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Table 1

Common Tree Species	Average Regrowth after trimming (feet) 4 year cycle
Ash	12
Linden	10
Box-Elder	24
American Elm	20
Black Locust	27
Silver Maple	22
Sugar Maple	14
Red Oak	10
Weeping Willow	24
Cottonwood	24

Table 2

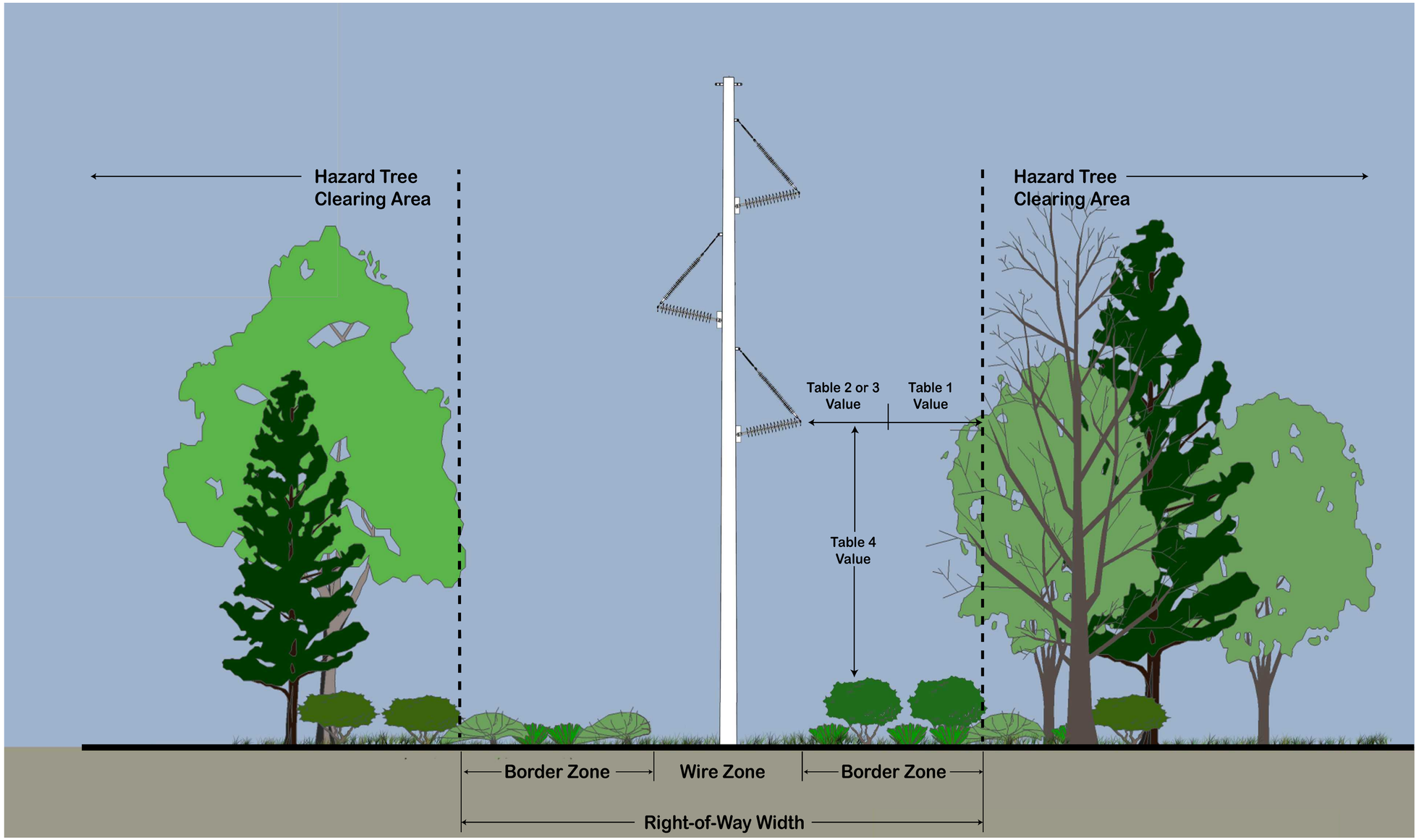
Voltage kV	Horizontal Maintained Tree Clearance at Structure	
	400' span	800' span
69	11 ft	11 ft
115	12 ft	12 ft
161	14 ft	14 ft
345	21 ft	21 ft

Table 3

Voltage kV	Horizontal Maintained Tree Clearance at Lowest Sag Point	
	400' span	800' span
69	11 ft	15 ft
115	12 ft	20 ft
161	14 ft	20 ft
345	21 ft	29 ft

Table 4

Voltage kV	Vertical Maintained Tree Clearance at Lowest Sag Point	
	400' span	800' span
69	14 ft	18 ft
115	16 ft	20 ft
161	17 ft	21 ft
345	23 ft	27 ft



Data Source(s): Xcel Energy (2010) and Westwood (2010).

Map Document: (P:\2009\075\gis\Site maps\20091075border.mxd)
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Figure 11

Xcel Energy

Typical Vegetation Management Schematic