

2015 State of the Infrastructure



Charts and Graphs

The enclosed charts and graphs were created from responses to the 2015 Minnesota State of the Infrastructure survey conducted by MN2050. The charts show:

1. Assets managed by cities, counties and state agencies.
2. Tools and Systems used in asset management.
3. Value of Minnesota's infrastructure.

2015 Charts



Assets Managed by Cities, Counties and State Agencies

	Assets Managed	Road	Bridge	Transit	Traffic	Buildings	Drink Water	Waste Water	Storm Sewer	Storm Pond	Airports	Ports	Railways	Electrical	Solid Waste	Natural Gas	Total
Small Cities	14	97	11	1	55	71	92	92	89	54	15	0	7	18	5	9	616
Large Cities	15	187	88	4	112	109	128	139	137	133	19	2	9	54	9	7	1137
Counties	14	132	99	4	64	45	7	5	36	18	8	0	4	4	18	3	447
State Agencies	7	9	3	0	3	7	0	4	2	2	0	0	0	0	0	0	30
Totals =		425	201	9	234	232	227	240	264	207	42	2	20	76	32	19	2230

2015 Charts



TOOLS Used by Cities, Counties and State Agencies

Tools	Road	Bridge	Transit	Traffic	Buildings	Drink Water	Waste Water	Storm Sewer	Storm Pond	Airports	Ports	Railways	Electrical	Solid Waste	Natural Gas	Total
MS Excel	102	37	1	37	42	57	56	55	40	14	0	0	18	5	2	466
ESRI GIS database	66	21	2	31	21	0	50	54	54	7	0	2	16	4	1	329
Pencil and paper	53	28	1	34	51	31	37	38	20	8	0	0	11	9	2	323
Other system	22	9	0	10	13	9	11	13	10	4	0	0	6	2	1	110
CAD/AutoCAD	4	1	0	0	0	2	2	3	1	0	0	0	2	0	0	15
Orade	1	0	0	1	1	0	2	1	1	0	0	0	0	0	0	7
Other GIS system	1	0	0	2	1	0	0	0	1	1	0	0	0	0	0	6
Access database	3	0	1	1	0	0	0	0	0	0	0	0	0	0	0	4
ArcView	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	4
Dbase	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	3
Laserfiche	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Georilla	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals =	253	96	4	117	130	100	159	166	128	34	0	2	53	20	6	1268

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2015 Charts



SYSTEMS Used by Cities, Counties and State Agencies																
System	Road	Bridge	Transit	Traffic	Buildings	Drink Water	Waste Water	Storm Sewer	Storm Pond	Airports	Ports	Railways	Electrical	Solid Waste	Natural Gas	Total
No asset management system	52	24	4	64	85	44	47	62	51	6	2	15	14	10	12	492
Cartegraph	24	5	0	14	2	13	14	15	12	0	0	0	1	0	0	100
Ican	33	3	0	7	0	49	1	2	1	0	0	0	0	0	0	96
MnDOT SIMS	18	59	1	1	0	0	0	0	0	0	0	1	1	0	0	81
Simple Signs	15	2	0	15	0	0	0	0	0	0	0	1	1	0	0	34
CityWorks	3	0	0	3	2	5	4	5	3	0	0	1	2	0	1	29
Other	5	4	0	2	2	3	1	4	3	2	0	0	2	0	0	28
PubWorks	3	1	0	2	2	1	1	2	1	0	0	0	0	2	0	15
City Services	2	0	0	1	0	3	4	1	1	0	0	0	1	0	0	13
MapFeeder	2	1	0	1	1	2	2	1	1	0	0	0	1	0	0	12
InfraSeek	3	0	0	1	1	2	2	1	1	0	0	0	0	0	0	11
Element FX	1	1	0	1	0	1	2	2	1	0	0	0	0	0	0	9
Element XS	1	0	1	1	1	1	1	1	1	0	0	0	0	0	0	7
Beehive	1	0	1	1	0	1	1	1	1	0	0	0	0	0	0	6
Archibus	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	4
Pontis	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	4
MueWorks	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	4
Infor EAM	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	3
SWAMP	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	3
Agile Assets	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2
Maxima	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
PASER	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Famis	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
IMaint	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Mpower Innovations	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Road Pro	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
RTVision	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Totals =	172	105	5	117	102	127	81	98	79	8	2	18	23	12	13	962

2015 Charts



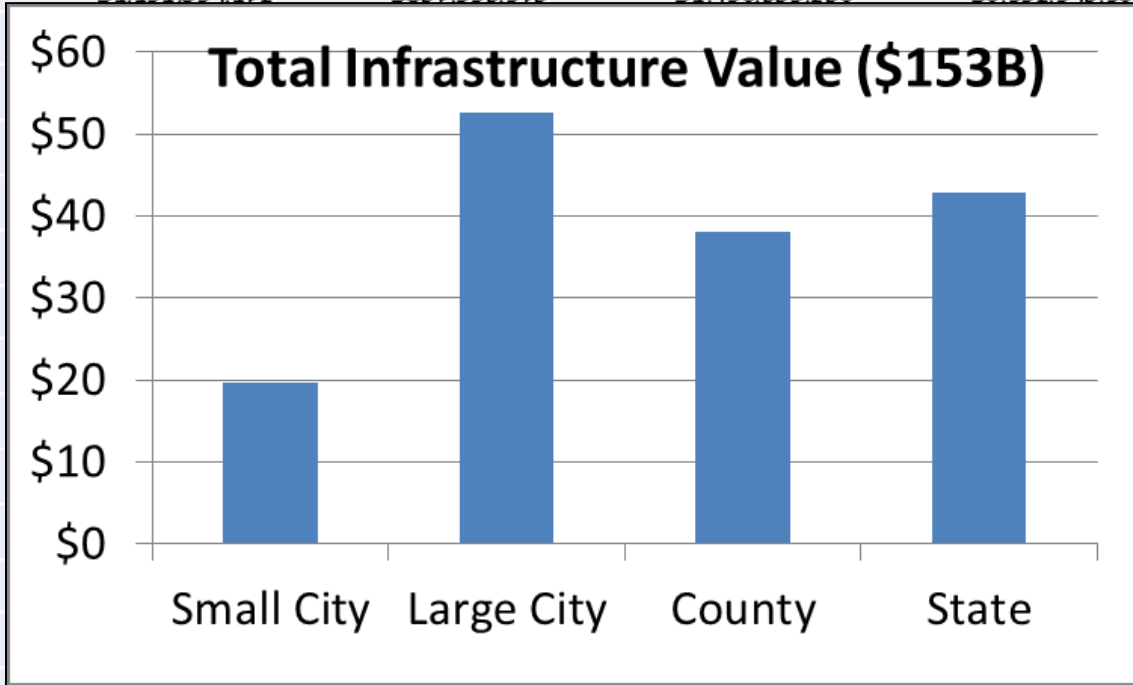
	2015 Values				
	Small City	Large City	County	State	Total
Roads	\$4,174,022,424	\$10,517,476,430	\$27,647,815,260	\$29,338,312,840	\$71,677,626,954
Bridges	\$1,151,894,172	\$807,350,570	\$1,456,009,206	\$6,592,940,562	\$10,008,194,510
Transit	\$0	\$0	\$0	\$0	\$0
Traffic	\$14,168,440	\$138,820,460	\$59,985,398	\$0	\$212,974,298
Buildings	\$7,583,657,510	\$13,724,959,690	\$4,869,723,674	\$501,696,056	\$26,680,036,930
Water	\$1,499,020,952	\$6,279,799,230	\$0	\$0	\$7,778,820,182
Waste Water	\$1,704,463,332	\$4,244,983,540	\$0	\$6,494,782,638	\$12,444,229,510
Storm sewer	\$0	\$2,085,960,070	\$0	\$0	\$2,085,960,070
Storm ponds	\$150,185,464	\$65,757,060	\$5,453,218	\$0	\$221,395,742
Airports	\$1,240,446,922	\$1,344,366,560	\$0	\$0	\$2,584,813,482
Ports	\$0	\$0	\$0	\$0	\$0
Rail	\$0	\$0	\$3,173,772,876	\$0	\$3,173,772,876
Electrical	\$0	\$10,564,967,640	\$0	\$0	\$10,564,967,640
Solid Waste	\$0	\$94,982,420	\$796,169,828	\$0	\$891,152,248
Natural Gas	\$2,056,549,066	\$2,747,183,840	\$0	\$0	\$4,803,732,906
Total	\$19.5B	\$52.6B	\$38.0B	\$42.9B	\$153B

*Asset values based upon based upon extrapolation of per capita values in 2015 report, p 13-15.

2015 Charts



	2015 Values				
	Small City	Large City	County	State	Total
Roads	\$4,174,022,424	\$10,517,476,430	\$27,647,815,260	\$29,338,312,840	\$71,677,626,954
Bridges	\$1,151,894,172	\$807,350,570	\$1,456,009,206	\$6,592,940,562	\$10,008,194,510
Transit					\$0
Traffic					\$212,974,298
Buildings					\$26,680,036,930
Water					\$7,778,820,182
Waste Water					\$12,444,229,510
Storm sewer					\$2,085,960,070
Storm ponds					\$221,395,742
Airports					\$2,584,813,482
Ports					\$0
Rail					\$3,173,772,876
Electrical					\$10,564,967,640
Solid Waste					\$891,152,248
Natural Gas	\$2,056,549,066	\$2,747,183,840	\$0	\$0	\$4,803,732,906
Total	\$19.5B	\$52.6B	\$38.0B	\$42.9B	\$153B



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