

Prioritization Ranking for Watershed Master Plan Projects - DRAFT
City of Lincoln, Nebraska

Prepared By: Mark Meyer, PE Date: 12/3/08
Project ID: Project # 1 Watershed: Little Salt Creek
Project Location: Waverly Road Bridge over Little Salt Creek Main Stem
Project Description: Main stem is incising. Add grade control to halt incision as part of systemic grade controlling

Issues Addressed:

Flooding Impacts
Projects primarily intended to address structural or non-structural flooding will always incorporate a high or low risk safety factor; though typically will not incorporate stream stability or water quality benefits.

Flooding Benefits		Points, P _{FD}
Major Structural Flooding Damage		30
Minor Structural Flooding Damage		20
Non-Structural Flooding	Streets / ROW, Other	15
Conservation / Prevention	Easements / Acquisitions	10
None		0
P _{FD} =		0

Flooding Frequency		Multiplier, C _{FF}
Frequent Flooding	More frequent than 10-year storm	4
Infrequent Flooding	Less frequent than 10-year storm	2
None		0
C _{FF} =		0

A = P _{FD} * C _{FF}		0
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Structural and Non-Structural Flooding

Stream Stability
Projects primarily intended for stream stability typically will not incorporate flooding impact benefits; though will incorporate water quality benefits.

Stream Stability Benefit		Points, P _{ET}
Channel Erosion Threatening to Structures		50
Channel Erosion Threatening to Public Infrastructure		40
Channel Erosion Threatening to Natural Resources		35
Conservation / Prevention		10
Stream Stability benefit due to Flood Control or Water Quality Project		10
None		0
P _{ET} =		0

Erosion Activity / Systemic Threat		Multiplier, C _{EA}
Aggressive Erosion		3
Non-Aggressive Erosion		2
None		0
C _{EA} =		0

B = P _{ET} * C _{EA}		0
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Open Channel and Surface Erosion

Water Quality
Projects primarily intended for water quality typically will not incorporate flooding impact benefits; though may incorporate stream stability benefits.

Water Quality Benefits		Points, P _{WQ}
Enhance / Preserve Natural Resource Areas (Lake, Wetlands, etc.)		60
Regulatory Compliance / Stormwater Permit / NPDES		60
Create New Natural Resource Areas (Lakes, Wetlands, etc.)		50
Conservation / Prevention		30
Water Quality benefit due to Flood Control or Stream Stability Project		20
None		0
P _{WQ} =		60

Project Benefit		Multiplier, C _{WB}
Major Water Quality Benefit	Broad-Based Impacts	4
Minor Water Quality Benefit	Localized Impacts	3
None		0
C _{WB} =		4

C = P _{WQ} * C _{WB}		240
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Water Quality, Wetlands, Natural Habitat

Safety Factor

Public Health and Safety		Points, P _{SF}
High Risk	Potential Loss of Life or Bodily Injury	160
Low Risk	Public Nuisance	60
No Risk		0
P _{SF} =		0

D = P _{SF}		0
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Public Health and Safety

Prioritization Ranking Summary

X = A + B + C + D 240

Miscellaneous Factors may be used to adjust scoring:

P_{MISC} (See attached worksheet for description of miscellaneous items) _____ 15
May Include: Project Location, Coincident Projects, Development Status, etc.

P_{AC}, Additional Considerations (may be used to add or subtract up to 60 points) _____ 0
May Include: Legal Issues, Jurisdictional Coordination, Complaints, Outside Funding Sources, Wildlife Benefits, etc.

TOTAL = X + P_{MISC} + P_{AC} 255

Total for Project # or Project # 1 255

Project Location, Development Status, Coincident Projects, Corridors / Maintenance, Downstream Impacts, Source Reduction, Additional Considerations

Comments or Description of Additional Considerations:

MISCELLANEOUS FACTORS - DRAFT

		Available	Assigned
Location	Public Property or willing owner of Private Property	up to 20	15
Coincident with Adjacent Projects			
	Public Projects (water, sanitary, roads, etc.)	up to 20	0
	Private Projects	up to 10	0
Development Status (Points available are fixed, and are not flexible)			
	Tier I, Priority A	20	0
	Tier I, Priority B	15	0
	Tier I, Priority C	10	0
	Existing City Limits	10	0
	Tier II (development 25 - 50 years)	5	0
	Tier III (development > 50 years)	0	0
<p>Tier I, Priority A - Areas designated for near term development are generally contiguous to existing development and should be provided first with basic infrastructure within 6 years of the adoption of the Plan. Some of the infrastructure required for development may already be in place. This area includes some land already annexed, with City commitments to fund infrastructure improvements, but the land is still undeveloped and without significant infrastructure in place yet. Some infrastructure improvements may be done in the near term while others, such as road improvements that are generally more costly, may take longer to complete.</p> <p>Tier I, Priority B - The next areas for development, beyond Priority A, are those which currently lack almost all of the infrastructure required to support development. In areas with this designation, the community will maintain present uses until urban development can commence. Infrastructure improvements to serve this area will not initially be included in the City's CIP, but will be actively planned for in the longer term capital improvement planning of the various city and county departments.</p> <p>Tier I, Priority C - This is the later phase of development areas and is intended to be served after Priority A and B. Given current growth rates and infrastructure financing, development would not begin in this area until after 2020 or 2025.</p>			
Total Miscellaneous Points, P_{MISC} =			15

Prioritization Ranking for Watershed Master Plan Projects - DRAFT
City of Lincoln, Nebraska

Prepared By: Mark Meyer, PE Date: 12/3/08
 Project ID: Project # 2 Watershed: Little Salt Creek
 Project Location: N 14th Street Bridge over Little Salt Creek Main Stem
 Project Description: Main stem is incising. Add grade control to halt incision as part of systemic grade controlling and protect saline wetlands immediately upstream of bridge in the Helmut Parcel.

Issues Addressed:

Flooding Impacts

Projects primarily intended to address structural or non-structural flooding will always incorporate a high or low risk safety factor; though typically will not incorporate stream stability or water quality benefits.

Flooding Benefits		Points, P _{FD}	
Major Structural Flooding Damage		30	
Minor Structural Flooding Damage		20	
Non-Structural Flooding	Streets / ROW, Other	15	
Conservation / Prevention	Easements / Acquisitions	10	
None		0	
		P_{FD} =	0

Flooding Frequency		Multiplier, C _{FF}	
Frequent Flooding	More frequent than 10-year storm	4	
Infrequent Flooding	Less frequent than 10-year storm	2	
None		0	
		C_{FF} =	0

		A = P_{FD} * C_{FF}	0
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Structural and Non-Structural Flooding

Stream Stability

Projects primarily intended for stream stability typically will not incorporate flooding impact benefits; though will incorporate water quality benefits.

Stream Stability Benefit		Points, P _{ET}	
Channel Erosion Threatening to Structures		50	
Channel Erosion Threatening to Public Infrastructure		40	
Channel Erosion Threatening to Natural Resources		35	
Conservation / Prevention		10	
Stream Stability benefit due to Flood Control or Water Quality Project		10	
None		0	
		P_{ET} =	0

Erosion Activity / Systemic Threat		Multiplier, C _{EA}	
Aggressive Erosion		3	
Non-Aggressive Erosion		2	
None		0	
		C_{EA} =	0

		B = P_{ET} * C_{EA}	0
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Open Channel and Surface Erosion

Water Quality

Projects primarily intended for water quality typically will not incorporate flooding impact benefits; though may incorporate stream stability benefits.

Water Quality Benefits		Points, P _{WQ}	
Enhance / Preserve Natural Resource Areas (Lake, Wetlands, etc.)		60	
Regulatory Compliance / Stormwater Permit / NPDES		60	
Create New Natural Resource Areas (Lakes, Wetlands, etc.)		50	
Conservation / Prevention		30	
Water Quality benefit due to Flood Control or Stream Stability Project		20	
None		0	
		P_{WQ} =	60

Project Benefit		Multiplier, C _{WB}	
Major Water Quality Benefit	Broad-Based Impacts	4	
Minor Water Quality Benefit	Localized Impacts	3	
None		0	
		C_{WB} =	4

		C = P_{WQ} * C_{WB}	240
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Water Quality, Wetlands, Natural Habitat

Safety Factor

Public Health and Safety		Points, P _{SF}	
High Risk	Potential Loss of Life or Bodily Injury	160	
Low Risk	Public Nuisance	60	
No Risk		0	
		P_{SF} =	0

		D = P_{SF}	0
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Public Health and Safety

Prioritization Ranking Summary

X = A + B + C + D 240

Miscellaneous Factors may be used to adjust scoring:

P_{MISC} (See attached worksheet for description of miscellaneous items) _____ 20
 May Include: Project Location, Coincident Projects, Development Status, etc.

P_{AC}, Additional Considerations (may be used to add or subtract up to 60 points) _____ 0
 May Include: Legal Issues, Jurisdictional Coordination, Complaints, Outside Funding Sources, Wildlife Benefits, etc.

TOTAL = X + P_{MISC} + P_{AC} 260

Total for Project # or Project # 2 260

Project Location, Development Status, Coincident Projects, Corridors / Maintenance, Downstream Impacts, Source Reduction, Additional Considerations

Comments or Description of Additional Considerations:

MISCELLANEOUS FACTORS - DRAFT

		Available	Assigned
Location	Public Property or willing owner of Private Property	up to 20	0
Coincident with Adjacent Projects	Public Projects (water, sanitary, roads, etc.)	up to 20	20
	Private Projects	up to 10	0
Development Status (Points available are fixed, and are not flexible)	Tier I, Priority A	20	0
	Tier I, Priority B	15	0
	Tier I, Priority C	10	0
	Existing City Limits	10	0
	Tier II (development 25 - 50 years)	5	0
	Tier III (development > 50 years)	0	0
<p>Tier I, Priority A - Areas designated for near term development are generally contiguous to existing development and should be provided first with basic infrastructure within 6 years of the adoption of the Plan. Some of the infrastructure required for development may already be in place. This area includes some land already annexed, with City commitments to fund infrastructure improvements, but the land is still undeveloped and without significant infrastructure in place yet. Some infrastructure improvements may be done in the near term while others, such as road improvements that are generally more costly, may take longer to complete.</p> <p>Tier I, Priority B - The next areas for development, beyond Priority A, are those which currently lack almost all of the infrastructure required to support development. In areas with this designation, the community will maintain present uses until urban development can commence. Infrastructure improvements to serve this area will not initially be included in the City's CIP, but will be actively planned for in the longer term capital improvement planning of the various city and county departments.</p> <p>Tier I, Priority C - This is the later phase of development areas and is intended to be served after Priority A and B. Given current growth rates and infrastructure financing, development would not begin in this area until after 2020 or 2025.</p>			
Total Miscellaneous Points, P_{MISC} =			20

Prioritization Ranking for Watershed Master Plan Projects - DRAFT
City of Lincoln, Nebraska

Prepared By:	Mark Meyer, PE	Date:	12/3/08
Project ID:	Project # 3	Watershed:	Little Salt Creek
Project Location:	Mill Road Bridge over Little Salt Creek Main Stem		
Project Description:	Main stem is incising. Add grade control to halt incision as part of systemic grade controlling and protect the proposed Tiger Beetle habitat and saline wetlands immediately upstream of bridge.		

Issues Addressed:

Flooding Impacts

Projects primarily intended to address structural or non-structural flooding will always incorporate a high or low risk safety factor; though typically will not incorporate stream stability or water quality benefits.

Flooding Benefits		Points, P _{FD}	
Major Structural Flooding Damage		30	
Minor Structural Flooding Damage		20	
Non-Structural Flooding	Streets / ROW, Other	15	
Conservation / Prevention	Easements / Acquisitions	10	
None		0	
		P _{FD} =	0

Flooding Frequency		Multiplier, C _{FF}	
Frequent Flooding	More frequent than 10-year storm	4	
Infrequent Flooding	Less frequent than 10-year storm	2	
None		0	
		C _{FF} =	0

		A = P _{FD} * C _{FF}	0
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Structural and Non-Structural Flooding

Stream Stability

Projects primarily intended for stream stability typically will not incorporate flooding impact benefits; though will incorporate water quality benefits.

Stream Stability Benefit		Points, P _{ET}	
Channel Erosion Threatening to Structures		50	
Channel Erosion Threatening to Public Infrastructure		40	
Channel Erosion Threatening to Natural Resources		35	
Conservation / Prevention		10	
Stream Stability benefit due to Flood Control or Water Quality Project		10	
None		0	
		P _{ET} =	0

Erosion Activity / Systemic Threat		Multiplier, C _{EA}	
Aggressive Erosion		3	
Non-Aggressive Erosion		2	
None		0	
		C _{EA} =	2

		B = P _{ET} * C _{EA}	0
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Open Channel and Surface Erosion

Water Quality

Projects primarily intended for water quality typically will not incorporate flooding impact benefits; though may incorporate stream stability benefits.

Water Quality Benefits		Points, P _{WQ}	
Enhance / Preserve Natural Resource Areas (Lake, Wetlands, etc.)		60	
Regulatory Compliance / Stormwater Permit / NPDES		60	
Create New Natural Resource Areas (Lakes, Wetlands, etc.)		50	
Conservation / Prevention		30	
Water Quality benefit due to Flood Control or Stream Stability Project		20	
None		0	
		P _{WQ} =	60

Project Benefit		Multiplier, C _{WB}	
Major Water Quality Benefit	Broad-Based Impacts	4	
Minor Water Quality Benefit	Localized Impacts	3	
None		0	
		C _{WB} =	4

		C = P _{WQ} * C _{WB}	240
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Water Quality, Wetlands, Natural Habitat

Safety Factor

Public Health and Safety		Points, P _{SF}	
High Risk	Potential Loss of Life or Bodily Injury	160	
Low Risk	Public Nuisance	60	
No Risk		0	
		P _{SF} =	0

		D = P _{SF}	0
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Public Health and Safety

Prioritization Ranking Summary

		X = A + B + C + D	240
Miscellaneous Factors may be used to adjust scoring:			
P _{MISC} (See attached worksheet for description of miscellaneous items)			10
May Include: Project Location, Coincident Projects, Development Status, etc.			
P _{AC} , Additional Considerations (may be used to add or subtract up to 60 points)			0
May Include: Legal Issues, Jurisdictional Coordination, Complaints, Outside Funding Sources, Wildlife Benefits, etc.			
		TOTAL = X + P _{MISC} + P _{AC}	250
		Total for Project # or Project # 3	250

Project Location, Development Status, Coincident Projects, Corridors / Maintenance, Downstream Impacts, Source Reduction, Additional Considerations

Comments or Description of Additional Considerations:

MISCELLANEOUS FACTORS - DRAFT

		Available	Assigned
Location	Public Property or willing owner of Private Property	up to 20	10
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Coincident with Adjacent Projects	Public Projects (water, sanitary, roads, etc.)	up to 20	0
	Private Projects	up to 10	0
<hr/>			
Development Status (Points available are fixed, and are not flexible)	Tier I, Priority A	20	0
	Tier I, Priority B	15	0
	Tier I, Priority C	10	0
	Existing City Limits	10	0
	Tier II (development 25 - 50 years)	5	0
	Tier III (development > 50 years)	0	0
<p>Tier I, Priority A - Areas designated for near term development are generally contiguous to existing development and should be provided first with basic infrastructure within 6 years of the adoption of the Plan. Some of the infrastructure required for development may already be in place. This area includes some land already annexed with City commitments to fund infrastructure improvements, but the land is still undeveloped and without significant infrastructure in place yet. Some infrastructure improvements may be done in the near term while others, such as road improvements that are generally more costly, may take longer to complete.</p> <p>Tier I, Priority B - The next areas for development, beyond Priority A, are those which currently lack almost all of the infrastructure required to support development. In areas with this designation, the community will maintain present uses until urban development can commence. Infrastructure improvements to serve this area will not initially be included in the City's CIP, but will be actively planned for in the longer term capital improvement planning of the various city and county departments.</p> <p>Tier I, Priority C - This is the later phase of development areas and is intended to be served after Priority A and B. Given current growth rates and infrastructure financing, development would not begin in this area until after 2020 or 2025.</p>			
		Total Miscellaneous Points, P_{MISC} =	10

Prioritization Ranking for Watershed Master Plan Projects - DRAFT
City of Lincoln, Nebraska

Prepared By:	Mark Meyer, PE	Date:	12/3/08
Project ID:	Project # 4	Watershed:	Little Salt Creek
Project Location:	N 1st Street Bridge over Little Salt Creek Main Stem		
Project Description:	Main stem is incising. Add grade control to halt incision as part of systemic grade controlling		

Issues Addressed:

Flooding Impacts

Projects primarily intended to address structural or non-structural flooding will always incorporate a high or low risk safety factor; though typically will not incorporate stream stability or water quality benefits.

Flooding Benefits		Points, P _{FD}	
Major Structural Flooding Damage		30	
Minor Structural Flooding Damage		20	
Non-Structural Flooding	Streets / ROW, Other	15	
Conservation / Prevention	Easements / Acquisitions	10	
None		0	
P _{FD} =		0	

Flooding Frequency		Multiplier, C _{FF}	
Frequent Flooding	More frequent than 10-year storm	4	0
Infrequent Flooding	Less frequent than 10-year storm	2	0
None		0	0
C _{FF} =		0	0

A = P_{FD} * C_{FF} = 0

Structural and Non-Structural Flooding

Stream Stability

Projects primarily intended for stream stability typically will not incorporate flooding impact benefits; though will incorporate water quality benefits.

Stream Stability Benefit		Points, P _{ET}	
Channel Erosion Threatening to Structures		50	
Channel Erosion Threatening to Public Infrastructure		40	
Channel Erosion Threatening to Natural Resources		35	
Conservation / Prevention		10	
Stream Stability benefit due to Flood Control or Water Quality Project		10	
None		0	
P _{ET} =		0	

Erosion Activity / Systemic Threat		Multiplier, C _{EA}	
Aggressive Erosion		3	0
Non-Aggressive Erosion		2	2
None		0	0
C _{EA} =		2	0

B = P_{ET} * C_{EA} = 0

Open Channel and Surface Erosion

Water Quality

Projects primarily intended for water quality typically will not incorporate flooding impact benefits; though may incorporate stream stability benefits.

Water Quality Benefits		Points, P _{WQ}	
Enhance / Preserve Natural Resource Areas (Lake, Wetlands, etc.)		60	
Regulatory Compliance / Stormwater Permit / NPDES		60	
Create New Natural Resource Areas (Lakes, Wetlands, etc.)		50	
Conservation / Prevention		30	
Water Quality benefit due to Flood Control or Stream Stability Project		20	
None		0	
P _{WQ} =		60	

Project Benefit		Multiplier, C _{WB}	
Major Water Quality Benefit	Broad-Based Impacts	4	60
Minor Water Quality Benefit	Localized Impacts	3	4
None		0	0
C _{WB} =		4	240

C = P_{WQ} * C_{WB} = 240

Water Quality, Wetlands, Natural Habitat

Safety Factor

Public Health and Safety		Points, P _{SF}	
High Risk	Potential Loss of Life or Bodily Injury	160	
Low Risk	Public Nuisance	60	
No Risk		0	
P _{SF} =		0	0

D = P_{SF} = 0

Public Health and Safety

Prioritization Ranking Summary

X = A + B + C + D = 240

Miscellaneous Factors may be used to adjust scoring:

P_{MISC} (See attached worksheet for description of miscellaneous items) _____ 15

May Include: Project Location, Coincident Projects, Development Status, etc. _____ 0

P_{AC}, Additional Considerations (may be used to add or subtract up to 60 points) _____ 0

May Include: Legal Issues, Jurisdictional Coordination, Complaints, Outside Funding Sources, Wildlife Benefits, etc.

TOTAL = X + P_{MISC} + P_{AC} = 255

Total for Project # or Project # 4 = 255

Project Location, Development Status, Coincident Projects, Corridors / Maintenance, Downstream Impacts, Source Reduction, Additional Considerations

Comments or Description of Additional Considerations:

MISCELLANEOUS FACTORS - DRAFT

		Available	Assigned
Location	Public Property or willing owner of Private Property	up to 20	15
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Coincident with Adjacent Projects	Public Projects (water, sanitary, roads, etc.)	up to 20	0
	Private Projects	up to 10	0
<hr/>			
Development Status (Points available are fixed, and are not flexible)	Tier I, Priority A	20	0
	Tier I, Priority B	15	0
	Tier I, Priority C	10	0
	Existing City Limits	10	0
	Tier II (development 25 - 50 years)	5	0
	Tier III (development > 50 years)	0	0
<p>Tier I, Priority A - Areas designated for near term development are generally contiguous to existing development and should be provided first with basic infrastructure within 6 years of the adoption of the Plan. Some of the infrastructure required for development may already be in place. This area includes some land already annexed with City commitments to fund infrastructure improvements, but the land is still undeveloped and without significant infrastructure in place yet. Some infrastructure improvements may be done in the near term while others, such as road improvements that are generally more costly, may take longer to complete.</p> <p>Tier I, Priority B - The next areas for development, beyond Priority A, are those which currently lack almost all of the infrastructure required to support development. In areas with this designation, the community will maintain present uses until urban development can commence. Infrastructure improvements to serve this area will not initially be included in the City's CIP, but will be actively planned for in the longer term capital improvement planning of the various city and county departments.</p> <p>Tier I, Priority C - This is the later phase of development areas and is intended to be served after Priority A and B. Given current growth rates and infrastructure financing, development would not begin in this area until after 2020 or 2025.</p>			
		Total Miscellaneous Points, P_{MISC} =	15

Prioritization Ranking for Watershed Master Plan Projects - DRAFT
City of Lincoln, Nebraska

Prepared By: Mark Meyer, PE Date: 12/3/08
Project ID: Project # 5 Watershed: Little Salt Creek
Project Location: W Raymond Road Bridge over Little Salt Creek Main Stem
Project Description: Main stem is incising. Add grade control to halt incision as part of systemic grade controlling

Issues Addressed:

Flooding Impacts
Projects primarily intended to address structural or non-structural flooding will always incorporate a high or low risk safety factor; though typically will not incorporate stream stability or water quality benefits.

Flooding Benefits		Points, P _{FD}
Major Structural Flooding Damage		30
Minor Structural Flooding Damage		20
Non-Structural Flooding	Streets / ROW, Other	15
Conservation / Prevention	Easements / Acquisitions	10
None		0
P _{FD} =		0

Flooding Frequency		Multiplier, C _{FF}
Frequent Flooding	More frequent than 10-year storm	4
Infrequent Flooding	Less frequent than 10-year storm	2
None		0
C _{FF} =		0

A = P _{FD} * C _{FF}		0
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Structural and Non-Structural Flooding

Stream Stability
Projects primarily intended for stream stability typically will not incorporate flooding impact benefits; though will incorporate water quality benefits.

Stream Stability Benefit		Points, P _{ET}
Channel Erosion Threatening to Structures		50
Channel Erosion Threatening to Public Infrastructure		40
Channel Erosion Threatening to Natural Resources		35
Conservation / Prevention		10
Stream Stability benefit due to Flood Control or Water Quality Project		10
None		0
P _{ET} =		0

Erosion Activity / Systemic Threat		Multiplier, C _{EA}
Aggressive Erosion		3
Non-Aggressive Erosion		2
None		0
C _{EA} =		0

B = P _{ET} * C _{EA}		0
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Open Channel and Surface Erosion

Water Quality
Projects primarily intended for water quality typically will not incorporate flooding impact benefits; though may incorporate stream stability benefits.

Water Quality Benefits		Points, P _{WQ}
Enhance / Preserve Natural Resource Areas (Lake, Wetlands, etc.)		60
Regulatory Compliance / Stormwater Permit / NPDES		60
Create New Natural Resource Areas (Lakes, Wetlands, etc.)		50
Conservation / Prevention		30
Water Quality benefit due to Flood Control or Stream Stability Project		20
None		0
P _{WQ} =		60

Project Benefit		Multiplier, C _{WB}
Major Water Quality Benefit	Broad-Based Impacts	4
Minor Water Quality Benefit	Localized Impacts	3
None		0
C _{WB} =		4

C = P _{WQ} * C _{WB}		60
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Water Quality, Wetlands, Natural Habitat

Safety Factor

Public Health and Safety		Points, P _{SF}
High Risk	Potential Loss of Life or Bodily Injury	160
Low Risk	Public Nuisance	60
No Risk		0
P _{SF} =		0

D = P _{SF}		0
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Public Health and Safety

Prioritization Ranking Summary

X = A + B + C + D 240

Miscellaneous Factors may be used to adjust scoring:

P_{MISC} (See attached worksheet for description of miscellaneous items) _____ 20
May Include: Project Location, Coincident Projects, Development Status, etc.

P_{AC}, Additional Considerations (may be used to add or subtract up to 60 points) _____ 0
May Include: Legal Issues, Jurisdictional Coordination, Complaints, Outside Funding Sources, Wildlife Benefits, etc.

TOTAL = X + P_{MISC} + P_{AC} 260

Total for Project # or Project # 5 260

Project Location, Development Status, Coincident Projects, Corridors / Maintenance, Downstream Impacts, Source Reduction, Additional Considerations

Comments or Description of Additional Considerations:

MISCELLANEOUS FACTORS - DRAFT

		Available	Assigned
Location	Public Property or willing owner of Private Property	up to 20	0
<hr/>			
Coincident with Adjacent Projects	Public Projects (water, sanitary, roads, etc.)	up to 20	20
	Private Projects	up to 10	0
<hr/>			
Development Status (Points available are fixed, and are not flexible)	Tier I, Priority A	20	0
	Tier I, Priority B	15	0
	Tier I, Priority C	10	0
	Existing City Limits	10	0
	Tier II (development 25 - 50 years)	5	0
	Tier III (development > 50 years)	0	0
<p>Tier I, Priority A - Areas designated for near term development are generally contiguous to existing development and should be provided first with basic infrastructure within 6 years of the adoption of the Plan. Some of the infrastructure required for development may already be in place. This area includes some land already annexed with City commitments to fund infrastructure improvements, but the land is still undeveloped and without significant infrastructure in place yet. Some infrastructure improvements may be done in the near term while others, such as road improvements that are generally more costly, may take longer to complete.</p> <p>Tier I, Priority B - The next areas for development, beyond Priority A, are those which currently lack almost all of the infrastructure required to support development. In areas with this designation, the community will maintain present uses until urban development can commence. Infrastructure improvements to serve this area will not initially be included in the City's CIP, but will be actively planned for in the longer term capital improvement planning of the various city and county departments.</p> <p>Tier I, Priority C - This is the later phase of development areas and is intended to be served after Priority A and B. Given current growth rates and infrastructure financing, development would not begin in this area until after 2020 or 2025.</p>			
		Total Miscellaneous Points, P_{MISC} =	20

Prioritization Ranking for Watershed Master Plan Projects - DRAFT
City of Lincoln, Nebraska

Prepared By: Mark Meyer, PE Date: 12/3/08
 Project ID: Project # 6 Watershed: Little Salt Creek
 Project Location: NW 12th Street Bridge over Little Salt Creek Main Stem
 Project Description: Main stem is incising. Add grade control to halt incision as part of systemic grade controlling

Issues Addressed:

Flooding Impacts

Projects primarily intended to address structural or non-structural flooding will always incorporate a high or low risk safety factor; though typically will not incorporate stream stability or water quality benefits.

Flooding Benefits		Points, P _{FD}	
Major Structural Flooding Damage		30	
Minor Structural Flooding Damage		20	
Non-Structural Flooding	Streets / ROW, Other	15	
Conservation / Prevention	Easements / Acquisitions	10	
None		0	
		P _{FD} =	<u>0</u>

Flooding Frequency		Multiplier, C _F	
Frequent Flooding	More frequent than 10-year storm	4	
Infrequent Flooding	Less frequent than 10-year storm	2	
None		0	
		C _{FF} =	<u>0</u>

		A = P_{FD} * C_{FF}	<u>0</u>
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Structural and Non-Structural Flooding

Stream Stability

Projects primarily intended for stream stability typically will not incorporate flooding impact benefits; though will incorporate water quality benefits.

Stream Stability Benefit		Points, P _{ET}	
Channel Erosion Threatening to Structures		50	
Channel Erosion Threatening to Public Infrastructure		40	
Channel Erosion Threatening to Natural Resources		35	
Conservation / Prevention		10	
Stream Stability benefit due to Flood Control or Water Quality Project		10	
None		0	
		P _{ET} =	<u>0</u>

Erosion Activity / Systemic Threat		Multiplier, C _{EA}	
Aggressive Erosion		3	
Non-Aggressive Erosion		2	
None		0	
		C _{EA} =	<u>2</u>

		B = P_{ET} * C_{EA}	<u>0</u>
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Open Channel and Surface Erosion

Water Quality

Projects primarily intended for water quality typically will not incorporate flooding impact benefits; though may incorporate stream stability benefits.

Water Quality Benefits		Points, P _{WQ}	
Enhance / Preserve Natural Resource Areas (Lake, Wetlands, etc.)		60	
Regulatory Compliance / Stormwater Permit / NPDES		60	
Create New Natural Resource Areas (Lakes, Wetlands, etc.)		50	
Conservation / Prevention		30	
Water Quality benefit due to Flood Control or Stream Stability Project		20	
None		0	
		P _{WQ} =	<u>60</u>

Project Benefit		Multiplier, C _{WB}	
Major Water Quality Benefit	Broad-Based Impacts	4	
Minor Water Quality Benefit	Localized Impacts	3	
None		0	
		C _{WB} =	<u>4</u>

		C = P_{WQ} * C_{WB}	<u>240</u>
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Water Quality, Wetlands, Natural Habitat

Safety Factor

Public Health and Safety		Points, P _{SF}	
High Risk	Potential Loss of Life or Bodily Injury	160	
Low Risk	Public Nuisance	60	
No Risk		0	
		P _{SF} =	<u>0</u>

		D = P_{SF}	<u>0</u>
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Public Health and Safety

Prioritization Ranking Summary

X = A + B + C + D 240

Miscellaneous Factors may be used to adjust scoring:

P_{MISC} (See attached worksheet for description of miscellaneous items) 0

May Include: Project Location, Coincident Projects, Development Status, etc. 0

P_{AC}, Additional Considerations (may be used to add or subtract up to 60 points) 0

May Include: Legal Issues, Jurisdictional Coordination, Complaints, Outside Funding Sources, Wildlife Benefits, etc.

TOTAL = X + P_{MISC} + P_{AC} 240

Total for Project # or Project # 6 240

Project Location, Development Status, Coincident Projects, Corridors / Maintenance, Downstream Impacts, Source Reduction, Additional Considerations

Comments or Description of Additional Considerations:

MISCELLANEOUS FACTORS - DRAFT

		Available	Assigned
Location	Public Property or willing owner of Private Property	up to 20	0
<hr/>			
Coincident with Adjacent Projects	Public Projects (water, sanitary, roads, etc.)	up to 20	0
	Private Projects	up to 10	0
<hr/>			
Development Status (Points available are fixed, and are not flexible)	Tier I, Priority A	20	0
	Tier I, Priority B	15	0
	Tier I, Priority C	10	0
	Existing City Limits	10	0
	Tier II (development 25 - 50 years)	5	0
	Tier III (development > 50 years)	0	0
<p>Tier I, Priority A - Areas designated for near term development are generally contiguous to existing development and should be provided first with basic infrastructure within 6 years of the adoption of the Plan. Some of the infrastructure required for development may already be in place. This area includes some land already annexed with City commitments to fund infrastructure improvements, but the land is still undeveloped and without significant infrastructure in place yet. Some infrastructure improvements may be done in the near term while others, such as road improvements that are generally more costly, may take longer to complete.</p> <p>Tier I, Priority B - The next areas for development, beyond Priority A, are those which currently lack almost all of the infrastructure required to support development. In areas with this designation, the community will maintain present uses until urban development can commence. Infrastructure improvements to serve this area will not initially be included in the City's CIP, but will be actively planned for in the longer term capital improvement planning of the various city and county departments.</p> <p>Tier I, Priority C - This is the later phase of development areas and is intended to be served after Priority A and B. Given current growth rates and infrastructure financing, development would not begin in this area until after 2020 or 2025.</p>			
Total Miscellaneous Points, P_{MISC} =		0	

Prioritization Ranking for Watershed Master Plan Projects - DRAFT
City of Lincoln, Nebraska

Prepared By: Mark Meyer, PE Date: 12/3/08
Project ID: Project # 7 Watershed: Little Salt Creek
Project Location: W Branched Oak Road Bridge over Little Salt Creek Main Stem
Project Description: Main stem is incising. Add grade control to halt incision as part of systemic grade controlling

Issues Addressed:

Flooding Impacts
Projects primarily intended to address structural or non-structural flooding will always incorporate a high or low risk safety factor; though typically will not incorporate stream stability or water quality benefits.

Flooding Benefits		Points, P _{FD}
Major Structural Flooding Damage		30
Minor Structural Flooding Damage		20
Non-Structural Flooding	Streets / ROW, Other	15
Conservation / Prevention	Easements / Acquisitions	10
None		0
P _{FD} =		0

Flooding Frequency		Multiplier, C _{FF}
Frequent Flooding	More frequent than 10-year storm	4
Infrequent Flooding	Less frequent than 10-year storm	2
None		0
C _{FF} =		0

A = P _{FD} * C _{FF}		0
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Structural and Non-Structural Flooding

Stream Stability
Projects primarily intended for stream stability typically will not incorporate flooding impact benefits; though will incorporate water quality benefits.

Stream Stability Benefit		Points, P _{ET}
Channel Erosion Threatening to Structures		50
Channel Erosion Threatening to Public Infrastructure		40
Channel Erosion Threatening to Natural Resources		35
Conservation / Prevention		10
Stream Stability benefit due to Flood Control or Water Quality Project		10
None		0
P _{ET} =		0

Erosion Activity / Systemic Threat		Multiplier, C _{EA}
Aggressive Erosion		3
Non-Aggressive Erosion		2
None		0
C _{EA} =		2

B = P _{ET} * C _{EA}		0
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Open Channel and Surface Erosion

Water Quality
Projects primarily intended for water quality typically will not incorporate flooding impact benefits; though may incorporate stream stability benefits.

Water Quality Benefits		Points, P _{WQ}
Enhance / Preserve Natural Resource Areas (Lake, Wetlands, etc.)		60
Regulatory Compliance / Stormwater Permit / NPDES		60
Create New Natural Resource Areas (Lakes, Wetlands, etc.)		50
Conservation / Prevention		30
Water Quality benefit due to Flood Control or Stream Stability Project		20
None		0
P _{WQ} =		60

Project Benefit		Multiplier, C _{WB}
Major Water Quality Benefit	Broad-Based Impacts	4
Minor Water Quality Benefit	Localized Impacts	3
None		0
C _{WB} =		4

C = P _{WQ} * C _{WB}		60
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Water Quality, Wetlands, Natural Habitat

Safety Factor

Public Health and Safety		Points, P _{SF}
High Risk	Potential Loss of Life or Bodily Injury	160
Low Risk	Public Nuisance	60
No Risk		0
P _{SF} =		0

D = P _{SF}		0
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Public Health and Safety

Prioritization Ranking Summary

X = A + B + C + D = 240

Miscellaneous Factors may be used to adjust scoring:

P_{MISC} (See attached worksheet for description of miscellaneous items) = 15
May Include: Project Location, Coincident Projects, Development Status, etc.

P_{AC}, Additional Considerations (may be used to add or subtract up to 60 points) = 0
May Include: Legal Issues, Jurisdictional Coordination, Complaints, Outside Funding Sources, Wildlife Benefits, etc.

TOTAL = X + P_{MISC} + P_{AC} = 255

Total for Project # or Project # 7 = 255

Project Location, Development Status, Coincident Projects, Corridors / Maintenance, Downstream Impacts, Source Reduction, Additional Considerations

Comments or Description of Additional Considerations:

MISCELLANEOUS FACTORS - DRAFT

		Available	Assigned
Location	Public Property or willing owner of Private Property	up to 20	15
Coincident with Adjacent Projects			
	Public Projects (water, sanitary, roads, etc.)	up to 20	0
	Private Projects	up to 10	0
Development Status			
(Points available are fixed, and are not flexible)	Tier I, Priority A	20	0
	Tier I, Priority B	15	0
	Tier I, Priority C	10	0
	Existing City Limits	10	0
	Tier II (development 25 - 50 years)	5	0
	Tier III (development > 50 years)	0	0
<p>Tier I, Priority A - Areas designated for near term development are generally contiguous to existing development and should be provided first with basic infrastructure within 6 years of the adoption of the Plan. Some of the infrastructure required for development may already be in place. This area includes some land already annexed with City commitments to fund infrastructure improvements, but the land is still undeveloped and without significant infrastructure in place yet. Some infrastructure improvements may be done in the near term while others, such as road improvements that are generally more costly, may take longer to complete.</p> <p>Tier I, Priority B - The next areas for development, beyond Priority A, are those which currently lack almost all of the infrastructure required to support development. In areas with this designation, the community will maintain present uses until urban development can commence. Infrastructure improvements to serve this area will not initially be included in the City's CIP, but will be actively planned for in the longer term capital improvement planning of the various city and county departments.</p> <p>Tier I, Priority C - This is the later phase of development areas and is intended to be served after Priority A and B. Given current growth rates and infrastructure financing, development would not begin in this area until after 2020 or 2025.</p>			
Total Miscellaneous Points, P_{MISC} =			15

Prioritization Ranking for Watershed Master Plan Projects - DRAFT
City of Lincoln, Nebraska

Prepared By: Mark Meyer, PE Date: 12/3/08
Project ID: Project # 8 Watershed: Little Salt Creek
Project Location: N 19th Street Bridge over Little Salt Creek Main Stem
Project Description: Main stem is incising. Add grade control to halt incision as part of systemic grade controlling

Issues Addressed:

Flooding Impacts
Projects primarily intended to address structural or non-structural flooding will always incorporate a high or low risk safety factor; though typically will not incorporate stream stability or water quality benefits.

Flooding Benefits		Points, P _{FD}
Major Structural Flooding Damage		30
Minor Structural Flooding Damage		20
Non-Structural Flooding	Streets / ROW, Other	15
Conservation / Prevention	Easements / Acquisitions	10
None		0
P _{FD} =		0

Flooding Frequency		Multiplier, C _{FF}
Frequent Flooding	More frequent than 10-year storm	4
Infrequent Flooding	Less frequent than 10-year storm	2
None		0
C _{FF} =		0

A = P _{FD} * C _{FF}		0
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Structural and Non-Structural Flooding

Stream Stability
Projects primarily intended for stream stability typically will not incorporate flooding impact benefits; though will incorporate water quality benefits.

Stream Stability Benefit		Points, P _{ET}
Channel Erosion Threatening to Structures		50
Channel Erosion Threatening to Public Infrastructure		40
Channel Erosion Threatening to Natural Resources		35
Conservation / Prevention		10
Stream Stability benefit due to Flood Control or Water Quality Project		10
None		0
P _{ET} =		0

Erosion Activity / Systemic Threat		Multiplier, C _{EA}
Aggressive Erosion		3
Non-Aggressive Erosion		2
None		0
C _{EA} =		2

B = P _{ET} * C _{EA}		0
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Open Channel and Surface Erosion

Water Quality
Projects primarily intended for water quality typically will not incorporate flooding impact benefits; though may incorporate stream stability benefits.

Water Quality Benefits		Points, P _{WQ}
Enhance / Preserve Natural Resource Areas (Lake, Wetlands, etc.)		60
Regulatory Compliance / Stormwater Permit / NPDES		60
Create New Natural Resource Areas (Lakes, Wetlands, etc.)		50
Conservation / Prevention		30
Water Quality benefit due to Flood Control or Stream Stability Project		20
None		0
P _{WQ} =		60

Project Benefit		Multiplier, C _{WB}
Major Water Quality Benefit	Broad-Based Impacts	4
Minor Water Quality Benefit	Localized Impacts	3
None		0
C _{WB} =		4

C = P _{WQ} * C _{WB}		60
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Water Quality, Wetlands, Natural Habitat

Safety Factor

Public Health and Safety		Points, P _{SF}
High Risk	Potential Loss of Life or Bodily Injury	160
Low Risk	Public Nuisance	60
No Risk		0
P _{SF} =		0

D = P _{SF}		0
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Public Health and Safety

Prioritization Ranking Summary

X = A + B + C + D 240

Miscellaneous Factors may be used to adjust scoring:

P_{MISC} (See attached worksheet for description of miscellaneous items) _____ 0
May Include: Project Location, Coincident Projects, Development Status, etc.

P_{AC}, Additional Considerations (may be used to add or subtract up to 60 points) _____ 0
May Include: Legal Issues, Jurisdictional Coordination, Complaints, Outside Funding Sources, Wildlife Benefits, etc.

TOTAL = X + P_{MISC} + P_{AC} 240

Total for Project # or Project # 8 240

Project Location, Development Status, Coincident Projects, Corridors / Maintenance, Downstream Impacts, Source Reduction, Additional Considerations

Comments or Description of Additional Considerations:

MISCELLANEOUS FACTORS - DRAFT

		Available	Assigned
Location	Public Property or willing owner of Private Property	up to 20	0
<hr/>			
Coincident with Adjacent Projects	Public Projects (water, sanitary, roads, etc.)	up to 20	0
	Private Projects	up to 10	0
<hr/>			
Development Status (Points available are fixed, and are not flexible)	Tier I, Priority A	20	0
	Tier I, Priority B	15	0
	Tier I, Priority C	10	0
	Existing City Limits	10	0
	Tier II (development 25 - 50 years)	5	0
	Tier III (development > 50 years)	0	0
<p>Tier I, Priority A - Areas designated for near term development are generally contiguous to existing development and should be provided first with basic infrastructure within 6 years of the adoption of the Plan. Some of the infrastructure required for development may already be in place. This area includes some land already annexed with City commitments to fund infrastructure improvements, but the land is still undeveloped and without significant infrastructure in place yet. Some infrastructure improvements may be done in the near term while others, such as road improvements that are generally more costly, may take longer to complete.</p> <p>Tier I, Priority B - The next areas for development, beyond Priority A, are those which currently lack almost all of the infrastructure required to support development. In areas with this designation, the community will maintain present uses until urban development can commence. Infrastructure improvements to serve this area will not initially be included in the City's CIP, but will be actively planned for in the longer term capital improvement planning of the various city and county departments.</p> <p>Tier I, Priority C - This is the later phase of development areas and is intended to be served after Priority A and B. Given current growth rates and infrastructure financing, development would not begin in this area until after 2020 or 2025.</p>			
Total Miscellaneous Points, P_{MISC} =		0	

Prioritization Ranking for Watershed Master Plan Projects - DRAFT
City of Lincoln, Nebraska

Prepared By: Mark Meyer, PE Date: 12/3/08
 Project ID: Project # 9 Watershed: Little Salt Creek
 Project Location: W Rock Creek Road Bridge over Little Salt Creek Main Stem
 Project Description: Main stem is incising. Add grade control to halt incision as part of systemic grade controlling

Issues Addressed:

Flooding Impacts
 Projects primarily intended to address structural or non-structural flooding will always incorporate a high or low risk safety factor; though typically will not incorporate stream stability or water quality benefits.

Flooding Benefits		Points, P _{FD}
Major Structural Flooding Damage		30
Minor Structural Flooding Damage		20
Non-Structural Flooding	Streets / ROW, Other	15
Conservation / Prevention	Easements / Acquisitions	10
None		0
P _{FD} =		0

Flooding Frequency		Multiplier, C _{FF}
Frequent Flooding	More frequent than 10-year storm	4
Infrequent Flooding	Less frequent than 10-year storm	2
None		0
C _{FF} =		0

A = P _{FD} * C _{FF}		0
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Structural and Non-Structural Flooding

Stream Stability
 Projects primarily intended for stream stability typically will not incorporate flooding impact benefits; though will incorporate water quality benefits.

Stream Stability Benefit		Points, P _{ET}
Channel Erosion Threatening to Structures		50
Channel Erosion Threatening to Public Infrastructure		40
Channel Erosion Threatening to Natural Resources		35
Conservation / Prevention		10
Stream Stability benefit due to Flood Control or Water Quality Project		10
None		0
P _{ET} =		0

Erosion Activity / Systemic Threat		Multiplier, C _{EA}
Aggressive Erosion		3
Non-Aggressive Erosion		2
None		0
C _{EA} =		2

B = P _{ET} * C _{EA}		0
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Open Channel and Surface Erosion

Water Quality
 Projects primarily intended for water quality typically will not incorporate flooding impact benefits; though may incorporate stream stability benefits.

Water Quality Benefits		Points, P _{WQ}
Enhance / Preserve Natural Resource Areas (Lake, Wetlands, etc.)		60
Regulatory Compliance / Stormwater Permit / NPDES		60
Create New Natural Resource Areas (Lakes, Wetlands, etc.)		50
Conservation / Prevention		30
Water Quality benefit due to Flood Control or Stream Stability Project		20
None		0
P _{WQ} =		60

Project Benefit		Multiplier, C _{WB}
Major Water Quality Benefit	Broad-Based Impacts	4
Minor Water Quality Benefit	Localized Impacts	3
None		0
C _{WB} =		4

C = P _{WQ} * C _{WB}		60
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Water Quality, Wetlands, Natural Habitat

Safety Factor

Public Health and Safety		Points, P _{SF}
High Risk	Potential Loss of Life or Bodily Injury	160
Low Risk	Public Nuisance	60
No Risk		0
P _{SF} =		0

D = P _{SF}		0
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Public Health and Safety

Prioritization Ranking Summary

X = A + B + C + D 240

Miscellaneous Factors may be used to adjust scoring:

P_{MISC} (See attached worksheet for description of miscellaneous items) 0

May Include: Project Location, Coincident Projects, Development Status, etc.

P_{AC}, Additional Considerations (may be used to add or subtract up to 60 points) 0

May Include: Legal Issues, Jurisdictional Coordination, Complaints, Outside Funding Sources, Wildlife Benefits, etc.

TOTAL = X + P_{MISC} + P_{AC} 240

Total for Project # or Project # 9 **240**

Project Location, Development Status, Coincident Projects, Corridors / Maintenance, Downstream Impacts, Source Reduction, Additional Considerations

Comments or Description of Additional Considerations:

MISCELLANEOUS FACTORS - DRAFT

		Available	Assigned
Location	Public Property or willing owner of Private Property	up to 20	0
<hr/>			
Coincident with Adjacent Projects	Public Projects (water, sanitary, roads, etc.)	up to 20	0
	Private Projects	up to 10	0
<hr/>			
Development Status (Points available are fixed, and are not flexible)	Tier I, Priority A	20	0
	Tier I, Priority B	15	0
	Tier I, Priority C	10	0
	Existing City Limits	10	0
	Tier II (development 25 - 50 years)	5	0
	Tier III (development > 50 years)	0	0
<p>Tier I, Priority A - Areas designated for near term development are generally contiguous to existing development and should be provided first with basic infrastructure within 6 years of the adoption of the Plan. Some of the infrastructure required for development may already be in place. This area includes some land already annexed with City commitments to fund infrastructure improvements, but the land is still undeveloped and without significant infrastructure in place yet. Some infrastructure improvements may be done in the near term while others, such as road improvements that are generally more costly, may take longer to complete.</p> <p>Tier I, Priority B - The next areas for development, beyond Priority A, are those which currently lack almost all of the infrastructure required to support development. In areas with this designation, the community will maintain present uses until urban development can commence. Infrastructure improvements to serve this area will not initially be included in the City's CIP, but will be actively planned for in the longer term capital improvement planning of the various city and county departments.</p> <p>Tier I, Priority C - This is the later phase of development areas and is intended to be served after Priority A and B. Given current growth rates and infrastructure financing, development would not begin in this area until after 2020 or 2025.</p>			
		Total Miscellaneous Points, P_{MISC} =	0

Prioritization Ranking for Watershed Master Plan Projects - DRAFT
City of Lincoln, Nebraska

Prepared By: Mark Meyer, PE Date: 12/3/08
 Project ID: Project # 10 Watershed: Little Salt Creek
 Project Location: W Agnew Road Bridge over Little Salt Creek Main Stem
 Project Description: Main stem is incising. Add grade control to halt incision as part of systemic grade controlling

Issues Addressed:

Flooding Impacts
 Projects primarily intended to address structural or non-structural flooding will always incorporate a high or low risk safety factor; though typically will not incorporate stream stability or water quality benefits.

Flooding Benefits		Points, P _{FD}
Major Structural Flooding Damage		30
Minor Structural Flooding Damage		20
Non-Structural Flooding	Streets / ROW, Other	15
Conservation / Prevention	Easements / Acquisitions	10
None		0
		P_{FD} = 0

Flooding Frequency		Multiplier, C _{FF}
Frequent Flooding	More frequent than 10-year storm	4
Infrequent Flooding	Less frequent than 10-year storm	2
None		0
		C_{FF} = 0

		0
		0
		A = P_{FD} * C_{FF} = 0

Structural and Non-Structural Flooding

Stream Stability
 Projects primarily intended for stream stability typically will not incorporate flooding impact benefits; though will incorporate water quality benefits.

Stream Stability Benefit		Points, P _{ET}
Channel Erosion Threatening to Structures		50
Channel Erosion Threatening to Public Infrastructure		40
Channel Erosion Threatening to Natural Resources		35
Conservation / Prevention		10
Stream Stability benefit due to Flood Control or Water Quality Project		10
None		0
		P_{ET} = 0

Erosion Activity / Systemic Threat		Multiplier, C _{EA}
Aggressive Erosion		3
Non-Aggressive Erosion		2
None		0
		C_{EA} = 2

		0
		2
		B = P_{ET} * C_{EA} = 0

Open Channel and Surface Erosion

Water Quality
 Projects primarily intended for water quality typically will not incorporate flooding impact benefits; though may incorporate stream stability benefits.

Water Quality Benefits		Points, P _{WQ}
Enhance / Preserve Natural Resource Areas (Lake, Wetlands, etc.)		60
Regulatory Compliance / Stormwater Permit / NPDES		60
Create New Natural Resource Areas (Lakes, Wetlands, etc.)		50
Conservation / Prevention		30
Water Quality benefit due to Flood Control or Stream Stability Project		20
None		0
		P_{WQ} = 60

Project Benefit		Multiplier, C _{WB}
Major Water Quality Benefit	Broad-Based Impacts	4
Minor Water Quality Benefit	Localized Impacts	3
None		0
		C_{WB} = 4

		60
		4
		C = P_{WQ} * C_{WB} = 240

Water Quality, Wetlands, Natural Habitat

Safety Factor

Public Health and Safety		Points, P _{SF}
High Risk	Potential Loss of Life or Bodily Injury	160
Low Risk	Public Nuisance	60
No Risk		0
		P_{SF} = 0

		0
		D = P_{SF} = 0

Public Health and Safety

Prioritization Ranking Summary

X = A + B + C + D = 240

Miscellaneous Factors may be used to adjust scoring:

P_{MISC} (See attached worksheet for description of miscellaneous items) _____ 15
 May Include: Project Location, Coincident Projects, Development Status, etc.

P_{AC}, Additional Considerations (may be used to add or subtract up to 60 points) _____ 0
 May Include: Legal Issues, Jurisdictional Coordination, Complaints, Outside Funding Sources, Wildlife Benefits, etc.

TOTAL = X + P_{MISC} + P_{AC} = 255

Total for Project # or Project # 10 = 255

Project Location, Development Status, Coincident Projects, Corridors / Maintenance, Downstream Impacts, Source Reduction, Additional Considerations

Comments or Description of Additional Considerations:

MISCELLANEOUS FACTORS - DRAFT

		Available	Assigned
Location	Public Property or willing owner of Private Property	up to 20	15
Coincident with Adjacent Projects			
	Public Projects (water, sanitary, roads, etc.)	up to 20	0
	Private Projects	up to 10	0
Development Status			
(Points available are fixed, and are not flexible)	Tier I, Priority A	20	0
	Tier I, Priority B	15	0
	Tier I, Priority C	10	0
	Existing City Limits	10	0
	Tier II (development 25 - 50 years)	5	0
	Tier III (development > 50 years)	0	0
<p>Tier I, Priority A - Areas designated for near term development are generally contiguous to existing development and should be provided first with basic infrastructure within 6 years of the adoption of the Plan. Some of the infrastructure required for development may already be in place. This area includes some land already annexed with City commitments to fund infrastructure improvements, but the land is still undeveloped and without significant infrastructure in place yet. Some infrastructure improvements may be done in the near term while others, such as road improvements that are generally more costly, may take longer to complete.</p> <p>Tier I, Priority B - The next areas for development, beyond Priority A, are those which currently lack almost all of the infrastructure required to support development. In areas with this designation, the community will maintain present uses until urban development can commence. Infrastructure improvements to serve this area will not initially be included in the City's CIP, but will be actively planned for in the longer term capital improvement planning of the various city and county departments.</p> <p>Tier I, Priority C - This is the later phase of development areas and is intended to be served after Priority A and B. Given current growth rates and infrastructure financing, development would not begin in this area until after 2020 or 2025.</p>			
Total Miscellaneous Points, P_{MISC} =		15	

Prioritization Ranking for Watershed Master Plan Projects - DRAFT
City of Lincoln, Nebraska

Prepared By:	Mark Meyer, PE	Date:	12/3/08
Project ID:	Project # 11	Watershed:	Little Salt Creek
Project Location:	N 40th Street culvert on Tributary 10		
Project Description:	Construct engineered stilling basin at culvert outfall		

Issues Addressed:

Flooding Impacts

Projects primarily intended to address structural or non-structural flooding will always incorporate a high or low risk safety factor; though typically will not incorporate stream stability or water quality benefits.

Flooding Benefits		Points, P _{FD}	
Major Structural Flooding Damage		30	
Minor Structural Flooding Damage		20	
Non-Structural Flooding	Streets / ROW, Other	15	
Conservation / Prevention	Easements / Acquisitions	10	
None		0	
P _{FD} =		0	

Flooding Frequency		Multiplier, C _F	
Frequent Flooding	More frequent than 10-year storm	4	
Infrequent Flooding	Less frequent than 10-year storm	2	
None		0	
C _{FF} =		0	

A = P _{FD} * C _{FF}		0
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Structural and Non-Structural Flooding

Stream Stability

Projects primarily intended for stream stability typically will not incorporate flooding impact benefits; though will incorporate water quality benefits.

Stream Stability Benefit		Points, P _{ET}	
Channel Erosion Threatening to Structures		50	
Channel Erosion Threatening to Public Infrastructure		40	
Channel Erosion Threatening to Natural Resources		35	
Conservation / Prevention		10	
Stream Stability benefit due to Flood Control or Water Quality Project		10	
None		0	
P _{ET} =		40	

Erosion Activity / Systemic Threat		Multiplier, C _{EA}	
Aggressive Erosion		3	
Non-Aggressive Erosion		2	
None		0	
C _{EA} =		2	

B = P _{ET} * C _{EA}		80
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Open Channel and Surface Erosion

Water Quality

Projects primarily intended for water quality typically will not incorporate flooding impact benefits; though may incorporate stream stability benefits.

Water Quality Benefits		Points, P _{WQ}	
Enhance / Preserve Natural Resource Areas (Lake, Wetlands, etc.)		60	
Regulatory Compliance / Stormwater Permit / NPDES		60	
Create New Natural Resource Areas (Lakes, Wetlands, etc.)		50	
Conservation / Prevention		30	
Water Quality benefit due to Flood Control or Stream Stability Project		20	
None		0	
P _{WQ} =		0	

Project Benefit		Multiplier, C _{WB}	
Major Water Quality Benefit	Broad-Based Impacts	4	
Minor Water Quality Benefit	Localized Impacts	3	
None		0	
C _{WB} =		0	

C = P _{WQ} * C _{WB}		0
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Water Quality, Wetlands, Natural Habitat

Safety Factor

Public Health and Safety		Points, P _{SF}	
High Risk	Potential Loss of Life or Bodily Injury	160	
Low Risk	Public Nuisance	60	
No Risk		0	
P _{SF} =		0	

D = P _{SF}		0
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Public Health and Safety

Prioritization Ranking Summary

X = A + B + C + D 80

Miscellaneous Factors may be used to adjust scoring:

P_{MISC} (See attached worksheet for description of miscellaneous items) 5

May Include: Project Location, Coincident Projects, Development Status, etc.

P_{AC}, Additional Considerations (may be used to add or subtract up to 60 points) 20

May Include: Legal Issues, Jurisdictional Coordination, Complaints, Outside Funding Sources, Wildlife Benefits, etc.

TOTAL = X + P_{MISC} + P_{AC} 105

Total for Project # or Project # 11 105

Project Location, Development Status, Coincident Projects, Corridors / Maintenance, Downstream Impacts, Source Reduction, Additional Considerations

Comments or Description of Additional Considerations:

MISCELLANEOUS FACTORS - DRAFT

		Available	Assigned
Location	Public Property or willing owner of Private Property	up to 20	0
Coincident with Adjacent Projects	Public Projects (water, sanitary, roads, etc.)	up to 20	0
	Private Projects	up to 10	0
Development Status (Points available are fixed, and are not flexible)	Tier I, Priority A	20	0
	Tier I, Priority B	15	0
	Tier I, Priority C	10	0
	Existing City Limits	10	0
	Tier II (development 25 - 50 years)	5	5
	Tier III (development > 50 years)	0	0
<p>Tier I, Priority A - Areas designated for near term development are generally contiguous to existing development and should be provided first with basic infrastructure within 6 years of the adoption of the Plan. Some of the infrastructure required for development may already be in place. This area includes some land already annexed with City commitments to fund infrastructure improvements, but the land is still undeveloped and without significant infrastructure in place yet. Some infrastructure improvements may be done in the near term while others, such as road improvements that are generally more costly, may take longer to complete.</p> <p>Tier I, Priority B - The next areas for development, beyond Priority A, are those which currently lack almost all of the infrastructure required to support development. In areas with this designation, the community will maintain present uses until urban development can commence. Infrastructure improvements to serve this area will not initially be included in the City's CIP, but will be actively planned for in the longer term capital improvement planning of the various city and county departments.</p> <p>Tier I, Priority C - This is the later phase of development areas and is intended to be served after Priority A and B. Given current growth rates and infrastructure financing, development would not begin in this area until after 2020 or 2025.</p>			
Total Miscellaneous Points, P_{MISC} =			5

Prioritization Ranking for Watershed Master Plan Projects - DRAFT
City of Lincoln, Nebraska

Prepared By:	Mark Meyer, PE	Date:	12/3/08
Project ID:	Project # 12	Watershed:	Little Salt Creek
Project Location:	N 40th Street culvert on Tributary 110		
Project Description:	Construct engineered stilling basin at culvert outfall		

Issues Addressed:

Flooding Impacts

Projects primarily intended to address structural or non-structural flooding will always incorporate a high or low risk safety factor; though typically will not incorporate stream stability or water quality benefits.

Flooding Benefits		Points, P _{FD}
Major Structural Flooding Damage		30
Minor Structural Flooding Damage		20
Non-Structural Flooding	Streets / ROW, Other	15
Conservation / Prevention	Easements / Acquisitions	10
None		0
P _{FD} =		0

Flooding Frequency		Multiplier, C _{FF}
Frequent Flooding	More frequent than 10-year storm	4
Infrequent Flooding	Less frequent than 10-year storm	2
None		0
C _{FF} =		0

A = P _{FD} * C _{FF}		0
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Structural and Non-Structural Flooding

Stream Stability

Projects primarily intended for stream stability typically will not incorporate flooding impact benefits; though will incorporate water quality benefits.

Stream Stability Benefit		Points, P _{ET}
Channel Erosion Threatening to Structures		50
Channel Erosion Threatening to Public Infrastructure		40
Channel Erosion Threatening to Natural Resources		35
Conservation / Prevention		10
Stream Stability benefit due to Flood Control or Water Quality Project		10
None		0
P _{ET} =		40

Erosion Activity / Systemic Threat		Multiplier, C _{EA}
Aggressive Erosion		3
Non-Aggressive Erosion		2
None		0
C _{EA} =		2

B = P _{ET} * C _{EA}		80
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Open Channel and Surface Erosion

Water Quality

Projects primarily intended for water quality typically will not incorporate flooding impact benefits; though may incorporate stream stability benefits.

Water Quality Benefits		Points, P _{WQ}
Enhance / Preserve Natural Resource Areas (Lake, Wetlands, etc.)		60
Regulatory Compliance / Stormwater Permit / NPDES		60
Create New Natural Resource Areas (Lakes, Wetlands, etc.)		50
Conservation / Prevention		30
Water Quality benefit due to Flood Control or Stream Stability Project		20
None		0
P _{WQ} =		0

Project Benefit		Multiplier, C _{WB}
Major Water Quality Benefit	Broad-Based Impacts	4
Minor Water Quality Benefit	Localized Impacts	3
None		0
C _{WB} =		0

C = P _{WQ} * C _{WB}		0
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Water Quality, Wetlands, Natural Habitat

Safety Factor

Public Health and Safety		Points, P _{SF}
High Risk	Potential Loss of Life or Bodily Injury	160
Low Risk	Public Nuisance	60
No Risk		0
P _{SF} =		0

D = P _{SF}		0
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Public Health and Safety

Prioritization Ranking Summary

Miscellaneous Factors may be used to adjust scoring:		X = A + B + C + D	80
P _{MISC} (See attached worksheet for description of miscellaneous items)			15
May Include: Project Location, Coincident Projects, Development Status, etc.			
P _{AC} , Additional Considerations (may be used to add or subtract up to 60 points)			0
May Include: Legal Issues, Jurisdictional Coordination, Complaints, Outside Funding Sources, Wildlife Benefits, etc.			
TOTAL = X + P _{MISC} + P _{AC}			95
Total for Project # or Project # 12			95

Project Location, Development Status, Coincident Projects, Corridors / Maintenance, Downstream Impacts, Source Reduction, Additional Considerations

Comments or Description of Additional Considerations:

MISCELLANEOUS FACTORS - DRAFT

		Available	Assigned
Location	Public Property or willing owner of Private Property	up to 20	0
Coincident with Adjacent Projects			
	Public Projects (water, sanitary, roads, etc.)	up to 20	0
	Private Projects	up to 10	0
Development Status			
(Points available are fixed, and are not flexible)	Tier I, Priority A	20	0
	Tier I, Priority B	15	15
	Tier I, Priority C	10	0
	Existing City Limits	10	0
	Tier II (development 25 - 50 years)	5	0
	Tier III (development > 50 years)	0	0
<p>Tier I, Priority A - Areas designated for near term development are generally contiguous to existing development and should be provided first with basic infrastructure within 6 years of the adoption of the Plan. Some of the infrastructure required for development may already be in place. This area includes some land already annexed with City commitments to fund infrastructure improvements, but the land is still undeveloped and without significant infrastructure in place yet. Some infrastructure improvements may be done in the near term while others, such as road improvements that are generally more costly, may take longer to complete.</p> <p>Tier I, Priority B - The next areas for development, beyond Priority A, are those which currently lack almost all of the infrastructure required to support development. In areas with this designation, the community will maintain present uses until urban development can commence. Infrastructure improvements to serve this area will not initially be included in the City's CIP, but will be actively planned for in the longer term capital improvement planning of the various city and county departments.</p> <p>Tier I, Priority C - This is the later phase of development areas and is intended to be served after Priority A and B. Given current growth rates and infrastructure financing, development would not begin in this area until after 2020 or 2025.</p>			
Total Miscellaneous Points, P_{MISC} =			15

Prioritization Ranking for Watershed Master Plan Projects - DRAFT
City of Lincoln, Nebraska

Prepared By: Mark Meyer, PE Date: 12/3/08
Project ID: Project # 13 Watershed: Little Salt Creek
Project Location: N 40th Street culvert on Tributary 220
Project Description: Construct engineered stilling basin at culvert outfall

Issues Addressed:

Flooding Impacts
Projects primarily intended to address structural or non-structural flooding will always incorporate a high or low risk safety factor; though typically will not incorporate stream stability or water quality benefits.

Flooding Benefits		Points, P _{FD}
Major Structural Flooding Damage		30
Minor Structural Flooding Damage		20
Non-Structural Flooding	Streets / ROW, Other	15
Conservation / Prevention	Easements / Acquisitions	10
None		0
P _{FD} =		0

Flooding Frequency		Multiplier, C _{FF}
Frequent Flooding	More frequent than 10-year storm	4
Infrequent Flooding	Less frequent than 10-year storm	2
None		0
C _{FF} =		0

A = P_{FD} * C_{FF} = 0

Structural and Non-Structural Flooding

Stream Stability
Projects primarily intended for stream stability typically will not incorporate flooding impact benefits; though will incorporate water quality benefits.

Stream Stability Benefit		Points, P _{ET}
Channel Erosion Threatening to Structures		50
Channel Erosion Threatening to Public Infrastructure		40
Channel Erosion Threatening to Natural Resources		35
Conservation / Prevention		10
Stream Stability benefit due to Flood Control or Water Quality Project		10
None		0
P _{ET} =		40

Erosion Activity / Systemic Threat		Multiplier, C _{EA}
Aggressive Erosion		3
Non-Aggressive Erosion		2
None		0
C _{EA} =		2

B = P_{ET} * C_{EA} = 80

Open Channel and Surface Erosion

Water Quality
Projects primarily intended for water quality typically will not incorporate flooding impact benefits; though may incorporate stream stability benefits.

Water Quality Benefits		Points, P _{WQ}
Enhance / Preserve Natural Resource Areas (Lake, Wetlands, etc.)		60
Regulatory Compliance / Stormwater Permit / NPDES		60
Create New Natural Resource Areas (Lakes, Wetlands, etc.)		50
Conservation / Prevention		30
Water Quality benefit due to Flood Control or Stream Stability Project		20
None		0
P _{WQ} =		0

Project Benefit		Multiplier, C _{WB}
Major Water Quality Benefit	Broad-Based Impacts	4
Minor Water Quality Benefit	Localized Impacts	3
None		0
C _{WB} =		0

C = P_{WQ} * C_{WB} = 0

Water Quality, Wetlands, Natural Habitat

Safety Factor

Public Health and Safety		Points, P _{SF}
High Risk	Potential Loss of Life or Bodily Injury	160
Low Risk	Public Nuisance	60
No Risk		0
P _{SF} =		0

D = P_{SF} = 0

Public Health and Safety

Prioritization Ranking Summary

X = A + B + C + D = 80

Miscellaneous Factors may be used to adjust scoring:

P_{MISC} (See attached worksheet for description of miscellaneous items) _____ 0

May Include: Project Location, Coincident Projects, Development Status, etc.

P_{AC}, Additional Considerations (may be used to add or subtract up to 60 points) _____ 20

May Include: Legal Issues, Jurisdictional Coordination, Complaints, Outside Funding Sources, Wildlife Benefits, etc.

TOTAL = X + P_{MISC} + P_{AC} = 100

Total for Project # or Project # 13 = 100

Project Location, Development Status, Coincident Projects, Corridors / Maintenance, Downstream Impacts, Source Reduction, Additional Considerations

Comments or Description of Additional Considerations:

MISCELLANEOUS FACTORS - DRAFT

		Available	Assigned
Location	Public Property or willing owner of Private Property	up to 20	0
Coincident with Adjacent Projects	Public Projects (water, sanitary, roads, etc.)	up to 20	0
	Private Projects	up to 10	0
Development Status (Points available are fixed, and are not flexible)	Tier I, Priority A	20	0
	Tier I, Priority B	15	0
	Tier I, Priority C	10	0
	Existing City Limits	10	0
	Tier II (development 25 - 50 years)	5	0
	Tier III (development > 50 years)	0	0
<p>Tier I, Priority A - Areas designated for near term development are generally contiguous to existing development and should be provided first with basic infrastructure within 6 years of the adoption of the Plan. Some of the infrastructure required for development may already be in place. This area includes some land already annexed with City commitments to fund infrastructure improvements, but the land is still undeveloped and without significant infrastructure in place yet. Some infrastructure improvements may be done in the near term while others, such as road improvements that are generally more costly, may take longer to complete.</p> <p>Tier I, Priority B - The next areas for development, beyond Priority A, are those which currently lack almost all of the infrastructure required to support development. In areas with this designation, the community will maintain present uses until urban development can commence. Infrastructure improvements to serve this area will not initially be included in the City's CIP, but will be actively planned for in the longer term capital improvement planning of the various city and county departments.</p> <p>Tier I, Priority C - This is the later phase of development areas and is intended to be served after Priority A and B. Given current growth rates and infrastructure financing, development would not begin in this area until after 2020 or 2025.</p>			
Total Miscellaneous Points, P_{MISC} =		0	

Prioritization Ranking for Watershed Master Plan Projects - DRAFT
City of Lincoln, Nebraska

Prepared By: Mark Meyer, PE Date: 12/3/08
Project ID: Project # 14 Watershed: Little Salt Creek
Project Location: Waverly Road culvert on Tributary 35
Project Description: Construct engineered stilling basin at culvert outfall

Issues Addressed:

Flooding Impacts
Projects primarily intended to address structural or non-structural flooding will always incorporate a high or low risk safety factor; though typically will not incorporate stream stability or water quality benefits.

Flooding Benefits		Points, P _{FD}
Major Structural Flooding Damage		30
Minor Structural Flooding Damage		20
Non-Structural Flooding	Streets / ROW, Other	15
Conservation / Prevention	Easements / Acquisitions	10
None		0
		P_{FD} = 0

Flooding Frequency		Multiplier, C _F
Frequent Flooding	More frequent than 10-year storm	4
Infrequent Flooding	Less frequent than 10-year storm	2
None		0
		C_{FF} = 0

A = P_{FD} * C_{FF} = 0

Structural and Non-Structural Flooding

Stream Stability
Projects primarily intended for stream stability typically will not incorporate flooding impact benefits; though will incorporate water quality benefits.

Stream Stability Benefit		Points, P _{ET}
Channel Erosion Threatening to Structures		50
Channel Erosion Threatening to Public Infrastructure		40
Channel Erosion Threatening to Natural Resources		35
Conservation / Prevention		10
Stream Stability benefit due to Flood Control or Water Quality Project		10
None		0
		P_{ET} = 40

Erosion Activity / Systemic Threat		Multiplier, C _{EA}
Aggressive Erosion		3
Non-Aggressive Erosion		2
None		0
		C_{EA} = 2

B = P_{ET} * C_{EA} = 80

Open Channel and Surface Erosion

Water Quality
Projects primarily intended for water quality typically will not incorporate flooding impact benefits; though may incorporate stream stability benefits.

Water Quality Benefits		Points, P _{WQ}
Enhance / Preserve Natural Resource Areas (Lake, Wetlands, etc.)		60
Regulatory Compliance / Stormwater Permit / NPDES		60
Create New Natural Resource Areas (Lakes, Wetlands, etc.)		50
Conservation / Prevention		30
Water Quality benefit due to Flood Control or Stream Stability Project		20
None		0
		P_{WQ} = 0

Project Benefit		Multiplier, C _{WB}
Major Water Quality Benefit	Broad-Based Impacts	4
Minor Water Quality Benefit	Localized Impacts	3
None		0
		C_{WB} = 0

C = P_{WQ} * C_{WB} = 0

Water Quality, Wetlands, Natural Habitat

Safety Factor

Public Health and Safety		Points, P _{SF}
High Risk	Potential Loss of Life or Bodily Injury	160
Low Risk	Public Nuisance	60
No Risk		0
		P_{SF} = 0

D = P_{SF} = 0

Public Health and Safety

Prioritization Ranking Summary

X = A + B + C + D = 80

Miscellaneous Factors may be used to adjust scoring:

P_{MISC} (See attached worksheet for description of miscellaneous items) _____ **0**

May Include: Project Location, Coincident Projects, Development Status, etc.

P_{AC}, Additional Considerations (may be used to add or subtract up to 60 points) _____ **10**

May Include: Legal Issues, Jurisdictional Coordination, Complaints, Outside Funding Sources, Wildlife Benefits, etc.

TOTAL = X + P_{MISC} + P_{AC} = 90

Total for Project # or Project # 14 = 90

Project Location, Development Status, Coincident Projects, Corridors / Maintenance, Downstream Impacts, Source Reduction, Additional Considerations

Comments or Description of Additional Considerations:

MISCELLANEOUS FACTORS - DRAFT

		Available	Assigned
Location	Public Property or willing owner of Private Property	up to 20	0
Coincident with Adjacent Projects	Public Projects (water, sanitary, roads, etc.)	up to 20	0
	Private Projects	up to 10	0
Development Status (Points available are fixed, and are not flexible)	Tier I, Priority A	20	0
	Tier I, Priority B	15	0
	Tier I, Priority C	10	0
	Existing City Limits	10	0
	Tier II (development 25 - 50 years)	5	0
	Tier III (development > 50 years)	0	0
<p>Tier I, Priority A - Areas designated for near term development are generally contiguous to existing development and should be provided first with basic infrastructure within 6 years of the adoption of the Plan. Some of the infrastructure required for development may already be in place. This area includes some land already annexed with City commitments to fund infrastructure improvements, but the land is still undeveloped and without significant infrastructure in place yet. Some infrastructure improvements may be done in the near term while others, such as road improvements that are generally more costly, may take longer to complete.</p> <p>Tier I, Priority B - The next areas for development, beyond Priority A, are those which currently lack almost all of the infrastructure required to support development. In areas with this designation, the community will maintain present uses until urban development can commence. Infrastructure improvements to serve this area will not initially be included in the City's CIP, but will be actively planned for in the longer term capital improvement planning of the various city and county departments.</p> <p>Tier I, Priority C - This is the later phase of development areas and is intended to be served after Priority A and B. Given current growth rates and infrastructure financing, development would not begin in this area until after 2020 or 2025.</p>			
Total Miscellaneous Points, P_{MISC} =		0	

Prioritization Ranking for Watershed Master Plan Projects - DRAFT
City of Lincoln, Nebraska

Prepared By: Mark Meyer, PE Date: 12/3/08
Project ID: Project # 15 Watershed: Little Salt Creek
Project Location: N 1st Street culvert on Tributary 30
Project Description: Construct engineered stilling basin at culvert outfall

Issues Addressed:

Flooding Impacts
Projects primarily intended to address structural or non-structural flooding will always incorporate a high or low risk safety factor; though typically will not incorporate stream stability or water quality benefits.

Flooding Benefits		Points, P _{FD}
Major Structural Flooding Damage		30
Minor Structural Flooding Damage		20
Non-Structural Flooding	Streets / ROW, Other	15
Conservation / Prevention	Easements / Acquisitions	10
None		0
P _{FD} =		0

Flooding Frequency		Multiplier, C _{FF}
Frequent Flooding	More frequent than 10-year storm	4
Infrequent Flooding	Less frequent than 10-year storm	2
None		0
C _{FF} =		0

A = P _{FD} * C _{FF}		0
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Structural and Non-Structural Flooding

Stream Stability
Projects primarily intended for stream stability typically will not incorporate flooding impact benefits; though will incorporate water quality benefits.

Stream Stability Benefit		Points, P _{ET}
Channel Erosion Threatening to Structures		50
Channel Erosion Threatening to Public Infrastructure		40
Channel Erosion Threatening to Natural Resources		35
Conservation / Prevention		10
Stream Stability benefit due to Flood Control or Water Quality Project		10
None		0
P _{ET} =		40

Erosion Activity / Systemic Threat		Multiplier, C _{EA}
Aggressive Erosion		3
Non-Aggressive Erosion		2
None		0
C _{EA} =		2

B = P _{ET} * C _{EA}		80
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Open Channel and Surface Erosion

Water Quality
Projects primarily intended for water quality typically will not incorporate flooding impact benefits; though may incorporate stream stability benefits.

Water Quality Benefits		Points, P _{WQ}
Enhance / Preserve Natural Resource Areas (Lake, Wetlands, etc.)		60
Regulatory Compliance / Stormwater Permit / NPDES		60
Create New Natural Resource Areas (Lakes, Wetlands, etc.)		50
Conservation / Prevention		30
Water Quality benefit due to Flood Control or Stream Stability Project		20
None		0
P _{WQ} =		0

Project Benefit		Multiplier, C _{WB}
Major Water Quality Benefit	Broad-Based Impacts	4
Minor Water Quality Benefit	Localized Impacts	3
None		0
C _{WB} =		0

C = P _{WQ} * C _{WB}		0
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Water Quality, Wetlands, Natural Habitat

Safety Factor

Public Health and Safety		Points, P _{SF}
High Risk	Potential Loss of Life or Bodily Injury	160
Low Risk	Public Nuisance	60
No Risk		0
P _{SF} =		0

D = P _{SF}		0
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Public Health and Safety

Prioritization Ranking Summary

X = A + B + C + D 80

Miscellaneous Factors may be used to adjust scoring:

P_{MISC} (See attached worksheet for description of miscellaneous items) 0

May Include: Project Location, Coincident Projects, Development Status, etc.

P_{AC}, Additional Considerations (may be used to add or subtract up to 60 points) 20

May Include: Legal Issues, Jurisdictional Coordination, Complaints, Outside Funding Sources, Wildlife Benefits, etc.

TOTAL = X + P_{MISC} + P_{AC} 100

Total for Project # or Project # 15 **100**

Project Location, Development Status, Coincident Projects, Corridors / Maintenance, Downstream Impacts, Source Reduction, Additional Considerations

Comments or Description of Additional Considerations:

MISCELLANEOUS FACTORS - DRAFT

		Available	Assigned
Location	Public Property or willing owner of Private Property	up to 20	0
<hr/>			
Coincident with Adjacent Projects	Public Projects (water, sanitary, roads, etc.)	up to 20	0
	Private Projects	up to 10	0
<hr/>			
Development Status (Points available are fixed, and are not flexible)	Tier I, Priority A	20	0
	Tier I, Priority B	15	0
	Tier I, Priority C	10	0
	Existing City Limits	10	0
	Tier II (development 25 - 50 years)	5	0
	Tier III (development > 50 years)	0	0
<p>Tier I, Priority A - Areas designated for near term development are generally contiguous to existing development and should be provided first with basic infrastructure within 6 years of the adoption of the Plan. Some of the infrastructure required for development may already be in place. This area includes some land already annexed with City commitments to fund infrastructure improvements, but the land is still undeveloped and without significant infrastructure in place yet. Some infrastructure improvements may be done in the near term while others, such as road improvements that are generally more costly, may take longer to complete.</p> <p>Tier I, Priority B - The next areas for development, beyond Priority A, are those which currently lack almost all of the infrastructure required to support development. In areas with this designation, the community will maintain present uses until urban development can commence. Infrastructure improvements to serve this area will not initially be included in the City's CIP, but will be actively planned for in the longer term capital improvement planning of the various city and county departments.</p> <p>Tier I, Priority C - This is the later phase of development areas and is intended to be served after Priority A and B. Given current growth rates and infrastructure financing, development would not begin in this area until after 2020 or 2025.</p>			
		Total Miscellaneous Points, P_{MISC} =	0

Prioritization Ranking for Watershed Master Plan Projects - DRAFT
City of Lincoln, Nebraska

Prepared By:	Mark Meyer, PE	Date:	12/3/08
Project ID:	Project # 16	Watershed:	Little Salt Creek
Project Location:	Branched Oak Road culvert on Tributary 45		
Project Description:	Construct engineered stilling basin at culvert outfall		

Issues Addressed:

Flooding Impacts

Projects primarily intended to address structural or non-structural flooding will always incorporate a high or low risk safety factor; though typically will not incorporate stream stability or water quality benefits.

Flooding Benefits		Points, P _{FD}
Major Structural Flooding Damage		30
Minor Structural Flooding Damage		20
Non-Structural Flooding	Streets / ROW, Other	15
Conservation / Prevention	Easements / Acquisitions	10
None		0
P _{FD} =		0

Flooding Frequency		Multiplier, C _{FF}
Frequent Flooding	More frequent than 10-year storm	4
Infrequent Flooding	Less frequent than 10-year storm	2
None		0
C _{FF} =		0

A = P _{FD} * C _{FF}		0
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Structural and Non-Structural Flooding

Stream Stability

Projects primarily intended for stream stability typically will not incorporate flooding impact benefits; though will incorporate water quality benefits.

Stream Stability Benefit		Points, P _{ET}
Channel Erosion Threatening to Structures		50
Channel Erosion Threatening to Public Infrastructure		40
Channel Erosion Threatening to Natural Resources		35
Conservation / Prevention		10
Stream Stability benefit due to Flood Control or Water Quality Project		10
None		0
P _{ET} =		40

Erosion Activity / Systemic Threat		Multiplier, C _{EA}
Aggressive Erosion		3
Non-Aggressive Erosion		2
None		0
C _{EA} =		2

B = P _{ET} * C _{EA}		80
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Open Channel and Surface Erosion

Water Quality

Projects primarily intended for water quality typically will not incorporate flooding impact benefits; though may incorporate stream stability benefits.

Water Quality Benefits		Points, P _{WQ}
Enhance / Preserve Natural Resource Areas (Lake, Wetlands, etc.)		60
Regulatory Compliance / Stormwater Permit / NPDES		60
Create New Natural Resource Areas (Lakes, Wetlands, etc.)		50
Conservation / Prevention		30
Water Quality benefit due to Flood Control or Stream Stability Project		20
None		0
P _{WQ} =		0

Project Benefit		Multiplier, C _{WB}
Major Water Quality Benefit	Broad-Based Impacts	4
Minor Water Quality Benefit	Localized Impacts	3
None		0
C _{WB} =		0

C = P _{WQ} * C _{WB}		0
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Water Quality, Wetlands, Natural Habitat

Safety Factor

Public Health and Safety		Points, P _{SF}
High Risk	Potential Loss of Life or Bodily Injury	160
Low Risk	Public Nuisance	60
No Risk		0
P _{SF} =		0

D = P _{SF}		0
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Public Health and Safety

Prioritization Ranking Summary

X = A + B + C + D 80

Miscellaneous Factors may be used to adjust scoring:

P_{MISC} (See attached worksheet for description of miscellaneous items) 0

May Include: Project Location, Coincident Projects, Development Status, etc.

P_{AC}, Additional Considerations (may be used to add or subtract up to 60 points) 5

May Include: Legal Issues, Jurisdictional Coordination, Complaints, Outside Funding Sources, Wildlife Benefits, etc.

TOTAL = X + P_{MISC} + P_{AC} 85

Total for Project # or Project # 16 **85**

Project Location, Development Status, Coincident Projects, Corridors / Maintenance, Downstream Impacts, Source Reduction, Additional Considerations

Comments or Description of Additional Considerations:

MISCELLANEOUS FACTORS - DRAFT

		Available	Assigned
Location	Public Property or willing owner of Private Property	up to 20	0
Coincident with Adjacent Projects	Public Projects (water, sanitary, roads, etc.)	up to 20	0
	Private Projects	up to 10	0
Development Status (Points available are fixed, and are not flexible)	Tier I, Priority A	20	0
	Tier I, Priority B	15	0
	Tier I, Priority C	10	0
	Existing City Limits	10	0
	Tier II (development 25 - 50 years)	5	0
	Tier III (development > 50 years)	0	0
<p>Tier I, Priority A - Areas designated for near term development are generally contiguous to existing development and should be provided first with basic infrastructure within 6 years of the adoption of the Plan. Some of the infrastructure required for development may already be in place. This area includes some land already annexed with City commitments to fund infrastructure improvements, but the land is still undeveloped and without significant infrastructure in place yet. Some infrastructure improvements may be done in the near term while others, such as road improvements that are generally more costly, may take longer to complete.</p> <p>Tier I, Priority B - The next areas for development, beyond Priority A, are those which currently lack almost all of the infrastructure required to support development. In areas with this designation, the community will maintain present uses until urban development can commence. Infrastructure improvements to serve this area will not initially be included in the City's CIP, but will be actively planned for in the longer term capital improvement planning of the various city and county departments.</p> <p>Tier I, Priority C - This is the later phase of development areas and is intended to be served after Priority A and B. Given current growth rates and infrastructure financing, development would not begin in this area until after 2020 or 2025.</p>			
		Total Miscellaneous Points, P_{MISC} =	0

Prioritization Ranking for Watershed Master Plan Projects - DRAFT
City of Lincoln, Nebraska

Prepared By:	Mark Meyer, PE	Date:	12/3/08
Project ID:	Project # 17	Watershed:	Little Salt Creek
Project Location:	Davey Road culvert on Tributary 1260		
Project Description:	Construct engineered stilling basin at culvert outfall		

Issues Addressed:

Flooding Impacts

Projects primarily intended to address structural or non-structural flooding will always incorporate a high or low risk safety factor; though typically will not incorporate stream stability or water quality benefits.

Flooding Benefits		Points, P _{FD}	
Major Structural Flooding Damage		30	
Minor Structural Flooding Damage		20	
Non-Structural Flooding	Streets / ROW, Other	15	
Conservation / Prevention	Easements / Acquisitions	10	
None		0	
P _{FD} =		0	

Flooding Frequency		Multiplier, C _{FF}	
Frequent Flooding	More frequent than 10-year storm	4	0
Infrequent Flooding	Less frequent than 10-year storm	2	0
None		0	0
C _{FF} =		0	0

A = P_{FD} * C_{FF} = 0

Structural and Non-Structural Flooding

Stream Stability

Projects primarily intended for stream stability typically will not incorporate flooding impact benefits; though will incorporate water quality benefits.

Stream Stability Benefit		Points, P _{ET}	
Channel Erosion Threatening to Structures		50	
Channel Erosion Threatening to Public Infrastructure		40	
Channel Erosion Threatening to Natural Resources		35	
Conservation / Prevention		10	
Stream Stability benefit due to Flood Control or Water Quality Project		10	
None		0	
P _{ET} =		40	

Erosion Activity / Systemic Threat		Multiplier, C _{EA}	
Aggressive Erosion		3	40
Non-Aggressive Erosion		2	2
None		0	0
C _{EA} =		2	80

B = P_{ET} * C_{EA} = 80

Open Channel and Surface Erosion

Water Quality

Projects primarily intended for water quality typically will not incorporate flooding impact benefits; though may incorporate stream stability benefits.

Water Quality Benefits		Points, P _{WQ}	
Enhance / Preserve Natural Resource Areas (Lake, Wetlands, etc.)		60	
Regulatory Compliance / Stormwater Permit / NPDES		60	
Create New Natural Resource Areas (Lakes, Wetlands, etc.)		50	
Conservation / Prevention		30	
Water Quality benefit due to Flood Control or Stream Stability Project		20	
None		0	
P _{WQ} =		0	

Project Benefit		Multiplier, C _{WB}	
Major Water Quality Benefit	Broad-Based Impacts	4	0
Minor Water Quality Benefit	Localized Impacts	3	0
None		0	0
C _{WB} =		0	0

C = P_{WQ} * C_{WB} = 0

Water Quality, Wetlands, Natural Habitat

Safety Factor

Public Health and Safety		Points, P _{SF}	
High Risk	Potential Loss of Life or Bodily Injury	160	
Low Risk	Public Nuisance	60	
No Risk		0	
P _{SF} =		0	D = P_{SF} = 0

Public Health and Safety

Prioritization Ranking Summary

X = A + B + C + D = 80

Miscellaneous Factors may be used to adjust scoring:

P_{MISC} (See attached worksheet for description of miscellaneous items) _____ **0**

May Include: Project Location, Coincident Projects, Development Status, etc. _____

P_{AC}, Additional Considerations (may be used to add or subtract up to 60 points) _____ **5**

May Include: Legal Issues, Jurisdictional Coordination, Complaints, Outside Funding Sources, Wildlife Benefits, etc. _____

TOTAL = X + P_{MISC} + P_{AC} = **85**

Total for Project # or Project # 17 = 85

Project Location, Development Status, Coincident Projects, Corridors / Maintenance, Downstream Impacts, Source Reduction, Additional Considerations

Comments or Description of Additional Considerations:

MISCELLANEOUS FACTORS - DRAFT

		Available	Assigned
Location	Public Property or willing owner of Private Property	up to 20	0
Coincident with Adjacent Projects	Public Projects (water, sanitary, roads, etc.)	up to 20	0
	Private Projects	up to 10	0
Development Status (Points available are fixed, and are not flexible)	Tier I, Priority A	20	0
	Tier I, Priority B	15	0
	Tier I, Priority C	10	0
	Existing City Limits	10	0
	Tier II (development 25 - 50 years)	5	0
	Tier III (development > 50 years)	0	0
<p>Tier I, Priority A - Areas designated for near term development are generally contiguous to existing development and should be provided first with basic infrastructure within 6 years of the adoption of the Plan. Some of the infrastructure required for development may already be in place. This area includes some land already annexed with City commitments to fund infrastructure improvements, but the land is still undeveloped and without significant infrastructure in place yet. Some infrastructure improvements may be done in the near term while others, such as road improvements that are generally more costly, may take longer to complete.</p> <p>Tier I, Priority B - The next areas for development, beyond Priority A, are those which currently lack almost all of the infrastructure required to support development. In areas with this designation, the community will maintain present uses until urban development can commence. Infrastructure improvements to serve this area will not initially be included in the City's CIP, but will be actively planned for in the longer term capital improvement planning of the various city and county departments.</p> <p>Tier I, Priority C - This is the later phase of development areas and is intended to be served after Priority A and B. Given current growth rates and infrastructure financing, development would not begin in this area until after 2020 or 2025.</p>			
		Total Miscellaneous Points, P_{MISC} =	0

Prioritization Ranking for Watershed Master Plan Projects - DRAFT
City of Lincoln, Nebraska

Prepared By: Mark Meyer, PE Date: 12/3/08
Project ID: Project # 18 Watershed: Little Salt Creek
Project Location: Davey Road culvert on Tributary 260
Project Description: Construct engineered stilling basin at culvert outfall

Issues Addressed:

Flooding Impacts
Projects primarily intended to address structural or non-structural flooding will always incorporate a high or low risk safety factor; though typically will not incorporate stream stability or water quality benefits.

Flooding Benefits		Points, P _{FD}
Major Structural Flooding Damage		30
Minor Structural Flooding Damage		20
Non-Structural Flooding	Streets / ROW, Other	15
Conservation / Prevention	Easements / Acquisitions	10
None		0
		P_{FD} = 0

Flooding Frequency		Multiplier, C _F
Frequent Flooding	More frequent than 10-year storm	4
Infrequent Flooding	Less frequent than 10-year storm	2
None		0
		C_F = 0

	A = P_{FD} * C_F	0
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Structural and Non-Structural Flooding

Stream Stability
Projects primarily intended for stream stability typically will not incorporate flooding impact benefits; though will incorporate water quality benefits.

Stream Stability Benefit		Points, P _{ET}
Channel Erosion Threatening to Structures		50
Channel Erosion Threatening to Public Infrastructure		40
Channel Erosion Threatening to Natural Resources		35
Conservation / Prevention		10
Stream Stability benefit due to Flood Control or Water Quality Project		10
None		0
		P_{ET} = 40

Erosion Activity / Systemic Threat		Multiplier, C _{EA}
Aggressive Erosion		3
Non-Aggressive Erosion		2
None		0
		C_{EA} = 2

	B = P_{ET} * C_{EA}	40
		2
		80

Open Channel and Surface Erosion

Water Quality
Projects primarily intended for water quality typically will not incorporate flooding impact benefits; though may incorporate stream stability benefits.

Water Quality Benefits		Points, P _{WQ}
Enhance / Preserve Natural Resource Areas (Lake, Wetlands, etc.)		60
Regulatory Compliance / Stormwater Permit / NPDES		60
Create New Natural Resource Areas (Lakes, Wetlands, etc.)		50
Conservation / Prevention		30
Water Quality benefit due to Flood Control or Stream Stability Project		20
None		0
		P_{WQ} = 0

Project Benefit		Multiplier, C _{WB}
Major Water Quality Benefit	Broad-Based Impacts	4
Minor Water Quality Benefit	Localized Impacts	3
None		0
		C_{WB} = 0

	C = P_{WQ} * C_{WB}	0
		0
		0

Water Quality, Wetlands, Natural Habitat

Safety Factor

Public Health and Safety		Points, P _{SF}
High Risk	Potential Loss of Life or Bodily Injury	160
Low Risk	Public Nuisance	60
No Risk		0
		P_{SF} = 0

	D = P_{SF}	0
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Public Health and Safety

Prioritization Ranking Summary

	X = A + B + C + D	80
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Miscellaneous Factors may be used to adjust scoring:

P_{MISC} (See attached worksheet for description of miscellaneous items) _____ **0**

May Include: Project Location, Coincident Projects, Development Status, etc.

P_{AC}, Additional Considerations (may be used to add or subtract up to 60 points) _____ **0**

May Include: Legal Issues, Jurisdictional Coordination, Complaints, Outside Funding Sources, Wildlife Benefits, etc.

TOTAL = X + P_{MISC} + P_{AC} **80**

Total for Project # or Project # 18 **80**

Project Location, Development Status, Coincident Projects, Corridors / Maintenance, Downstream Impacts, Source Reduction, Additional Considerations

Comments or Description of Additional Considerations:

MISCELLANEOUS FACTORS - DRAFT

		Available	Assigned
Location	Public Property or willing owner of Private Property	up to 20	0
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Coincident with Adjacent Projects	Public Projects (water, sanitary, roads, etc.)	up to 20	0
	Private Projects	up to 10	0
<hr/>			
Development Status (Points available are fixed, and are not flexible)	Tier I, Priority A	20	0
	Tier I, Priority B	15	0
	Tier I, Priority C	10	0
	Existing City Limits	10	0
	Tier II (development 25 - 50 years)	5	0
	Tier III (development > 50 years)	0	0
<p>Tier I, Priority A - Areas designated for near term development are generally contiguous to existing development and should be provided first with basic infrastructure within 6 years of the adoption of the Plan. Some of the infrastructure required for development may already be in place. This area includes some land already annexed with City commitments to fund infrastructure improvements, but the land is still undeveloped and without significant infrastructure in place yet. Some infrastructure improvements may be done in the near term while others, such as road improvements that are generally more costly, may take longer to complete.</p> <p>Tier I, Priority B - The next areas for development, beyond Priority A, are those which currently lack almost all of the infrastructure required to support development. In areas with this designation, the community will maintain present uses until urban development can commence. Infrastructure improvements to serve this area will not initially be included in the City's CIP, but will be actively planned for in the longer term capital improvement planning of the various city and county departments.</p> <p>Tier I, Priority C - This is the later phase of development areas and is intended to be served after Priority A and B. Given current growth rates and infrastructure financing, development would not begin in this area until after 2020 or 2025.</p>			
		Total Miscellaneous Points, P_{MISC} =	0