

Supplementary Materials: Potential for Hybrid Poplar Riparian Buffers to Provide Ecosystem Services in Three Watersheds with Contrasting Agricultural Land Use

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Table S1. Standing volume, relative abundance and green specific gravity of tree species of natural forests in the study area. The green specific gravity for «all species» is the weighted arithmetic mean which takes into account the relative abundance (by volume) of species or species group.

Region (Watershed)	Species or Species Group	Volume ¹ (m ³)	Abundance by vol. (%)	Green Specific Gravity ² (t/m ³)
Montréal (Pike River)	Balsam fir, white spruce, red spruce ³	1,973,260	4.0	0.35
	White pine	2,731,803	5.5	0.36
	White cedar, hemlock, tamarack ⁴	7,120,878	14.4	0.39
	Trembling aspen, Largetooth aspen	3,234,631	6.5	0.38
	Paper birch	700,023	1.4	0.48
	Yellow birch	1,735,838	3.5	0.55
	Red maple	15,236,828	30.8	0.49
	Sugar maple	8,542,174	17.3	0.56
	Other broadleaved spp. ⁵	8,236,003	16.6	0.55
	All species	49,511,438		0.48
	Estrie (Magog or Eaton River)	Balsam fir, white spruce, red spruce ³	18,411,321	27.2
White pine		1,072,749	1.6	0.36
White cedar, hemlock, tamarack ⁴		8,798,337	13.0	0.39
Trembling aspen, Largetooth aspen		4,847,945	7.2	0.38
Paper birch		2,074,917	3.1	0.48
Yellow birch		3,886,815	5.7	0.55
Red maple		12,077,404	17.9	0.49
Sugar maple		11,269,521	16.7	0.56
Other broadleaved spp. ⁵		5,212,767	7.7	0.55
All species		67,651,776		0.45

1. Volume data are from regional forest inventories [1,2]; 2. Green specific gravity values were obtained from the Wood Handbook [3].; 3. For this species group mean green specific gravity was calculated assuming a relative abundance of 66.6% for balsam fir, 16.6% for red spruce and 16.6% for white spruce; 4. For this species group mean green density was calculated assuming a relative abundance of 33.3% for each species; 5. For this species group mean green specific gravity was calculated assuming a relative abundance of 25% for each of the following species: red ash, white ash, beech and northern red oak, as they are the main species in this group (Luc Dumouchel, Agence forestière de la Montérégie, personal communication).

References

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2. Fédération des producteurs forestiers du Québec; WSP. *Détermination de la Possibilité de Récolte Forestière Régionale*; Agence forestière de la Montérégie: Cowansville, QC, Canada, 2015; p. 25.
3. Forest Products Laboratory. *Wood Handbook—Wood as an Engineering Material*; General Technical Report FPL-GTR-190; US Department of Agriculture, Forest Service, Forest Products Laboratory: Madison, WI, USA, 2010; p. 508.



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