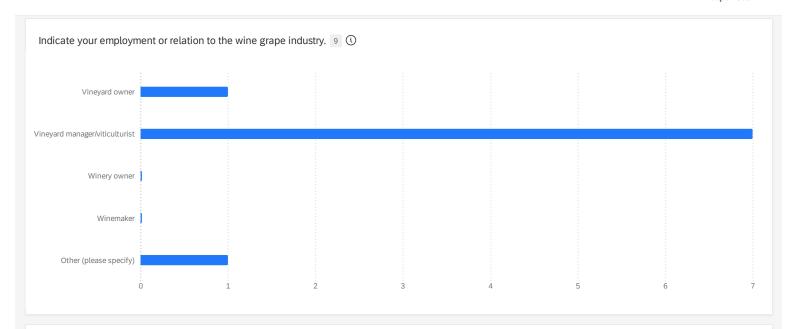
Responses: 11



Percentage	Count
11%	1
78%	7
0%	0
0%	0
11%	1
	11% 78% 0%

Indicate your employment or relation to the wine grape inde	ustry. 9 🛈			
Indicate your employment or relation to the wine grape industry.	Average	Minimum	Maximum	Count
Vineyard owner	1.00	1.00	1.00	1
Vineyard manager/viticulturist	2.00	2.00	2.00	7
Winery owner	-	-	-	0
Winemaker	-	-	-	0
Other (please specify)	5.00	5.00	5.00	1

And winery owner

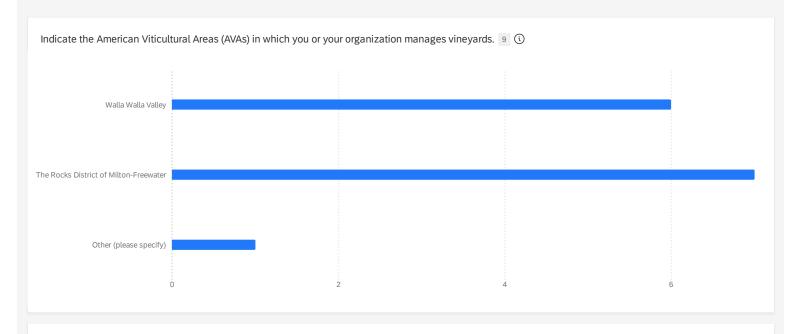
Milton Freewater, OR
Milton Freewater OR
Walla Walla, WA
Walla Walla, WA Milton Freewater, OR
Walla Walla, WA
The Rocks
Milton-Freewater, OR; Walla Walla, WA; The Dalles, OR; Mosier, OR
Milton Freewater OR



Please indicate the total vineyard acreage you or your organization manages. 9 (1)		
Q3 - Please indicate the total vineyard acreage you or your organization manages.	Percentage	Count
<5 acres	11%	1
5-10 acres	11%	1
11-20 acres	11%	1
21-50 acres	0%	0
51-100 acres	22%	2
101-200 acres	11%	1

Q3 - Please indicate the total vineyard acreage you or your organization manages.	Percentage	Count
>200 acres	33%	3

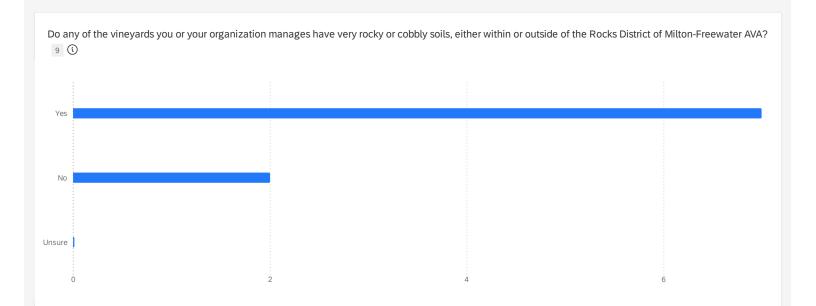
Please indicate the total vineyard acreage you or your organization manages	Average	Minimum	Maximum	Cour
slt;5 acres	1.00	1.00	1.00	
5-10 acres	2.00	2.00	2.00	
11-20 acres	3.00	3.00	3.00	
21-50 acres	-	-	-	
51-100 acres	5.00	5.00	5.00	
101-200 acres	6.00	6.00	6.00	
>200 acres	7.00	7.00	7.00	



Indicate the American Viticultural Areas (AVAs) in which you or your organization mana	ges vineyards. 9 🛈	
Q4 - Indicate the American Viticultural Areas (AVAs) in which you or your organization manages vineyards Selected Choice	Percentage	Count
Walla Walla Valley	67%	6
The Rocks District of Milton-Freewater	78%	7
Other (please specify)	11%	1

Indicate the American Viticultural Areas (AVAs) in which you or your organization manages vineyards.: Other (please specify) 🛈

Gorge



Do any of the vineyards you or your organization manages have very rocky or cobbly soils, either within or outside of the Rocks District of Milton-Freewater AVA?

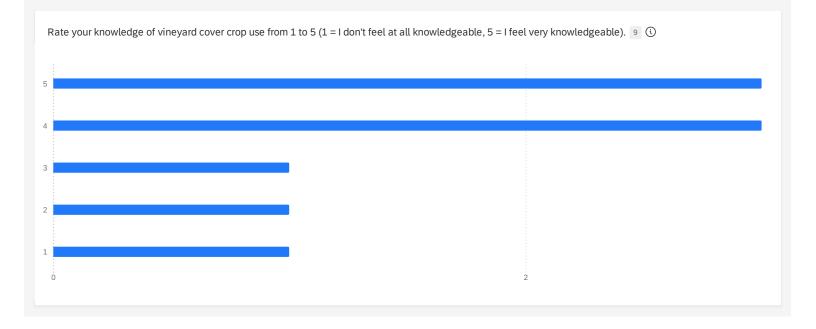
QS - Do any of the vineyards you or your organization manages have very rocky or cobbly soils, either within or outside of the Rocks District of Milton-Freewater AVA?

Yes

78%
7

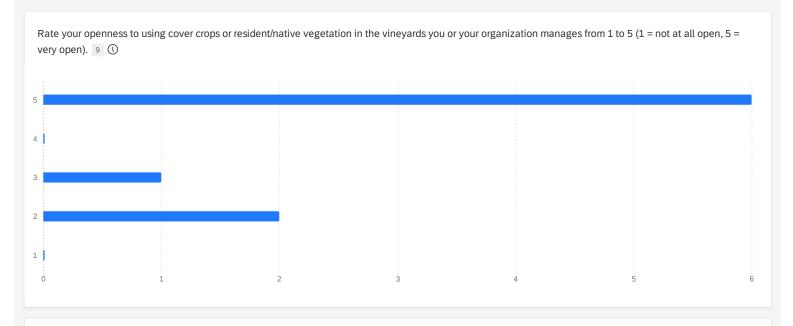
No
22%
2
Unsure
0%
0%
0

(1)				
oo any of the vineyards you or your organization manages have very rocky or	Average	Minimum	Maximum	Cour
'es	1.00	1.00	1.00	
lo	2.00	2.00	2.00	
Jnsure	_	_	_	



Rate your knowledge of vineyard cover crop use from 1 to 5 (1 = I don't feel at all knowledgeable, 5 = I feel very knowledgeable).			
is - Rate your knowledge of vineyard cover crop use from 1 to 5 (1 = 1 don't feel at knowledgeable, $5 = 1$ feel very knowledgeable).	Percentage	Cou	
	33%		
	33%		
	11%		
	11%		
	11%		

Rate your knowledge of vineyard cover crop use from 1 to 5 (1 = I don't fee	Average	Minimum	Maximum	Cou
5	1.00	1.00	1.00	
1	2.00	2.00	2.00	
3	3.00	3.00	3.00	
2	4.00	4.00	4.00	
	5.00	5.00	5.00	

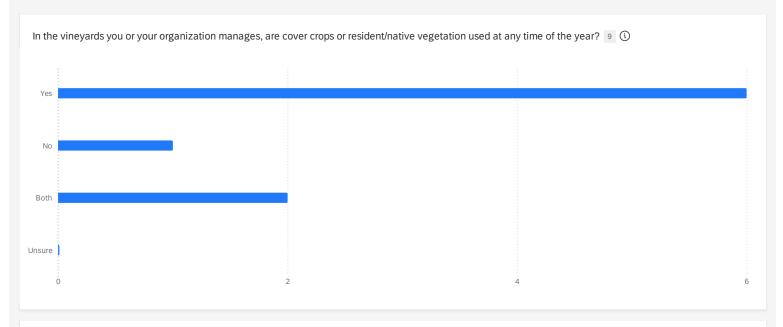


Rate your openness to using cover crops or resident/native vegetation in the vineyards you very open). 9 ①	u or your organization manages from 1 to 5 (1 = no	ot at all open, 5 =
Q7 - Rate your openness to using cover crops or resident/native vegetation in the vineyards you or your organization manages from 1 to 5 (1 = not at all open, 5 = very open).	Percentage	Count
5	67%	6
4	0%	0

Percentage	Count
11%	1
22%	2
0%	0
	11% 22%

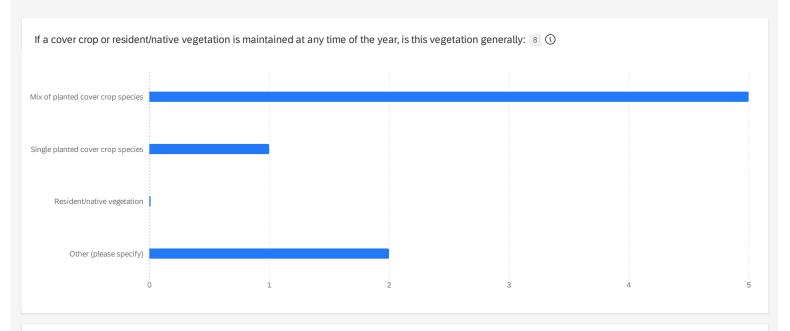
Rate your openness to using cover crops or resident/native vegetation in the vineyards you or your organization manages from 1 to 5 (1 = not at all open, 5 = very open).

Rate your openness to using cover crops or resident/native vegetation in th	Average	Minimum	Maximum	Count
5	1.00	1.00	1.00	6
4	-	-	-	0
3	3.00	3.00	3.00	1
2	4.00	4.00	4.00	2
1	-	-	-	0



Percentage	
	Count
67%	6
11%	1
22%	2
0%	0
	11%

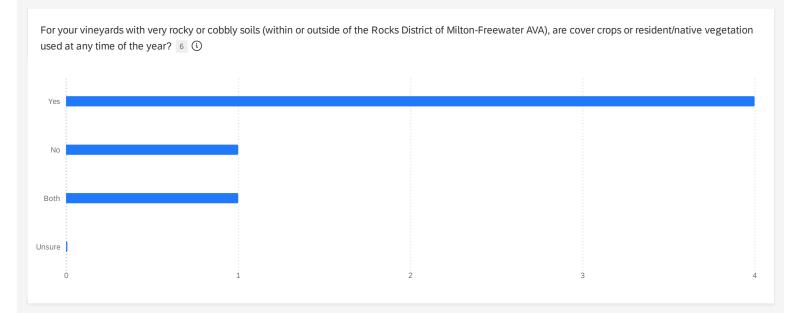
In the vineyards you or your organization manages, are cover crops or resident/native vegetation used at any time of the year? 9 ①				
Average	Minimum	Maximum	Count	
1.00	1.00	1.00	6	
2.00	2.00	2.00	1	
3.00	3.00	3.00	2	
-	-	-	0	
	1.00 2.00 3.00	Average Minimum  1.00 1.00  2.00 2.00  3.00 3.00	Average         Minimum         Maximum           1.00         1.00         1.00           2.00         2.00         2.00           3.00         3.00         3.00	



If a cover crop or resident/native vegetation is maintained at any time of the year, is this vegetation generally: 8 ①				
Q9 - If a cover crop or resident/native vegetation is maintained at any time of the year, is this vegetation generally: - Selected Choice	Percentage	Count		
Mix of planted cover crop species	63%	5		
Single planted cover crop species	13%	1		
Resident/native vegetation	0%	0		
Other (please specify)	25%	2		

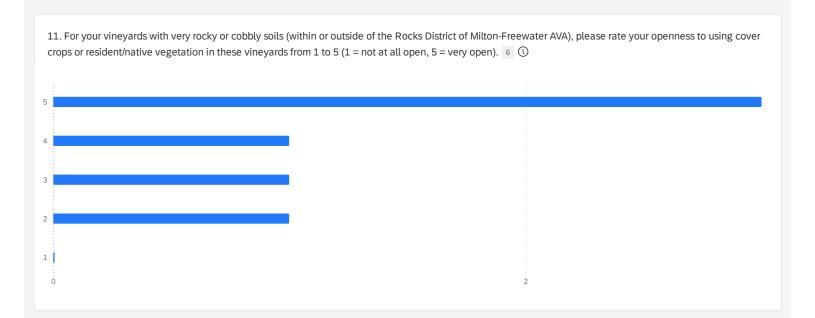
If a cover crop or resident/native vegetation is maintained at any time of the year, is this vegetation generally: 8 ①				
Average	Minimum	Maximum	Count	
1.00	1.00	1.00	5	
2.00	2.00	2.00	1	
-	-	-	0	
4.00	4.00	4.00	2	
	1.00 2.00	Average Minimum  1.00 1.00  2.00 2.00	Average Minimum Maximum  1.00 1.00 1.00  2.00 2.00 2.00	

If a cover crop or resident/native vegetation is maintained at any time of the year, is this vegetation generally:: Other (please specify) ①
weeds
all of the above



For your vineyards with very rocky or cobbly soils (within or outside of the Rocks District of Milton-Freewater AVA), are cover crops or resident/native vegetation used at any time of the year? 6 ①				
Q10 - For your vineyards with very rocky or cobbly soils (within or outside of the Rocks District of Milton-Freewater AVA), are cover crops or resident/native vegetation used at any time of the year?	Percentage	Count		
Yes	67%	4		
No	17%	1		
Both	17%	1		
Unsure	0%	0		

For your vineyards with very rocky or cobbly used at any time of the year? 6 (1)	soils (within or outside of the Roc	ks District of Milton-Freewater AVA)	, are cover crops or resident/nativ	ve vegetation
For your vineyards with very rocky or cobbly soils (within or outside of th	Average	Minimum	Maximum	Count
Yes	1.00	1.00	1.00	4
No	2.00	2.00	2.00	1
Both	3.00	3.00	3.00	1
Unsure	-	-	-	0

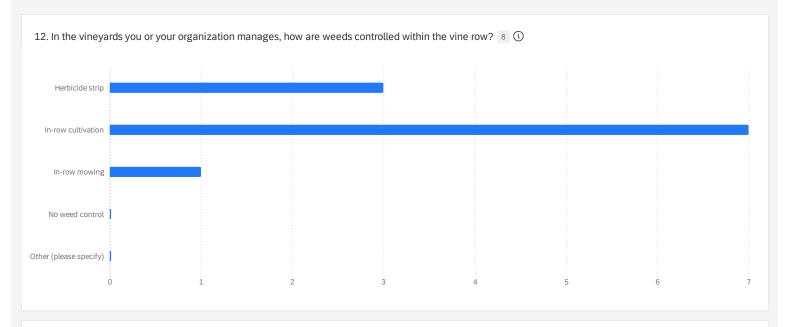


11. For your vineyards with very rocky or cobbly soils (within or outside of the Rocks District of Milton-Freewater AVA), please rate your openness to using cover crops or resident/native vegetation in these vineyards from 1 to 5 (1 = not at all open, 5 = very open).				
Q11 - 11. For your vineyards with very rocky or cobbly soils (within or outside of the Rocks District of Milton-Freewater AVA), please rate your openness to using cover crops or resident/native vegetation in these vineyards from 1 to 5 (1 = not at all open, 5 = very open).	Percentage	Count		
5	50%	3		
4	17%	1		
3	17%	1		
2	17%	1		
1	0%	0		

11. For your vineyards with very rocky or cobbly soils (w crops or resident/native vegetation in these vineyards fr			se rate your openness to using	; cover
11. For your vineyards with very rocky or cobbly soils (within or outside o	Average	Minimum	Maximum	Count

5 1.00 1.00 1.00	5	1.00	1.00	1.00	3

11. For your vineyards with very rocky or cobbly soils (within or outside o	Average	Minimum	Maximum	Count
4	2.00	2.00	2.00	1
3	3.00	3.00	3.00	1
2	4.00	4.00	4.00	1
1	-	-	-	0



12. In the vineyards you or your organization manages, how are weeds controlled within the vine row? 8 ①		
Q12 - 12. In the vineyards you or your organization manages, how are weeds controlled within the vine row? - Selected Choice	Percentage	Count
Herbicide strip	38%	3
In-row cultivation	88%	7
In-row mowing	13%	1
No weed control	0%	0
Other (please specify)	0%	0

2. In the vineyards you or your o	rganization manages, how are weeds contr	olled within the vine row?: Other (please specify	) (1)
	No data found - your	filters may be too exclusive!	
		n vine rows (i.e., alleyway) maintained at any tin	ne of the year, whether planted
ver crops or resident/native veg	getation? 8 (i)		
/es			
No			
oth			
ure			
0	2	4	
3. In the vinevards you or your o	rganization manages, is vegetation betwee	n vine rows (i.e., alleyway) maintained at any tin	ne of the year, whether planted
over crops or resident/native veg			io or and your, minorino prantou
Q13 - 13. In the vineyards you or your o	rganization manages, is vegetation tained at any time of the year, whether	Percentage	Cour
planted cover crops or resident/native v		Percentage	Cour
Yes		75%	
da.		1207	
No		13%	
Both		13%	
Jnsure		0%	
		n vine rows (i.e., alleyway) maintained at any tin	ne of the year, whether planted
over crops or resident/native veg			
<ol> <li>In the vineyards you or your organize</li> <li>manages, is vegetation betwee</li> </ol>	ation Average	Minimum	Maximum Cour

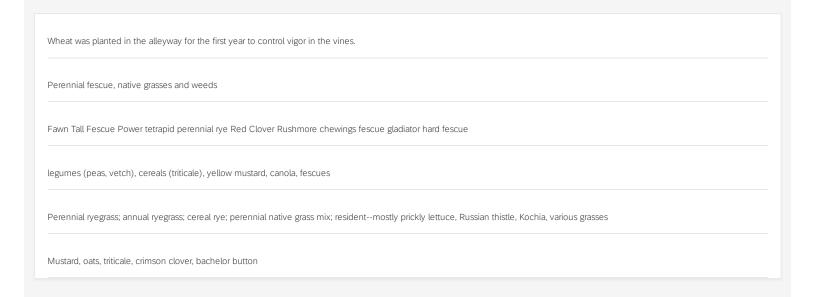
1.00

Yes

1.00

1.00

13. In the vineyards you or your organization manages, is vegetation betwee	Average	Minimum	Maximum	Count
No	2.00	2.00	2.00	1
Both	3.00	3.00	3.00	1
Unsure	-	-	-	0

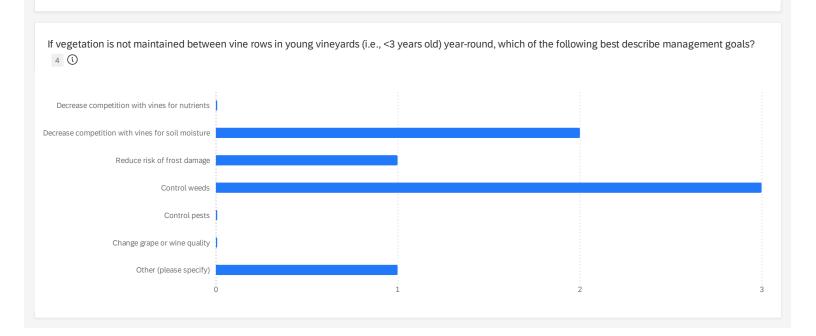




Which practices best describe how between vine row vegetation is managed in young	vineyards (i.e., <3 years old)? 7 ①	
Q15 - Which practices best describe how between vine row vegetation is managed in young vineyards (i.e., <3 years old)? - Selected Choice	Percentage	Count
Vegetation is left undisturbed (no tillage, mowing, or herbicide)	0%	0
No cover year-round (tilled or herbicide)	29%	2

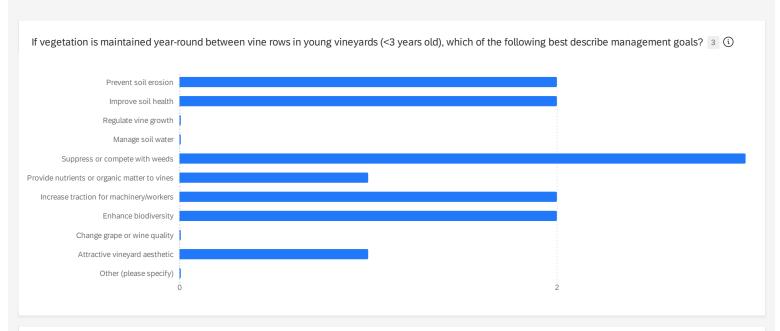
Q15 - Which practices best describe how between vine row vegetation is managed in young vineyards (i.e., <3 years old)? - Selected Choice	Percentage	Count
Winter cover crop that is tilled in spring and cultivated during growing season	29%	2
Perennial cover crop that is mowed during the season	29%	2
Resident/native vegetation that is tilled in spring and cultivated during growing season	0%	0
Resident/native vegetation that is mowed during the growing season	29%	2
Other (please specify)	0%	0

Which practices best describe how between vine row vegetation is managed in young vineyards (i.e., <3 years old)?: Other (please specify) 🛈



If vegetation is not maintained between vine rows in young vineyards (i.e., <3 years of a square of the square of	ld) year-round, which of the following best describe man	agement goals?
Q16 - If vegetation is not maintained between vine rows in young vineyards (i.e., <3 years old) year-round, which of the following best describe management goals? - Selected Choice	Percentage	Count
Decrease competition with vines for nutrients	0%	0
Decrease competition with vines for soil moisture	50%	2
Reduce risk of frost damage	25%	1
Control weeds	75%	3
Control pests	0%	0
Change grape or wine quality	0%	0
Other (please specify)	25%	1

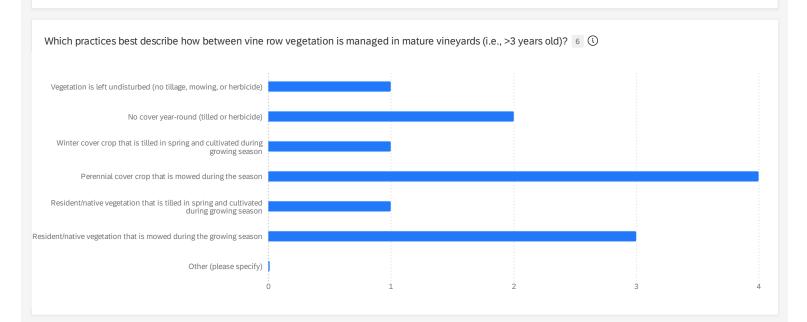
less PM pressure



117 - If vegetation is maintained year-round between vine rows in young ineyards (<3 years old), which of the following best describe management oals? - Selected Choice	Percentage	Coun
revent soil erosion	67%	
mprove soil health	67%	
tegulate vine growth	0%	
Manage soil water	0%	
suppress or compete with weeds	100%	

Q17 - If vegetation is maintained year-round between vine rows in young vineyards (<3 years old), which of the following best describe management goals? - Selected Choice	Percentage	Count
Provide nutrients or organic matter to vines	33%	1
Increase traction for machinery/workers	67%	2
Enhance biodiversity	67%	2
Change grape or wine quality	0%	0
Attractive vineyard aesthetic	33%	1
Other (please specify)	0%	0

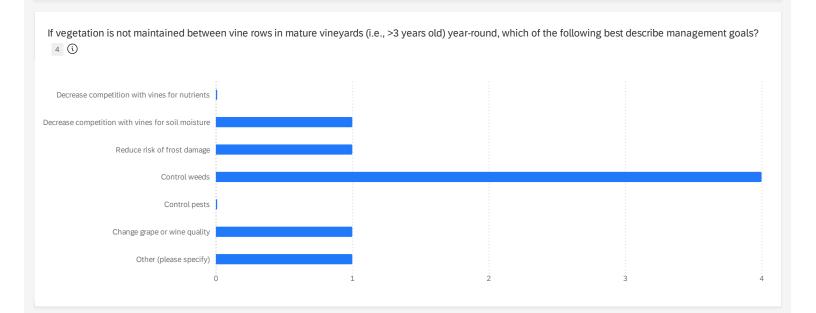
If vegetation is maintained year-round between vine rows in young vineyards (<3 years old), which of the following best describe management goals?: Other (please specify) ③



Which practices best describe how between vine row vegetation is managed in mature vine	eyards (i.e., >3 years old)? 6 🛈	
Q18 - Which practices best describe how between vine row vegetation is managed in mature vineyards (i.e., >3 years old)? - Selected Choice	Percentage	Count
Vegetation is left undisturbed (no tillage, mowing, or herbicide)	17%	1

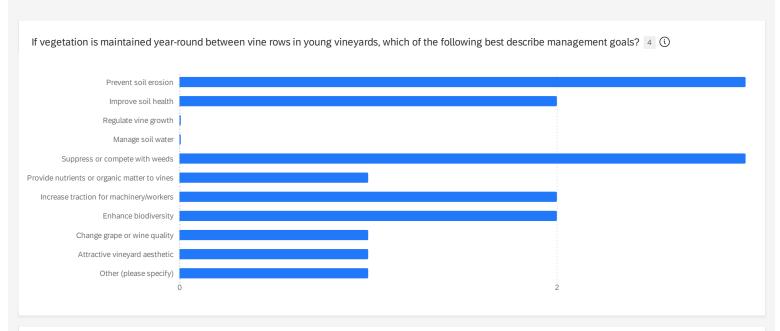
Q18 - Which practices best describe how between vine row vegetation is managed in mature vineyards (i.e., >3 years old)? - Selected Choice	Percentage	Count
No cover year-round (tilled or herbicide)	33%	2
Winter cover crop that is tilled in spring and cultivated during growing season	17%	1
Perennial cover crop that is mowed during the season	67%	4
Resident/native vegetation that is tilled in spring and cultivated during growing season	17%	1
Resident/native vegetation that is mowed during the growing season	50%	3
Other (please specify)	0%	0

Which practices best describe how between vine row vegetation is managed in mature vineyards (i.e., >3 years old)?: Other (please specify) ①



pest describe management goals?
Count
0
1
1
4
0
1
1

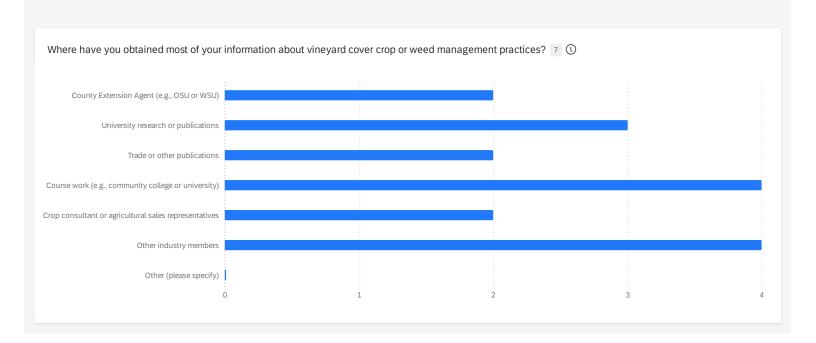
Less PM pressure



n of the following best describe management goals? 4	(i)
Percentage	Count
75%	3
50%	2
0%	0
0%	0
75%	3
	75% 50% 0%

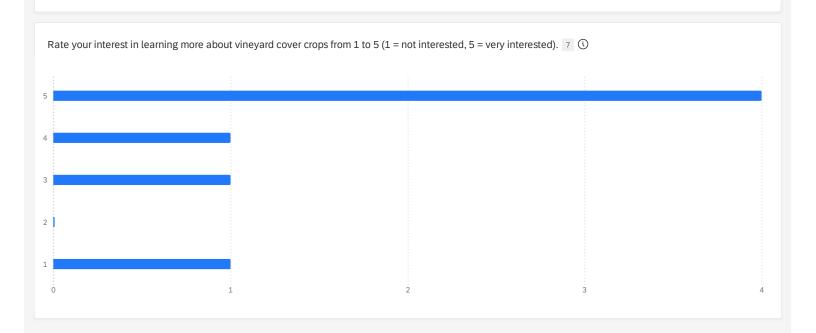
Q22 - If vegetation is maintained year-round between vine rows in young vineyards, which of the following best describe management goals? - Selected Choice	Percentage	Count
Provide nutrients or organic matter to vines	25%	1
Increase traction for machinery/workers	50%	2
Enhance biodiversity	50%	2
Change grape or wine quality	25%	1
Attractive vineyard aesthetic	25%	1
Other (please specify)	25%	1

mitigate heat



Where have you obtained most of your information about vineyard cover crop or weed manage	ement practices? 7 (i)	
Q21 - Where have you obtained most of your information about vineyard cover crop or weed management practices? - Selected Choice	Percentage	Count
County Extension Agent (e.g., OSU or WSU)	29%	2
University research or publications	43%	3
Trade or other publications	29%	2
Course work (e.g., community college or university)	57%	4
Crop consultant or agricultural sales representatives	29%	2
Other industry members	57%	4
Other (please specify)	0%	0





22 - Rate your interest in learning more about vineyard cover crops om 1 to 5 (1 = not interested, 5 = very interested).	Percentage	Cou
	57%	
	14%	
	14%	
	0%	
	14%	

tate your interest in learning more bout vineyard cover crops from 1 to	Average	Minimum	Maximum	Coun
;	1.00	1.00	1.00	
	2.00	2.00	2.00	
	3.00	3.00	3.00	
	-	-	-	
	5.00	5.00	5.00	

I am interested in cutting back on the number of cultivation passes through the vineyard, also a low-lying non-competitive undervine cover crop would be ideal. I am not sure if I can get my boss on board with having a cover crop though, due to the fact that the "Rocks" are his claim to fame. Worth a shot though!

We just need more information on suitable cover crops for alleyway management pre-plant, young vineyards, and mature vineyards. I feel as though we are groping around for what works in our climate