

Multi-Log Vane Deflectors

Multi-Log Vane Deflectors function exactly like stream barbs. They stop erosion by slowing the flow down at the toe of the bank and effectively moving the fastest, deepest part of the stream towards the middle of the channel. A Multi-Log Vane Deflector usually consists of three logs which are pinned together with rebar to form a pyramid shape. They are installed pointing upstream with a gradual slope from the tip in the streambed up to where the logs intersect the bank. At least a third of the logs must be keyed back in to the bank for stability. These can be a cost effective solution if logs are available on site. Trees that are naturally resistant to rotting (such as hemlock) are commonly used. The lifespan of these structures is limited, but can be extended if they can be installed so they stay wet year round. In Bradford County, with the late summer dry out many of our streams experience, this can be a challenge. But it's possible that the deflectors will stabilize the bank long enough for vegetation to become established providing a permanent solution.

