

Mobile District Complex Riparian Buffer Credit Calculation Procedure

“Complex” riparian buffers are stream buffers (on either side) that are comprised of two or more mitigation types (restoration, enhancement, or preservation). The following procedure is to be used to calculate the riparian buffer credits generated on stream reaches with complex buffers on either side of the stream reach.

Using the riparian buffer worksheet in the Mobile District Stream SOP, create columns for each type of mitigation type occurring in the riparian buffers along a stream reach. Note that net benefit scoring is specific to each side of the stream and is based on the total riparian buffer width for that side of the stream and each mitigation type. If a riparian buffer is not complex on one side of the stream, a net benefit score of 0 should be entered for a mitigation type that does not occur. The system protection credit is calculated for all columns. Complete the column based on the appropriate choices for each side of the stream, then multiply the credits by the cumulative percentage of the specific mitigation type found in both buffers along the stream reach.

Mobile District Stream SOP: Riparian Buffer Credit Calculation Worksheet

EXAMPLE 1. The below example is based on riparian buffer polygons along 1,067.1 linear feet of intermittent stream with 100-foot wide riparian buffers on both sides. The riparian buffers on both sides contain pine savannah restoration and bottomland hardwood preservation components, and the overall composition in both buffers is 58% pine savannah restoration and 42% bottomland hardwood preservation.

Stream ID	Reach 3	Reach 3
	Restoration	Preservation
Management Component		
Length (ft)	1067.1	1067.1
Factors		
Stream Type	Intermittent	Intermittent
Stream Order	0	0
Stream Type Score	1.00	1.00
Priority Area	0.20	0.20
Net Benefit Side 1 (S/W)	0.80	0.20
Net Benefit Side 2 (N/E)	0.80	0.20
System Protection Credit	0.80	0.20
Timing of Mitigation (Side A)	0.15	0.00
Timing of Mitigation (Side B)	0.15	0.00
Sum of Factors	3.90	1.80
Length	1,067.1	1,067.1
Credits (Side A)		
Credits (Side B)		
Credits	4,161.7	1,920.8
Factor	1.00	1.00
Total Credits	4,161.7	1,920.8
% Due to Designated Management Type	58%	42%
Available Credits	2413.78	806.73
Total Credits for This Reach	3220.51	

EXAMPLE 2. The below example is based on riparian buffer polygons along 1,067.1 linear feet of intermittent stream with 100-foot wide riparian buffers on side 1, and 50-foot wide riparian buffer on side 2. The riparian buffer on side 1 contain pine savannah restoration and bottomland hardwood preservation components, the riparian buffer on side 2 is bottomland hardwood preservation. The overall composition in both buffers is 58% pine savannah restoration and 42% bottomland hardwood preservation.

Stream ID
Management Component

Length (ft) Factors	Reach 3	Reach 3
	Restoration	Preservation
	1067.1	1067.1
Stream Type	Intermittent	Intermittent
Stream Order	0	0
Stream Type Score	1.00	1.00
Priority Area	0.20	0.20
Net Benefit Side 1 (S/W)	0.80	0.20
Net Benefit Side 2 (N/E)	0	0.10
System Protection Credit	0.40	0.15
Timing of Mitigation (Side A)	0.15	0.00
Timing of Mitigation (Side B)	0	0.00
Sum of Factors	2.55	1.65
Length	1,067.1	1,067.1
Credits (Side A)		
Credits (Side B)		
Credits	2,721.11	1,760.72
Factor	1.00	1.00
Total Credits	2721.11	1760.72
% Due to Designated Management Type	58%	42%
Available Credits	1,578.24	739.50
Total Credits for This Reach	2317.74	