

Value and Cost of Compost Across Likely Farm Use Scenarios in Western Washington

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Goal: compared cost reported by western Washington compost facilities with the potential value of compost in likely farm use scenarios for a number of different types of crops grown in western Washington

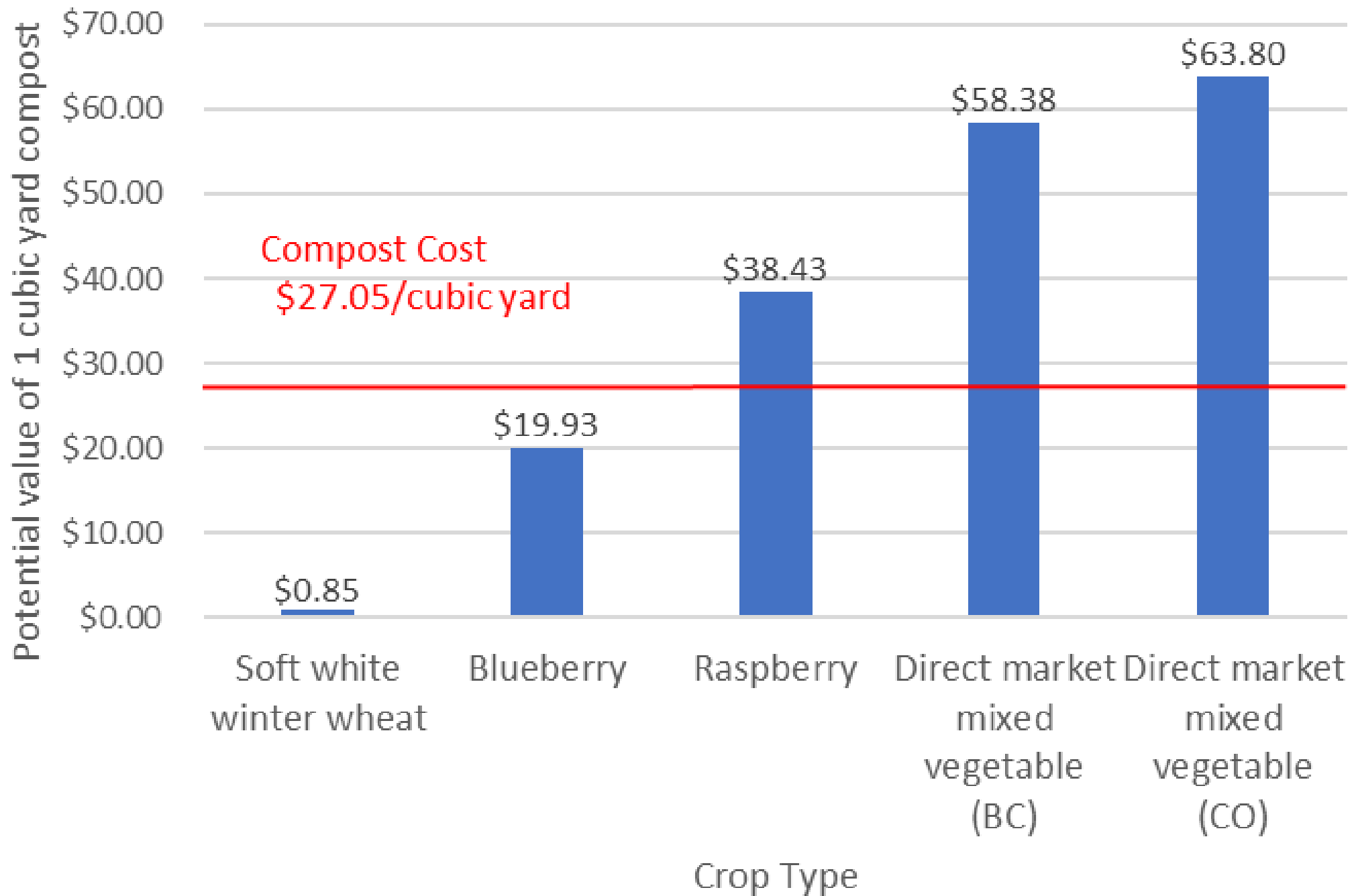
Compost Feedstock	C:N	N (%)	% Plant available N (first season)
Broiler litter	8-9	3.7-4.2	28 - 40
Dairy solids	19-27	1.9-2.0	-2 - 16
Yard trimmings	12-20	1.4-2.0	-10 - 19
Cedar grove compost results	15-18	2	No data

Cost of Compost

Value of Compost in Agriculture

- Agronomic factors
- Economic factors

	Crop	Application rate	Per acre net returns without compost	Assumed yield increase	Compost value (\$/yard)	Compost cost (\$/yard)
Low Value	winter wheat	20 dry tons/acre	\$644	+10%	\$0.85	\$27.05
High value	Blueberry	20 dry tons/acre	\$2,719	+10%	\$19.93	\$27.05
High value	Raspberry	7.5 dry tons/acre	\$3,913	+10%	\$38.43	\$27.05
High value	Direct market vegetable	20 dry tons/acre	\$12,549	+20%	\$63.80	\$27.05
High value	Direct market vegetable	20 dry tons/acre	\$16,144	+20%	\$58.38	\$27.05



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SOIL HEALTH INITIATIVE

The Washington State Soil Health Initiative (SHI) provides a win-win-win opportunity for farmers, the environment, and the people of Washington.

Hills, K., Brady, M., Yorgey, G., Collins, D. 2019. Differentiating the Value and Cost of Compost Across Likely Farm Use Scenarios in Western Washington. A technical report completed as part of the Waste to Fuels Technology Partnership. 17 pp.

<http://csanr.wsu.edu/program-areas/w2f/projects/2017-2019/>



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