

TEXAS TECHNICAL NOTE

PLANT MATERIALS TECHNICAL NOTE

February 2, 2006

CP 601 Update - Stem Diameter and Density

This technical note provides information to update Conservation Practice 601 - Vegetative Barrier - APPENDIX 3 Estimated Stem Diameters of Specific Species. This information was compiled from evaluating existing plant materials production fields at the Knox City Plant Materials Center

APPENDIX 3

Estimated Stem Diameter and Density of Specific Species

Species	Stem diameter (in)	Stems/ ft ² *1
Eastern gamagrass - upland	.12 - .20	468 - 756
Eastern gamagrass - lowland	.25 - .40	360 - 648
Switchgrass - upland	.05 - .20	432 - 864
Switchgrass - lowland	.15 - .38	180 - 360
Vetiver grass	.30 - .50	150 - 180
Arundo donax	.75 - 1.25	5 - 20
Kleingrass	.08 - .15	400 - 850
Lovegrass - weeping	.04 - .10	725 - 1200
Maxmillian sunflower	.25 - .50	12 - 15
Big bluestem	.10 - .30	65 - 380
Little bluestem	.05 - .12	120 - 680
Sand bluestem	.08 - .20	75 - 575
Sideoats grama	.04 - .10	200- 720
Giant sandreed	.12 - .25	108 - 150
Arizona cottontop	.04 - .08	180 - 250
Sand lovegrass	.04 - .12	850 - 1200
Green sprangletop	.08 - .16	575 - 650
Havard Panicum	.12 - .30	360 - 430
Indiangrass	.08 - .20	288 - 580
Alkali sacaton	.04 - .12	360 - 432
Old World Bluestem	.04 - .16	288 - 360
Purpletop	.06 - .25	324 - 468

*1 - Stems/ ft² are based on the average area (25%) a plant(s) will occupy within a foot square area.