

## Historic Street and Highway Expenditures

The Des Moines Area MPO used data from the Iowa DOT's Street Finance Reports to determine expenditures on MPO member government's street and highway system for FY 2008-2017. Maintenance costs include costs associated with maintaining the existing physical infrastructure (i.e., pavement, signals, and right-of-way). Operation costs include costs associated with snow removal, street lighting, equipment purchases, administration, and other related costs. Construction costs include engineering, right-of-way purchase, and the construction of bridges and streets. Debt service includes principal and interest payments made on municipal bonds. Table 1 provides a summary of street and highway expenditures over the past ten federal fiscal years. Table 2 breaks the regional total down by community.

Table 1:

FEDERAL FISCAL YEAR	Maintenance	Operations	Construction	Debt Service	Total
2008-2017	\$308,457,488	\$174,932,667	\$835,447,013	\$819,676,107	\$2,138,513,275
10-Year Average	\$30,845,749	\$17,493,267	\$83,544,701	\$81,967,611	\$213,851,328
Percent of Expenditures	14%	8%	39%	38%	100%

Table 2

	Maintenance	Operations	Construction	Debt Service	Total
Altoona	\$9,023,696	\$7,642,729	\$800,561	\$3,937,049	\$21,404,035
	42%	36%	4%	18%	
Ankeny	\$17,985,621	\$28,525,283	\$106,372,179	\$160,914,280	\$313,797,363
	6%	9%	34%	51%	
Bondurant	\$2,574,631	\$2,447,428	\$1,795,858	\$2,339,209	\$9,157,126
	28%	27%	20%	26%	
Carlisle	\$2,958,513	\$853,475	\$6,867,886	\$1,829,698	\$12,509,572
	24%	7%	55%	15%	
Clive	\$18,436,044	\$11,022,761	\$43,090,094	\$41,282,789	\$113,831,688
	16%	10%	38%	36%	
Des Moines	\$155,962,652	\$81,175,808	\$302,302,225	\$238,831,285	\$778,271,970
	20%	10%	39%	31%	
Grimes	\$10,505,865	\$4,332,107	\$40,270,496	\$14,009,309	\$69,117,777
	15%	6%	58%	20%	
Johnston	\$11,032,936	\$10,443,150	\$61,917,756	\$61,322,812	\$144,716,654
	8%	7%	43%	42%	
Mitchellville	\$681,795	\$573,405	\$1,688,879	\$637,904	\$3,581,983
	19%	16%	47%	18%	
Norwalk	\$6,858,603	\$1,886,600	\$1,178,043	\$1,617,373	\$11,540,619
	59%	16%	10%	14%	
Pleasant Hill	\$7,324,318	\$1,945,329	\$1,437,850	\$5,858,186	\$16,565,683
	44%	12%	9%	35%	
Polk City	\$2,922,407	\$785,465	\$1,951,690	\$0	\$5,659,562
	56%	15%	37%	0%	
Urbandale	\$20,861,024	\$10,075,855	\$112,616,603	\$79,593,386	\$223,146,868
	9%	5%	50%	36%	
Waukee	\$7,690,346	\$8,069,120	\$53,433,080	\$30,476,732	\$99,669,278
	8%	8%	54%	31%	
West Des Moines	\$29,466,277	\$3,510,709	\$95,725,681	\$168,567,205	\$297,269,872
	10%	1%	32%	57%	
Windsor Heights	\$4,172,760	\$1,643,443	\$3,998,132	\$8,458,890	\$18,273,225
	23%	9%	22%	46%	

## Federal Funding

The MPO used historic data going back to 1996 to determine the historic annual growth rate for STBG and STGB Set-Aside funding over the 21-year period. The annual growth rate over this period was 10.6 percent for STBG funding and 9.3 percent for STGB Set-Aside funding. The historic growth rate for STBG and STGB Set-Aside funding was reviewed by the MPO Finance Subcommittee. Their recommendation was to use a conservative 5 percent annual growth rate to project federal funding for Mobilizing Tomorrow. This approach was based on the overall uncertainty concerning transportation funding at the federal level and congresses unwillingness to pass a gas tax increase to address the HTF shortfall. Staff used the 5 percent growth rate to determine an annual funding increase of \$674,105. The annual funding increase was added to each year to create a straight-line projection of STBG and STGB Set-Aside funding that is expected to be available through HY 2050.

Table 3

FEDERAL FISCAL YEAR	STBG	Set Aside
1996	\$3,811,053	\$442,000
2017	\$12,297,098	\$1,185,000
Percent Change 1996-2017	223%	168%
Annual Growth Rate	10.6%	9.3%

## State Funding

Table 4 shows the total historic RUTF funding for MPO member governments for 2008 to 2017. The annual growth rate over the six years of available data was 7 percent. The MPO Finance Subcommittee reviewed the growth rate for RUTF's and determined that a 3 percent rate could reasonably be expected to continue into the foreseeable future. Staff used the 3 percent growth rate to determine an annual funding increase of approximately \$1.9 million for RUTF.

Table 4

FEDERAL FISCAL YEAR	RUTF
2008	\$35,066,596
2017	\$59,442,468
Percent Change 2008-2017	70%
Annual Growth Rate	7.0%

Table 5 shows historic RUTF growth rates for individual communities.

Table 5

	FY 2008	FY 2017	Percent Change	Annual Growth Rate
Altoona	\$1,139,532	\$1,806,740	59%	6%
Ankeny	\$3,098,010	\$6,777,996	119%	12%
Bondurant	\$253,074	\$681,921	169%	17%
Carlisle	\$299,597	\$481,181	61%	6%
Clive	\$1,210,127	\$2,173,259	80%	8%
Des Moines	\$17,021,620	\$25,352,621	49%	5%
Grimes	\$502,213	\$1,418,093	182%	18%
Johnston	\$1,164,806	\$2,329,259	100%	10%
Mitchellville	\$197,218	\$279,820	42%	4%
Norwalk	\$708,170	\$1,110,465	57%	6%
Pleasant Hill	\$596,368	\$1,090,602	83%	8%
Polk City	\$246,052	\$424,323	72%	7%
Urbandale	\$3,075,992	\$5,072,034	65%	6%
Waukee	\$696,690	\$1,952,603	180%	18%
West Des Moines	\$4,438,102	\$7,888,213	78%	8%
Windsor Heights	\$419,025	\$603,338	44%	4%
Dallas County	\$465,830	\$653,133	40%	4%
Polk County	\$1,888,496	\$2,686,971	42%	4%
Warren County	\$626,234	\$889,257	42%	4%
<b>Total</b>	<b>\$35,066,596</b>	<b>\$59,442,468</b>	<b>70%</b>	<b>7%</b>

## Local Funding

Table 6 shows the historic local revenues for MPO member governments for 2008 to 2017. The annual growth rate over the ten years of available data was 3.4 percent. The MPO Finance Subcommittee reviewed the growth rate for local funding and determined that a zero percent rate could reasonably be expected to continue into the foreseeable future. This decision was based on the historic average being viewed as a long-term trend rather than an anomaly and the likely effect of the property tax rollback passed by the state legislature. Based on this growth rate, staff determined the ten-year average of \$178.6 million in local funding. The ten-year average was used to account for fluctuations in bonding levels by local communities on a year-to-year basis.

Table 6

FEDERAL FISCAL YEAR	
2008	\$137,030,306
2017	\$183,932,307
Percent Change 2008-2017	34%
Average Annual Percent Change	3.4%

Table 7 includes a breakdown of local funding by community.

Table 7

	FY2008	FY 2017	Percent Change	Annual Growth Rate	10 Year Average
Altoona	\$351,573	\$581,831	65%	6.5%	\$382,518
Ankeny	\$20,521,704	\$18,387,789	-10%	-1.0%	\$27,180,680
Bondurant	\$174,041	\$365,862	110%	11.0%	\$632,830
Carlisle	\$117,346	\$830,570	608%	60.8%	\$866,316
Clive	\$9,420,444	\$13,947,933	48%	4.8%	\$10,285,838
Des Moines	\$41,682,802	\$59,008,780	42%	4.2%	\$58,595,446
Grimes	\$5,761,680	\$9,421,956	64%	6.4%	\$6,421,370
Johnston	\$15,068,657	\$14,625,734	-3%	-0.3%	\$12,299,777
Mitchellville	\$6,441	\$65,954	924%	92.4%	\$138,304
Norwalk	\$24,999	\$132,990	432%	43.2%	\$273,274
Pleasant Hill	\$1,851,822	\$260,479	-86%	-8.6%	\$864,485
Polk City	\$10,575	\$155,721	1373%	137.3%	\$273,453
Urbandale	\$11,505,157	\$28,250,380	146%	14.6%	\$19,073,596
Waukee	\$4,664,096	\$18,356,471	294%	29.4%	\$10,915,197
West Des Moines	\$20,988,143	\$14,879,957	-29%	-2.9%	\$24,861,764
Windsor Heights	\$842,182	\$1,406,909	67%	6.7%	\$1,474,595
Dallas County	\$413,872	\$520,096	26%	2.6%	\$536,669
Polk County	\$3,186,064	\$2,234,695	-30%	-3.0%	\$3,094,518
Warren County	\$438,708	\$498,200	14%	1.4%	\$477,005
<b>Total</b>	<b>\$137,030,306</b>	<b>\$183,932,307</b>	<b>34%</b>	<b>3.4%</b>	<b>\$178,647,635</b>

## Total Projected Funding

Table 8 shows the projected federal, state, and local funding that is reasonably expected to be available over the life of the plan. A review of the Street Finance Reports over the last ten years indicated that approximately 40 percent of the available state and local revenue for transportation is spent on construction expenditures, as indicated in Table 1. The projections assume that this trend will continue. Therefore, 60 percent of the projected state and local revenues were subtracted from the total available revenue to accurately reflect operation, maintenance, and debt service costs. It was assumed that these costs would remain consistent as a percentage of the total projected revenue for each time-period of Mobilizing Tomorrow.

Table 8

	2020-2024	2025-2029	2030-2034	2035-2050	TOTAL
Federal	\$74,151,539	\$91,004,162	\$107,856,784	\$458,391,332	\$731,403,817
State	\$337,460,691	\$385,214,562	\$432,968,433	\$1,706,405,002	\$2,862,048,688
Local	\$893,238,176	\$893,238,176	\$893,238,176	\$2,858,362,164	\$5,538,076,693
Non-Construction Expenditures	\$782,910,244	\$821,674,140	\$860,438,036	\$3,013,895,099	\$5,478,917,519
Available Funding for Construction Projects	\$521,940,162	\$547,782,760	\$573,625,357	\$2,009,263,399	\$3,652,611,679