

	BUDGET Revised 2021			
	Category	Description	Amount	Expenditures 2021
	Equipment, permanent fencing, perennial seeds and plants, or livestock (50%)	54" Ryobi Electric Mower Modified into a Ground Based Robotic Drone Platform with Electrostatic Sprayers	\$3,895	\$2274*
	Materials and supplies	Carbaryl 2.5 Gal. Bottle	\$421	\$421
	Materials and supplies	Assail 64oz Bottle	\$274	\$274
	Materials and supplies	Malathion 5EC 1 Gal.	\$164	\$164
	Personnel	Ground Based Drone Sprayer (Fabricator/Operator Wil Natzel, Field Manager)	\$1,650	
	Materials and supplies	Handout for Presentations	\$312	
	Other direct costs	FFA Students (55) & Horticulture Students (60) From Owatonna High School Agriculture Department, Wil Natzel, Field Manager. Jerry Natzel, Viticulturist	\$250	
	Personnel	Data Collection and Analysis of Results & Photo Documentation Jerry Natzel, Viticulturist	\$690	
	Personnel	Website Development Showing Results Along With Ground Based Robotic Drone Sprayer In Action in Vineyard , Jackie Natzel, Instructional Designer	\$915	
	Travel	Iowa Wine Growers Association Conference Presentation, Ankeny, Iowa / February 2022	\$335	
	Travel	Minnesota Society of Professional Engineers Presentation / April 2022	\$82	
	Total:		\$8,988	\$3,133
	* \$4548 x 50% = \$2274			
	BUDGET JUSTIFICATION			

Description	Details / Justification		
54" Ryobi Electric Mower Modified into a Ground Based Robotic Drone Platform with Electrostatic Sprayers	\$7790 x 50% = \$3895		
Carbaryl 2.5 Gal. Bottle	\$131.00 x 3 Bottle = \$393 S/H \$28 Total Cost = \$421		
Assail 64oz Bottle	\$260.00 X 1 Bottles = \$260.00 S/H \$14 Total Cost = \$274.00		
Malathion 5EC 1 Gal.	\$48.00 X 3 Bottles = \$144.00 S/H \$20 Total Cost = \$164.00		
Fabricator and Operator, Wil Natzel, Field Manager	\$15/HR @ 110 Hrs = \$1650		
Handout for Presentations FedEx Office 500 flyers \$290 + tax = \$312	Paper and Printing cost = \$312		
FFA Students (55) & Horticulture Students (60) From Owatonna High School Agriculture Department, Wil Natzel, Field Manager. Jerry Natzel, Viticulturist	Owatonna Bus Co. For Buses to Move Students to Vineyard for Demonstration \$250		
Data Collection and Analysis of Results & Photo Documentation Jerry Natzel, Viticulturist	\$15/HR @ 46 Hrs = \$690		
Website Development Showing Results Along With Ground Based Drone Sprayer In Action in Vineyard , Jackie Natzel, Instructional Designer	\$15/HR @ 61 Hrs = \$915		
Iowa Wine Growers Association Conference Presentation, Ankeny, Iowa / February 2022	Mileage = \$191 (350 miles round trip) Lodging for one night = \$144 Total Cost = \$335		
Minnesota Society of Professional Engineers Presentation / April 2022	Mileage = \$82 (150 miles round trip) Total Cost = \$82		