Three Year Engineering Factors

Engineering Costs per Total Construction Costs

Calculations:

Projects completed in the time frame are tabulated and

categorized by primary work type and district. Excludes payment projects, right of way only projects, and other

projects without actual construction costs.

Report Key:

Projects are group first by Work Types, and then work types are used to group projects into categories:

qry01MakeKey

qi y o i i vi a ke ke y		projects without actual construction costs.
Category	Work Type	
MAJOR PROJECT	A- ADD LANES	Within each line item, all projects are totaled and then
MAJOR PROJECT	D- DUAL DIVIDED	converted to percentages, based on the actual
MAJOR PROJECT	F- FREEWAY	construction amount (actual CN). Not based on the
MAJOR PROJECT	I- INTERCHANGE	actual total amount (actual Total). Thus, estimated
MAJOR PROJECT	M- MAJOR BRIDGE	construction costs for a project can be used with
MAJOR PROJECT	T- NEW OR IMPROVED 2 LANE	factors in this report to estimate Engineering costs,
		which add up to total costs.
TCOS	1- ITS	
TCOS	B- BRIDGE REPLACEMENT	PE% = (actual PE) / (actual CN)
TCOS	G- PREV MAINT-BRIDGE	CE% = (actual CE) / (actual CN)
TCOS	H- HIGH TYPE RESURFACING	
TCOS	J- PREV MAINT-PAVEMENT	RW purchase = (actual land)
TCOS	K- MED TYPE RESURFACING	RW incidentals = (total actual RW) - (actual land)
TCOS	L- LOW TYPE RESURFACING	
TCOS	O- OTHER	RWp% = (actual land) / (actual CN)
TCOS	P- PAVEMENT REPLACEMENT	RWi% = (RW incidentals) / (actual CN)
TCOS	Q- CMAQ	
TCOS	R- BRIDGE REHABILITATION	Total (or Overall) =
TCOS	S- BRDG RETROFIT AND STR	(actual PE) + (actual CE) + (RW incidentals)
TCOS	X- SAFETY	
TCOS	Y- ROUTINE MAINTENANCE	(actual CN)
OTHER	E- ENHANCEMENTS	If a district has no completed projects of the work type,
OTHER	W- SHOULDER WIDENING	in the time frame, then the line item is removed from their table.

7/1/2011 - 6/30/2014 Statewide Totals

Nork Types Engineering Incidentals Inspection Engineering Purchases n= 1- ITS 3.76% 0.66% 39.38% 43.81% 0.44% 1 A- ADD LANES 6.78% 0.70% 3.08% 10.56% 10.70% 30 B- BRIDGE REPLACEMENT 10.03% 0.36% 8.97% 19.36% 1.54% 56 D- DUAL DIVIDED 7.24% 1.06% 6.88% 15.18% 13.67% 29 E- ENHANCEMENTS 5.86% 0.08% 9.69% 15.63% 0.49% 24 F- FREEWAY 13.65% 1.49% 5.61% 20.74% 36.33% 23 G- PREV MAINT-BRIDGE 3.39% 0.00% 5.72% 9.11% 0.00% 43 H- HIGH TYPE RESURFACING 1.71% 0.01% 5.65% 7.38% 0.00% 77 I- INTERCHANGE 4.18% 0.09% 6.70% 10.97% 2.51% 31 J- PREV MAINT-PAVEMENT 2.02% 0.10% 5.27% 6.29% 0.01%
A- ADD LANES 6.78% 0.70% 3.08% 10.56% 10.70% 30 B- BRIDGE REPLACEMENT 10.03% 0.36% 8.97% 19.36% 1.54% 56 D- DUAL DIVIDED 7.24% 1.06% 6.88% 15.18% 13.67% 29 E- ENHANCEMENTS 5.86% 0.08% 9.69% 15.63% 0.49% 24 F- FREEWAY 13.65% 1.49% 5.61% 20.74% 36.33% 23 G- PREV MAINT-BRIDGE 3.39% 0.00% 5.72% 9.11% 0.00% 43 H- HIGH TYPE RESURFACING 1.71% 0.01% 5.65% 7.38% 0.00% 77 I- INTERCHANGE 4.18% 0.09% 6.70% 10.97% 2.51% 31 J- PREV MAINT-PAVEMENT 2.02% 0.10% 6.46% 8.57% 0.14% 132 K- MED TYPE RESURFACING 1.01% 0.01% 5.27% 6.29% 0.01% 189 L- LOW TYPE RESURFACING 0.49% 0.00% 5.31% 5.80% 0.00% 190 M- MAJOR BRIDGE 3.49% 0.00% 4.03% 7.52% 0.00% 6
B- BRIDGE REPLACEMENT 10.03% 0.36% 8.97% 19.36% 1.54% 56 D- DUAL DIVIDED 7.24% 1.06% 6.88% 15.18% 13.67% 29 E- ENHANCEMENTS 5.86% 0.08% 9.69% 15.63% 0.49% 24 F- FREEWAY 13.65% 1.49% 5.61% 20.74% 36.33% 23 G- PREV MAINT-BRIDGE 3.39% 0.00% 5.72% 9.11% 0.00% 43 H- HIGH TYPE RESURFACING 1.71% 0.01% 5.65% 7.38% 0.00% 77 I- INTERCHANGE 4.18% 0.09% 6.70% 10.97% 2.51% 31 J- PREV MAINT-PAVEMENT 2.02% 0.10% 6.46% 8.57% 0.14% 132 K- MED TYPE RESURFACING 1.01% 0.01% 5.27% 6.29% 0.01% 189 L- LOW TYPE RESURFACING 0.49% 0.00% 5.31% 5.80% 0.00% 190 M- MAJOR BRIDGE 3.49% 0.00% 4.03% 7.
D- DUAL DIVIDED 7.24% 1.06% 6.88% 15.18% 13.67% 29 E- ENHANCEMENTS 5.86% 0.08% 9.69% 15.63% 0.49% 24 F- FREEWAY 13.65% 1.49% 5.61% 20.74% 36.33% 23 G- PREV MAINT-BRIDGE 3.39% 0.00% 5.72% 9.11% 0.00% 43 H- HIGH TYPE RESURFACING 1.71% 0.01% 5.65% 7.38% 0.00% 77 I- INTERCHANGE 4.18% 0.09% 6.70% 10.97% 2.51% 31 J- PREV MAINT-PAVEMENT 2.02% 0.10% 6.46% 8.57% 0.14% 132 K- MED TYPE RESURFACING 1.01% 0.01% 5.27% 6.29% 0.01% 189 L- LOW TYPE RESURFACING 0.49% 0.00% 5.31% 5.80% 0.00% 6 M- MAJOR BRIDGE 3.49% 0.00% 4.03% 7.52% 0.00% 6
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M- MAJOR BRIDGE 3.49% 0.00% 4.03% 7.52% 0.00% 6
31 13/0 0100/0 1103/0 7132/0 0100/0
O- OTHER 6.85% 0.33% 7.97% 15.15% 3.12% 99
P- PAVEMENT REPLACEMENT 1.93% 0.06% 6.01% 8.00% 0.19% 19
Q- CMAQ 4.84% 0.40% 10.72% 15.96% 3.73% 44
R- BRIDGE REHABILITATION 5.76% 0.12% 8.22% 14.10% 0.17% 115
S- BRDG RETROFIT AND STR 1.27% 0.00% 7.93% 9.19% 0.00% 2
T- NEW OR IMPROVED 2 LANE 5.11% 1.16% 8.40% 14.67% 7.86% 7
W- SHOULDER WIDENING 8.89% 0.00% 1.79% 10.68% 0.00% 1
X- SAFETY 7.04% 0.50% 9.58% 17.12% 5.56% 102
Y- ROUTINE MAINTENANCE 1.95% 0.00% 8.66% 10.61% 0.00% 22
5.23% 0.43% 5.95% 11.61% 6.29% 1,242

Work Type Categories	Preliminary Engineering	Right of Way Incidentals	Construction Inspection	Total Engineering	Right of Way Purchases	n=
MAJOR PROJECT	6.88%	0.73%	5.01%	12.63%	11.76%	126
TCOS	3.54%	0.12%	6.86%	10.52%	0.82%	1,091
OTHER	6.01%	0.08%	9.30%	15.38%	0.47%	25
	5.23%	0.43%	5.95%	11.61%	6.29%	1,242

7/1/2011 - 6/30/2014 By District

Northwest

Work Types	Preliminary Engineering	Right of Way Incidentals	Construction Inspection	Total Engineering	Right of Way Purchases	n=
B- BRIDGE REPLACEMENT	5.02%	0.05%	5.32%	10.38%	0.05%	3
G- PREV MAINT-BRIDGE	2.22%	0.00%	3.79%	6.00%	0.00%	3
H- HIGH TYPE RESURFACING	1.55%	0.13%	5.51%	7.19%	0.01%	7
J- PREV MAINT-PAVEMENT	1.14%	0.00%	5.24%	6.38%	0.00%	14
K- MED TYPE RESURFACING	1.42%	0.00%	5.14%	6.56%	0.00%	16
L- LOW TYPE RESURFACING	0.47%	0.00%	4.37%	4.84%	0.00%	27
O- OTHER	9.51%	0.64%	8.98%	19.14%	6.46%	3
P- PAVEMENT REPLACEMENT	0.07%	0.02%	3.46%	3.55%	0.00%	5
R- BRIDGE REHABILITATION	8.67%	0.00%	9.90%	18.57%	0.00%	12
X- SAFETY	16.67%	0.00%	24.05%	40.72%	0.00%	5
	2.88%	0.07%	5.78%	8.73%	0.30%	95

Work Type Categories	Preliminary Engineering	Right of Way Incidentals	Construction Inspection	Total Engineering	Right of Way Purchases	n=
TCOS	2.88%	0.07%	5.78%	8.73%	0.30%	95
	2.88%	0.07%	5.78%	8.73%	0.30%	95

7/1/2011 - 6/30/2014 By District

Northeast

Work Types	Preliminary Engineering	Right of Way Incidentals	Construction Inspection	Total Engineering	Right of Way Purchases	n=
B- BRIDGE REPLACEMENT	18.44%	0.24%	11.31%	29.99%	0.21%	3
D- DUAL DIVIDED	7.08%	0.63%	8.04%	15.76%	6.49%	2
G- PREV MAINT-BRIDGE	7.04%	0.00%	8.06%	15.10%	0.00%	9
H- HIGH TYPE RESURFACING	1.81%	0.00%	6.03%	7.84%	0.00%	10
J- PREV MAINT-PAVEMENT	0.81%	0.00%	4.38%	5.20%	0.00%	13
K- MED TYPE RESURFACING	3.32%	0.00%	9.39%	12.71%	0.00%	2
L- LOW TYPE RESURFACING	0.34%	0.00%	6.91%	7.24%	0.00%	41
O- OTHER	26.06%	1.82%	15.20%	43.07%	11.91%	9
R- BRIDGE REHABILITATION	4.15%	0.00%	13.77%	17.92%	0.00%	9
X- SAFETY	14.71%	0.67%	11.44%	26.82%	9.45%	5
Y- ROUTINE MAINTENANCE	0.00%	0.00%	66.67%	66.67%	0.00%	1
	4.90%	0.23%	8.08%	13.22%	2.18%	104

Work Type Categories	Preliminary Engineering	Right of Way Incidentals	Construction Inspection	Total Engineering	Right of Way Purchases	n=
MAJOR PROJECT	7.08%	0.63%	8.04%	15.76%	6.49%	2
TCOS	4.24%	0.11%	8.10%	12.44%	0.85%	102
	4.90%	0.23%	8.08%	13.22%	2.18%	104

7/1/2011 - 6/30/2014 By District

Kansas City

Work Types	Preliminary Engineering	Right of Way Incidentals	Construction Inspection	Total Engineering	Right of Way Purchases	n=
A- ADD LANES	13.60%	1.98%	8.69%	24.27%	5.57%	3
B- BRIDGE REPLACEMENT	11.67%	1.12%	11.23%	24.02%	5.02%	4
D- DUAL DIVIDED	14.06%	2.59%	7.13%	23.79%	18.92%	5
E- ENHANCEMENTS	1.14%	0.00%	24.15%	25.28%	0.00%	2
G- PREV MAINT-BRIDGE	6.45%	0.00%	7.39%	13.84%	0.00%	9
H- HIGH TYPE RESURFACING	2.53%	0.00%	5.06%	7.60%	0.00%	10
I- INTERCHANGE	2.37%	0.03%	5.91%	8.31%	1.75%	17
J- PREV MAINT-PAVEMENT	4.64%	0.46%	7.89%	12.99%	0.67%	15
K- MED TYPE RESURFACING	0.46%	0.00%	5.14%	5.60%	0.00%	14
L- LOW TYPE RESURFACING	0.91%	0.00%	5.97%	6.87%	0.00%	21
M- MAJOR BRIDGE	9.37%	0.00%	4.47%	13.84%	0.00%	2
O- OTHER	6.29%	0.10%	7.00%	13.39%	0.24%	18
P- PAVEMENT REPLACEMENT	0.86%	0.00%	5.27%	6.13%	0.00%	1
Q- CMAQ	0.82%	0.00%	9.80%	10.62%	0.00%	5
R- BRIDGE REHABILITATION	5.79%	0.32%	8.48%	14.58%	0.39%	26
X- SAFETY	10.41%	1.00%	10.15%	21.56%	6.41%	12
Y- ROUTINE MAINTENANCE	0.66%	0.00%	6.86%	7.52%	0.00%	3
	4.89%	0.47%	6.68%	12.04%	3.31%	167

Work Type Categories	Preliminary Engineering	Right of Way Incidentals	Construction Inspection	Total Engineering	Right of Way Purchases	n=
MAJOR PROJECT	5.81%	0.74%	6.34%	12.89%	5.98%	27
TCOS	4.02%	0.21%	6.99%	11.21%	0.78%	138
OTHER	1.14%	0.00%	24.15%	25.28%	0.00%	2
	4.89%	0.47%	6.68%	12.04%	3.31%	167

7/1/2011 - 6/30/2014 By District

Central

Work Types	Preliminary Engineering	Right of Way Incidentals	Construction Inspection	Total Engineering	Right of Way Purchases	n=
A- ADD LANES	8.32%	1.79%	8.21%	18.32%	19.77%	6
B- BRIDGE REPLACEMENT	16.11%	0.96%	12.34%	29.41%	1.22%	6
D- DUAL DIVIDED	5.98%	0.83%	6.80%	13.61%	16.15%	15
E- ENHANCEMENTS	0.85%	0.00%	9.96%	10.82%	0.00%	5
G- PREV MAINT-BRIDGE	2.27%	0.00%	9.97%	12.24%	0.00%	2
H- HIGH TYPE RESURFACING	0.70%	0.00%	5.71%	6.41%	0.00%	16
I- INTERCHANGE	16.63%	0.00%	7.80%	24.43%	0.00%	2
J- PREV MAINT-PAVEMENT	0.23%	0.00%	4.73%	4.96%	0.00%	33
K- MED TYPE RESURFACING	0.78%	0.00%	5.30%	6.08%	0.00%	17
L- LOW TYPE RESURFACING	0.32%	0.00%	4.85%	5.17%	0.00%	32
O- OTHER	1.14%	0.11%	14.76%	16.01%	0.03%	7
P- PAVEMENT REPLACEMENT	10.68%	0.63%	11.94%	23.25%	2.23%	5
R- BRIDGE REHABILITATION	6.24%	0.16%	9.05%	15.45%	0.35%	10
T- NEW OR IMPROVED 2 LANE	6.25%	0.00%	8.91%	15.16%	0.00%	1
X- SAFETY	5.53%	0.35%	10.46%	16.35%	0.98%	7
Y- ROUTINE MAINTENANCE	8.44%	0.00%	6.33%	14.77%	0.00%	2
	5.07%	0.63%	7.10%	12.80%	9.98%	166

Work Type Categories	Preliminary Engineering	Right of Way Incidentals	Construction Inspection	Total Engineering	Right of Way Purchases	n=
MAJOR PROJECT	6.73%	0.97%	7.11%	14.81%	16.21%	24
TCOS	2.57%	0.11%	6.92%	9.60%	0.23%	137
OTHER	0.85%	0.00%	9.96%	10.82%	0.00%	5
	5.07%	0.63%	7.10%	12.80%	9.98%	166

7/1/2011 - 6/30/2014 By District

St. Louis

Work Types	Preliminary Engineering	Right of Way Incidentals	Construction Inspection	Total Engineering	Right of Way Purchases	n=
A- ADD LANES	6.66%	0.45%	1.57%	8.68%	9.92%	7
B- BRIDGE REPLACEMENT	10.40%	0.18%	11.00%	21.58%	0.07%	11
D- DUAL DIVIDED	18.90%	2.51%	8.84%	30.25%	37.04%	1
E- ENHANCEMENTS	8.56%	0.00%	14.81%	23.37%	0.00%	3
F- FREEWAY	17.97%	2.36%	5.18%	25.51%	59.39%	4
G- PREV MAINT-BRIDGE	0.15%	0.00%	1.75%	1.90%	0.00%	4
H- HIGH TYPE RESURFACING	3.96%	0.00%	6.91%	10.87%	0.00%	20
I- INTERCHANGE	13.42%	0.22%	7.23%	20.86%	11.84%	2
J- PREV MAINT-PAVEMENT	3.17%	0.00%	8.05%	11.22%	0.00%	19
K- MED TYPE RESURFACING	0.78%	0.00%	5.79%	6.57%	0.00%	3
L- LOW TYPE RESURFACING	5.29%	0.00%	5.48%	10.77%	0.00%	1
M- MAJOR BRIDGE	2.57%	0.00%	4.74%	7.30%	0.00%	3
O- OTHER	12.82%	1.20%	14.74%	28.75%	3.58%	13
P- PAVEMENT REPLACEMENT	16.26%	0.00%	11.12%	27.39%	0.00%	2
Q- CMAQ	7.65%	0.76%	14.79%	23.20%	7.09%	23
R- BRIDGE REHABILITATION	3.13%	0.14%	7.80%	11.07%	0.11%	22
S- BRDG RETROFIT AND STR	1.27%	0.00%	7.93%	9.19%	0.00%	2
X- SAFETY	6.34%	0.35%	11.12%	17.80%	6.60%	20
Y- ROUTINE MAINTENANCE	3.18%	0.00%	8.71%	11.89%	0.00%	5
	7.33%	0.56%	4.38%	12.26%	11.77%	165

Work Type Categories	Preliminary Engineering	Right of Way Incidentals	Construction Inspection	Total Engineering	Right of Way Purchases	n=
MAJOR PROJECT	8.45%	0.72%	2.47%	11.64%	16.35%	17
TCOS	4.69%	0.18%	8.71%	13.59%	1.21%	145
OTHER	8.56%	0.00%	14.81%	23.37%	0.00%	3
	7.33%	0.56%	4.38%	12.26%	11.77%	165

7/1/2011 - 6/30/2014 By District

Southwest

Work Types	Preliminary Engineering	Right of Way Incidentals	Construction Inspection	Total Engineering	Right of Way Purchases	n=
1- ITS	3.76%	0.66%	39.38%	43.81%	0.44%	1
A- ADD LANES	6.97%	1.30%	7.26%	15.53%	8.66%	10
B- BRIDGE REPLACEMENT	9.69%	0.23%	7.30%	17.21%	1.95%	15
D- DUAL DIVIDED	5.17%	0.62%	5.25%	11.04%	4.15%	2
E- ENHANCEMENTS	44.15%	1.11%	10.21%	55.46%	0.00%	8
F- FREEWAY	6.92%	0.13%	6.27%	13.32%	0.39%	19
G- PREV MAINT-BRIDGE	3.26%	0.00%	7.34%	10.59%	0.00%	9
H- HIGH TYPE RESURFACING	0.62%	0.00%	4.08%	4.70%	0.00%	7
I- INTERCHANGE	5.27%	0.21%	8.19%	13.66%	2.52%	9
J- PREV MAINT-PAVEMENT	1.97%	0.00%	4.29%	6.26%	0.00%	12
K- MED TYPE RESURFACING	0.92%	0.00%	4.87%	5.80%	0.00%	90
L- LOW TYPE RESURFACING	0.07%	0.00%	4.00%	4.07%	0.00%	25
M- MAJOR BRIDGE	3.57%	0.00%	1.49%	5.06%	0.00%	1
O- OTHER	9.40%	0.33%	8.11%	17.85%	5.89%	20
P- PAVEMENT REPLACEMENT	0.26%	0.00%	7.11%	7.36%	0.00%	4
Q- CMAQ	2.06%	0.00%	0.67%	2.73%	0.00%	2
R- BRIDGE REHABILITATION	7.83%	0.01%	6.60%	14.45%	0.13%	27
X- SAFETY	5.68%	0.32%	6.97%	12.96%	7.19%	32
Y- ROUTINE MAINTENANCE	0.00%	0.00%	1.68%	1.68%	0.00%	1
	5.05%	0.25%	6.28%	11.58%	2.21%	294

Work Type Categories	Preliminary Engineering	Right of Way Incidentals	Construction Inspection	Total Engineering	Right of Way Purchases	n=
MAJOR PROJECT	5.97%	0.49%	6.90%	13.36%	3.60%	41
TCOS	4.23%	0.08%	5.85%	10.16%	1.29%	245
OTHER	44.15%	1.11%	10.21%	55.46%	0.00%	8
	5.05%	0.25%	6.28%	11.58%	2.21%	294

7/1/2011 - 6/30/2014 By District

Southeast

Work Types	Preliminary Engineering	Right of Way Incidentals	Construction Inspection	Total Engineering	Right of Way Purchases	n=
A- ADD LANES	5.34%	1.11%	6.62%	13.07%	12.96%	4
B- BRIDGE REPLACEMENT	9.55%	0.44%	9.71%	19.70%	2.20%	13
D- DUAL DIVIDED	2.15%	0.28%	5.01%	7.44%	2.30%	2
E- ENHANCEMENTS	3.44%	0.01%	6.97%	10.42%	1.33%	3
G- PREV MAINT-BRIDGE	8.70%	0.00%	7.29%	15.99%	0.00%	2
H- HIGH TYPE RESURFACING	0.33%	0.00%	5.19%	5.52%	0.00%	7
I- INTERCHANGE	5.90%	0.00%	21.11%	27.01%	0.00%	1
J- PREV MAINT-PAVEMENT	0.39%	0.00%	4.34%	4.74%	0.00%	11
K- MED TYPE RESURFACING	1.66%	0.03%	6.10%	7.80%	0.07%	41
L- LOW TYPE RESURFACING	0.25%	0.00%	5.16%	5.42%	0.00%	39
O- OTHER	1.87%	0.01%	6.10%	7.99%	3.53%	14
P- PAVEMENT REPLACEMENT	4.79%	0.00%	18.83%	23.62%	0.00%	1
R- BRIDGE REHABILITATION	8.71%	0.09%	10.56%	19.36%	0.11%	7
T- NEW OR IMPROVED 2 LANE	5.03%	1.24%	8.36%	14.63%	8.43%	6
W- SHOULDER WIDENING	8.89%	0.00%	1.79%	10.68%	0.00%	1
X- SAFETY	5.53%	0.61%	10.04%	16.17%	3.79%	9
	3.06%	0.40%	6.39%	9.86%	4.08%	161
	Preliminary	Right of Way	Construction	Total	Right of Way	

Work Type Categories	Preliminary Engineering	Right of Way Incidentals	Construction Inspection	Total Engineering	Right of Way Purchases	n=
MAJOR PROJECT	4.41%	0.89%	6.54%	11.85%	9.18%	13
TCOS	2.08%	0.08%	6.28%	8.44%	0.67%	144
OTHER	4.11%	0.01%	6.33%	10.46%	1.17%	4
	3.06%	0.40%	6.39%	9.86%	4.08%	161

7/1/2011 - 6/30/2014 By District

Various Counties Statewide

Work Types	Preliminary Engineering	Right of Way Incidentals	Construction Inspection	Total Engineering	Right of Way Purchases	n=
B- BRIDGE REPLACEMENT	9.20%	0.00%	2.80%	12.00%	0.00%	1
D- DUAL DIVIDED	0.38%	0.00%	9.07%	9.45%	0.00%	2
E- ENHANCEMENTS	0.64%	0.00%	8.18%	8.82%	0.00%	3
G- PREV MAINT-BRIDGE	0.85%	0.00%	8.01%	8.87%	0.00%	5
J- PREV MAINT-PAVEMENT	0.00%	0.00%	7.14%	7.14%	0.00%	15
K- MED TYPE RESURFACING	0.23%	0.00%	6.19%	6.42%	0.00%	6
L- LOW TYPE RESURFACING	0.28%	0.00%	4.79%	5.07%	0.00%	4
O- OTHER	0.46%	0.00%	2.26%	2.72%	0.00%	15
P- PAVEMENT REPLACEMENT	0.00%	0.00%	6.08%	6.08%	0.00%	1
Q- CMAQ	2.00%	0.00%	5.83%	7.83%	0.00%	14
R- BRIDGE REHABILITATION	0.00%	0.00%	13.97%	13.97%	0.00%	2
X- SAFETY	3.83%	0.00%	11.12%	14.95%	0.00%	12
Y- ROUTINE MAINTENANCE	0.90%	0.00%	10.98%	11.87%	0.00%	10
	0.67%	0.00%	6.69%	7.36%	0.00%	90

Work Type Categories	Preliminary Engineering	Right of Way Incidentals	Construction Inspection	Total Engineering	Right of Way Purchases	n=
MAJOR PROJECT	0.38%	0.00%	9.07%	9.45%	0.00%	2
TCOS	0.76%	0.00%	5.89%	6.65%	0.00%	85
OTHER	0.64%	0.00%	8.18%	8.82%	0.00%	3
	0.67%	0.00%	6.69%	7.36%	0.00%	90











































