

Compensation Requirement Planning Calculator

The CR for each applicable function group is calculated using the following equation:

$$\text{Compensation Requirement (CR)} = A_i \times P_E \times C_i \times R_V$$

Where,

- A_i Area of Impact (in acres, 0.00)
- P_E Project Effect Factor (Table 5)
- C_i Condition Index Value (0.00) (L2RAP)
- R_V Resource Value (Table 6)

Riverine Compensation Calculator

A_i (acres)	Perm Direct	FG Credit Req.	Perm Indirect	FG Credit Req.	Temp Direct	FG Credit Req.	Temp Indirect	FG Credit Req.	Total FG Credit Req.
RS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HYD1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BGC1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAB1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P_E (Table 5)	3.0		2.0		1.0		1.0		AFT Req
AdjFact	0.0		0.0		0.0		0.0		0.00
Adjusted P_E	3.0		2.0		1.0		1.0		0.00
C_i (L2RAP)	0		0		0		0		0.00
R_V (Table 6)	0		0		0		0		0.00
AFT Multiplier	0								

Wetland Compensation Calculator

A_i (acres)	Perm Direct	FG Credit Req.	Perm Indirect	FG Credit Req.	Temp Direct	FG Credit Req.	Temp Indirect	FG Credit Req.	Total FG Credit Req.
HYD2	0.02	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.08
BGC2	0.02	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.08
HAB2	0.02	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.08
P_E (Table 5)	3.0		2.0		1.0		1.0		AFT FG Credit Req
AdjFact	1.0		0.0		0.0		0.0		0.00
Adjusted P_E	4.0		2.0		1.0		1.0		0.00
C_i (L2RAP)	0.52		0		0		0		0.00
R_V (Table 6)	2		0		0		0		0.00
AFT Multiplier	0.00								

Table 1. Watershed Size Class (WSC)

Watershed Size Class		
Class	Description	Drainage Area
1	Headwater	>0 ≤2 mi ²
2	Small Stream	>2 ≤10 mi ²
3	Mid-reach Stream	>10 ≤100 mi ²
4	Large Stream/River	>100 mi ²

Table 5. Project Effect Factor Values

Aquatic Resource Type	Function Groups	Criteria	Project Effect Category	P_E
All	All	All aquatic resource function group areas that are subjected to permanent direct impacts (i.e., loss of area and function).	Severe Effect	3.0
All	All	All aquatic resource function groups that are subjected to permanent indirect impacts.	Moderate Effect	2.0
All	All	All aquatic resource function groups that are subjected to temporal direct and/or indirect impacts that last longer than one year.	Limited Effect	1.0
All	All	All aquatic resource function groups that are subjected to temporal direct and/or indirect impacts that last less than one year.	Minimal Effect	0.0

Table 6. Aquatic Resource Value Categories

Aquatic Resource Value Category			R_V
Riverine	Palustrine Wetland	Lacustrine	
Significant Resource Waters			
Waters with a designated or existing use of Exceptional Value Waters under Chapter 93 or wetlands classified exceptional value wetlands in accordance with § 105.17. Presence of federal or state threatened or endangered species, or natural vegetation communities characterized by the DCNR's natural community classification system and designated a State Rank of S1 Critically Imperiled or S2 Imperiled.			3.0
Wetlands that support a significant aquatic vegetation community with a mean C value > 5.61 (all species) or > 5.88 (dominant species) (see Table 7).			
Special Resource Waters			
Riverine	Palustrine Wetland	Lacustrine	
Waters with a designated or existing use of High Quality Waters under Chapter 93 including wetlands that are located in or along the floodplain of such reaches. Waters containing known habitat used by migratory fish populations for reproduction; geographically unique or unusual aquatic community habitat, including salmon/steelhead waters and naturally reproducing northern pike waters; waters designated with special regulations by the PFBC including big bass waters and trophy trout waters; or natural vegetation communities characterized by the DCNR's natural community classification system and designated a State Rank of S3 Vulnerable.			2.5
Wetlands that support a high quality aquatic vegetation community with a mean C value > 3.74 and ≤ 5.61 (all species) or > 3.92 and ≤ 5.88 (dominant species) (see Table 7).			
Quality Resource Waters			
Riverine	Palustrine Wetland	Lacustrine	
Watershed Size Class 1 and 2 stream reaches (see Table 2). This category includes all other wetlands and lacustrine resources not meeting the Significant, Special, Support or Minimal Resource Value categories.			2.0
Streams with recreationally valued species present with sufficient populations to provide recreational opportunities. Wetlands that support a quality aquatic vegetation community with a mean C value > 1.87 and ≤ 3.74 (all species) or > 1.96 and ≤ 3.92 (dominant species) (see Table 7).			
Support Resource Waters			
Riverine	Palustrine Wetland	Lacustrine	
Streams containing non-recreation valued fisheries not identified in above sections. Wetlands that support an aquatic vegetation community with a mean C value ≤ 1.87 (all species) or ≤ 1.96 (dominant species) (see Table 7). Ponds (including farm or stock ponds) equal to or greater than 10 acres in size.			1.5
Minimal Resource Waters			
Riverine	Palustrine Wetland	Lacustrine	
Armored watercourses, gabion-lined channels, riprap-lined channels, concrete-lined channels, channels constructed to control erosion and sediment or to convey stormwater. Wetlands as described in § 105.12(a)(6) related to stormwater management or an or an erosion and sedimentation pollution control facility. Treatment wetlands as described in § 105.12(a)(5) constructed and maintained for the treatment of mine drainage, sewage, or other waste. Ponds (including farm or stock ponds) less than 10 acres in size.			1.0