## Southern New England Wine Grape Management Survey - 2008

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1 10	VOII	$\sigma r \alpha w$	WINE	grapes	tor	cal	6	1
$\boldsymbol{\nu}$	you	SIUW	WILL	grapes	101	Sui		٠

- 1. Yes \_ \_ Please continue below.
- 2. No \_ \_ If no, please take a moment now to return the blank survey in the enclosed envelope in order to avoid getting follow-up mailings from us--thank you!

This study will help Extension programs throughout southern New England to better understand how you grow and manage your wine grapes and how this may have changed over the past few years. We will use this information to evaluate the past 4 years of a Northeast Sustainable Agriculture Research and Education (NESARE) grant and to plan our future research and Extension activities based on your needs. All survey replies will remain strictly confidential and results will be reported only in summary format.

The survey should be completed by the person most responsible for grape management decisions on your farm. Please enclose a separate sheet with additional comments, and you should also feel free to comment in the margins. Thank you very much for your help.

Sincerely,							
William M. Coli, Ph.D. Survey Coordinator							
(c/o Dr. Bill Coli, Ent. Dept., Rm. 211, Ag. Eng. Bldg., UMass, Amherst, MA 01003) For questions, please call Bill Coli at 413-545-1051.							
Please <b>check</b> next to the number(s) of your response(s), <b>fill in</b> the blanks or <b>circle</b> selections when indicated.							
A. GENERAL							
1.) How many acres of wine grapes are now planted on your farm?							
2.) How many acres were planted in 2003?							
3.) When you are fully planted, how many acres of grapes do you plan to have?							
4.) What other crops do you grow? (please list all)							
5.) How would you describe your wine grape production practices (circle the one that best applies)							
Conventional Organic IPM Other (please specify)							

PLEASE GO ON TO THE NEXT PAGE

6.) How long have you been growing wine grapes commercially? years.
7.) Do you produce wine or sell the wine grapes to others?Produce wineSell grapes
8.) Do you own, lease, or manage the vineyard? Own Lease Manage
<b>B. PRE-PLANT PRACTICES AND CONSIDERATIONS:</b> (If you have not planted new vines within the past 5 years please skip this section and move on to Section C.)
1.) Was suitability of your site for grape production thoroughly evaluated prior to establishing grapes at initial startup? (Please check one) Yes No
2.) Was site suitability for grape production thoroughly evaluated for any subsequent plantings? (Please check one) Yes No
3.) Were remedial steps such as tiling, liming, removing air drainage barriers, etc. taken as needed either initially or since then ? (Please check one) Yes No
4.) Are cover crops plowed down on land to be planted for one year prior to establishing grapes ? (Please check one) Yes No
5.) Was nematode sampling conducted before establishing grapes ? (Please check one) Yes No
6.) Were certified disease-free, virus-indexed plants and rootstocks used ? (Please check one) Yes No
7.) Were disease resistant cultivars selected for planting (Please check one)? Yes No
8.) Do you fumigate the soil before planting (check one)? Always Sometimes Never
C. CULTURAL PRACTICES AND SOIL/FERTILITY MANAGEMENT:
1.) How often do you use leaf petiole analysis to determine vine nutritional needs? (Please check one) Every YearSome YearsNever
2.) How often do you use a soil test for pH and nutrients? (Please check one) Every YearSome YearsNever
3.) Are fertilizer applications based on soil tests ? (Please check one)YesNo
4. Are fertilizer applications based on petiole analysis? (Please check one)YesNo
5.) How are prunings handled? (Please check all that apply)  flail-mowed/chopped incorporated into the soil removed from the vineyard Other (Please specify)
6.) Is a green cover maintained in row middles either as a perennial cover or an annually re-seeded cover (If a green cover IS NOT maintained in row middles, please go on to question 9.) Yes No

7.) If a green cover is maintained in row middles, what is the composition of this cover? (Please specify)

9.) If a green cover is NOT main fall/winter cover crop planted Every Year Some	d to reduce	e erosion			
10.) If a fall/winter cover crop is	planted, v	vhat cove	r crops do you plant ()	Please specify)?	_
11.) Do you use a subsoiler every Yes No	y 3-5 years	to break	up hard pans and imp	prove soil drainage?	•
12.) What type of irrigation syste	em is used	in the vin	eyard?		
Trickle irrigation					
Overhead sprinkler in	rigation				
No irrigation is used					
13.) How important are the ALI	L of the inf	ormation	sources below when d	leciding how much	fertilizer to
apply to bearing beds?				ant is this information	<del></del>
			Very Impt.	Somewhat Impt	Not Impt.
13.1 Soil test					
13.2 Leaf tissue analysis	s a a	1			
13.3 Recommendations o			1' 4		
13.4 Recommendations of				<del></del>	
13.5 Recommendation of 13.6 Recommendation of					
13.7 My own past experie		IIICI			
13.8 Other (please specify					
13.6 Other (piease speen)	/)·				
14.) How do you manage weeds	under vou	r trellis?	(Check all that apply)		
Herbicide Strip	•				
Organic Mulch	Cultiv	ation	•		
Plastic Mulch	Other	(please sp	ecify)		_
15.) IF YOU USE HERBICIDE S	STRIPS ur	ider the t	rellis, how wide in tota	al is the strip?	_ Feet
16) IE VOULIEE ODGANIC MI	III (CII	lan 4ha 4m	allia uubat mataniala d	(Dlagge li	:a4 all)
16.) IF YOU USE ORGANIC M	ULCH und	ier the tr	eilis, wnat materiais d	o you use? (Please ii	ist aii)
					<del></del>
17.) IF YOU USE LIVE COVER	S under th	ne trellis.	what plants predomin	ate? (Please list all)	
,		,		,	
18.) Which of the following mate	rials do yo	u use to r	naintain soil fertility a	nd pH in the vineya	ards? (Please
check all that apply.)					
Composts		No	Pomace		No
Manure		No	<b>Ground limestone</b>	Yes	No
Synthetic fertilizers	Yes	No	Rock dust		No
		No	Gypsum	Yes	No
Other (Please specify)	Yes	No			

PLEASE GO ON TO THE NEXT PAGE

**D. GENERAL PEST MANAGEMENT:** The following questions ask for information current pest management practices, decision making, and sources of information used by New England wine grape growers.

1.) What type of sprayer do you use to apply pesticides (organic or conventional) to your wine grapes? (Please check any that apply.)

<b>Equipment</b>	<b>Insecticides</b>	<b>Fungicides</b>	<u>Herbicides</u>
1.1 Boom sprayer			
1.2 Air blast sprayer			
1.3 Duster			
1.4 Back-pack sprayer			
1.5 Chemigation through irrigation			
1.6 Shielded Sprayer			
1.7 Re-circulating Sprayer			
1.8 Other (please specify)			

2.) W	That methods do you use to evaluate the effectiveness and accuracy of your sprayer(s)? 2.1 calibration once per season2.2 calibration twice or more times per season2.3 tests with water sensitive cards attached to inner and outer canopy of plants2.4 usually don't calibrate or test for spray accuracy	
	2.5 other (please specify):	
	uring the past 5 years, have you participated in training on how to calibrate sprayers or methods to st for spray effectiveness and accuracy? Yes No	
4.) If	you answered YES to question 3, did you take steps to correct your sprayer calibration? Yes	No
do	re IPM practices such as trapping and/or field scouting been used on your farm, and, if so, who be them? (Please check all that apply. If trapping and/or field scouting aren't used, please go on the next question.)  5.1) I do them myself 5.2) Private IPM scout 5.3) Farm employee 5.4) Extension agent or IPM field scout 5.5) Crop Consultant 5.6) Other (please specify):	
ac	ACTION THRESHOLDS are used, what is the <u>most important source</u> of the thresholds used? An etion threshold is a certain level of pest activity or infestation at which a treatment is needed to revent crop damage. (Please check one. If you don't use thresholds, go on to the next question.) 6.1 I don't use thresholds6.2 I use a university-provided threshold6.3 I use a private-consultant provided threshold6.4 I use my own threshold (please explain):	

PLEASE GO ON TO THE NEXT PAGE

•		nt are each of the follow	_	oi informa	uon tor you	r pest managemen	aecisions?
(Please <b>check</b>	the a	ppropriate column to the	right).				
<b>Source</b>					Very Impt.	Somewhat Impt.	not Impt.
7.1 State	Exte	ension newsletter					
<b>7.2</b> State	exte	nsion web site					
7.3 IPM s	scou	t or consultant recomm	endation				
		Grape recommendatio					
		nia Grape recommenda		•			
	•	and Small Fruit Pest M		· ·			
		and Sman Fruit Fest Mi xperience	anagement C	Julue .			
•		xperience company field person r	aaammandat	tions			
7.9 Other		1 1 1	ecommenuat	HOHS .			
7.10 Oth	ar (þ	lease specify:					
8.1 Af 8.2 Or	ter e	your spray records mai very spray date week other week	ntained and	organized?	? (Please che	eck one)	
8.4 W	hen ]	I can find time to get to	it				
9.) Does your	farn	n have a pesticide storag	ge facility?	Yes	N	lo	
10.) Are pestion	cides	mixed and loaded on a	n impermeal	ble surface	? <u> </u>	es No	
11.1 B 11.2 B 11.3 B 11.4 B 11.5 B 11.6 B 11.7 B 11.8 B 11.9 B 11.10 11.11 11.12 11.13 11.12 11.13	ased ased ased ased ased ased ased Base Base Othe	ecide which pesticides to no cost on cost on efficacy on resistance managen on past experience (such on recommendation of no none or more grape plants on the pesticide's effect of on its toxicity to applied on label restrictions of no formulation or (Please Specify):  ct annual Worker Protection of No. 2000 use the following personal cides in grapes? (Please cides in grapes)	nent strategic cess or failu a chemical of f a Universit pest manager f other grow ts on natural cators or wo	es re) on site company fi ry extension ment guide ers I enemies a orkers  ard (WPS)	eld person n agent es and other no training for	on-target organisms	
	Per	rsonal Protective Equipme	e <u>nt</u>	How Often	do you wear		
	( )	T. D. (	A 7	0 :	11 27	NT / A 1' 11	
		Long Pants	Always	Occasional		Not Applicable	
		Long-sleeved shirt	Always	Occasional		Not Applicable	
	, ,	Gloves	Always	Occasional	•	Not Applicable	
		Goggles Face Shield	Always	Occasional		Not Applicable	
		Face Shield	Always	Occasional	•	Not Applicable	
		Nitrile Gloves	Always	Occasional		Not Applicable	
		Latex Gloves	Always	Occasional Occasional		Not Applicable	
		Cotton Gloves Chemical Resistant Suit	Always	Occasional		Not Applicable	
		Respirator	Always Always	Occasional		Not Applicable Not Applicable	
	(J)	respirator	Aiways	Occasional	iry inches	1101 Applicable	

Always

Occasionally

Never

Not Applicable

(k) Boots (chemical resistant)

E. DISEASE PEST MANAGEMENT The following series of questions is meant to inform us about how you manage DISEASE pests, and which pests are most important or difficult to control adequately.

1.) How are disease management decisions made? (Pleating 1.1 Based on crop developmental stage 1.2 Based on the time of year 1.3 Based on information from weather monitor 1.4 Based on input from other growers 1.5 Based on input from field persons or private	oring systems and presence of susceptibl	e tissue
2.) Are detailed records (including varietal differences history of diseases, and strategies used in their man		nent field
3.) Are rows and trellises spaced and oriented to achieve foliage drying conditions? Yes No		low for good
4.) Is weather monitoring conducted on your farm to d wetness using at least a min/max thermometer and Yes No		d leaf
5.) Are other sources of weather information used (e.g.	, subscription services, web sites, etc.) ?	YesNo
6.) How important are the following DISEASE pests in the diseases listed.)	your vineyard? (Please check your res	ponse for all
Disease Pest Name	Very Impt. Somewhat Impt.	Not Impt.
6.1 Botrytis Bunch Rot	<del></del>	
6.2 Black Rot		
6.3 Downey Mildew	<del></del>	
6.4 Powdery Mildew		<del></del>
6.5 Eutypa Dieback		<del></del>
6.6 Phomopsis Cane and Leaf Spot		
6.7 Angular Leaf Scorch 6.8 Ripe Rot		
6.9 Crown Gall	<del></del>	
6.10 Anthracnose		
6.11 Bitter Rot		
6.12 Sour Rot	<del></del>	
6.13 Bunch Stem Necrosis		
6.14 Vine Decline/Esca/Black Goo		
6.15 Nematodes		
6.16 Other (please specify):		
7.) For which of the following diseases would you like management strategies. (Please check all that appl		ective
7.1 Botrytis Bunch Rot	7.9 Crown Gall	
7.2 Black Rot	7.10 Anthracnose	
7.3 Downey Mildew	7.11 Bitter Rot	
7.4 Powdery Mildew	7.12 Sour Rot 7.13 Bunch Stem Necrosis	
7.5 Eutypa Dieback 7.6 Phomopsis Cane and Leaf Spot	7.14 Vine Decline/Esca/Black Goo	<u>—</u>
7.7 Angular Leaf Scorch	7.14 Vine Decline/Esca/Black Goo 7.15 Nematodes	
7.8 Ripe Rot	7.16 Other (please specify):	

8.)	For which of the following disease (Please Check any that apply.)	e problems would you w	ant more IPM inf	ormation and t	raining?
	8.1 Botrytis Bunch Rot		8.9 Crown Gall		
	8.2 Black Rot		8.10 Anthracnose		
	8.3 Downey Mildew		8.11 Bitter Rot		
	8.4 Powdery Mildew		8.12 Sour Rot		
	8.5 Eutypa Dieback		8.13 Bunch Stem	Necrosis	
	8.6 Phomopsis Cane and Leaf Spot	<del></del>	8.14 Vine Decline		<u>—</u>
	8.7 Angular Leaf Scorch	<del></del>	8.15 Nematodes		
	8.8 Ripe Rot		8.16 Other (please	e specify):	
	•				
9.)	During the past 5 years have you att the diseases listed above? (Please Ch			neeting or trainin	ng for any of
abo	NSECT AND MITE PEST MANA out how you manage INSECT pest quately.		_		
1.)	Are all insect problems accurately	identified and manager	nent strategies tai	lored to those t	hat are
,	actually present in the vineyard t		_		
	· ·				
2.)	Are detailed records (including va history of insects, and manageme				
<b>3.</b> ) ]	How are insect pest management of	decisions made? (Please	check all that app	oly)	
	3.1 Based on Crop developme	ental stage	_		
	3.2 Based on the time of year	•			
	3.3 Based on information fro		odels		
	3.4 Based on input from othe				
	3.5 Based on information fro		_		
	3.6 Based on recommendation				
	3.7 Based on my own experie				
	3.8 Other (Please specify):				
<b>4.)</b> ]	Have you ever run the New York		n Risk Assessment	protocol?	
	How often do you use mating disrudo not use mating disruption, pleAlwaysSometime	ease go on to Question 7.		oress grape ber	ry moth? (If
	How effective are the Mating disrueyard?	uption pheromone ties in	n suppressing gra	pe berry moth i	in your
,	Very effectiveSe	omewhat effective	Not very effe	ective	Don't know
					_
<b>7.</b> ) ]	How often do you use pheromone vineyard?Always	raps to determine grap Sometimes		ulation levels ir	ı the
<b>8.</b> ) ]	If treatment is needed for grape be control it? Yes 1		ry used <i>Bacillus ti</i>	huringiensis va	r. Kurstaki, to
9.) 1	Do you use systematic scouting for	r any of the following in	sect pests? (Please	check all that	apply.)
· • / ·	Grape berry moth Yes		Japanese beetles		
	Grape flea beetle Yes	— No	Spider mites	Voc	No
	Leafhoppers Yes		Others (Dlesse C.		
	Leathoppers Yes	110	Others (Please S)	Jechy):	

10.) Have you every released predatory mites for controlling p	est mites?		
11.) How important are the following INSECT/MITE pests in for all the insects listed.)	your vineyard	? (Please check yo	ur response
Insect/Mite Pest Name 11.1 Grape Berry Moth	Very Impt.	Somewhat Impt.	Not Impt.
11.2 Grape Flea Beetle			
11.3 Grape Phylloxera			
11.4 Grape Leafhopper	<del></del>		
11.5 Potato Leafhopper			
11.6 Japanese Beetle			
11.7 Rose Chafer		<del></del>	
11.8 Two Spotted Spider Mite			
11.9 Aphids			
11.10 Grape Cane Girdler			
11.11 Other Please specify			
damage. (Please check one. If you don't use thresholds, go 12.1 I don't use thresholds  12.2 I use a university-provided threshold  12.3 I use a private-consultant provided threshold  12.4 I use my own threshold (please explain):  13.) For which of the following insect pests do you want more (Please Check any that apply.)  13.1 Grape Berry Moth	IPM informated in the informat	cion and training?	•
G. WEED MANAGEMENT: The following questions ask about h vineyard.	·		
1. Do you conduct a survey of the vineyard at least once per season to Yes No	note weed pro	blems on field maps	?
2. How do you determine what material and rate of herbicide to apple 2.1 Based on previous experience 2.2 Based on weed survey and mapping 2.3 Based on recommendation of a chemical company field perso 2.4 Based on environmental risks or benefits of the herbicide 2.5 Other (Please specify)  3. Do you ever use spot sprays of herbicides? YesNo			

4. How often do you use herbicides of different chemical classes			<b>3.</b> T	
Every year Every other year	Rarely		_ Never	
5. What non-chemical weed management strategies do you use	e? (Please cl	heck all that app	ly)	
5.1 Mechanical cultivation 5.4 Hand				
		emical weed man		
5.3 Mulch 5.6 Other	(Please spec	cify)		
6.) During the past 5 years have you attended any Extension weed management? (Please Check one)Yes			ting or trai	ining covering
H. SOURCES OF INFORMATION: The following questions as Pest Management (IPM) practices have affected your overall			rmation an	d how Integrated
1. Please indicate how important to you each of the following scrop and pest management. (For each source, please circles (How I	le the answe		ibes your o	opinion.)
1.1 Extension-sponsored winter meetings or workshops	very	somewhat	not	not available
1.2 Extension-sponsored on-farm twilight meetings or demonstrations	very	somewhat	not	not available
1.4 New England Wine Grape Resource Center web site	very	somewhat	not	not available
1.5 NY or PA Grape Pest Management Guide	very	somewhat	not	not available
1.6 Extension Newsletter and/or Pest Message	very	somewhat	not	not available
1.7 Farm visits from Extension Specialists	very	somewhat	not	not available
1.8 Farm visits from private crop consultants	very	somewhat	not	not available
1.9 Information sharing with other farmers	very	somewhat	not	not available
1.10 Other (Please specify):	very	somewhat	not	not available
2.) Below are various opinions, both positive and negation Integrated Pest Management (IPM). We would like each. Please give us your opinion. (Please check your 2.1 Use of IPM attracts more customers 2.2 Use of IPM increases management time 2.3 Use of IPM allows growers to charge a higher price 2.4 Use of IPM increases the costs of pest management 2.5 Use of IPM improves relations with neighbors 2.6 Use of IPM decreases the quality of the product 2.7 Use of IPM leads to decreased pesticide use	to know we response.	hether your ag Skip one or moi	ree or dis	agree with ave no opinion) _disagree _disagree
<ul> <li>3.) If there are IPM practices you choose not to use (succontrol strategies, etc.), what keeps you from using the strategies, etc.), what keeps you from using the strategies, etc.), what keeps you from using the strategies and it feels the practice is too costly to implement.</li> <li>3.2 I am uncertain about how effective the practice and it failed.</li> <li>3.3 I don't know exactly how to use the practice.</li> <li>3.4 I tried the practice and it failed.</li> <li>3.5 I am satisfied with my current production practice.</li> <li>3.6 Other (please specify):</li></ul>	hem? (Pleate will be.			on-pesticidal

(Discours hards all that anyles)	i practices tha	i you are not curre	inity using.
(Please <b>check</b> all that apply.)			
4.1 Markets that want IPM-grown crops			
4.2 Availability of cost-sharing for IPM consulting			
4.3 Learning more about how to use IPM practices			
4.4 Better evidence that IPM practices work			
4.5 Pressure from neighbors or consumers			
4.6 Loss of currently registered materials			
4.7 Other (please specify):			
			. 0
5.) How important are the each of following challenges facing (Please Check your response)	the New Engl	and wine grape ind	ustry?
• • •			
Challenge	Very Impt.	Somewhat Impt.	Not Impt.
5.1 Availability of <u>unskilled</u> labor			
5.2 Availability of skilled labor			
5.3 Cost of labor			
5.4 Competition with other growing regions			
5.5 Inadequate product promotion			
5.6 Climate			
5.7 Insect pests			
5.8 Disease pests			
5.9 Weed pests			
5.10 Vertebrate pests			
5.11 Taxes			
5.12 Government regulation			
5.13 Lack of skilled consultants			
5.14 Other (Please Specify)			
S.T. Guier (Fleuse Specify)			
I Continuing Education In this section we ask about any two	nina annautum	ition was attanded is	n the nest 1
I. Continuing Education In this section we ask about any trai	ning opportun	mes you attended n	n the past 4
years.			
4 11 6/1 / 10 60 1/1	1 41 337	a arbe :	40
1. Have you attended any of the training sessions offered thro	ough the Wine	Grape SARE proje	ct?
Yes NoI don't know			
2. Did you learn about any practices that you have used on yo	our farm since	attending the traini	ing?
YesNoNot applicable			
<del></del>			
3. Did you learn about any practices that you plan to use on y	our farm in th	e future?	
YesNoNot applicable			
4. If you answered YES to either question 2 or 3, please tell us	s what practice	oc vou have used or	nlan to use
4. If you answered TES to either question 2 of 5, piease ten us	s what practice	s you have used of	plan to usc.
Is there anything you would like us to know that wi	ill help us be	etter understand	the needs
of wine grape growers in New England?	r		
of while grape growers in New England:			

Thank you for your time!