

Key Metrics: 2019 Stormwater Utility Fee & Management Survey

Analysis current as of February 6, 2020

1. Municipality Information

a. Survey Datasets	
i. 2019 Dataset	73 Cities
ii. 2017 Dataset	15 Cities
iii. No Data	35 Cities
iv. Completion Rate	72%
b. MS4 Status	
i. Regulated	47 Cities
ii. Non-Regulated	76 Cities
iii. Total	123 Cities

2. Stormwater Program Funding & Staff

a. Estimated Annual Stormwater Operating Budget	
i. Average	\$749,616 per Year
ii. Average Without Des Moines	\$560,290 per Year
iii. Minimum	\$4,000 per Year
iv. Maximum	\$16,085,00 Per Year
b. Estimated Annual CIP for Stormwater Program	
i. Average	\$889,099 per Year
ii. Average Without Des Moines	\$358,525 per Year
iii. Minimum	\$0 per Year
iv. Maximum	\$43,335,000 per Year
c. Full Time Equivalent Stormwater Staff	
i. Average	1.5 FTE
ii. Average Without Des Moines	1.1 FTE
d. Funding	
i. Stormwater Utility Fee	74 / 79 Cities (94%)
ii. General Fund	9 / 79 Cities (11%)
iii. Combination of Fee and General Fund	6 / 79 Cities (8%)

3. Stormwater Utility Fee Metric

a. Fee Calculation Tool	
i. Flat Rate Counts	44 / 79 Cities (56%)
ii. ERU Counts	33 / 79 Cities (42%)

4. Stormwater Utility Fee Applications

a. Residential Single Family	
i. Flat Rate Average (Base Fee)	\$4.00
ii. Flat Rate Minimum	\$1.00
iii. Flat Rate Maximum	\$12.40

iv. ERU Average (Base Fee)	\$4.44
v. ERU Minimum	\$2.00
vi. ERU Maximum	\$7.83
b. Residential Multi-Family	
i. Flat Rate Average (Base Fee)	\$4.64
ii. Flat Rate Minimum	\$1.00
iii. Flat Rate Maximum	\$18.54
iv. ERU Average (Base Fee)	\$4.91
v. ERU Minimum	\$2.00
vi. ERU Maximum	\$18.54
c. Commercial and Industrial	
i. Flat Rate Average (Base Fee)	\$5.48
ii. Flat Rate Minimum	\$0.00
iii. Flat Rate Maximum	\$18.54
iv. ERU Average (Base Fee)	\$5.34
v. ERU Minimum	\$2.00
vi. ERU Maximum	\$18.54
d. Applied ERU Square Foot Impervious Surface Area	
i. Average	4,227 SF
e. Exemptions	
i. Exemptions are Offered	9 / 73 Cities (12%)

5. Local Ordinances

a. All Cities	
i. Management of Stormwater Infrastructure?	54 / 58 Cities (93%)
ii. Construction Site Erosion and Sediment Control	37 / 58 Cities (64%)
iii. Post Construction Stormwater Management	33 / 58 Cities (57%)
iv. Illicit Discharge Detection and Elimination	35 / 58 Cities (60%)
b. Non-Regulated Cities Only	
i. Management of Stormwater Infrastructure?	25 / 29 Cities (86%)
ii. Construction Site Erosion and Sediment Control	8 / 29 Cities (28%)
iii. Post Construction Stormwater Management	6 / 29 Cities (21%)
iv. Illicit Discharge Detection and Elimination	6 / 29 Cities (21%)

6. Design References

a. ISWMM	
i. Entire Sample	20 / 46 Cities (43%)
ii. Only MS4s	18 / 29 Cities (62%)
iii. Only Non-Regulated Cities	2 / 30 Cities (7%)
b. SUDAS	
i. Entire Sample	38 / 46 Cities (83%)
ii. Only MS4s	23 / 29 Cities (79%)
iii. Only Non-Regulated Cities	15 / 30 Cities (50%)

7. Treatment of 24-Hour Storm Events by New Development

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| a. Application of Design Standard | 33 / 58 Cities (57%) |
| b. Water Quality Volume, 90 Th Percentile | 12 / 33 Cities (36%) |
| c. Channel Protection Volume, 2-Year | 8 / 33 Cities (24%) |
| d. Overbank Protection, 5-Year Peak Discharge | 15 / 33 Cities (45%) |
| e. Extreme Flood Protection, 100-Year | 24 / 33 Cities (75%) |

8. Payments in Lieu for Management of 24-Hour Storm Events

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| a. Acceptance of Payments | 5 / 58 Cities (9%) |
| b. Water Quality Volume, 90 Th Percentile | 4 / 5 Cities (80%) |
| c. Channel Protection Volume, 2-Year | 3 / 5 Cities (60%) |
| d. Overbank Protection, 5-Year Peak Discharge | 3 / 5 Cities (60%) |
| e. Extreme Flood Protection, 100-Year | 3 / 5 Cities (60%) |

9. Retention or Detention Regulations on New Developments

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| a. Requirements for Retention or Detention | 38 / 57 Cities (67%) |
| b. Water Quality Volume of 1.25" | 15 / 57 Cities (26%) |
| c. Min. of 0.2" Per Acre on Sites with <15% Imp. Cover | 2 / 57 Cities (4%) |
| d. Post Developed 100-Year at Pre-Developed 5 Year | 19 / 57 Cities (33%) |
| e. Post Developed 100-Year at Pre-Developed 2 Year | 4 / 57 Cities (7%) |
| f. Runoff Achieve x% of Predevelopment Volume | 1 / 57 Cities (2%) |
| i. x% | 1% |
| g. Retain y" from 24-Hour Event Preceded by 48 Dry | 1 / 57 Cities (2%) |
| i. y inches | 2" |
| h. Policy Applies to Redevelopment Projects | 32 / 39 Cities (82%) |

10. Runoff Credit / Rebate / Grant Program

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| a. Credit Program for Reducing Overall Annual Fee | 8 / 57 Cities (14%) |
| b. Cost Share, Rebate, or Grant Program | 9 / 57 Cities (16%) |
| c. Range of Maximum Rebate Percentage | 25% - 75% |

11. BMP Cost Share Program

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| a. Cities with Cost Share Programs | 17 / 57 Cities (30%) |
| b. BMPs Available in Sample of Cities Offering Cost Share | |
| i. Native Turf / Landscaping | 12 / 17 Cities (71%) |
| ii. Rain Gardens | 15 / 17 Cities (88%) |
| iii. Rain Barrels / Cisterns | 17 / 17 Cities (100%) |
| iv. Bioswales | 13 / 17 Cities (76%) |
| v. Bioretention Cells | 13 / 17 Cities (76%) |
| vi. Soil Quality Restoration | 15 / 17 Cities (88%) |
| vii. Permeable Pavement | 11 / 17 Cities (65%) |
| viii. Green Roofs | 9 / 17 Cities (53%) |

12. Stormwater Priorities (n=47)

a. Drainage Problems	
i. Average	2.85 (1 st)
ii. Min	1
iii. Max	7
b. Funding	
i. Average	3.04 (2 nd)
ii. Min	1
iii. Max	8
c. Flash Flooding	
i. Average	3.26 (3 rd)
ii. Min	1
iii. Max	7
d. Workload (Staff Spread Too Thin)	
i. Average	4.21 (4 th)
ii. Min	1
iii. Max	8
e. Community Education, Outreach, and Engagement	
i. Average	5.00 (5 th)
ii. Min	1
iii. Max	8
f. Extreme Flooding	
i. Average	5.19 (6 th)
ii. Min	1
iii. Max	8
g. Water Quality Problems	
i. Average	5.70 (7 th)
ii. Min	1
iii. Max	8
h. Other	
i. Average	6.79 (8 th)
ii. Comments	
1.	"Stormwater runoff management in new development re-development construction."
2.	"Compliance by developers and property owners of stormwater ordinances."
3.	"Construction related compliance issues."
4.	"Program buy-in and enforcement."
5.	"Program development is challenging. This is tied to staff workload."
6.	"Undersized infrastructure."
7.	"Building a stormwater program without an MS4 designation."
8.	"I would rate the most challenging on Awareness overall and training for city staff. Our city has not had flooding in a very long time. We have only had one complaint on drainage since I have been here in over 7 years. There might be funding that I am not aware of. There have been very minimal water quality problems in 7 years. Staff are always spread too thin in a small town."