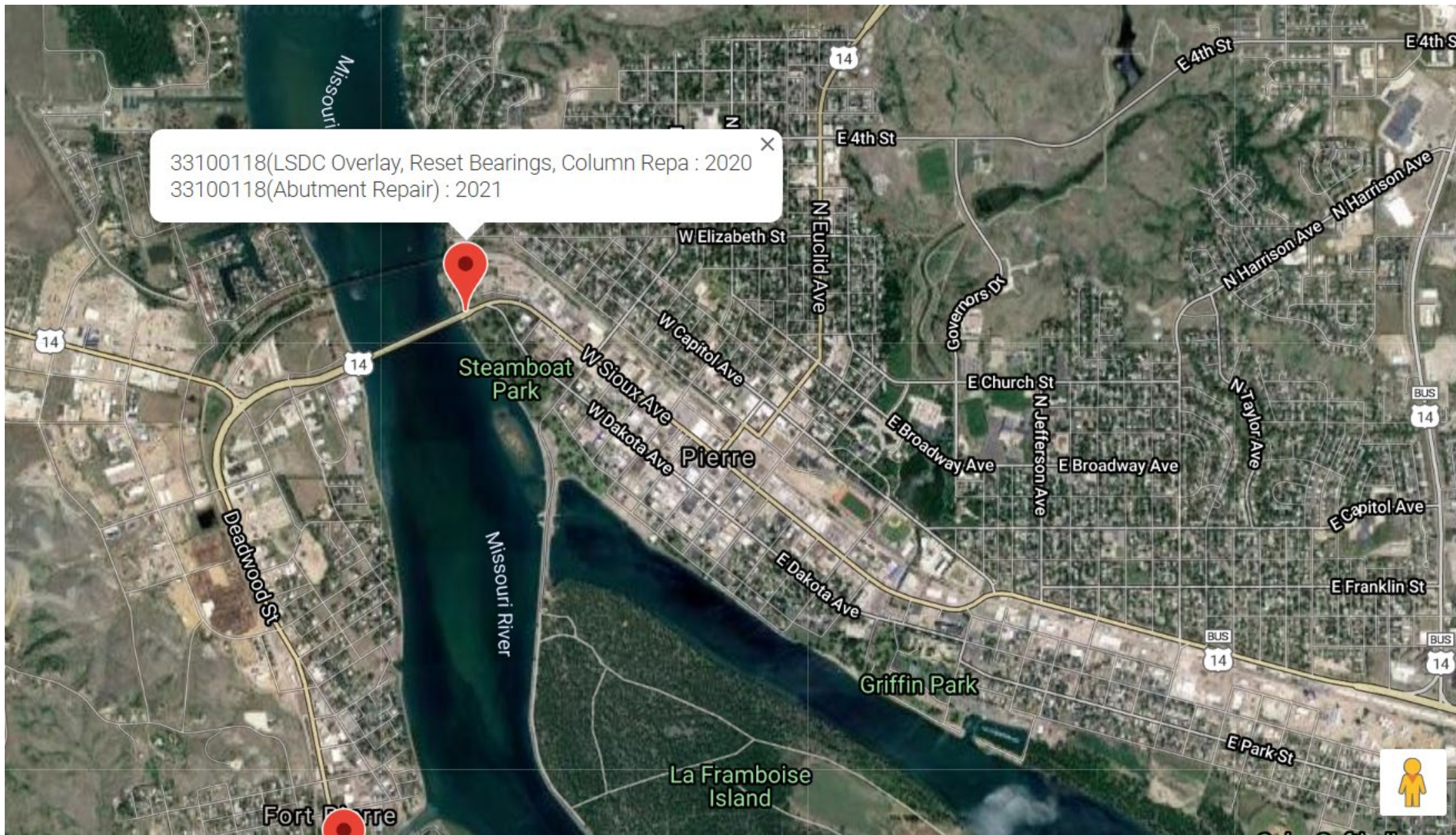
DEFERMENT RULES

DETERIORATION RATES

COMPARE SCENARIOS

# DEFERMENT RULES

# DEFERMENT RULES



GET RESULTS

CONSIDER COSTS

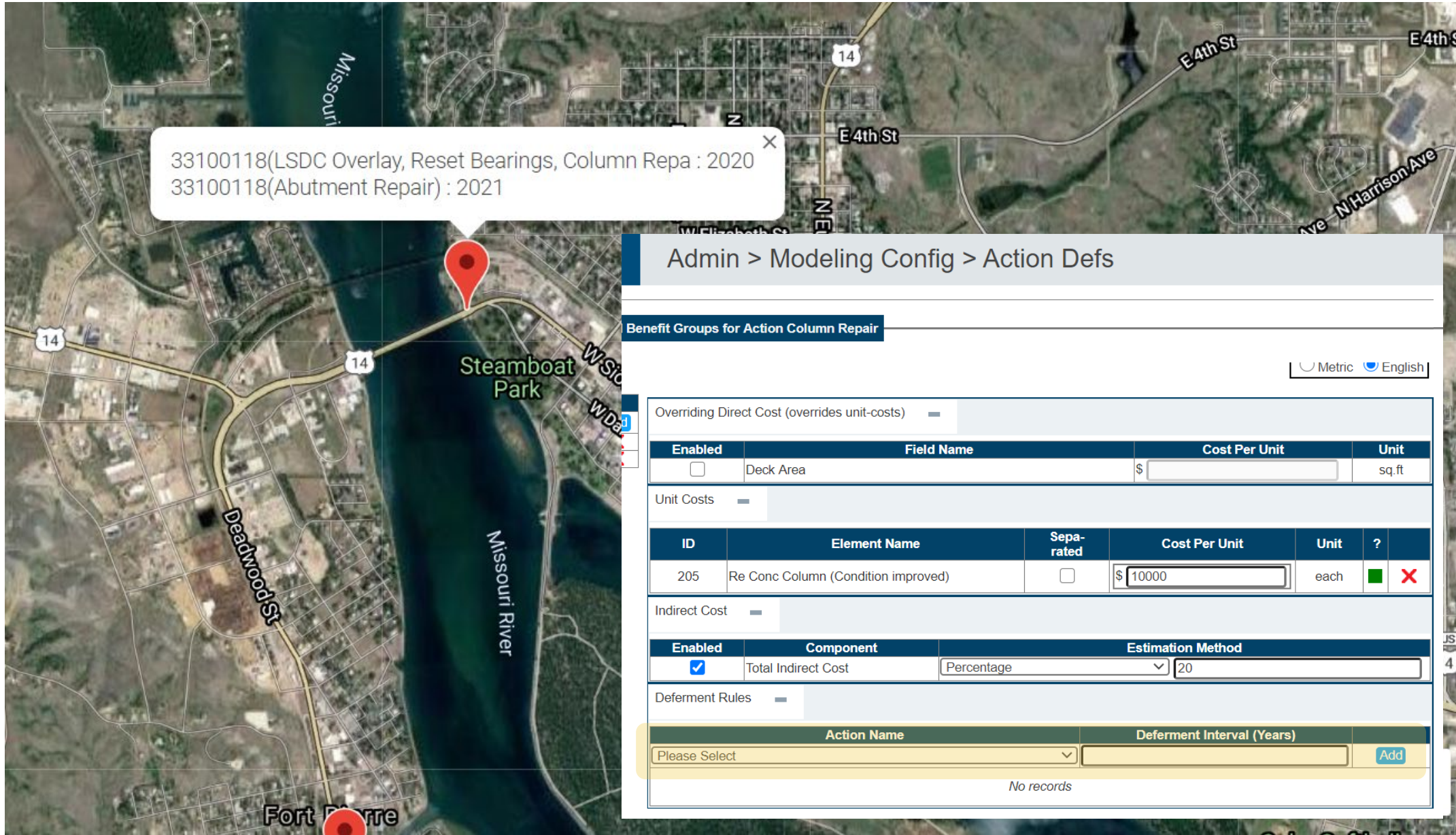
ACTION FREQUENCY

DEFERMENT RULES

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# DEFERMENT RULES



GET RESULTS

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Admin > Modeling Config > Action Defs

Benefit Groups for Action Column Repair

Metric English

Overriding Direct Cost (overrides unit-costs) -

Enabled	Field Name	Cost Per Unit	Unit
<input type="checkbox"/>	Deck Area	\$	sq.ft

Unit Costs -

ID	Element Name	Separated	Cost Per Unit	Unit	?
205	Re Conc Column (Condition improved)	<input type="checkbox"/>	\$ 10000	each	<input checked="" type="checkbox"/>

Indirect Cost -

Enabled	Component	Estimation Method
<input checked="" type="checkbox"/>	Total Indirect Cost	Percentage 20

Deferment Rules -

Action Name	Deferment Interval (Years)
Please Select	

No records



# DEFERMENT RULES

GET RESULTS

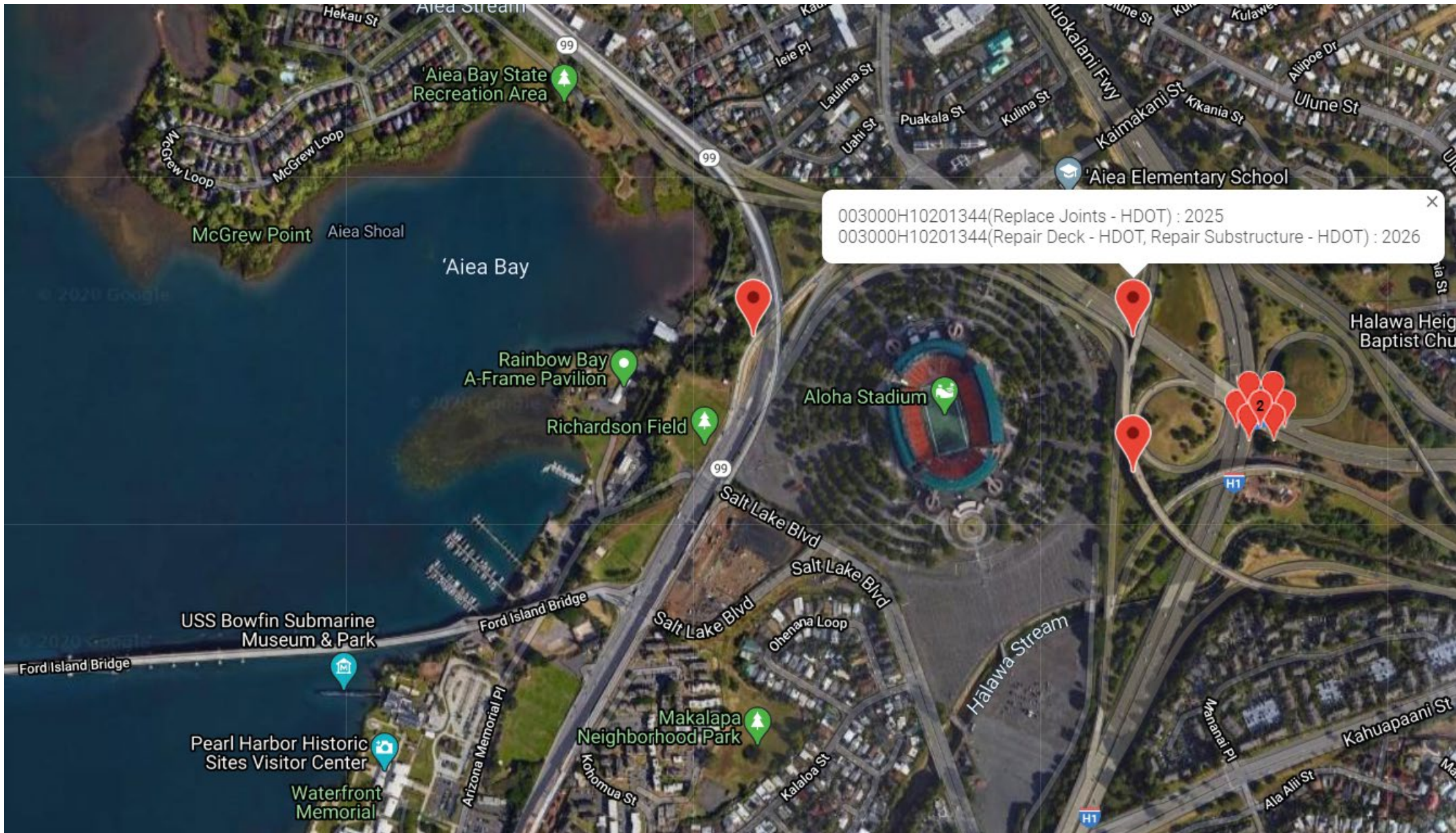
CONSIDER COSTS

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# DEFERMENT RULES

GET RESULTS

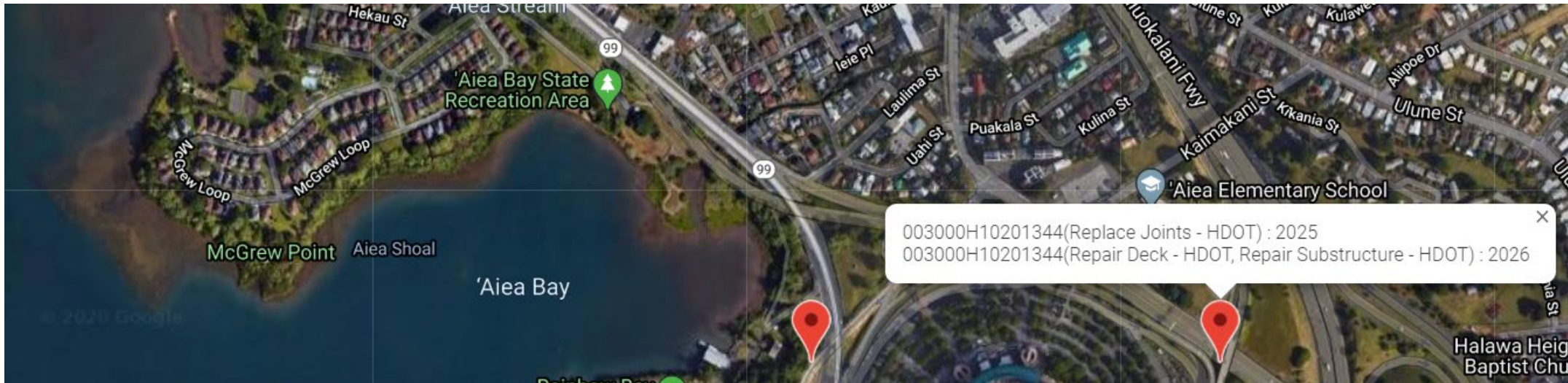
CONSIDER COSTS

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Selected Project:

Projects > Create / Edit Project > Management

<b>Indirect Cost</b> Entered: <input type="text" value="0.00"/> %		<b>Project Cost</b> Direct Cost: \$44,000    Other Costs: <input type="text" value="0"/>	
Indirect Cost: \$0		Total Cost: \$44,000	

[Recalculate](#)

**Programs**

Program Name	Program ID	Program's Start Date	Program's End Date	Description	Scenario Name	Target Year	Program Frozen	Year Frozen
NHS Bridges	DDD93AB7EC5B43938CFC57D73F4A0C86	01/01/2020	12/31/2029		\$30M per year	2025	<input type="checkbox"/>	<input type="checkbox"/>

[Add New](#)



GET RESULTS

CONSIDER  
COSTS

ACTION  
FREQUENCY

DEFERMENT  
RULES

DETERIORATION  
RATES

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# DETERIORATION RATES

# DETERIORATION RATES

GET RESULTS

CONSIDER COSTS

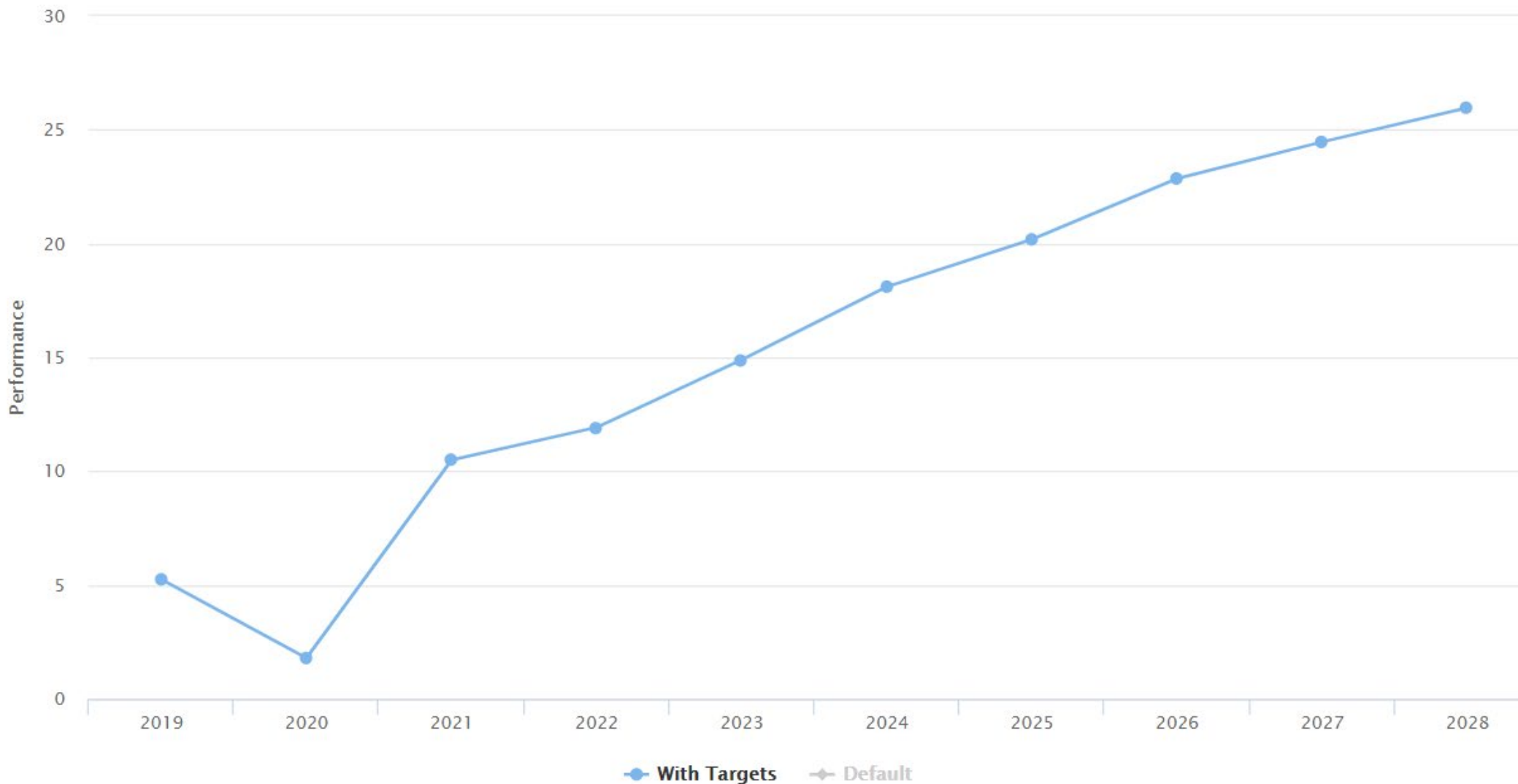
ACTION FREQUENCY

DEFERMENT RULES

DETERIORATION RATES

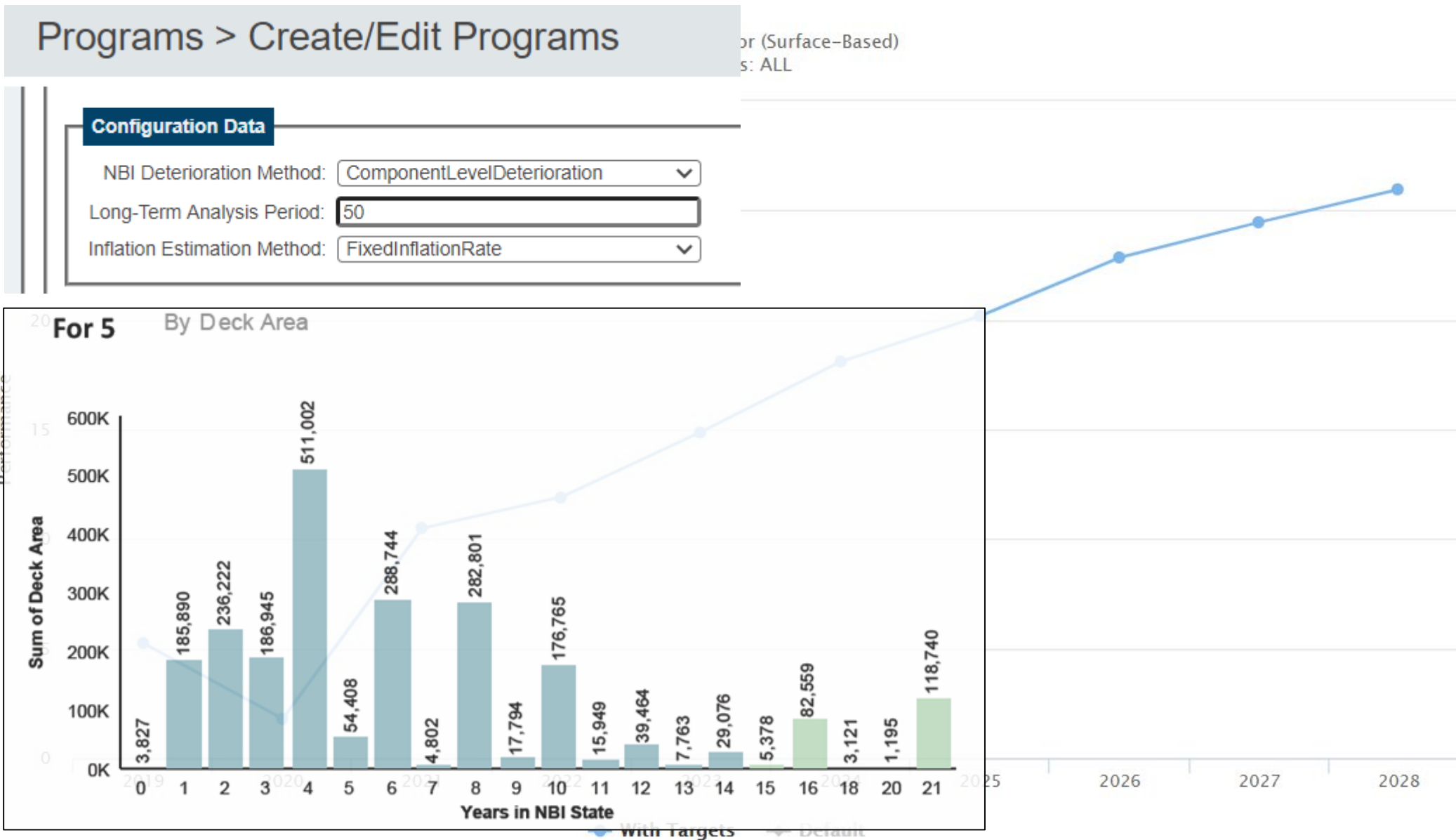
COMPARE SCENARIOS

Performance: Pct. Poor (Surface-Based)  
Segments: ALL



# DETERIORATION RATES

GET RESULTS  
 CONSIDER COSTS  
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 COMPARE SCENARIOS



# DETERIORATION RATES

GET RESULTS  
 CONSIDER COSTS  
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## Programs > Create/Edit Programs

### Configuration Data

NBI Deterioration Method:

Long-Term Analysis Period:

Inflation Estimation Method:

### Transition Times

* NBI Rating 9:	<input type="text" value="2"/>	Years
* NBI Rating 8:	<input type="text" value="4"/>	Years
* NBI Rating 7:	<input type="text" value="24"/>	Years
* NBI Rating 6:	<input type="text" value="16"/>	Years
* NBI Rating 5:	<input type="text" value="17"/>	Years
* NBI Rating 4:	<input type="text" value="14"/>	Years
* NBI Rating 3:	<input type="text" value="4"/>	Years
* NBI Rating 2:	<input type="text" value="0"/>	Years
* NBI Rating 1:	<input type="text" value="0"/>	Years

### For 5 By Deck Area

Years in NBI State	Sum of Deck Area
0	3,827
1	185,890
2	236,222
3	186,945
4	511,002
5	54,408
6	288,744
7	4,802
8	282,801
9	17,794
10	176,765
11	15,949
12	39,464
13	7,763
14	29,076
15	5,378
16	82,559
18	3,121
20	1,195
21	118,740

# DETERIORATION RATES

GET RESULTS

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Performance: Pct. Po  
Segment

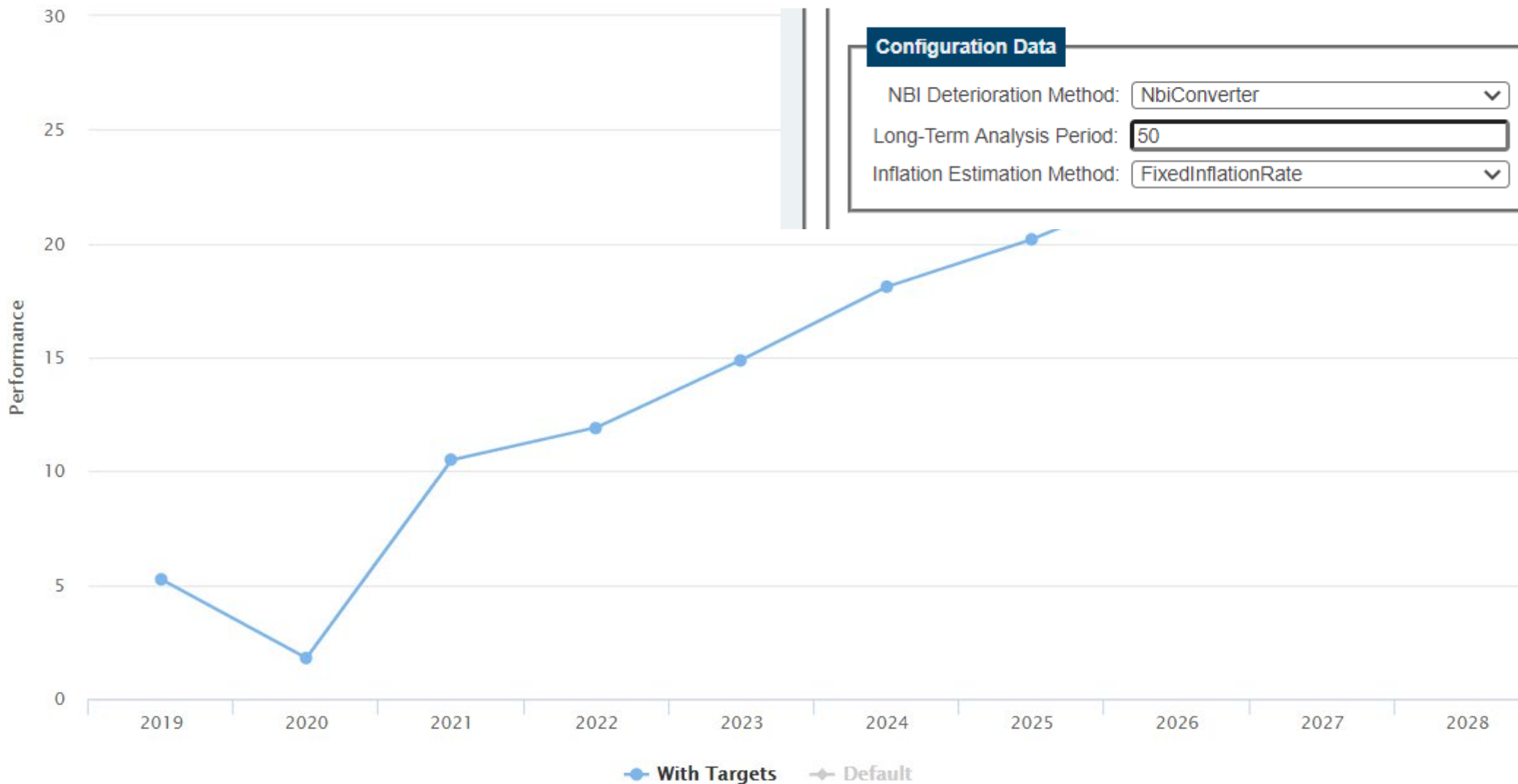
Programs > Create/Edit Programs

**Configuration Data**

NBI Deterioration Method: NbiConverter

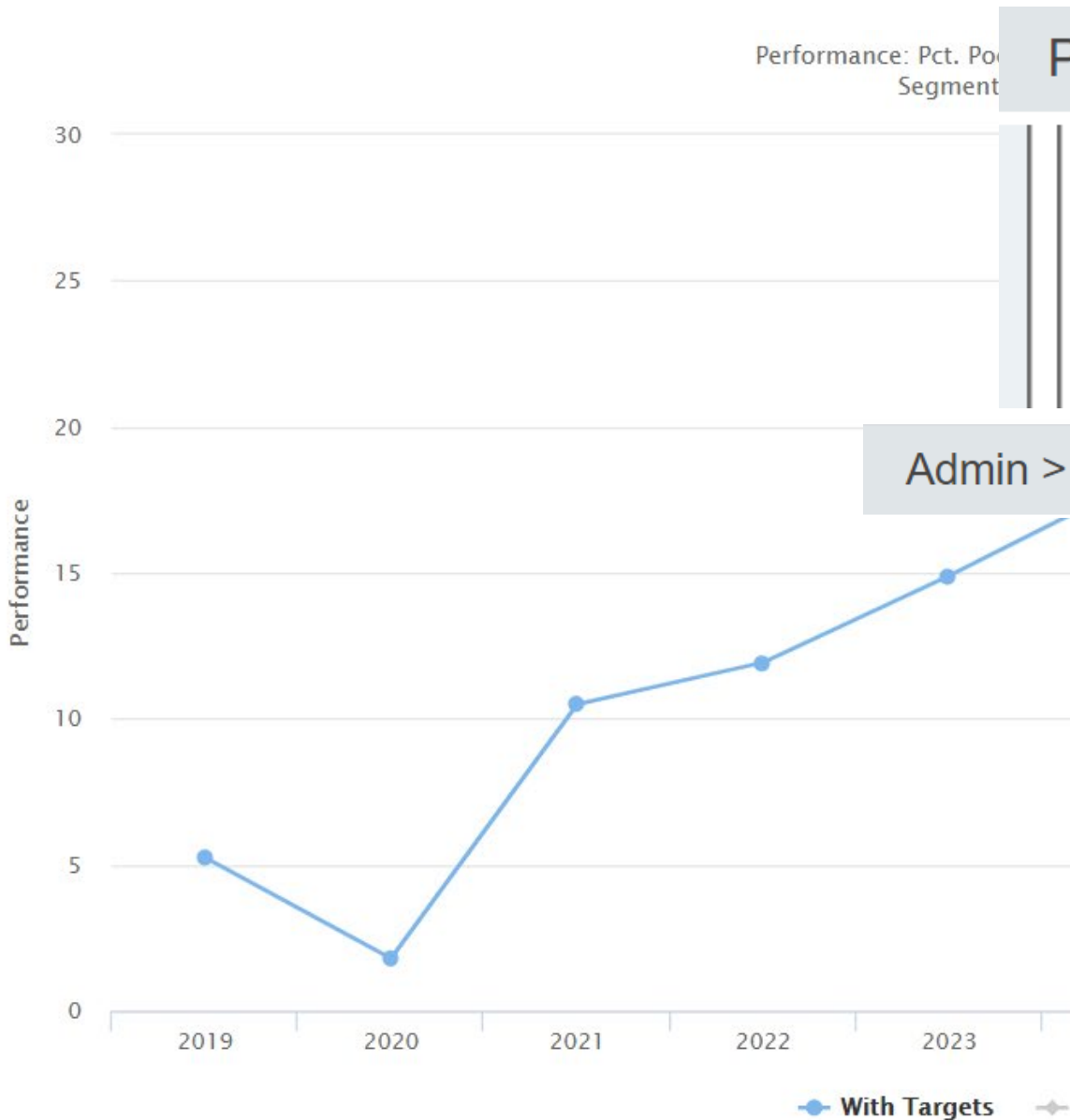
Long-Term Analysis Period: 50

Inflation Estimation Method: FixedInflationRate



# DETERIORATION RATES

GET RESULTS  
 CONSIDER COSTS  
 ACTION FREQUENCY  
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 COMPARE SCENARIOS



Programs > Create/Edit Programs

**Configuration Data**

NBI Deterioration Method: NbiConverter

Long-Term Analysis Period: 50

Inflation Estimation Method: FixedInflationRate

Admin > Modeling Config > NBI Conversion Profiles

**Deck Specific CS Upper Limits**

Group enabled

Method of CS average: Element weight

NBI	Enabled	CS1 %	CS2 %	CS3 %	CS4 %
9	<input type="checkbox"/>				
8	<input checked="" type="checkbox"/>		5	5	1
7	<input checked="" type="checkbox"/>		20	5	2
6	<input checked="" type="checkbox"/>			10	3
5	<input checked="" type="checkbox"/>			85	5
4	<input checked="" type="checkbox"/>				15
3	<input checked="" type="checkbox"/>				100
2	<input type="checkbox"/>				



# DETERIORATION RATES

GET RESULTS

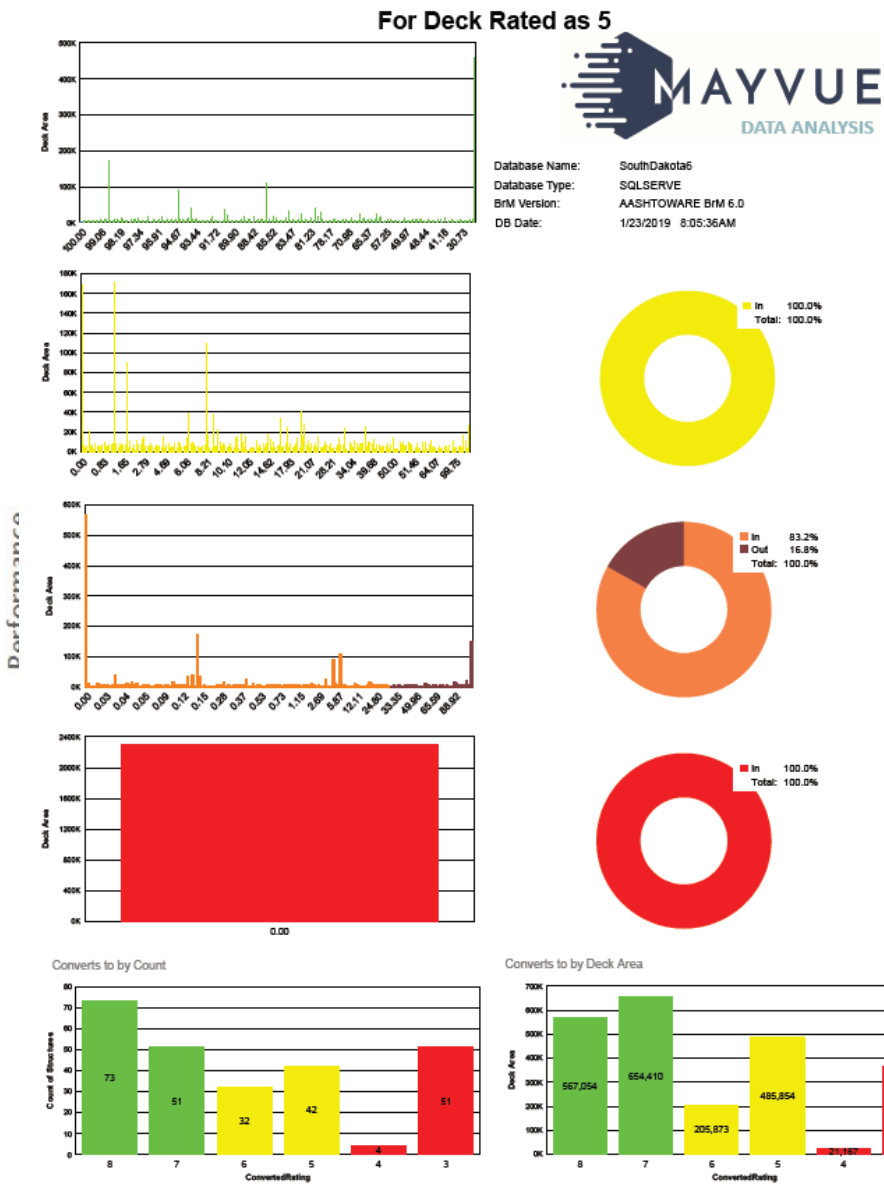
CONSIDER COSTS

ACTION FREQUENCY

DEFERMENT RULES

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Pct. Po  
egment

## Programs > Create/Edit Programs

### Configuration Data

NBI Deterioration Method: NbiConverter

Long-Term Analysis Period: 50

Inflation Estimation Method: FixedInflationRate

## Admin > Modeling Config > NBI Conversion Profiles

### Deck Specific CS Upper Limits

Group enabled

Method of CS average: Element weight

NBI	Enabled	CS1 %	CS2 %	CS3 %	CS4 %
9	<input type="checkbox"/>				
8	<input checked="" type="checkbox"/>		5	5	1
7	<input checked="" type="checkbox"/>		20	5	2
6	<input checked="" type="checkbox"/>			10	3
5	<input checked="" type="checkbox"/>			85	5
4	<input checked="" type="checkbox"/>				15
3	<input checked="" type="checkbox"/>				100

202  
arg

# DETERIORATION RATES

GET RESULTS

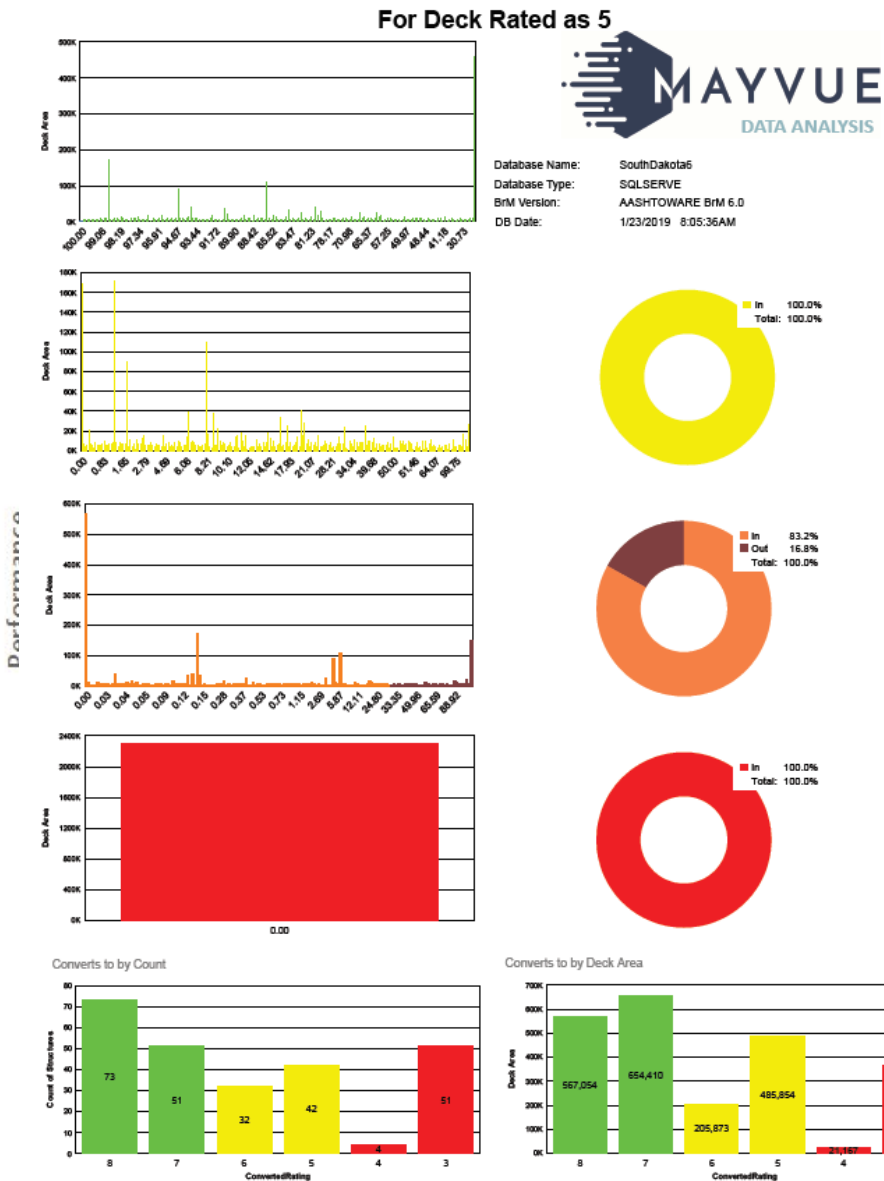
CONSIDER COSTS

ACTION FREQUENCY

DEFERMENT RULES

DETERIORATION RATES

COMPARE SCENARIOS



Pct. Po  
egment

## Programs > Create/Edit Programs

### Configuration Data

NBI Deterioration Method:

Long-Term Analysis Period:

Inflation Estimation Method:

## Admin > Modeling Config > NBI Conversion Profiles

### Deck Specific CS Upper Limits

Group enabled

Method of CS average

NBI	Enabled	CS1 %	CS2 %	CS3 %	CS4 %
9	<input type="checkbox"/>				
8	<input checked="" type="checkbox"/>		5	5	1
7	<input checked="" type="checkbox"/>		20	5	2
6	<input checked="" type="checkbox"/>			10	3
5	<input checked="" type="checkbox"/>			85	5
4	<input checked="" type="checkbox"/>				15
3	<input checked="" type="checkbox"/>				100

202  
arg



GET RESULTS

CONSIDER COSTS

ACTION FREQUENCY

DEFERMENT RULES

DETERIORATION RATES

COMPARE SCENARIOS

# COMPARE SCENARIOS

# COMPARE SCENARIOS

GET RESULTS

CONSIDER COSTS

ACTION FREQUENCY

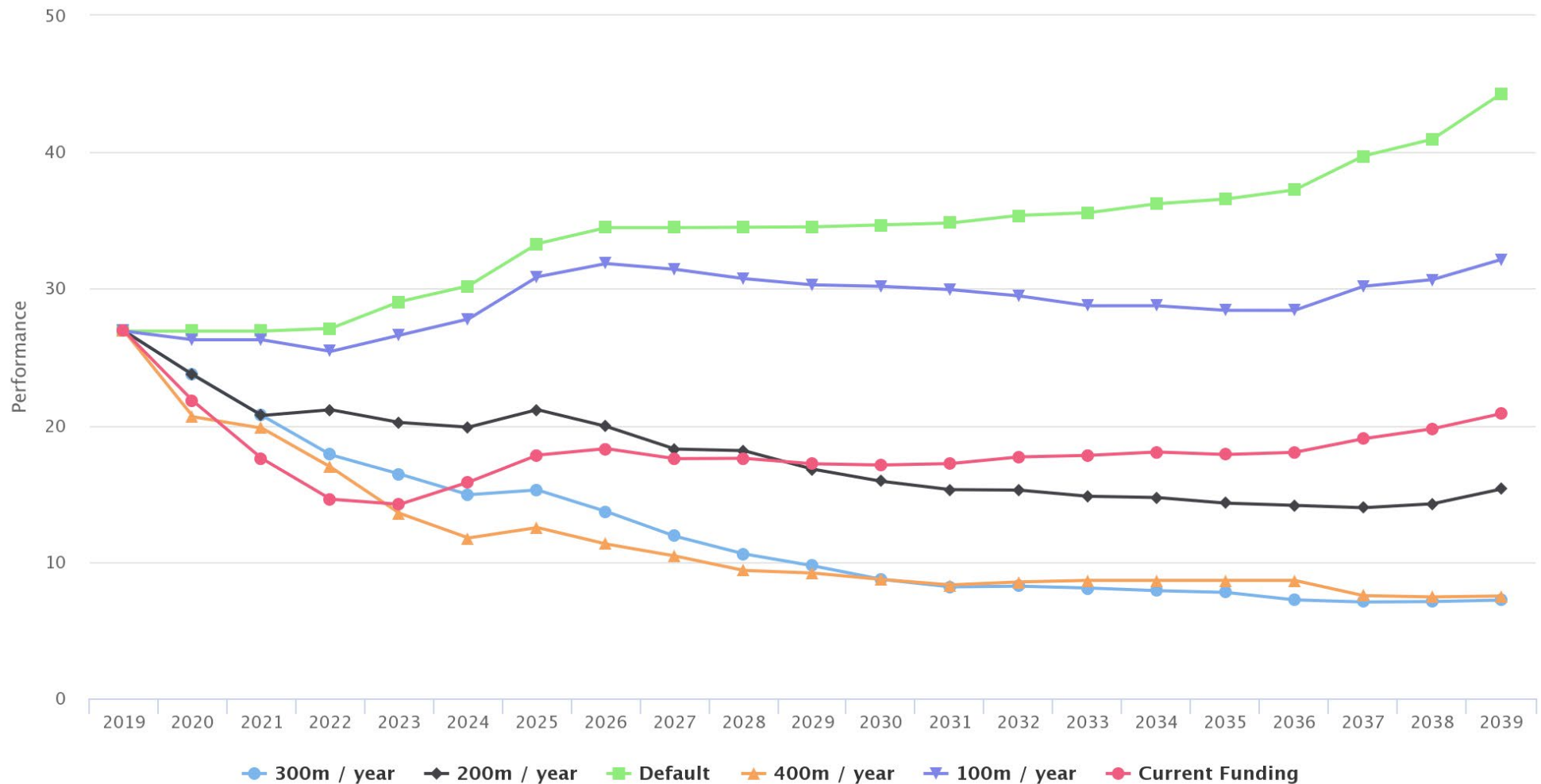
DEFERMENT RULES

DETERIORATION RATES

COMPARE SCENARIOS

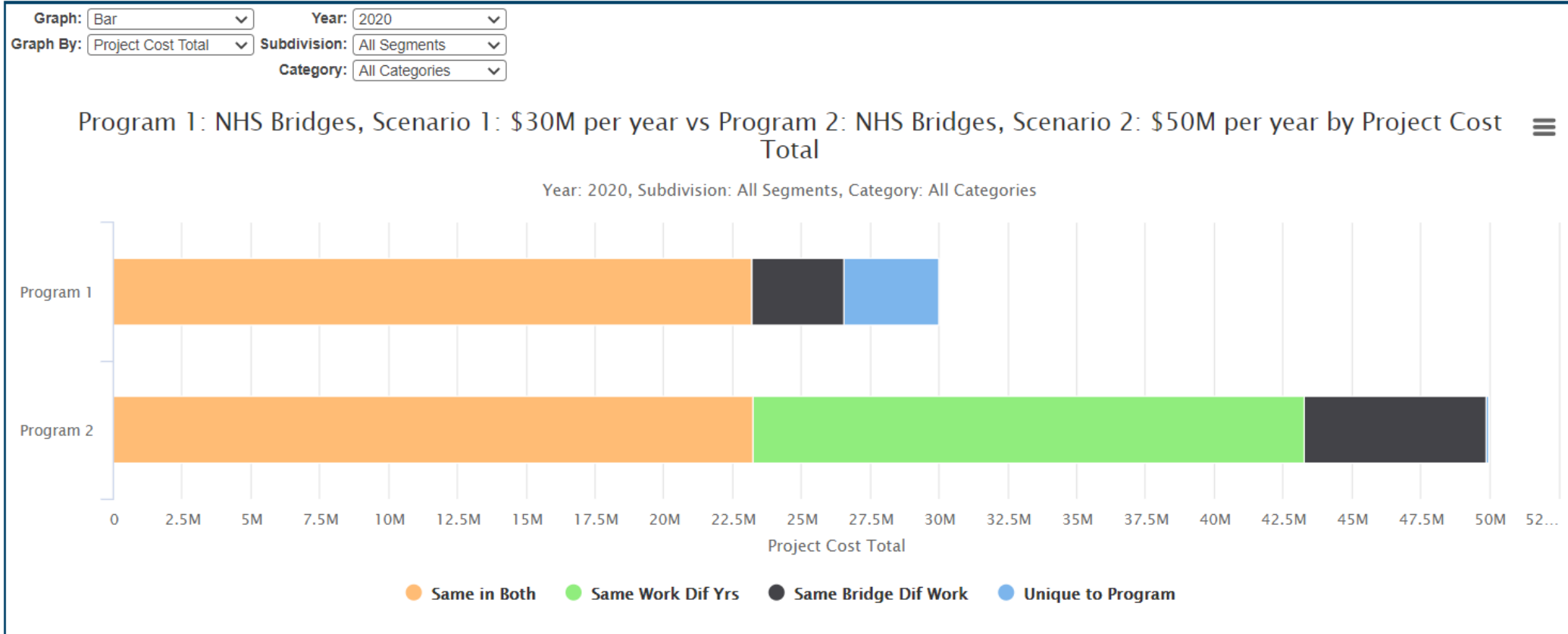
## Performance

Performance: Pct. Poor (Surface-Based)  
Segments: ALL



# COMPARE SCENARIOS

Programs > Program Comparison



## Data

- [Expand All](#) [Collapse All](#)
- ▶ Same In Both Programs (51)
  - ▶ Same Bridge & Work, Different Years (74)
  - ▶ Same Structure Different Work (54)
  - ▶ Unique to Program 1 (20)

GET RESULTS

CONSIDER COSTS

ACTION FREQUENCY

DEFERMENT RULES

DETERIORATION RATES

COMPARE SCENARIOS

# CONTACT



ZACHARY BOYLE  
zac.boyle@mayvue.com  
Text | Voicemail | (801) 450-9716

BrM@mayvue.com  
Support | 1-888-44-SUPPORT  
1-888-447-8777  
General | 1-877-462-9883



 Jira Service Desk  
<http://support.mayvue.com>

