

## **Species Protective Measures for Stream or Ditch Relocation Projects**

**The project design will ensure its stability and effectiveness post construction and falls within the following categories:**

1. Stream to be relocated is not a free-flowing channel (other than after rainfall or irrigation runoff) OR vegetation covers the entire width of the channel.
2. Relocated channel is of equal or larger capacity and length as the channel to be removed.
3. Location of new stream channel is through existing cleared (farmed) land.

**If the above does not apply to the proposed project, then contact the Arkansas ES Field Office at 501-513-4470 for further guidance.**

**If the above does apply to the proposed project, then the following are examples of measures that may be implemented to ensure effectiveness:**

1. Proposed relocation incorporates a new channel that precludes the likelihood of excessive bank erosion. Channels containing unnaturally sharp turns and/or high velocity flows may require targeted enhanced bank armoring to prevent channel migration that would lead to bank sloughing and excessive sediment deposition into the channel.
2. New channel incorporates vegetative buffers (herbaceous or woody) equivalent to or exceeding those present along the channel to be removed.