Analyzing Crop Profitability And Financial Metrics On Flower Farms: Whipstone Farm Results

Definitions and Background: Each of four flower farms spent the 2022 season in a facilitated cohort using the Know Your Cost To Grow program. After choosing two crops to study, they identified all of each crop's discrete direct variable labor activities, and then spent the season conducting time studies for each activity. At the end of the season, we were then able to calculate each crop's total direct variable costs, and ultimately its contribution margin, defined as the crop's returns to indirect costs and profit. Armed with this knowledge, a farm can then work towards the goal of increasing the overall combined contribution margin for all of its crops.

Overall Results: Both of Whipstone Farm's crops studied, sunflowers and dahlias, had positive contribution margins per marketable bunch. The results show that sunflowers outrank dahlias, measured by the space constraint, and dahlias outrank sunflowers, measured by the labor constraint. In essence, this means that if Whipstone was short on labor, they should prioritize sunflowers over dahlias, but if they were short on bed space, they should prioritize dahlias over sunflowers.

	Crop		Variable Cost Per Marketable	Margin Per	Contribution Margin Per Direct Labor	Contribution Margin Per Standard
Crop	Unit	Price	Unit	Unit	Hour	Unit of Space
Sunflowers	Stems	\$1.70	\$27	\$1.43	\$154.91	\$1,147.75
Dahlias	Bunches	\$12	\$4.02	\$7.98	\$121.89	\$2,394.80

Salient Costs: Transplants (tubers) were a major cost for the dahlia crop, and harvest labor loomed large for both sunflowers and dahlias. For this farm to increase their contribution margin on both crops, a great place to start would therefore be to study and seek further efficiency in the harvest process, as well as to investigate how they might spend less on tubers.



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Sunflowers

Cost Breakdown

Crop/Crop Unit Costs per Cost Category

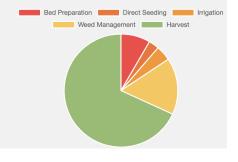


Labor Breakdown

Crop/Crop Unit Labor Hours per Labor Activity Category

Hint: If you unable to see the Labor Activity Hours in the chart below, resize this page to expand the chart.

~ Stem	✓ L Download
Labor Activity Category	Labor Activity Hou
Bed Preparation	0.62
Direct Seeding	0.22
Irrigation	0.32
Weed Management	1.20
Harvest	5.05
	Labor Activity Category Bed Preparation Direct Seeding Irrigation Weed Management



<u>Dahlias</u>

Cost Breakdown

Crop/Crop Unit Costs per Cost Category



Labor Breakdown

Crop/Crop Unit Labor Hours per Labor Activity Category

Hint: If you unable to see the Labor Activity Hours in the chart below, resize this page to expand the chart.

Dahlias	~ Bunch	✓ ▲ Download
Crop, Crop Unit	Labor Activity Category	Labor Activity Hou
Dahlias, Bunch	Bed Preparation	0.62
Dahlias, Bunch	Transplanting	1.03
Dahlias, Bunch	Irrigation	0.22
Dahlias, Bunch	Weed Management	1.20
Dahlias, Bunch	Plant Care	0.58
Dahlias, Bunch	Harvest	16.00

