

Machine Pruning with Hand Follow-up vs. Hand Pruning

	User Entered	Calculated
Machine Pruning with Hand Follow-Up		
Price of Pruner	25,000.00	
Pruner Operation		
Total vineyard acres?	50	50
Row and Vine spacing?	vine sp. 8 row sp. 9	
Vines per acre.		605
Acres covered by machine pruner in one hour?	1	
Hours per day the pruner is operated?	8	
Acres covered in one day.		8.0
Cost of fuel (per gallon)?	1	
Gallons used per hour?	1	
Daily Fuel Cost		8.00
Hourly pay rate of machine pruner operator?	12	
Labor cost of machine pruning per day.		96.00
Benefit Rate (SS, WC, Health, Ret.)%	35	
Paid benefits of machine pruning per day.		33.60
Total Machine Pruning Labor per Day		129.60
Pruner Maintenance		
Maintenance hours per day?	1	
Hourly pay rate for machine maintenance?	12	
Labor cost for maintenance per day		12.00
Benefit Rate (SS, WC, Health, Ret.)%	35	
Paid benefits of maintenance per day.		4.20
Total Maintenance Labor per Day		16.20
Fuel, Pruning, Maintenance cost per day		153.80
Daily cost per acre		19.23
Estimated days to prune total acres		6.3
Estimated cost to prune total acres		961.25
Hand Follow-up (large pruning cuts, tying, suckering)		
Vines covered in one hour?	100	
Hours to cover one acre.		6.05
Hourly pay rate for hand follow-up?	12	
Labor cost per acre.		72.60
Benefit Rate (SS, WC, Health, Ret.)%	35	
Paid benefits per acre.		25.41
Total labor cost per acre.		98.01
Estimated cost to follow-up total acres.		4,900.50
Pruning with Hand Follow-Up		
Total pruning with hand follow-up cost per acre.		117.24
Total pruning with hand follow-up cost for total acres.		5,861.75
Hand Pruning		
Dollar rate per vine? (30 cents = 0.30 dollars)	0.3	
Labor cost per acre.		181.50
Benefit Rate (SS, WC, Health, Ret.)%	35	
Paid benefits per acre.		63.53
Pruning labor cost per acre.		245.03
Follow-up (tying and suckering)		
Vines covered in one hour?	300	
Hours to cover one acre.		2.02
Hourly follow-up rate.	8	
Labor cost per acre.		16.13
Benefit Rate (SS, WC, Health, Ret.)%	35	
Paid benefits per acre.		5.65
Follow-up labor cost per acre.		21.78
Total Cost per Acre		266.81
Total Cost to Hand Prune Vineyard		13,340.25
Savings per Year with Machine Pruning		7,478.50
Years to pay for pruner with	50 acres	3.34