

Tables

Table 1: Effect of treatment on poplar survival rate (%) at each growing season (2013: first growing season; 2014: second growing season; 2015: third growing season; 2016: fourth growing season). Mean \pm SE, N = 75. Mean values that differed significantly at $P < 0.05$ are marked with different letters, a > b.

	Treatments	2013	2014	2015	2016
Topsoil	Whips	100 \pm 0 (a)	100 \pm 0 (a)	99 \pm 1 (a)	98 \pm 1 (a)
	Cuttings	100 \pm 0 (a)	100 \pm 0 (a)	95 \pm 3 (a)	95 \pm 2 (a)
	Bareroots	100 \pm 0 (a)	100 \pm 0 (a)	100 \pm 0 (a)	100 \pm 0 (a)
Mineral soil	Whips	100 \pm 0 (a)	100 \pm 0 (a)	100 \pm 0 (a)	100 \pm 0 (a)
	Cuttings	100 \pm 0 (a)	100 \pm 0 (a)	98 \pm 2 (a)	97 \pm 2 (a)
	Bareroots	100 \pm 0 (a)	100 \pm 0 (a)	95 \pm 4 (a)	95 \pm 4 (a)

Table2: Effect of treatments (Topsoil: whips, cuttings, and bareroots; Mineral soil: whips, cuttings, and bareroots) on hybrid poplar biomass, diameter, and maximum height after four growing seasons (2016). Mean \pm SE, N =18. Mean values within a column that differed significantly at P < 0.05 are marked with different letters, a > b. Ba = aboveground biomass; Bb = belowground biomass; Ba/Bb =above/belowground biomass.

	Planting material	Basal diameter (mm)	Diameter at breast height (mm)	B_a (g)	B_b (g)	B_a/B_b	B_a/total biomass	B_b/total biomass
Topsoil	Whips	53 \pm 21(a)	31 \pm 17(a)	2519 \pm 495 (a)	515 \pm 39(a)	4.89 \pm 1.2(a)	0.83 \pm 0.04(a)	0.17 \pm 0.02(a)
	Cuttings	78 \pm 5(a)	43 \pm 9(a)	1801 \pm 925(a)	379 \pm 65(a)	4.75 \pm 1.2 (a)	0.83 \pm 0.05(a)	0.17 \pm 0.01(a)
	Bareroots	50 \pm 15(a)	29 \pm 12(a)	1791 \pm 649(a)	544 \pm 38(a)	3.29 \pm 1.4(a)	0.77 \pm 0.04(a)	0.23 \pm 0.02(a)
Mineral soil	Whips	55 \pm 17(a)	30 \pm 9(a)	2227 \pm 865(a)	466 \pm 29 (a)	4.77 \pm 0.9(a)	0.83 \pm 0.2(a)	0.17 \pm 0.04(a)
	Cuttings	62 \pm 9(a)	44 \pm 4(a)	1870 \pm 312(a)	449 \pm 37 (a)	4.16 \pm 1.1(a)	0.81 \pm 0.03(a)	0.19 \pm 0.02(a)
	Bareroots	55 \pm 11(a)	31 \pm 8(a)	2672 \pm 442(a)	566 \pm 24 (a)	4.72 \pm 0.8(a)	0.83 \pm 0.02(a)	0.17 \pm 0.03(a)

Table3: Effect of treatments (Topsoil: whip, cutting, bareroot; Mineral soil: whip, cutting and bareroot) on architectural root (diameter > 4 mm) variables after four growing seasons (2016). N = 18. Mean values that differed significantly at P < 0.05 are marked with different letters, a > b.

	Planting material	Root number (lateral roots; diameter > 10 mm)	Mean root diameter (mm)	Maximum rooting depth (cm)	Number of sink roots (in depth)
Topsoil	Whips	4 ± 2 (a)	18 ± 7 (a)	40 ± 6 (a)	12 ± 4 (a)
	Cuttings	5 ± 1 (a)	21 ± 3 (a)	37 ± 14 (a)	9 ± 5 (a)
	Bareroots	5 ± 1 (a)	20 ± 5 (a)	43 ± 8 (a)	14 ± 1 (a)
Mineral soil	Whips	4 ± 1 (a)	19 ± 6 (a)	47 ± 10 (a)	12 ± 3 (a)
	Cuttings	4 ± 3 (a)	22 ± 2 (a)	38 ± 17 (a)	11 ± 7(a)
	Bareroots	5 ± 1 (a)	20 ± 2 (a)	36 ± 15 (a)	11 ± 4(a)