



WYOMING PLANT MATERIALS TECH NOTE 8

Woody Species Spacing for Riparian Forest Buffer Establishment

Introduction: Plant Materials Technical Note #2 distributed recommend Planting Rates (trees/acre) for most of the adapted woody species to Wyoming. This technical note provides additional guidance on recommended linear Planting Rates (ft/tree).

Criteria: If we assume that the average planted width (Zone 1 + Zone 2) in a Riparian Forest Buffer is 35 feet, the Planting Rates from Tech Note #2 are easily converted to linear figures. The 35-foot width must be approximately 1,244 feet long to achieve 1 acre. Therefore, to calculate the linear planting rates, the trees/acre planting rates from Tech Note #2 are divided into the length. For example, if we want to plant 20 Narrowleaf Cottonwood per acre, we divide 1,244 feet by 20 for a spacing of approximately 1 tree every 62 feet.

Spacing by species for widths of 35, and 50 feet have been calculated in the table below.

Species	35 Foot Width Spacing (Feet per tree)	50 Foot Width Spacing (Feet per tree)
Aspen	41	29
Boxelder	83	58
Buffaloberry, Silver	9	5
Chokecherry	18	7
Cottonwood, Narrowleaf	62	43
Cottonwood, Plains	124	87
Green Ash	62	43
Hybrid Poplar	50	35
Hawthorne	18	13
Mountain Maple	62	44
Plum	5	3
Redosier Dogwood	10	7
Shrubby Cinquefoil	1	1
Silverberry	2	1
Snowberry	2	1
Water Birch	62	43
Wild Rose	2	1
Willow (trees forms)	50	35
Willow (shrub forms)	5	3

The information above is only intended as general guidance. The conservation planner should consider site-specific information when calculating planting rates.



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