



ONE12-156 – Integrating ground cover crops and new herbicide strategies (conventional and organic) for tree growth and soil health -- Part II.

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Economic impact of weed management in high density orchards.

Table 19. Comparison of the cost of the herbicide treatments used in this study.

Treatment	\$/apple acre
Untreated	lost production?
Surflan (4 qts/a) + 4P (paraquat)	\$ 15.20
Prowl H2O (4 qts/a) +4P	\$ 13.33
Surflan (3 qts/a) + Chateau (12 oz/a) + 3P	\$ 26.03
Prowl H2O (4 qts/a) + Chateau (12 oz/a) + 3P	\$ 26.65
Surflan (3 qts/a) + GoalTender (3 pt/a) + 3P	\$ 23.21
Prowl H2O (4 qts/a) + Goaltender (3 pt/a) + 3P	\$ 23.83
Matrix (4 oz/a) + 2P	\$ 15.70
Surflan (3 qts/a) + Matrix (4 oz/a) + 2P	\$ 23.16
Surflan (3 qts/a) + Matrix (4 oz/a) + GoalTender (3 pt/a) + 2P	\$ 33.66
Sinbar (8 oz/a) + 4P	\$ 11.98
Diuron 4L (1.6 pt/a) + simazine 4L (1 qt/a) + 3P	\$ 7.40
Prowl H2O (4 qts/a) + 3 glyphosate	\$ 14.46
Prowl H2O (4 qts/a) + Chateau (12 oz/a) + 3 glyphosate	\$ 27.77
Alion + 2P	\$ 29.37

Table 20. Accumulated Net Present Value Analysis (excluding land)

	Max Yield at maturity	Break Even year	15 year NPV	20 year NPV
Lamont unt	1210	15	2,366	9,829
Lamont best	1210	13	6,820	14,283
Mason unt	1000	29	(9,740)	(4,940)
Mason best	1000	22	(4,550)	250
Mason unt	1200	19	(3,171)	4,657
Mason best	1200	15	3,012	10,840