

Tree Evaluation

Complete for each tree that does not meet national standards and will not be removed

Rated Item	Rating	Rating Guidelines	Location/ Remarks/ Recommendations
1. Tree Species	A	Tree species that have stable roots systems that do not penetrate substantially into the embankment and are not susceptible to windthrow. i.e. Willow, Dogwood, Oak, Vine Maple, Hackberry and Redbud are examples. (See appendix A for a comprehensive list)	
	U	Tree species that have extensive roots systems that can penetrate substantially into the embankment and are susceptible to windthrow. i.e. Cottonwood, Ash, Cedar, Elm, Fir, Hawthorn, Locust, Pine, Walnut (see appendix A for a comprehensive list)	
	N/A		
2. Tree Health	A	The tree is in good condition. No evidence of rot, dead limbs or injury.	
	M	The tree has evidence of minor health decline. Some limbs in canopy are dead, broken, or rotten. The trunk has missing bark or rotten areas that have been exposed to insects and decay. Pitch running on the trunk indicating bug infestation.	
	U	The tree is in poor condition. Many limbs are dead, dying, or down. Sparcely poplulated crown. Rot is evident throughout. Tree is leaning and poses safety risk.	
3. Tree Location (on Slope)	A	Mid to lower slope or off of levee slope on riverward or landward side on a overbuilt levee section.	
	M	Mid to upper slope on riverward or landward side of a levee with a 2:1 slope.	
	U	On the crown of the levee or on the slope of an oversteepend levee section.	
4. Tree Location (on River)	A	Located on the inside curve of a slow moving river.	
	M	Located on a straight section of river on either bank.	
	U	Located on the outside curve of a fast moving river.	
5. Windthrow potential	A	Small canopy with little exposure to wind	
	M	Mid size canopy in a location that is semi-shelterd	
	U	Large canopy in a location that has high exposure to wind	

Key: A = Acceptable. M = Minimally Acceptable; Maintenance is required. U = Unacceptable. N/A = Not Applicable. FDR = Flood Damage Reduction

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6. Root Penetration		A	Roots do not significantly penetrate the levee embankment.	
		M	Root system has penetrated the levee prism significantly either from landward to waterward or waterward to landward.	
		U	Root system has penetrated most of the levee prism either from landward to waterward or waterward to landward. Seepage path distance has been reduced significantly.	
7. Slope Stability		A	Tree does not impart a large point load on slope and slope consists of material that can support additional loading.	
		M	Medium sized tree with significant point load and root ball in soils susceptible to rotational or sliding failure modes.	
		U	Large sized tree with significant point load and root ball in soils susceptible to rotational or sliding failure modes.	
8. Tree Size		A	4-10 inch diameter tree	
		M	10-12 diameter inch tree	
		U	Larger than 12 diameter inch tree	

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