



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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Duration of Residual Herbicide Effect and Burndown Treatments Necessary

Tables 8 and 9 compare for each treatment the number of days after the residual treatments (DAT) were applied when post-emergence burndown herbicides were needed, and the number of post-emergence burndown herbicide applications necessary (#Post Apps). The average seasonal percent weed cover is reported as “Seasonal Avg % WC.”

Table 8. 2012 Lamont - irrigated

Materials:	DAT	# Post-Apps	Seasonal Avg. % WC
Untreated check	-	-	97 a
Prowl + paraquat (P), Rely	33	4	18 de
Surflan + P, Rely	33	4	15 def
Prowl + Chateau + P, Rely	37	3	21 cd
Surflan + Chateau + P, Rely	37	3	17 def
Prowl + GoalTender + P, Rely	61	3	8 f
Surflan + Goal Tender + P, Rely	61	4	11 ef
Prowl + glyphosate (G)*	71	2	14 def
Prowl + Chateau + G	37	3	14 def
Surflan + Matrix + P	49	4	20 de
Surflan + Matrix + Goaltender+ P	77	4	14 def
Sinbar + P, Rely	33	4	17 def
paraquat, Rely - Post	33	4	37 bc

Mason 2012 on next page.

Table 9. 2012 Mason – not irrigated

Materials:	DAT	# Post-Apps	Seasonal Avg. % WC
Untreated check			86 a
Prowl + paraquat (P)	44	2	19 d
Surflan + P	44	3	18 d
Prowl + Chateau + P	62	2	10 fg
Surflan + Chateau + P, Rely	46	2	7 ghi
Prowl + GoalTender + P	69	3	11 fg
Surflan + Goal Tender + P	69	2	10 fgh
Prowl + glyphosate (G)*	64	2	27 bc
Prowl+ Chateau + G	62	2	17 de
Matrix + P, Rely	44	1	16 de
Surflan + Matrix + P	44	2	17 de
Surflan + Matrix + Goaltender + P	105	1	5 hi
Alion + P, Rely	44	1	4 i
Sinbar + P	44	3	13 ef
diuron 4L + simazine 4L + P	64	2	30 b
paraquat, Rely - Post	44	2	31 b