Cost of Production Calculators: Vineyard and Winery

Presented by: Trent Ball

Vineyard & Winery Technology Program, Chair, YVC and Partner, **Agri-Business Consultants, LLC.**

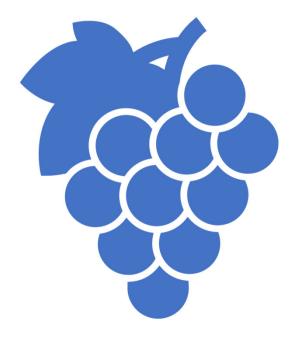
Updating the Cost of Production Calculators

- Grant funded by WSDA SCBG
- Proposal written by the WWIF
- Two-year project
 - Website re-design
 - Update to current costs/pricing



How do COP Calculators Help?

- Enable users to calculate their costs of production
- Make computing break even costs easy
- Allow users to compare their costs with industry averages
- Help users with financial records and business planning
- Valuable tool for users entering the industry or changing varietals
- Help growers with their presentations to bankers, lenders and investors



What is a Vineyard COP Calculator

An online budget form where users input fixed and variable costs to automatically calculate total operating costs.

- •Can use default industry average data or plug in actual costs
- •Both conventional and organic practices.

Calculators for grapes:

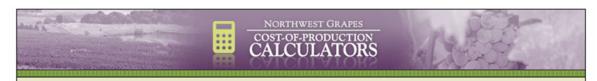
- •Wine Grapes year 1, year 2, year 3+
- •Juice Grapes year 1, year 2, year 3+
- •http://www.nwgrapecalculators.org



What's new in 2023/2024? -Vineyard COP

- Website interface updated
- Updated prices to 2023/2024 values
- Cultural practices reviewed and updated
 - Land preparation costs
 - Applications versus specific chemicals
- Revenue/Expense Summary
 - 10-year summary of revenue/expenses
- Spreadsheet download instead of web interface only

The current website



Welcome to the Northwest Grapes Cost-Of-Production Calculators,

the online resource for Washington, Oregon and Idaho wine and juice grape growers to automatically calculate the costs of producing grapes.

There are sixteen Calculators: Four Calculator types and four production years.

Each Calculator has all four production years on the form, so you can calculate all production years or calculate select production years.

Before You Begin

The Cost-Of-Production Calculators require you to enter your actual production costs into the numerical fields. If you do not know your actual costs, the calculators provide industry average figures as default costs.

Northwest Grapes Cost-Of-Production Calculators

Calculator Types

- Wine Grapes Conventional
- Wine Grapes Organic
- Juice Grapes Conventional
- Juice Grapes Organic

Production Years

- Year 1: Establishment
- Year 2
- Year 3
- Year 4+

For the most accurate results, it will be helpful to have your costs on-hand before you begin. View the <u>Production Cost Figures Needed</u>.

Please review the Calculator FAQ to answer questions about the Calculators.



A New Web Interface

- Users enter row and vine spacing. Form calculates plants/acre.
- Users enter their production costs or use default average ranges.
- The Calculator automatically calculates their Total Costs Per Acre.

Wine and
Juice Grapes
(Organic or
Conventional)



JUICE GRAPES

ORGANIC PRODUCTION

For those embracing organic methods in juice grape farming, our Organic Juice Grape Production Calculator is your go-to resource. Calculate the costs of organic inputs, labor, and certification to gain a comprehensive understanding of your operation. Make data-driven decisions for a more sustainable and profitable juice grape enterprise.

CLICK HERE



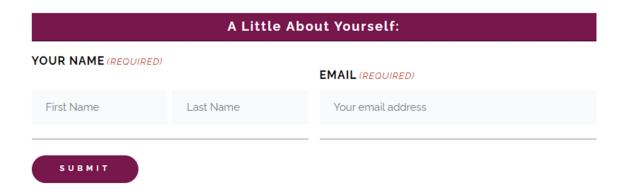
JUICE GRAPES

CONVENTIONAL PRODUCTION

Navigate the financial aspects of juice grape cultivation using our specialized calculator. This tool is engineered for grape growers focusing on conventional juice grape production, and includes variables like equipment, labor, and chemical inputs. Use this calculator to optimize your cost structure and maximize profitability.

CLICK HERE

From a Web Page to a Spreadsheet



CC

Washington, Oregon and Idaho Wine and Grape Growers

A Special Thank You! How To Reach Us Quick Links

Intro Questions

Α C Juice Grape COP Calculator 2 Answer the highlighted questions below prior to starting by replacing the default values provided. If 3 you don't know the figures, you may use the default values. 4 **Borrowed and Equity Vineyard Establishment Capital** Capital borrowed to establish the vineyard (%) 6 60% Enter the percentage of the total capital that will be borrowed for the vineyard establishment 7 Interest rate on borrowed capital 7% 8 Investment interest rate (opportunity cost) 7% 9 The interest expense for the lost opportunity that could have been earned if the equity capital (money) was used elsewhere 10 **Annual Operating Capital** 11 Number of months of borrowed capital (Operating) 6 12 Operating interest rate (%) 13 6% Amount of annual borrowed capital (%) 50% 14 Enter the percentage of annual operating capital that will be borrowed by the operation 15 16 Production Estimated yield in year 2 (tons) 0 17 5 Estimated yield in year 3 (tons) 18 Intro Questions Year 1 Year 2 Year 3 Summary Year 4+

Intro Questions

40	A	ВС		Е	F	G	Н	1	J			
49 50	Propane	gal	3									
51	Organic Nutrients/Applications Identify the applications expected per season below:											
52	Items	Units	Price(\$)/Unit		Year 1	Year 2	Year 3	Year 4+				
53	Fertilizer (product cost/application)	/ acre	175		1	1	1	1				
54	Pre-emergent Herbicides (product cost/application)	/ acre	50		1	1	1	1				
55	Post-emergent Herbicide	/ acre	30		1	2	2	2				
56	Fungicide (product cost/application)	/ acre	50		0	0	1	1				
57	Insecticide (product cost/application)	/ acre	8		0	0	1	1				
58	Cultivate	passes	n/a		3	3	3	3				
59	Foliar Nutrient (product cost/application)	/ acre	45		n/a	n/a	n/a	2				
60												
61	Trellis Materials:											
62	Items	Units	Price(\$)/Unit									
63	Wood stakes (markers)	each	0.0972									
64	Plastic ribbon	/ foot	0.01									
65	Staples 2"	/ lb	1.6									
66	#9 Wire soft	/ foot	0.08									
67	#11 Wire HT	/ foot	0.065									
68	#12.5 Wire HT	/ foot	0.05									
69	Crimping tool	each	100									
70	Wire clips	each	0.1									
	Intro Questions Year 1 Year 2	Year 3 Year 4+	Summary	+								

	А		В		С		D	E	Ē		F	
1	Year 1											
2	Default values are pre-entered into the fields, to enter your own costs, delete the default and replace with your cost.											
3	Site/Field Preparation											
4	Description	Labor	•	Machinery		Materials		Services		Total Cost		
5	Land Preparation (rip, plow, etc.)	\$	-	\$	-	\$	-	\$	-	\$	-	
6	Fumigation	\$	-	\$	-	\$	-	\$	-	\$	-	
7	Survey and mark	\$	75.85	\$	5.46	\$	2.33	\$	-	\$	83.65	
8	Other	\$	-	\$	-	\$	-	\$	-	\$	-	
9												
10	Install Irrigation System											
11	Description	Labor		Mach	inery	Materials		Services		Total Cost		
12	Solid set irrigation system	\$	-	\$	-	\$ 2,500.00				\$ 4,500.00		
13	Other	\$	-	\$	-	\$	-	\$	-	\$	-	
14												
15		Plant Vines										
16	Description	Labor		Mach	inery			Services		Total Cost		
17	Plant nursery stock	\$	61.50	\$	-		,382.00	\$	38.00		,481.50	
18	Other	\$	-	\$	-	\$	-	\$	-	\$	-	
19		Tes	III:a Cara									
20	Description	Labor	llis Syst	Mach	inoru	Matei	ials	Service:	^	Total	Cost	
22	Spread posts and anchors	\$	41.00	Ś	8.74		,136.00	\$	_		,185.74	
23	Install line posts	\$	369.00	\$	131.16	\$,130.00	\$		\$ 3	500.16	
24	Install end posts	\$	117.88	\$	51.92	\$	_	\$		\$	169.79	
25	Install anchors	\$	61.50	\$	24.59	\$	99.20	\$	_	\$	185.29	
	String wire	\$	133.25	Ś	-	Ś	314.60	\$	-		447.85	
	Intro Questions Year 1 Year		Year 3		r 4+	Summ		+		Ť		
	Teal	-	. car o			Janini						

Winery Cost of Production Calculator

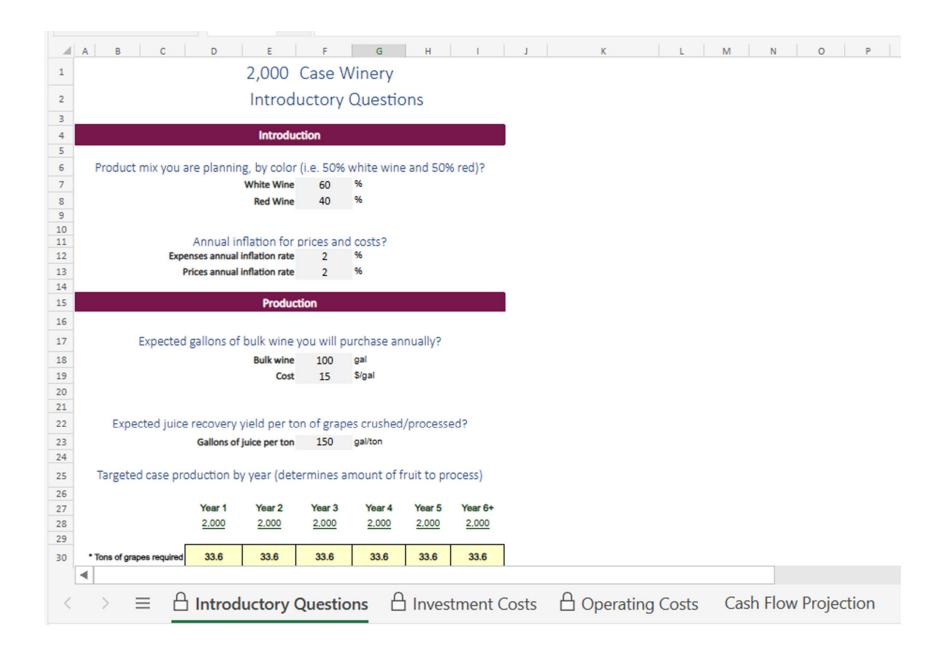
The Cost-Of-Production Calculators require your actual costs. In some instances, the calculator provides industry average figures as default costs, in case you don't know your actual costs. It is best that you have an idea of cost of production prior to using the calculator.

https://nwwinerycalculators.org/

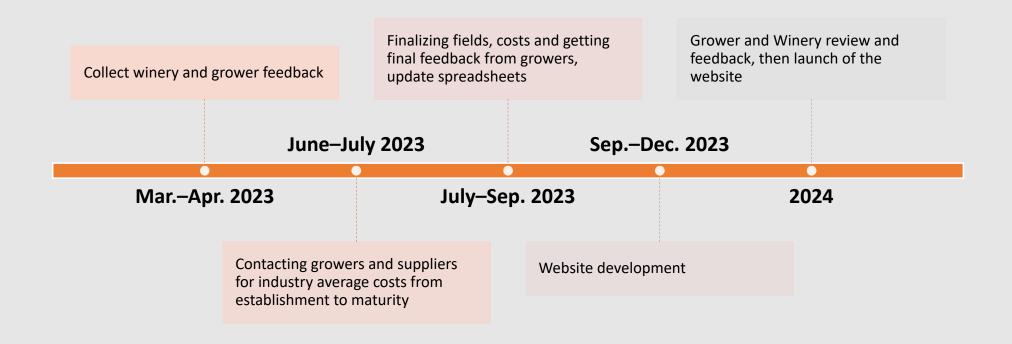
Let's Begin.

Winery Cost of Production Calculators

- What is new for 2023/2024
 - Website interface updated
 - Updated prices to 2023/2024 values
 - Machinery and equipment costs
 - Supplies and costs of goods
 - Case Production variation
 - 500, 1000, 2,000, 3,000, 5,000, 10,000
 - Revenue/Expense Summary
 - 10-year summary of revenue/expenses
 - Spreadsheet download instead of web interface only



COP Calculators Timeline



Next Steps

- We need your help
 - Sign up to review any/all of the calculators to provide feedback





Questions?

Trent Ball Vineyard & Winery Technology Program, Chair, YVC and Partner, Agri-Business Consultants, LLC.

tball@yvcc.edu