



2. Biodiversity

Objectives

- Enhance terrestrial habitat
- Enhance aquatic habitat

Buffer functions

1. Increase habitat area
2. Protect sensitive habitats
3. Restore connectivity
4. Increase access to resources
5. Shade stream to maintain temperature

Design Guidelines for Biodiversity	Buffer Functions				
	Increase habitat area	Protect sensitive habitats	Restore connectivity	Increase access to resources	Shade stream to maintain temperature
2.1 Matrix primer	✓	✓	✓	✓	
2.2 Patch primer	✓	✓	✓	✓	
2.3 Corridors and connectivity	✓	✓	✓	✓	
2.4 Corridors versus connectivity zones	✓	✓	✓	✓	
2.5 Corridor network	✓	✓	✓	✓	
2.6 Climate change and corridors	✓	✓	✓	✓	✓
2.7 Stepping stones and gaps	✓	✓	✓	✓	
2.8 Buffers and corridors	✓	✓	✓	✓	
2.9 Corridor width	✓	✓	✓	✓	

Design Guidelines for Biodiversity	Buffer Functions				
	Increase habitat area	Protect sensitive habitats	Restore connectivity	Increase access to resources	Shade stream to maintain temperature
2.10 Edge effects of corridors		✓	✓	✓	
2.11 Aquatic habitat and buffers	✓	✓	✓	✓	✓
2.12 Stream temperature and buffers	✓	✓	✓	✓	✓
2.13 Roads and wildlife crossings			✓	✓	
2.14 Roadside corridors	✓		✓	✓	

Additional Design Guidelines that may Benefit Biodiversity	Buffer Functions				
	Increase habitat area	Protect sensitive habitats	Restore connectivity	Increase access to resources	Shade stream to maintain temperature
1.4 Target buffers in watersheds	✓	✓	✓	✓	✓
1.14 Buffers for pesticides		✓			
3.2 Windbreaks for wind erosion	✓	✓	✓	✓	✓
3.3 Herbaceous wind barriers	✓		✓	✓	
3.4 Grassed waterways	✓		✓	✓	
4.5 Alley cropping	✓		✓	✓	
4.9 Crop pollinator habitat	✓		✓	✓	
5.1 Managing insect pests with buffers	✓		✓	✓	
5.2 Plants that attract beneficial insects	✓		✓	✓	
5.3 Buffers and spray drift		✓			
6.5 Developing an ecological aesthetic	✓	✓	✓	✓	✓
7.1 Trail design and wildlife	✓	✓	✓	✓	
7.2 Flight initiation distance buffers		✓	✓	✓	
7.3 Trails along riparian corridors		✓	✓	✓	✓