

## **IX. Priority System Development**

### **A. Purpose**

Leavenworth contains several distinct areas, each with its own characteristics which determine its priorities. Stormwater ranges from high to low on the priority list throughout the City. Identification of needed stormwater improvement projects depends on perception of the problem. Therefore, a mechanism was needed to define the problems and to develop a ranking system. The purpose of the priority system was to provide a method for identifying drainage problems, to establish a consistent basis for comparing their relative severity, and to rank them as part of the capital improvements program. In this fashion, all capital improvements projects (CIPs) could be analyzed individually using the same guidelines, compared on an equal basis, and evaluated on their own merits without being influenced by conditions caused by other flooding problems.

Prioritization was used for the following CIPs:

- Stormwater conveyance system components on the main channels of Three Mile and Five Mile Creek watersheds.
- Tributary subsystems.

All CIPs are comprised of inadequate conveyance elements identified in Chapter VIII.

### **B. System Description**

The prioritization system developed for this study was taken from a system designed for Columbus, Ohio, and adapted to Leavenworth through review and modification by staff and the Citizen's Advisory Committee. Part 1 utilizes a process that evaluates each CIP in an objective manner using the identified criteria. Part 2 adjusts the results of the first process to establish a prioritization ranking of capital improvement projects that balances a project's evaluation by the project's respective cost.

The following ten prioritization criteria were selected:

Health & Safety  
Economic Impact  
Damage

Environmental Impact  
Number of Years Problem Has Existed  
Investment Protection of Stormwater System

Size of Area Directly Affected  
 Frequency of the Problem

Condition of the Stormwater System  
 Leverage of Dollars

Part 1: Initial Evaluation: This part incorporates the ten criteria identified above and evaluates each project's stormwater problem based on these criteria. The evaluation is facilitated by a numerical evaluation-scoring system to assess the relative magnitude of each CIP being evaluated with respect to other CIPs.

The numerical evaluation-scoring system contains three significant parts: criteria *weights*, *ranges*, and *ratings*. *Weight* was assigned to each criterion to describe its relative importance with respect to the others. *Ranges* for each criterion provide a means of relating project information to the prioritization criteria. Each *range* has an associated *rating*, or range of *ratings*, that determine the relative significance of each *range* with respect to a CIP. The criteria and their respective *weights*, *ranges*, and *ratings* are illustrated in Table IX-1.

<b>Table IX-1 Prioritization Criteria Ranges</b>	
<b>HEALTH AND SAFETY (Weight = 5)</b>	<b>Rating</b>
Documented death or serious injury	10
High risk of death or serious injury or illness (overtopping of 100-yr design structures)	8
Moderate risk of injury or illness (overtopping of 50-yr design structures)	6
Low risk of injury or illness (overtopping of 10-yr design structures)	4
Inconvenience (remote or undeveloped areas)	2
<b>NUMBER OF PEOPLE AFFECTED/ECONOMIC IMPACT (Weight = 4)</b>	<b>Rating</b>
>20 residential or commercial units	10
6-20 residential or commercial units	7
Transportation arterial or collector streets; 50-yr design	5
0-5 residential or commercial units	3
Residential streets and alleys; 10-yr design	1
<b>DAMAGE (Weight = 4)</b>	<b>Rating</b>
Complete structural loss	10
Structural damage	5-9

<b>Table IX-1 Prioritization Criteria Ranges</b>	
Loss of use or structural flooding or content damage or multiple "major" complaints	4-6
Street flooding or land loss due to erosion or combination of "major" and "minor"	2-4
Land/yard flooding or "minor" complaints	2
None known or documented prior to this study	1
<b>SIZE OF AREA DIRECTLY AFFECTED (Weight = 3)</b>	<b>Rating</b>
>100 acres	10
40-100 acres	7
6-39 acres	5
1-5 acres	3
<1 acre	1
<b>FREQUENCY OF PROBLEM (Weight = 3)</b>	<b>Rating</b>
Constant	10
Every rain (>5 times a year)	10
Moderate rains (3-5 times a year)	8
Heavy rains (1-2 times a year)	6
Once every 1-5 years	4
Once every 6 or more years (structure is 10-, 50-, or 100-yr design)	1
<b>ENVIRONMENTAL IMPACT (Weight = 2)</b>	<b>Rating</b>
Positive impact on water quality and ecology; e.g., detention pond	10
Minimal impact on water quality and ecology	6
Negative impact on water quality and ecology; e.g., concrete lining of natural channel	1
<b>NUMBER OF YEARS PROBLEM HAS EXISTED (Weight = 2)</b>	<b>Rating</b>
>40 years (historical accounts from Corps reports)	10
20-40 years (from 1967 B&V study or 1977 FEMA study)	7
10-19 years	5
1-9 years (from City staff, SW questionnaire, or SW Hotline)	3
<1 year (identified only from modeling in this study)	1

Table IX-1 Prioritization Criteria Ranges	
<b>INVESTMENT PROTECTION OF STORMWATER SYSTEM (Weight = 2)</b>	<b>Rating</b>
Yes, spending money now on CIP saves \$\$\$ later if catastrophe	6-8
No	1
<b>PHYSICAL CONDITION OF STORMWATER SYSTEM (Weight = 2)</b>	<b>Rating</b>
No system/failed system, including failing arches and bridges	10
Poor; e.g., known older system or many improvements needed	8
Average; e.g., known newer system or few improvements needed	3
Good; e.g., new or not yet built	1
<b>LEVERAGE OF DOLLARS (Weight = 1)</b>	<b>Rating</b>
76-99% of funding from sources other than Stormwater funds	10
51-75%	8
26-50%	6
1-25%	3
<1%	1

The evaluation-scoring system, using this system of criteria *weights*, *ranges*, and *ratings*, allows the user to compute a numerical value, expressed as an *initial evaluation index*, for any CIP being evaluated by the system. Once CIP *initial evaluation indexes* are computed for all projects, all CIP initial evaluation indexes can then be used to determine the relative acuity of one problem to another. By system design, the higher the *initial evaluation index*, the greater the stormwater problem. However, the *initial evaluation index* provides only a relative evaluation of the stormwater problem areas; it is not designed to provide absolute answers, but only to provide guidance.

Part 2: Ranking System: This part includes a CIP ranking process that modifies the results of the initial evaluation (based on the ten criteria discussed above) by the project cost. This results in a prioritization ranking of capital improvement projects that reflect consideration for project cost.

A procedure was developed to incorporate the project cost element into the final prioritization system. This second part of the prioritization method was designed to adjust the results of the first process, *initial evaluation index*, by a measure based on the order-of-magnitude CIP cost versus the benefits derived from the expenditure. The overall goal

was to develop a ranking which gives the most benefit to the citizens for the least amount of City dollar expended. A mathematical approach was developed to compute a *prioritization index number*, reflecting consideration for project cost, as indicated in Table IX-2. The final project ranking is established by comparing the CIP *prioritization index numbers* to one another, ranking them from highest to lowest.

<b>Table IX-2</b>	
<b>Adjustment of Project Costs</b>	
The goal is to relate the project costs to the same range as the benefit indices. The range of benefit indices is from 47 to 194. The range of project costs is from \$3,500 to \$6,379,000 (3.5 to 6,379). This leads to two equations with two unknowns:	
$3.5 \times b + a = 47$ and $6,379 \times b + a = 194$	
Solving these for b:	$a = 47 - 3.5 \times b$ $a = 194 - 6,379 \times b$
$47 - 3.5b = 194 - 6,379b$	
$6,375.5 \times b = 147$	
$b = .0230$	
Solving for a:	$a = 47 - 3.5 \times (0.0230)$
$a = 46.9$	
So the equation for the adjusted cost becomes:	
Adjusted Cost = 46.9 + Project Cost Estimate (1000s \$\$) x (0.0230)	
Prioritization Index = Initial Evaluation Index/Adjusted Cost x 100	

### **C. System Implementation**

System implementation involved application of the final prioritization system described in Section B of this chapter. Individual projects under investigation were evaluated. The prioritization system was applied to objectively consider each project and to develop a total prioritization schedule, ranking the projects from highest to lowest

priority. Table IX-3 exhibits the summary results of the final prioritization system, displaying a priority list of CIP projects for City use. The complete project evaluations (score sheets) are included at the end of this chapter.

Scoring of CIPs is based on the information available. In some cases, information addressing specific criteria on certain CIPs was either inadequate or unavailable. Therefore, reasonable judgment decisions had to be made in assigning a range to a criterion. Over time, in cases where these decisions are changed as more is learned about a specific problem, the resulting ranking will be changed. In this situation, the CIP may rank either higher or lower when sufficient information is obtained. A total of 56 projects have been scored using the final prioritization system. The system provides a relative ranking for the subject projects, and is intended to be applied to new CIPs as City staff initiates them. It is realized that the City of Leavenworth will base initiation of CIPs, in part, on the availability of funds. To this end, the final system provides the ability to view not only the problem, but also the relative benefit of expending funds on selected projects.

Rank	CIP ID	Project Description	PIN
1	3MC-Main-B'way	Construct new open channel to divert Subsystem 2R flows from Cherokee St. to Broadway Bridge (Larkin project)	391
2	3MC-8L	Metropolitan & 16th to 14th & Kiowa Subsystem 8L with proposed detention pond north of Metropolitan	322
3	5MC-7L	17th Street & Vilas Street Subsystem 7L	296
4	3MC-S1L	13th & 14th & Shawnee & Delaware; 3 Mile Creek South Branch Subsystem S1L	265
5	5MC-5L	10th Avenue & Limit Street Subsystem 5L	261
6	5MC-Main-10th	Install parallel 8' x 7' RCB at 10th Avenue on 5 Mile Creek	253
7	5MC-5R	Hughes Road & McDonald Road Subsystem 5R	248
8	5MC-2L	Santa Fe & 2nd Street Subsystem 2L	242
9	3MC-5L	Broadway & 3mc Subsystem 5L	231
10	5MC-4L	West of Shrine Park Road to Goddard Circle Subsystem 4L	228

**Table IX-3**  
**Stormwater Capital Improvements Projects (CIPs)**  
**Summary of Project Priority by Prioritization Index Number (PIN)**

Rank	CIP ID	Project Description	PIN
11	5MC-Main-Limit	Elevate bridge & road at junction of Limit Street & 2nd Ave on 5 Mile Creek; install berm around low-lying structure	226
12	3MC-2R	Ohio to Spruce & 10th Street Subsystem 2R	224
12	3MCSB-Cherokee	Replace Cherokee Street arch on 3 Mile Creek South Branch with 2-10' x 10' RCBs	224
12	3MC-Main-6th St	Remove 6th Street bridge and replace w/4-16' x 16' RCBs	224
15	3MC-7R	Ottawa & 20th Street Subsystem 7R	223
15	3MC-6R	Shawnee & 20th to 18th & Osage Subsystem 6R	223
17	3MC-Main-13th St	Replace 13th Street bridge on 3 Mile Creek with 3-12' x 12' RCBs and increase deck top elevation	222
17	5MC-3R	4th Street Subsystem 3R	222
19	3MC-1R	Ohio to Spruce & Broadway Subsystem 1R	219
20	3MC-4L	Metropolitan & Broadway Subsystem 4L	214
21	3MCSB-18th St	Replace 18th Street arch on South Branch w/10' x 10' RCB	213
22	5MC-Main-N.Lawr.	Install parallel 8' x 8' RCB at New Lawrence Road on 5 Mile Creek	210
22	3MC-9L	Metropolitan & 18th Street Subsystem 9L	210
24	3MC-5R	15th & Osage Street Subsystem 5R	207
24	5MC-8R	East of 10th Avenue to Parkway Drive Subsystem 8R	207
26	5MC-4R	Hughes Road & Limit Street Subsystem 4R	203
27	3MC-S3L	18th & Sherman; 3 Mile Creek South Branch Subsystem S3L	200
28	5MC-9L	Limit Street to County Hwy 5 Subsystem 9L	199
29	3MC-6L	Metropolitan & 9th Street Subsystem 6L	198
29	3MC-S6R	West Leavenworth Tfwy to 20th & Spruce; 3 Mile Creek South Branch Subsystem S6R	198
29	5MC-2R	4th Street to V.A. Entrance Drive Subsystem 2R	198
32	3MCSB-19th St	Parallel conduits from 19th to 20th Street with new RCBs	197
32	5MC-10R	West Leavenworth Tfwy & 5 Mile Creek Subsystem 10R	197

**Table IX-3**  
**Stormwater Capital Improvements Projects (CIPs)**  
**Summary of Project Priority by Prioritization Index Number (PIN)**

Rank	CIP ID	Project Description	PIN
32	5MC-6L	14th & Limit Street Subsystem 6L	197
35	5MC-9R	West of 10th Avenue to 13th Street Subsystem 9R	195
36	3MC-7L	Metropolitan & 11th Street to 12th Street Subsystem 7L	191
37	5MC-1L	Marion, Evergreen, Pennsylvania & 4th Street Subsystem 1L	188
38	3MC-S8R	22nd & Spruce; 3 Mile Creek South Branch Subsystem S8R	185
39	3MC-Main-Ottawa	Replace Ottawa Street bridge with 4-11' x 11' RCBs and increase bridge top elevation	180
40	5MC-Main-2nd St	Replace bridge at 2nd Street and elevate top deck of bridge and approach; install new flood wall at WWTP	176
40	3MC-S5R	18th, 19th & Spruce; 3 Mile Creek South Branch Subsystem S5R	176
42	5MC-1R	Marion Street Subsystem 1R	172
43	5MC-6R	East of Shrine Park Road to Lakeview Drive Subsystem 6R	170
44	5MC-7R	Deerfield Street and Garland Avenue Subsystem 7R	168
45	3MC-S1R	10th & Cherokee; 3 Mile Creek South Branch Subsystem S1R	165
46	5MC-10L	22nd Street, Limit Street, & Vilas Street Subsystem 10L	162
47	3MC-S7R	21st & Kenton; 3 Mile Creek South Branch Subsystem S7R	161
48	3MC-1L	4th Street Subsystem 1L	159
49	5MC-3L	10th Avenue & Thornton Subsystem 3L	158
50	3MC-Main-Osage	Install flood levee for two structures east of 3 Mile Creek	151
50	3MC-Main-10th	Install flood levee for two structures south of 3 Mile Creek	151
52	5MC-8L	Candlewood & Tudor Drive Subsystem 8L	136
53	3MC-8R	20th & Dakota & Ottawa Subsystem 8R	134
54	5MC-11L	Hebbelin Drive & 23rd Street Subsystem 11L	115
55	3MC-S4L	21st & Choctaw; 3 Mile Creek South Branch Subsystem S4L	99
56	3MC-Main-Outfall	Line 3 Mile Creek from Shawnee Street to mouth of Missouri River with concrete trapezoidal channel	79



Leavenworth, Kansas		Date:	09/30	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:				
CIP Description/Location:	Install new open channel to divert subsystem 2R flows from Cherokee Street to Broadway bridge (Larkin project)			
<b>Criteria</b>	<b>Assessment</b>	<b>Weight</b>	<b>Rating</b>	<b>Score</b>
Health & Safety	high risk of death/injury due to failing arch	5	8	40
Economic Impact/Number Affected	>5 but <20 business units	4	7	28
Damage	loss of use, structural flooding documented	4	6	24
Size of Area Directly Affected	approx. 600ft x 500ft =- 7 ac	3	5	15
Frequency of Problem	estimate heavy rains, once/year	3	6	18
Environmental Impact	minimal	2	6	12
History of Problem, in Years	historical accounts of flooding since early 1900's	2	10	20
Investment Protection of System	yes: spend \$ now to avoid \$\$ later if catastrophe	2	8	16
Physical Condition of System	failing arch	2	10	20
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				194
Preliminary Cost Estimate =	120,000			
Adjusted Cost Estimate =	50			
Initial Evaluation Index =	194			
Prioritization Index Number =	391			

Leavenworth, Kansas	Date:	10/02	1996
Stormwater Capital Improvements Projects (CIPs)	B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:	3mc-8L		
CIP Description/Location:	Metropolitan & 16th to 14th & Kiowa Subsystem 8L with proposed detention pond north of Metropolitan		
<b>Criteria</b>	<b>Assessment</b>	<b>Weight</b>	<b>Rating</b>
Health & Safety	low to medium risk; residential & arterial streets	5	5
Economic Impact/Number Affected	~ 8 residential units	4	7
Damage	major problems reported in vicinity; structure flooding	4	5
Size of Area Directly Affected	approx. 3 ac	3	3
Frequency of Problem	estimate 1 in 1-5 years	3	4
Environmental Impact	positive due to detention pond	2	10
History of Problem, in Years	improvements first recommended in 1967 study	2	7
Investment Protection of System	yes; pond reduces need for downstream improvements	2	8
Physical Condition of System	estimate poor	2	8
Leverage of Dollars	financing from stormwater funds	1	1
Initial Evaluation Index =			161
Preliminary Cost Estimate =	134,404		
Adjusted Cost Estimate =	50		
Initial Evaluation Index =	161		
Prioritization Index Number =	322		

Leavenworth, Kansas		Date:	10/09	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:			5mc-7L	
CIP Description/Location:	17th Street & Vilas Street Subsystem 7L			
<b>Criteria</b>	<b>Assessment</b>	<b>Weight</b>	<b>Rating</b>	<b>Score</b>
Health & Safety	low to moderate risk of injury due to structure overtopping	5	5	25
Economic Impact/Number Affected	> 20 residential units	4	10	40
Damage	major & minor problems identified by City & others	4	5	20
Size of Area Directly Affected	approx. 2380ft x 150ft =- 8 ac	3	5	15
Frequency of Problem	estimate heavy rains, 1-2 times/year	3	6	18
Environmental Impact	minimal	2	6	12
History of Problem, in Years	improvements first recommended in 1967 study	2	7	14
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate poor	2	8	16
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				163
Preliminary Cost Estimate =		358,803		
Adjusted Cost Estimate =		55		
Initial Evaluation Index =		163		
Prioritization Index Number =		296		

Leavenworth, Kansas		Date:	10/02	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:		3mc-S1L		
CIP Description/Location:	13th & 14th & Shawnee & Delaware; 3mc South Branch Subsystem S1			
Criteria	Assessment	Weight	Rating	Score
Health & Safety	low risk on residential streets	5	4	20
Economic Impact/Number Affected	~ 7 residential units	4	7	28
Damage	major problems reported; estimate street/yard flooding	4	4	16
Size of Area Directly Affected	approx. 700ft x 150ft =~ 2.4 ac	3	3	9
Frequency of Problem	estimate heavy rains, 1-2 times/year	3	6	18
Environmental Impact	minimal	2	6	12
History of Problem, in Years	estimate 1-9 years	2	3	6
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate poor	2	8	16
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				128
Preliminary Cost Estimate =		64,181		
Adjusted Cost Estimate =		48		
Initial Evaluation Index =		128		
Prioritization Index Number =		265		

Leavenworth, Kansas		Date:	10/09	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:		5mc-5L		
CIP Description/Location:	Tenth Avenue & Limit Street Subsystem 5L			
<b>Criteria</b>	<b>Assessment</b>	<b>Weight</b>	<b>Rating</b>	<b>Score</b>
Health & Safety	low to moderate risk of injury due to structure overtopping	5	5	25
Economic Impact/Number Affected	~ 19 residential units	4	7	28
Damage	major problems reported	4	6	24
Size of Area Directly Affected	approx. 1950ft x 150ft == 7ac	3	5	15
Frequency of Problem	estimate heavy rains, 1-2 times/year	3	6	18
Environmental Impact	minimal	2	6	12
History of Problem, in Years	improvements first recommended in 1967 study	2	7	14
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate poor	2	8	16
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				155
Preliminary Cost Estimate =		541,090		
Adjusted Cost Estimate =		59		
Initial Evaluation Index =		155		
Prioritization Index Number =		261		

Leavenworth, Kansas		Date:	10/01	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529	110
Prioritization Score Sheet for CIP No.:		5mc-Main-10th		
CIP Description/Location:		Install parallel 8'x7' RCB at Tenth Avenue on 5mc		
Criteria	Assessment	Weight	Rating	Score
Health & Safety	high risk of death/injury due to road overtopping	5	8	40
Economic Impact/Number Affected	arterial or collector street	4	5	20
Damage	street flooding problem identified by City	4	4	16
Size of Area Directly Affected	approx. 800ft x 400ft ≈ 7 ac	3	5	15
Frequency of Problem	1 in 100 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	listed in 1993 bridge inspection report	2	3	6
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate average	2	3	6
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				121
Preliminary Cost Estimate =		40,500		
Adjusted Cost Estimate =		48		
Initial Evaluation Index =		121		
Prioritization Index Number =		253		

Leavenworth, Kansas		Date:	10/09	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:		5mc-5R		
CIP Description/Location:	Hughes Road & McDonald Road Subsystem 5R			
<b>Criteria</b>	<b>Assessment</b>	<b>Weight</b>	<b>Rating</b>	<b>Score</b>
Health & Safety	low to moderate risk of injury due to structure overtopping	5	5	25
Economic Impact/Number Affected	arterial or collector street	4	5	20
Damage	major & minor problems reported	4	4	16
Size of Area Directly Affected	approx. 600ft x 150ft =~ 2 ac	3	3	9
Frequency of Problem	estimate heavy rains, 1-2 times/year	3	6	18
Environmental Impact	minimal	2	6	12
History of Problem, in Years	improvements first recommended in 1967 study	2	7	14
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate average	2	3	6
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				123
Preliminary Cost Estimate =		120,285		
Adjusted Cost Estimate =		50		
Initial Evaluation Index =		123		
Prioritization Index Number =		248		

Leavenworth, Kansas		Date:	10/09	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529	110
Prioritization Score Sheet for CIP No.:		5mc-2L		
CIP Description/Location:		Santa Fe & 2nd Street Subsystem 2L		
<b>Criteria</b>	<b>Assessment</b>	<b>Weight</b>	<b>Rating</b>	<b>Score</b>
Health & Safety	low to moderate risk of injury due to structure overtopping	5	5	25
Economic Impact/Number Affected	> 20 residential/commercial units	4	10	40
Damage	major problems reported	4	5	20
Size of Area Directly Affected	approx. 3300ft x 150ft == 11.4 ac	3	5	15
Frequency of Problem	1 in 10 or 50 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	improvements first recommended in 1967 study	2	7	14
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate poor	2	8	16
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				148
Preliminary Cost Estimate =		623,252		
Adjusted Cost Estimate =		61		
Initial Evaluation Index =		148		
Prioritization Index Number =		242		



Leavenworth, Kansas		Date:	10/02	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:		3mc-5L		
CIP Description/Location:	Broadway & Three Mile Creek Subsystem 5L			
<b>Criteria</b>	<b>Assessment</b>	<b>Weight</b>	<b>Rating</b>	<b>Score</b>
Health & Safety	low risk on residential street	5	4	20
Economic Impact/Number Affected	< 5 residential/commercial units	4	3	12
Damage	flooding problem identified by City	4	4	16
Size of Area Directly Affected	approx. 300ft x 200ft =~ 1.4 ac	3	3	9
Frequency of Problem	1 in 10 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	documented problem area since early 1900's	2	10	20
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate poor	2	8	16
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				111
Preliminary Cost Estimate =		46,580		
Adjusted Cost Estimate =		48		
Initial Evaluation Index =		111		
Prioritization Index Number =		231		

Leavenworth, Kansas		Date:	10/09	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:		5mc-4L		
CIP Description/Location:	West of Shrine Park Road to Goddard Circle Subsystem 4L			
<b>Criteria</b>	<b>Assessment</b>	<b>Weight</b>	<b>Rating</b>	<b>Score</b>
Health & Safety	moderate risk of injury due to structure overtopping	5	6	30
Economic Impact/Number Affected	arterial or collector street	4	5	20
Damage	major problems reported by City and residents	4	4	16
Size of Area Directly Affected	approx. 900ft x 150ft =- 3 ac	3	3	9
Frequency of Problem	estimate moderate rains, 3-5 times/year	3	8	24
Environmental Impact	negative, due to enclosing natural channels	2	1	2
History of Problem, in Years	improvements first recommended in 1967 study	2	7	14
Investment Protection of System	yes, by combining with Shrine Park Rd elevation project	2	6	12
Physical Condition of System	estimate poor	2	8	16
Leverage of Dollars	financing partly from street funds (26-50%)	1	6	6
Initial Evaluation Index =				149
Preliminary Cost Estimate =	798,996			
Adjusted Cost Estimate =	65			
Initial Evaluation Index =	149			
Prioritization Index Number =	228			

Leavenworth, Kansas		Date:	10/01	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:			5mc-Main-Limit/2nd	
CIP Description/Location:	Elevate bridge and road at junction of Limit Street and Second Avenue 5mc; install berm around low-lying structure			
<b>Criteria</b>	<b>Assessment</b>	<b>Weight</b>	<b>Rating</b>	<b>Score</b>
Health & Safety	high risk of death/injury due to road overtopping	5	8	40
Economic Impact/Number Affected	arterial or collector street	4	5	20
Damage	street flooding problem identified by City	4	4	16
Size of Area Directly Affected	approx. .5 x 400ft x 500ft == 2 ac	3	3	9
Frequency of Problem	1 in 100 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	bridges at Limit & at 2nd overtopping in 1977 FEMA stud	2	7	14
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate average	2	3	6
Leverage of Dollars	structure on "HBRRP Selection List" eligible for Fed fund	1	10	10
Initial Evaluation Index =				132
Preliminary Cost Estimate =		504,200		
Adjusted Cost Estimate =		58		
Initial Evaluation Index =		132		
Prioritization Index Number =		226		

Leavenworth, Kansas		Date:	10/02	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:			3mc-2R	
CIP Description/Location:	Ohio to Spruce & 10th Street Subsystem 2R			
<b>Criteria</b>	<b>Assessment</b>	<b>Weight</b>	<b>Rating</b>	<b>Score</b>
Health & Safety	low to moderate risk, residential & arterial streets	5	5	25
Economic Impact/Number Affected	> 20 residential/commercial units	4	10	40
Damage	multiple major & minor problems reported	4	6	24
Size of Area Directly Affected	approx. 6717ft x 150ft =~ 23 ac	3	5	15
Frequency of Problem	estimate heavy rains (1-2 times/year)	3	6	18
Environmental Impact	minimal	2	6	12
History of Problem, in Years	improvements first recommended in 1967 study	2	7	14
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate poor	2	8	16
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				167
Preliminary Cost Estimate =		1,208,717		
Adjusted Cost Estimate =		75		
Initial Evaluation Index =		167		
Prioritization Index Number =		224		

Leavenworth, Kansas		Date:	10/01	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:			3mc-SB-Cherokee	
CIP Description/Location:	Replace existing Cherokee Street arch on 3mc South Branch w/ 2- 10'x10' RCB			
<b>Criteria</b>	<b>Assessment</b>	<b>Weight</b>	<b>Rating</b>	<b>Score</b>
Health & Safety	high risk of death/injury due to road overtopping	5	8	40
Economic Impact/Number Affected	>5 but <20 residential units	4	7	28
Damage	no damages reported	4	1	4
Size of Area Directly Affected	approx. 600ft x 300ft =~ 4 ac	3	3	9
Frequency of Problem	1 in 100 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	structure overtopping indicated in 1977 FEMA report	2	7	14
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate average	2	3	6
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				119
Preliminary Cost Estimate =		267,000		
Adjusted Cost Estimate =		53		
Initial Evaluation Index =		119		
Prioritization Index Number =		224		

Leavenworth, Kansas		Date:	09/30	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:				
CIP Description/Location:	Remove existing Sixth Street bridge on 3mc and replace w/ 4-16'x16' R			
<b>Criteria</b>	<b>Assessment</b>	<b>Weight</b>	<b>Rating</b>	<b>Score</b>
Health & Safety	high risk of death/injury due to road overtopping	5	8	40
Economic Impact/Number Affected	2 residential and 4 commercial units	4	7	28
Damage	no damages reported	4	1	4
Size of Area Directly Affected	approx. 4-5 ac	3	3	9
Frequency of Problem	1 in 100 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	flood stage higher than bridge deck in 1970 Corps report	2	7	14
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate average	2	3	6
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				119
Preliminary Cost Estimate =		274,000		
Adjusted Cost Estimate =		53		
Initial Evaluation Index =		119		
Prioritization Index Number =		224		

Leavenworth, Kansas		Date:	10/02	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529	110
Prioritization Score Sheet for CIP No.:		3mc-7R		
CIP Description/Location:	Ottawa & 20th Subsystem 7R			
<b>Criteria</b>	<b>Assessment</b>	<b>Weight</b>	<b>Rating</b>	<b>Score</b>
Health & Safety	moderate risk on arterial street	5	6	30
Economic Impact/Number Affected	arterial or collector street	4	5	20
Damage	major & minor problems reported in vicinity	4	4	16
Size of Area Directly Affected	approx. 1050ft x 100ft = 2.4 ac	3	3	9
Frequency of Problem	1 in 50 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	estimate 1-9 years	2	3	6
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate poor	2	8	16
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				115
Preliminary Cost Estimate =		205,469		
Adjusted Cost Estimate =		52		
Initial Evaluation Index =		115		
Prioritization Index Number =		223		

Leavenworth, Kansas		Date:	10/02	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:		3mc-6R		
CIP Description/Location:	Shawnee & 20th to 18th & Osage Subsystem 6R			
<b>Criteria</b>	<b>Assessment</b>	<b>Weight</b>	<b>Rating</b>	<b>Score</b>
Health & Safety	low to medium risk; residential & arterial streets	5	5	25
Economic Impact/Number Affected	> 20 residential units	4	10	40
Damage	major & minor problems reported; structures flooding	4	6	24
Size of Area Directly Affected	approx. 5800ft x 150ft =~ 20 ac	3	5	15
Frequency of Problem	estimate 1 in 1-5 years	3	4	12
Environmental Impact	minimal	2	6	12
History of Problem, in Years	improvements first recommended in 1967 study	2	7	14
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate poor	2	8	16
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				161
Preliminary Cost Estimate =		1,096,353		
Adjusted Cost Estimate =		72		
Initial Evaluation Index =		161		
Prioritization Index Number =		223		



Leavenworth, Kansas		Date:	09/30	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:			3mc-Main-13th St	
CIP Description/Location:	Replace existing 13th Street bridge on 3mc w/ 3- 12'x12' RCB and increase deck top elevation			
<b>Criteria</b>	<b>Assessment</b>	<b>Weight</b>	<b>Rating</b>	<b>Score</b>
Health & Safety	high risk of death/injury due to road overtopping	5	8	40
Economic Impact/Number Affected	arterial or collector street	4	5	20
Damage	minor problem reported	4	2	8
Size of Area Directly Affected	approx. 400ft x 200ft =~ 2 ac	3	3	9
Frequency of Problem	1 in 100 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	structure overtopping indicated in 1977 FEMA report	2	7	14
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate average	2	3	6
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				115
Preliminary Cost Estimate =		216,000		
Adjusted Cost Estimate =		52		
Initial Evaluation Index =		115		
Prioritization Index Number =		222		

Leavenworth, Kansas		Date:	10/09	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:		5mc-3R		
CIP Description/Location:		4th Street Subsystem 3R		
<b>Criteria</b>	<b>Assessment</b>	<b>Weight</b>	<b>Rating</b>	<b>Score</b>
Health & Safety	moderate risk of injury due to structure overtopping	5	6	30
Economic Impact/Number Affected	7 commercial units	4	7	28
Damage	major problem reported	4	4	16
Size of Area Directly Affected	approx. 950ft x 150ft =~ 3.3 ac	3	3	9
Frequency of Problem	1 in 50 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	estimate 1-9 years	2	3	6
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate average	2	3	6
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				113
Preliminary Cost Estimate =		175,801		
Adjusted Cost Estimate =		51		
Initial Evaluation Index =		113		
Prioritization Index Number =		222		

Leavenworth, Kansas		Date:	10/02	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:		3mc-1R		
CIP Description/Location:		Ohio to Spruce & Broadway Subsystem 1R		
<b>Criteria</b>	<b>Assessment</b>	<b>Weight</b>	<b>Rating</b>	<b>Score</b>
Health & Safety	low risk on residential streets	5	4	20
Economic Impact/Number Affected	> 20 residential units	4	10	40
Damage	major problems reported in vicinity	4	6	24
Size of Area Directly Affected	approx. 4800ft x 150ft =~ 16 ac	3	5	15
Frequency of Problem	1 in 10 or 50 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	improvements first recommended in 1967 study	2	7	14
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate poor	2	8	16
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				147
Preliminary Cost Estimate =		885,011		
Adjusted Cost Estimate =		67		
Initial Evaluation Index =		147		
Prioritization Index Number =		219		

Leavenworth, Kansas		Date:	10/02	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529	110
Prioritization Score Sheet for CIP No.:		3mc-4L		
CIP Description/Location:	Metropolitan & Broadway Subsystem 4L			
<b>Criteria</b>	<b>Assessment</b>	<b>Weight</b>	<b>Rating</b>	<b>Score</b>
Health & Safety	low risk on residential streets	5	4	20
Economic Impact/Number Affected	> 20 residential units	4	10	40
Damage	minor problems reported in vicinity	4	6	24
Size of Area Directly Affected	approx. 3400ft x 150ft =~ 12 ac	3	5	15
Frequency of Problem	1 in 10 or 50 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	improvements first recommended in 1967 study	2	7	14
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate poor	2	8	16
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				147
Preliminary Cost Estimate =		940,640		
Adjusted Cost Estimate =		69		
Initial Evaluation Index =		147		
Prioritization Index Number =		214		

Leavenworth, Kansas		Date:	10/01	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:				
CIP Description/Location:	Replace existing 18th Street arch on 3mc South Branch w/ 10'x10' RCE			
<b>Criteria</b>	<b>Assessment</b>	<b>Weight</b>	<b>Rating</b>	<b>Score</b>
Health & Safety	high risk of death/injury due to road overtopping	5	8	40
Economic Impact/Number Affected	2 residential units	4	3	12
Damage	no damages reported	4	1	4
Size of Area Directly Affected	approx. 400ft x 200ft =- 2 ac	3	3	9
Frequency of Problem	1 in 100 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	structure overtopping indicated in 1977 FEMA report	2	7	14
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate average	2	3	6
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				103
Preliminary Cost Estimate =		65,300		
Adjusted Cost Estimate =		48		
Initial Evaluation Index =		103		
Prioritization Index Number =		213		

Leavenworth, Kansas		Date:	10/01	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:				
CIP Description/Location:	Install parallel 8'x8' RCB at New Lawrence Road on 5mc			
<b>Criteria</b>	<b>Assessment</b>	<b>Weight</b>	<b>Rating</b>	<b>Score</b>
Health & Safety	high risk of death/injury due to road overtopping	5	8	40
Economic Impact/Number Affected	residential street	4	1	4
Damage	no damages reported	4	1	4
Size of Area Directly Affected	approx. 1000ft x 400ft =~ 9 ac	3	5	15
Frequency of Problem	1 in 100 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	bridge indicated as overtopping in 1977 FEMA study	2	7	14
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate average	2	3	6
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				101
Preliminary Cost Estimate =		47,000		
Adjusted Cost Estimate =		48		
Initial Evaluation Index =		101		
Prioritization Index Number =		210		

Leavenworth, Kansas		Date:	10/02	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:		3mc-9L		
CIP Description/Location:	Metropolitan & 18th Subsystem 9L			
<b>Criteria</b>	<b>Assessment</b>	<b>Weight</b>	<b>Rating</b>	<b>Score</b>
Health & Safety	moderate risk on arterial street	5	6	30
Economic Impact/Number Affected	arterial or collector street	4	5	20
Damage	major problem in vicinity; yard flooding	4	2	8
Size of Area Directly Affected	approx. 50ft x 450ft < 1 ac	3	1	3
Frequency of Problem	1 in 50 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	improvements first recommended in 1967 study	2	7	14
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate average	2	3	6
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				99
Preliminary Cost Estimate =		8,612		
Adjusted Cost Estimate =		47		
Initial Evaluation Index =		99		
Prioritization Index Number =		210		

Leavenworth, Kansas		Date:	10/02	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:		3mc-5R		
CIP Description/Location:		15th & Osage Subsystem 5R		
Criteria	Assessment	Weight	Rating	Score
Health & Safety	low risk on residential streets	5	4	20
Economic Impact/Number Affected	2 residential units	4	3	12
Damage	minor problem reported in vicinity	4	4	16
Size of Area Directly Affected	approx. 200ft x 100ft < 1 ac	3	1	3
Frequency of Problem	estimate once every 1-5 years	3	4	12
Environmental Impact	minimal	2	6	12
History of Problem, in Years	improvements first recommended in 1967 study	2	7	14
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate average	2	3	6
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				98
Preliminary Cost Estimate =		18,920		
Adjusted Cost Estimate =		47		
Initial Evaluation Index =		98		
Prioritization Index Number =		207		



Leavenworth, Kansas		Date:	10/09	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:		5mc-8R		
CIP Description/Location:		East of Tenth Avenue to Parkway Drive Subsystem 8R		
Criteria	Assessment	Weight	Rating	Score
Health & Safety	low to moderate risk of injury due to structure overtopping	5	5	25
Economic Impact/Number Affected	6-20 residential units	4	7	28
Damage	Structural flooding problem identified by City	4	5	20
Size of Area Directly Affected	approx. 2070ft x 150ft == 7 ac	3	5	15
Frequency of Problem	1 in 10 or 50 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	estimate 1-9 years	2	3	6
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate average	2	3	6
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				118
Preliminary Cost Estimate =		437,457		
Adjusted Cost Estimate =		57		
Initial Evaluation Index =		118		
Prioritization Index Number =		207		

Leavenworth, Kansas		Date:	10/09	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:			5mc-4R	
CIP Description/Location:	Hughes Road & Limit Street Subsystem 4R			
<b>Criteria</b>	<b>Assessment</b>	<b>Weight</b>	<b>Rating</b>	<b>Score</b>
Health & Safety	moderate risk of injury due to structure overtopping	5	6	30
Economic Impact/Number Affected	arterial or collector street	4	5	20
Damage	street flooding problem identified by City	4	4	16
Size of Area Directly Affected	approx. 800ft x 150ft == 2.8 ac	3	3	9
Frequency of Problem	1 in 50 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	improvements first recommended in 1967 study	2	7	14
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate average	2	3	6
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				113
Preliminary Cost Estimate =		384,948		
Adjusted Cost Estimate =		56		
Initial Evaluation Index =		113		
Prioritization Index Number =		203		

Leavenworth, Kansas		Date:	10/02	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:		3mc-S3L		
CIP Description/Location:		18th & Sherman; 3mc South Branch Subsystem S3L		
Criteria	Assessment	Weight	Rating	Score
Health & Safety	moderate risk on arterial street	5	6	30
Economic Impact/Number Affected	arterial or collector street	4	5	20
Damage	none reported in vicinity	4	1	4
Size of Area Directly Affected	approx. 50ft x 100ft < 1 ac	3	1	3
Frequency of Problem	1 in 50 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	improvements first recommended in 1967 study	2	7	14
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate average	2	3	6
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				95
Preliminary Cost Estimate =		26,362		
Adjusted Cost Estimate =		48		
Initial Evaluation Index =		95		
Prioritization Index Number =		200		

Leavenworth, Kansas  
 Stormwater Capital Improvements Projects (CIPs)

Date: 10/09 1996  
 B&V PN 26529.110

Prioritization Score Sheet for CIP No.:

5mc-9L

CIP Description/Location: Limit Street to County Hwy 5 Subsystem 9L

Criteria	Assessment	Weight	Rating	Score
Health & Safety	moderate risk of injury due to structure overtopping	5	6	30
Economic Impact/Number Affected	arterial or collector street	4	5	20
Damage	none reported	4	1	4
Size of Area Directly Affected	approx. 200ft x 150ft < 1 ac	3	1	3
Frequency of Problem	1 in 50 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	not known or reported prior	2	1	2
Investment Protection of System	yes, spend \$ now on re-design before construction starts	2	6	12
Physical Condition of System	good (not yet built)	2	1	2
Leverage of Dollars	financing partly from street funds (26-50%)	1	6	6
Initial Evaluation Index =				94

Preliminary Cost Estimate =	13,968			
Adjusted Cost Estimate =	47			
Initial Evaluation Index =	94			
Prioritization Index Number =	199			

Leavenworth, Kansas		Date:	10/02	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:		3mc-6L		
CIP Description/Location:	Metropolitan & 9th Street Subsystem 6L			
<b>Criteria</b>	<b>Assessment</b>	<b>Weight</b>	<b>Rating</b>	<b>Score</b>
Health & Safety	low risk on residential streets	5	4	20
Economic Impact/Number Affected	6-20 residential units	4	7	28
Damage	major problem reported; estimate yard flooding	4	2	8
Size of Area Directly Affected	approx. 1200ft x 100ft == 3 ac	3	3	9
Frequency of Problem	1 in 10 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	improvements first recommended in 1967 study	2	7	14
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate average	2	3	6
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				103
Preliminary Cost Estimate =	221,150			
Adjusted Cost Estimate =	52			
Initial Evaluation Index =	103			
Prioritization Index Number =	198			

Leavenworth, Kansas		Date:	10/02	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:		3mc-S6R		
CIP Description/Location:		W Lvnworth Tfwy to 20th & Spruce; 3mc South Branch Subsystem S6R		
Criteria	Assessment	Weight	Rating	Score
Health & Safety	moderate risk on arterial street	5	6	30
Economic Impact/Number Affected	arterial	4	5	20
Damage	none	4	1	4
Size of Area Directly Affected	< 1 acre	3	1	3
Frequency of Problem	1 in 50 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	< 1 year	2	1	2
Investment Protection of System	yes; spend \$ now on design to save \$\$ later	2	6	12
Physical Condition of System	good (non-existant)	2	1	2
Leverage of Dollars	financing partly from street funds (26-50%)	1	6	6
Initial Evaluation Index =				94
Preliminary Cost Estimate =		22,246		
Adjusted Cost Estimate =		47		
Initial Evaluation Index =		94		
Prioritization Index Number =		198		

Leavenworth, Kansas	Date:	11/04	1996
Stormwater Capital Improvements Projects (CIPs)	B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:	5mc-2R		
<b>CIP Description/Location:</b> 4th Street to V.A. Entrance Drive Subsystem 2R			
<b>Criteria</b>	<b>Assessment</b>	<b>Weight</b>	<b>Rating</b>
Health & Safety	low to moderate risk of injury due to structure overtopping	5	5
Economic Impact/Number Affected	7 residential/commercial units	4	7
Damage	multiple major problems	4	6
Size of Area Directly Affected	approx. 1912ft x 150ft == 6.6 ac	3	5
Frequency of Problem	est. once every 1-5 yrs	3	4
Environmental Impact	minimal	2	6
History of Problem, in Years	improvements first recommended in 1967 study	2	7
Investment Protection of System	no	2	1
Physical Condition of System	estimate poor	2	8
Leverage of Dollars	financing from stormwater funds	1	1
<b>Initial Evaluation Index =</b>			<b>149</b>
<b>Preliminary Cost Estimate =</b>	1,225,170		
<b>Adjusted Cost Estimate =</b>	75		
<b>Initial Evaluation Index =</b>	149		
<b>Prioritization Index Number =</b>	198		

Leavenworth, Kansas		Date:	10/01	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:				
CIP Description/Location:	Parallel existing conduits from 19th Street to 20th Street w/ new RCBs			
<b>Criteria</b>	<b>Assessment</b>	<b>Weight</b>	<b>Rating</b>	<b>Score</b>
Health & Safety	high risk of death/injury due to structures overtopping	5	8	40
Economic Impact/Number Affected	< 5 commercial units	4	3	12
Damage	no damages reported	4	1	4
Size of Area Directly Affected	approx. 700ft x 400ft == 6 ac	3	5	15
Frequency of Problem	1 in 100 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	structure overtopping indicated in 1977 FEMA report	2	7	14
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate average	2	3	6
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				109
Preliminary Cost Estimate =		372,000		
Adjusted Cost Estimate =		55		
Initial Evaluation Index =		109		
Prioritization Index Number =		197		



Leavenworth, Kansas	Date:	10/09	1996	
Stormwater Capital Improvements Projects (CIPs)	B&V PN	26529.110		
Prioritization Score Sheet for CIP No.:		5mc-10R		
CIP Description/Location:	West Leavenworth Tfwy & Five Mile Creek Subsystem 10R			
Criteria	Assessment	Weight	Rating	Score
Health & Safety	moderate risk of injury due to structure overtopping	5	6	30
Economic Impact/Number Affected	arterial or collector street	4	5	20
Damage	none reported	4	1	4
Size of Area Directly Affected	approx. 300ft x 100ft < 1 ac	3	1	3
Frequency of Problem	1 in 50 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	not known or reported prior	2	1	2
Investment Protection of System	yes, spend \$ now on re-design before construction starts	2	6	12
Physical Condition of System	good (not yet built)	2	1	2
Leverage of Dollars	financing partly from street funds (26-50%)	1	6	6
Initial Evaluation Index =				94
Preliminary Cost Estimate =	38,455			
Adjusted Cost Estimate =	48			
Initial Evaluation Index =	94			
Prioritization Index Number =	197			

Leavenworth, Kansas		Date:	10/09	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:		5mc-6L		
CIP Description/Location:		14th Street & Limit Street Subsystem 6L		
Criteria	Assessment	Weight	Rating	Score
Health & Safety	low to moderate risk of injury due to structure overtopping	5	5	25
Economic Impact/Number Affected	14 residential units	4	7	28
Damage	minor problem reported	4	2	8
Size of Area Directly Affected	approx. 1950ft x 150ft =~ 7ac	3	5	15
Frequency of Problem	1 in 10 or 50 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	improvements first recommended in 1967 study	2	7	14
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate average	2	3	6
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				114
Preliminary Cost Estimate =		482,553		
Adjusted Cost Estimate =		58		
Initial Evaluation Index =		114		
Prioritization Index Number =		197		

Leavenworth, Kansas		Date:	10/09	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:			5mc-9R	
CIP Description/Location:	West of Tenth Avenue to 13th Street Subsystem 9R			
<b>Criteria</b>	<b>Assessment</b>	<b>Weight</b>	<b>Rating</b>	<b>Score</b>
Health & Safety	moderate risk of injury due to structure overtopping	5	6	30
Economic Impact/Number Affected	arterial or collector street	4	5	20
Damage	street flooding problem identified by City	4	4	16
Size of Area Directly Affected	approx. 200ft x 150ft < 1 ac	3	1	3
Frequency of Problem	estimate once every 1-5 years	3	4	12
Environmental Impact	minimal	2	6	12
History of Problem, in Years	estimate 1-9 years	2	3	6
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate average	2	3	6
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				108
Preliminary Cost Estimate =		368,846		
Adjusted Cost Estimate =		55		
Initial Evaluation Index =		108		
Prioritization Index Number =		195		

Leavenworth, Kansas		Date:	10/02	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:		3mc-7L		
CIP Description/Location:	Metropolitan & 11th Street to 12th Street Subsystem 7L			
Criteria	Assessment	Weight	Rating	Score
Health & Safety	low risk on residential streets	5	4	20
Economic Impact/Number Affected	~ 7 residential units	4	7	28
Damage	no reported problems in vicinity	4	1	4
Size of Area Directly Affected	approx. 400ft x 100ft < 1 ac	3	1	3
Frequency of Problem	1 in 10 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	improvements first recommended in 1967 study	2	7	14
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate average	2	3	6
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				93
Preliminary Cost Estimate =		75,568		
Adjusted Cost Estimate =		49		
Initial Evaluation Index =		93		
Prioritization Index Number =		191		

Leavenworth, Kansas		Date: 10/09	1996	
Stormwater Capital Improvements Projects (CIPs)		B&V PN 26529.110		
Prioritization Score Sheet for CIP No.:		5mc-1L		
CIP Description/Location:		Marion, Evergreen, Pennsylvania & 4th Street Subsystem 1L		
Criteria	Assessment	Weight	Rating	Score
Health & Safety	moderate risk of injury due to structure overtopping	5	6	30
Economic Impact/Number Affected	6-20 residential commercial units	4	7	28
Damage	minor problem reported	4	2	8
Size of Area Directly Affected	approx. 1900ft x 150ft == 6.5 ac	3	5	15
Frequency of Problem	1 in 10 or 50 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	estimate 1-9 years	2	3	6
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate average	2	3	6
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				111
Preliminary Cost Estimate =		522,986		
Adjusted Cost Estimate =		59		
Initial Evaluation Index =		111		
Prioritization Index Number =		188		

Leavenworth, Kansas		Date:	10/02	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:		3mc-S8R		
CIP Description/Location:	22nd & Spruce; 3mc South Branch Subsystem	S8R		
<b>Criteria</b>	<b>Assessment</b>	<b>Weight</b>	<b>Rating</b>	<b>Score</b>
Health & Safety	moderate risk on arterial street	5	6	30
Economic Impact/Number Affected	arterial or collector street	4	5	20
Damage	none reported	4	1	4
Size of Area Directly Affected	approx. 300ft x 150ft =~ 1 ac	3	3	9
Frequency of Problem	1 in 50 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	not known or reported prior	2	1	2
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate average	2	3	6
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				89
Preliminary Cost Estimate =		56,111		
Adjusted Cost Estimate =		48		
Initial Evaluation Index =		89		
Prioritization Index Number =		185		

Leavenworth, Kansas		Date:	09/30	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:			3mc-Main-Ottawa	
CIP Description/Location:	Replace existing Ottawa Street bridge on 3mc w/ 4- 11'x11' RCB and increase bridge top elevation			
<b>Criteria</b>	<b>Assessment</b>	<b>Weight</b>	<b>Rating</b>	<b>Score</b>
Health & Safety	high risk of death/injury due to road overtopping	5	8	40
Economic Impact/Number Affected	arterial or collector street	4	5	20
Damage	no damages reported	4	1	4
Size of Area Directly Affected	approx. 200ft x 400ft ≈ 2 ac	3	3	9
Frequency of Problem	1 in 100 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	listed in 1993 bridge inspection report	2	3	6
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate average	2	3	6
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				103
Preliminary Cost Estimate =		455,000		
Adjusted Cost Estimate =		57		
Initial Evaluation Index =		103		
Prioritization Index Number =		180		

Leavenworth, Kansas		Date: 10/01	1996	
Stormwater Capital Improvements Projects (CIPs)		B&V PN 26529.110		
Prioritization Score Sheet for CIP No.:		5mc-Main-2nd St		
CIP Description/Location:	Remove and replace bridge at 2nd Street on 5mc and elevate top deck of bridge and approach; install new flood wall at wastewater plant			
Criteria	Assessment	Weight	Rating	Score
Health & Safety	high risk of death/injury due to road overtopping	5	8	40
Economic Impact/Number Affected	> 20 commercial units	4	10	40
Damage	loss of use reported	4	5	20
Size of Area Directly Affected	approx. 1200ft x 400ft =- 11 ac	3	5	15
Frequency of Problem	1 in 100 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	historical accounts document flooding since early 1900's	2	10	20
Investment Protection of System	yes: \$ spent now protects plant from future flood damage	2	6	12
Physical Condition of System	estimate average	2	3	6
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				169
Preliminary Cost Estimate =		2,137,000		
Adjusted Cost Estimate =		96		
Initial Evaluation Index =		169		
Prioritization Index Number =		176		



Leavenworth, Kansas		Date:	10/02	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:		3mc-S5R		
CIP Description/Location:	18th & 19th & Spruce, 3mc South Branch Subsystem S5R			
Criteria	Assessment	Weight	Rating	Score
Health & Safety	moderate risk on arterial street	5	6	30
Economic Impact/Number Affected	arterial or collector street	4	5	20
Damage	none reported	4	1	4
Size of Area Directly Affected	< 1 acre	3	1	3
Frequency of Problem	1 in 50 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	not known or reported prior	2	1	2
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate average	2	3	6
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				83
Preliminary Cost Estimate =		13,208		
Adjusted Cost Estimate =		47		
Initial Evaluation Index =		83		
Prioritization Index Number =		176		

Leavenworth, Kansas		Date:	10/09	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:		5mc-1R		
CIP Description/Location:	Marion Street Subsystem 1R			
<b>Criteria</b>	<b>Assessment</b>	<b>Weight</b>	<b>Rating</b>	<b>Score</b>
Health & Safety	moderate risk of injury due to structure overtopping	5	6	30
Economic Impact/Number Affected	arterial or collector street	4	5	20
Damage	no damages reported	4	1	4
Size of Area Directly Affected	approx. 900ft x 150 =~ 3 ac	3	3	9
Frequency of Problem	1 in 50 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	not known or reported prior	2	1	2
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate average	2	3	6
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				89
Preliminary Cost Estimate =		214,078		
Adjusted Cost Estimate =		52		
Initial Evaluation Index =		89		
Prioritization Index Number =		172		

Leavenworth, Kansas		Date:	10/09	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:		5mc-6R		
CIP Description/Location:		East of Shrine Park Road to Lakeview Drive Subsystem 6R		
Criteria	Assessment	Weight	Rating	Score
Health & Safety	low risk of injury due to structure overtopping	5	4	20
Economic Impact/Number Affected	3 residential units	4	3	12
Damage	minor problems reported	4	2	8
Size of Area Directly Affected	approx. 200ft x 150ft < 1 ac	3	1	3
Frequency of Problem	1 in 10 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	improvements first recommended in 1967 study	2	7	14
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate average	2	3	6
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				81
Preliminary Cost Estimate =		28,200		
Adjusted Cost Estimate =		48		
Initial Evaluation Index =		81		
Prioritization Index Number =		170		

Leavenworth, Kansas	Date: 10/09 1996
Stormwater Capital Improvements Projects (CIPs)	B&V PN 26529.110
Prioritization Score Sheet for CIP No.:	5mc-7R

CIP Description/Location:	Deerfield Street & Garland Avenue Subsystem 7R
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Criteria	Assessment	Weight	Rating	Score
Health & Safety	low risk of injury due to structure overtopping	5	4	20
Economic Impact/Number Affected	5 residential units	4	3	12
Damage	minor problems reported	4	2	8
Size of Area Directly Affected	approx. 200ft x 150ft < 1 ac	3	1	3
Frequency of Problem	1 in 10 or 50 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	improvements first recommended in 1967 study	2	7	14
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate average	2	3	6
Leverage of Dollars	financing from stormwater funds	1	1	1

Initial Evaluation Index =				81
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Preliminary Cost Estimate =	54,870			
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Adjusted Cost Estimate =	48			
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Initial Evaluation Index =	81			
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Prioritization Index Number =	168			
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Leavenworth, Kansas		Date:	10/02	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.1	10
Prioritization Score Sheet for CIP No.:			3mc-S1R	
CIP Description/Location:	10th & Cherokee, 3mc South Branch Subsystem S1R			
<b>Criteria</b>	<b>Assessment</b>	<b>Weight</b>	<b>Rating</b>	<b>Score</b>
Health & Safety	low to moderate risk; residential & arterial streets	5	5	25
Economic Impact/Number Affected	arterial or collector street	4	5	20
Damage	none reported in vicinity	4	1	4
Size of Area Directly Affected	approx. 75ft x 200ft < 1 ac	3	1	3
Frequency of Problem	1 in 50 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	not known or reported prior	2	1	2
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate average	2	3	6
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				78
Preliminary Cost Estimate =		17,412		
Adjusted Cost Estimate =		47		
Initial Evaluation Index =		78		
Prioritization Index Number =		165		

Leavenworth, Kansas		Date:	10/09	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:		5mc-10L		
CIP Description/Location:	22nd Street & Limit Street & Vilas Street Subsystem 10L			
Criteria	Assessment	Weight	Rating	Score
Health & Safety	low risk of injury due to structure overtopping	5	4	20
Economic Impact/Number Affected	2 residential units	4	3	12
Damage	none reported	4	1	4
Size of Area Directly Affected	approx. 200ft x 150ft < 1 ac	3	1	3
Frequency of Problem	1 in 10 or 50 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	improvements first recommended in 1967 study	2	7	14
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate average	2	3	6
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				77
Preliminary Cost Estimate =		33,384		
Adjusted Cost Estimate =		48		
Initial Evaluation Index =		77		
Prioritization Index Number =		162		

Leavenworth, Kansas	Date: 10/02 1996
Stormwater Capital Improvements Projects (CIPs)	B&V PN 26529.110
Prioritization Score Sheet for CIP No.:	3mc-S7R

CIP Description/Location:	21st & Kenton; 3mc South Branch Subsystem S7R
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Criteria	Assessment	Weight	Rating	Score
Health & Safety	low risk on residential streets	5	4	20
Economic Impact/Number Affected	< 5 residential units	4	3	12
Damage	none reported	4	1	4
Size of Area Directly Affected	approx. 300ft x 100ft <1 ac	3	1	3
Frequency of Problem	1 in 10 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	improvements first recommended in 1967 study	2	7	14
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate average	2	3	6
Leverage of Dollars	financing from stormwater funds	1	1	1

Initial Evaluation Index =				77
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Preliminary Cost Estimate =	42,723			
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Adjusted Cost Estimate =	48			
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Initial Evaluation Index =	77			
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Prioritization Index Number =	161			
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Leavenworth, Kansas		Date:	10/01	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:		3mc-1L		
CIP Description/Location:	4th Street Subsystem 1L			
<b>Criteria</b>	<b>Assessment</b>	<b>Weight</b>	<b>Rating</b>	<b>Score</b>
Health & Safety	moderate risk on arterial street	5	6	30
Economic Impact/Number Affected	between 6-20 commercial units	4	7	28
Damage	minor problems reported in vicinity	4	2	8
Size of Area Directly Affected	approx. 400ft x 1500ft == 14 ac	3	5	15
Frequency of Problem	1 in 10 or 50 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	estimate 1-9 years	2	3	6
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate poor	2	8	16
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				121
Preliminary Cost Estimate =		1,278,437		
Adjusted Cost Estimate =		76		
Initial Evaluation Index =		121		
Prioritization Index Number =		159		



Leavenworth, Kansas		Date:	10/09	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:		5mc-3L		
CIP Description/Location:		Tenth Avenue & Thornton Subsystem 3L		
<b>Criteria</b>	<b>Assessment</b>	<b>Weight</b>	<b>Rating</b>	<b>Score</b>
Health & Safety	moderate risk of injury due to structure overtopping	5	5	25
Economic Impact/Number Affected	> 20 residential units	4	10	40
Damage	major & minor problems reported	4	5	20
Size of Area Directly Affected	approx. 6000ft x 150ft =~ 21 ac	3	5	15
Frequency of Problem	estimate once per 1-5 years	3	4	12
Environmental Impact	minimal	2	6	12
History of Problem, in Years	improvements first recommended in 1967 study	2	7	14
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate poor	2	8	16
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				157
Preliminary Cost Estimate =				2,275,594
Adjusted Cost Estimate =				99
Initial Evaluation Index =				157
Prioritization Index Number =				158

Leavenworth, Kansas		Date:	09/30	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:		3mc-Main-Osage St		
CIP Description/Location:		Install flood levee for two structures east of 3mc		
Criteria	Assessment	Weight	Rating	Score
Health & Safety	moderate risk of injury to building occupants	5	6	30
Economic Impact/Number Affected	2 residential units	4	3	12
Damage	no damages reported	4	1	4
Size of Area Directly Affected	<1 ac	3	1	3
Frequency of Problem	1 in 100 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	unknown & unreported prior	2	1	2
Investment Protection of System	no	2	1	2
Physical Condition of System	not applicable	2	1	2
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				71
Preliminary Cost Estimate =		5,200		
Adjusted Cost Estimate =		47		
Initial Evaluation Index =		71		
Prioritization Index Number =		151		

Leavenworth, Kansas		Date:	09/30	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:		3mc-Main-10th St		
CIP Description/Location:		Install flood levee for two structures south of 3mc		
Criteria	Assessment	Weight	Rating	Score
Health & Safety	moderate risk of injury to building occupants	5	6	30
Economic Impact/Number Affected	2 residential units	4	3	12
Damage	no damages reported	4	1	4
Size of Area Directly Affected	approx. 200ft x 200ft == <1 ac	3	1	3
Frequency of Problem	1 in 100 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	unknown & unreported prior	2	1	2
Investment Protection of System	no	2	1	2
Physical Condition of System	not applicable	2	1	2
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				71
Preliminary Cost Estimate =		3,500		
Adjusted Cost Estimate =		47		
Initial Evaluation Index =		71		
Prioritization Index Number =		151		

Leavenworth, Kansas		Date:	10/09	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:		5mc-8L		
CIP Description/Location:		Candlewood & Tudor Drive Subsystem 8L		
Criteria	Assessment	Weight	Rating	Score
Health & Safety	low risk of injury due to structure overtopping	5	4	20
Economic Impact/Number Affected	2 residential units	4	3	12
Damage	none reported	4	1	4
Size of Area Directly Affected	approx. 230ft x 150ft < 1 ac	3	1	3
Frequency of Problem	1 in 10 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	not known or reported prior	2	1	2
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate average	2	3	6
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				65
Preliminary Cost Estimate =		43,646		
Adjusted Cost Estimate =		48		
Initial Evaluation Index =		65		
Prioritization Index Number =		136		

Leavenworth, Kansas		Date:	10/02	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:		3mc-8R		
CIP Description/Location:		20th & Dakota & Ottawa Subsystem 8R		
Criteria	Assessment	Weight	Rating	Score
Health & Safety	inconvenience	5	2	10
Economic Impact/Number Affected	arterial or collector street	4	5	20
Damage	none reported	4	1	4
Size of Area Directly Affected	approx. 50ft x 100ft < 1 ac	3	1	3
Frequency of Problem	1 in 50 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	not known or reported prior	2	1	2
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate average	2	3	6
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				63
Preliminary Cost Estimate =		9,016		
Adjusted Cost Estimate =		47		
Initial Evaluation Index =		63		
Prioritization Index Number =		134		

Leavenworth, Kansas		Date:	10/09	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:		5mc-11L		
CIP Description/Location:		Hebbelin Drive & 23rd Street Subsystem 11L		
Criteria	Assessment	Weight	Rating	Score
Health & Safety	inconvenience	5	2	10
Economic Impact/Number Affected	2 residential units	4	3	12
Damage	none reported in vicinity of problem identified by modelin	4	1	4
Size of Area Directly Affected	approx. 100ft x 150ft < 1 ac	3	1	3
Frequency of Problem	1 in 10 year storm	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	not known or reported prior	2	1	2
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate average	2	3	6
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				55
Preliminary Cost Estimate =		47,090		
Adjusted Cost Estimate =		48		
Initial Evaluation Index =		55		
Prioritization Index Number =		115		

Leavenworth, Kansas		Date:	10/02	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN	26529.110	
Prioritization Score Sheet for CIP No.:		3mc-S4L		
CIP Description/Location:		21st & Choctaw; 3mc South Branch Subsystem S4L		
Criteria	Assessment	Weight	Rating	Score
Health & Safety	inconvenience	5	2	10
Economic Impact/Number Affected	residential street/alley	4	1	4
Damage	none reported in vicinity	4	1	4
Size of Area Directly Affected	< 1 acre	3	1	3
Frequency of Problem	1 in 10 years	3	1	3
Environmental Impact	minimal	2	6	12
History of Problem, in Years	not known or reported prior	2	1	2
Investment Protection of System	no	2	1	2
Physical Condition of System	estimate average	2	3	6
Leverage of Dollars	financing from stormwater funds	1	1	1
Initial Evaluation Index =				47
Preliminary Cost Estimate =		19,385		
Adjusted Cost Estimate =		47		
Initial Evaluation Index =		47		
Prioritization Index Number =		99		

Leavenworth, Kansas		Date: 09/30	1996
Stormwater Capital Improvements Projects (CIPs)		B&V PN 26529.110	
Prioritization Score Sheet for CIP No.:		3mc-Main-Outfall	
CIP Description/Location:	Line 3mc from Shawnee St to mouth of Missouri River w/ concrete trapezoidal channel		
<b>Criteria</b>	<b>Assessment</b>	<b>Weight</b>	<b>Rating</b>
Health & Safety	high risk of death/injury due to high water elevation	5	8
Economic Impact/Number Affected	> 20 residences & businesses	4	10
Damage	no damages reported	4	1
Size of Area Directly Affected	approx. 5,000ft x 400ft == 46 ac	3	7
Frequency of Problem	1 in 100 year storm	3	1
Environmental Impact	negative: concrete lining of natural channel	2	1
History of Problem, in Years	improvements recommended in 1967 study 30 yrs ago	2	7
Investment Protection of System	yes: \$ spent here saves \$\$ on other improvements	2	6
Physical Condition of System	estimate poor	2	8
Leverage of Dollars	financing from stormwater funds	1	1
Initial Evaluation Index =			153
Preliminary Cost Estimate =	6,379,000		
Adjusted Cost Estimate =	194		
Initial Evaluation Index =	153		
Prioritization Index Number =	79		