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Cottonwood Recovers

From Deer Browsing

R. M. Krinard 1

Heavily browsed 1-year-old cottonwoods in a plantation near Greenville, Miss., grew rapidly in their second year, during which weeds were controlled and deer were excluded.

deltoides Bartr.) planted on good sites contributed to high mortality. along the Mississippi River must be protected from deer browsing during planting new cuttings, openings in of the newly planted cuttings. their first year or heavy mortality and the piled brush deer fence were short bushy plants will result. But patched, and weeds were controlled by with help, can recover from first-year where protection has broken down, cultivating. In two areas of the field, adversity. what are the growth prospects of the cottonwoods that had survived the standpoint, there appears to be no cottonwoods? protection from deer and without and weed control, we do not know. photographed. Observations in one plantation, contained 10 trees ranging in height been extremely heavy, of course, however, indicate that the plants can from 0.6 to 1.8 feet. Eight newly plowing under may be the most recover quickly under second-year planted cuttings were also tagged. In practical solution in a highly cultivation where deer are excluded.

with cottonwood cuttings in February 1970. The site was considered good 1972. for the species and, with planned weed control, trees at least 10 feet tall area survived that second growing were anticipated at the end of the first season. Their height growth in that growing season. For 2 weeks in May of season ranged from 3.0 to 10.1 feet, 1970, however, the lower portions of averaging 7.2 feet. Five of the eight the area were flooded and the ridges newly planted cuttings survived, and woods Laboratory, maintained at Stoneville, were inaccessible to cultivating equip- the heights of the trees they Miss., by the Southern Forest Exper ment. The fence of piled brush that produced averaged 6.4 feet. One 1- iment Station, USDA Forest Service, in concentration with the Microscopial Assistance of the concentration with the concentration with the Microscopial Assistance of the concentration with the concentrati was made to exclude deer was year-old tree in the second area Forestry Experiment Station and the breached in places. Heavy browsing

(Populus continued through the summer and

aluminum tags, The first

All 10 cottonwood trees in the first however, that both are necessary. died. Growth of the other 19 ranged Southern Hardwood Forest Research Group. from 6.8 to 13.4 feet and averaged 9.7 feet. Most terminals

were beyond the reach of deer. In general, growth of the 1-year-old In 1971, mortality was replaced by plants was somewhat better than that

Results indicate that cottonwoods, growth Without first year were marked with wire pins advantage to plowing under a and heavily browsed stand and replanting area it completely. Where mortality has the second area, 20 1year-old trees mechanized operation. In the plan-A 100-acre tract on Archer Island ranging from 2.8 to 6.6 feet tall were tation that was observed, it was not near Greenville, Miss., was planted similarly tagged. The trees were possible to separate the value of remeasured a year later in March weed control from that of protection from deer. Past experience has shown,

¹ Mensurationist at the Southern Hard-

operation with the Mississippi Agricultural and

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Figure 1.—Heavily browsted cottonwoods (top) recovered and grew rapidly during 1 year in which they were protected from deer (bottom).

