



Lynx Silt Mat

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- These mats act as a final polishing mechanism prior to release from a stream channel.
- These mats are malleable and can conform to any surface.
- Good silt collection for creeks and channels.



Silt can have a range of impacts on freshwater fish, depending on the quantity, particle type and duration, which cause relatively low-level effects on individuals, such as behavioral changes, to the most severe – death.

Species of Fish	Impact caused by Silt	Critical Silts Concentration	Reference
<i>Tilapia rendalli</i> (Adult)	Total mortality	63-140g L ⁻¹	Buermann et al. 1997
<i>Tilapia rendalli</i> (Juvenile)	Total mortality	26-34g L ⁻¹	Buermann et al. 1997
<i>Salmo trutta</i> (Juvenile)	70% reduction in density	-	Crosa et al. 2010
<i>Salmo trutta</i> (Adult)	40% reduction in density	-	Crosa et al. 2010
<i>Oncorhynchus nerka</i>	80% reduction in fertilized eggs	>9000mg/L ⁻¹	Galbraith et al. 2006
<i>Oncorhynchus kisutch</i>	80% reduction in fertilized eggs	>9000mg/L ⁻¹	Galbraith et al. 2006
<i>Oncorhynchus tshawytscha</i>	Change in behavior	>20mg/L	Birtwell 1999
<i>Salmo salar</i>	Reduced foraging activity	180mg/L	Robertson et al. 2007
<i>Acipenser transmontanus</i>	No change in behavior	-	Parsley et al. 2011

Table 1. Review summary of impacts of silt and the critical threshold of silt levels on different species of fish.

Particle Types	Particle size (um)
• Medium Gravel	1200
• Fine Gravel	6000
• Very Fine Gravel	3000
• Very Course Sand	1500
• Coarse Sand	750
• Very Fine Sand	93.75
• SILT	33.2