

Percent Mobilization by Improvement Strategies

2014 -2018



The following tables summarize the mobilization according to improvement strategies based on five years of data from January 2014 to December 2018. The tables are separated by improvement strategies for bridge and roadway proposals. The improvement strategies are classified in [FDM 11-1, Attachment 10.1](#).

The tables below include all projects of varying sizes for each improvement strategy. Expected values do vary depending upon the amount spent on the project. Small and large projects typically will have higher mobilization costs than mid-size projects. Expected Range and Typical Middle Value is defined in the Appendix.

The [Similar Projects Tool](#) allows the sorting of 5 years of data by a number of criteria including improvement type, region, project size and date of the project. The similar projects tool can be found on the [Estimating Tools Page](#).

All Work Types	\$ 0.5M or less	\$ 0.5M to \$ 1M	\$ 1M to \$ 2M	\$ 2M to \$ 10M	\$ 10M to \$ 20M	\$20M or more
Sample Size:	343	245	258	405	71	41
Expected Range (lower limit):	6.80%	3.90%	2.83%	2.80%	2.85%	3.80%
Typical Middle Value:	9.60%	6.80%	5.05%	4.30%	5.00%	5.50%
Expected Range (upper limit):	13.25%	9.40%	8.58%	6.40%	7.05%	7.50%

Bridge Rehabilitation	\$ 0.5M or less	\$ 0.5M to \$ 1M	\$ 1M to \$ 2M	\$ 2M to \$ 10M		
Sample Size:	37	34	35	34		
Expected Range (lower limit):	7.50%	8.65%	7.30%	4.63%		
Typical Middle Value:	12.70%	10.80%	8.70%	7.85%		
Expected Range (upper limit):	17.90%	15.30%	11.85%	9.53%		

Bridge Replacement	\$ 0.5M or less	\$ 0.5M to \$ 1M	\$ 1M to \$ 2M	\$ 2M to \$ 10M	\$ 10M to \$ 20M	
Sample Size:	146	86	33	36	8	
Expected Range (lower limit):	7.50%	5.63%	6.20%	5.03%	5.00%	
Typical Middle Value:	9.65%	7.20%	7.70%	6.30%	5.85%	
Expected Range (upper limit):	12.65%	8.65%	9.40%	7.90%	6.70%	

Roadway Perpetuation (Resurfacing & Preservation/Restoration)	\$ 0.5M or less	\$ 0.5M to \$ 1M	\$ 1M to \$ 2M	\$ 2M to \$ 10M	\$ 10M to \$ 20M	
Sample Size:	20	45	86	136	13	
Expected Range (lower limit):	3.95%	1.90%	1.80%	2.80%	4.20%	
Typical Middle Value:	7.37%	4.30%	3.45%	4.10%	5.60%	
Expected Range (upper limit):	10.55%	7.70%	5.68%	5.73%	7.90%	

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Roadway Rehabilitation (Reconditioning & Pavement Replacement)	\$ 0.5M or less	\$ 0.5M to \$ 1M	\$ 1M to \$ 2M	\$ 2M to \$ 10M	\$ 10M to \$ 20M	
Sample Size:	13	13	18	48	11	
Expected Range (lower limit):	7.80%	3.10%	1.45%	2.20%	2.00%	
Typical Middle Value:	10.70%	4.60%	3.70%	3.35%	5.20%	
Expected Range (upper limit):	12.60%	7.20%	5.95%	5.30%	7.05%	

Roadway Modernization (Reconstruction & Expansion)	\$ 0.5M or less	\$ 0.5M to \$ 1M	\$ 1M to \$ 2M	\$ 2M to \$ 10M	\$ 10M to \$ 20M	\$20M or more
Sample Size:	21	15	42	118	33	33
Expected Range (lower limit):	7.30%	4.25%	1.88%	2.70%	2.80%	4.00%
Typical Middle Value:	8.60%	6.50%	3.70%	4.05%	4.80%	5.80%
Expected Range (upper limit):	10.70%	7.75%	5.20%	5.38%	6.70%	7.64%

Appendix

Sample Size: Number of projects used to calculate the median.

Typical Middle Value: Median, or 50% of the values in the sample size are above this value and 50% are below this value.

Expected Range: Quartiles 1 and 3, or the remaining range of Mobilization percentages after 25% of the highest values and 25% of the lowest values have been removed.