

Cover Crops at Russell Ranch Preceding Tomatoes Transplanted on April 21, 2011

Dr. Karen Klonsky, Dept. of Ag. & Resource Economics, UCD

Klonsky@primal.ucdavis.edu

Oats/Vetch/Bell Beans

Date	Operation	Equipment	Labor Cost	Fuel Cost	Lube & Repairs	Materials Cost	Total Cost Per Acre
11/10/10	Plant cover crop	75 hp, Tye drill	3	1	2	43	48
4/5/11	Mow	85 hp, 8 ' flail PTO	3	1	3		7
4/9/11	Bed disc 8X	110 hp, 15' bed disc	21	20	12		53
4/9/11	Finish disc 2X	150 HP, 14' finish disc	5	7	8		21
4/10/11	List with GPS	110 HP, 15' Lister	2	2	1		5
4/10/11	Incorporate/mulch	150 HP, 15' Mulcher	4	5	3		12
TOTAL			38	35	29	43	145

Triticale – Trios Variety

Date	Operation	Equipment	Labor Cost	Fuel Cost	Lube & Repairs	Materials Cost	Total Cost Per Acre
11/10/10	Plant cover crop	75 hp, Tye drill	3	1	1	17	22
2/23/11	Spray kill (glysophate)	ATV, boom, tank	1	1	1	9	10
4/10/11	Cultivate	110 HP, 15' cultivator	4	4	3		10
4/10/11	Incorporate/mulch	150 HP, 15' Mulcher	4	5	3		12
TOTAL			12	9	7	26	54

Cover Crop Seeding Detail

	lbs/acre	\$/lb.	\$/acre	60% planted
Triticale	80	\$ 0.36	\$ 28.80	\$17.28
Oats/vetch/beans:				
Oats	125	\$ 0.28	\$ 35.00	
Vetch	20	\$ 0.55	\$ 11.00	
Bell beans	80	\$ 0.32	\$ 25.60	
Total Oats/Vetch/Beans			\$ 71.60	\$42.96

Fuel and Labor Use

	Triticale	Oats/Vetch/Bell Beans
Labor (hours per acre)	.74 hours	2.4 hours
Fuel (diesel gallons per acre)	3.5 gallons	13.5 gallons
Fuel (gasoline)	.1 gallons	