



CONFIDENTIAL

when completed Collected under the authority of the Statistics Act, Revised Statutes of Canada, 1985, Chapter S-19.

For interviewer use only To correct or make changes to this label \rightarrow GO to Step 1. Fully completed 005 1 Ce questionnaire est disponible en français. Partial 005 4 Refusal 005 2 3 No contact 005 In operation 004 00 Change of operator 004 12 Out of business 004 13 TO THE RESPONDENT: The objective of this survey is to collect more accurate pesticide use and pest management data from Canadian farmers to help researchers, government agencies and farm organizations document and thock changes in pesticide use and pest management systems. Your responses will help ensure that there are accurate and sound data available and the crops you produce. Every questionnaire counts, SO please respond. This is a voluntary survey conducted under Section 8 of the Statist. s Act. Your cooperation is important to ensure that the information collected in this survey is accurate. All information will be kept confidential under the Staustics Act. Please refer to the 2005 calendar year when ans vering the questions. In order to avoid duplication, Statistics Ganal a will add the responses you provide in this survey to the information you supplied for the 2005 Fr. it and Vegetables Survey. The combined information will be used strictly for statistical purposes and purplished in aggregate form only. STEP 1: Change or correction to the address label (if required) 1 Are there any changes required to the address label? Corporation name Operator name Contact name 15 14 16 Area code Telephone contact person Telephone operator 17 18 RR Box No. 19 Number and street name 20 Post office (name of city, town or village where mail is received) Postal code Canada 5-5100-493.1 STC/AGR-450-75402 Statistics Canada Statistique Canada *

For interviewer use only

Based on label information, enter last digit of contact telephone number:

Enter number of vineyard listed in Step 2:

→ Column number

➔ Row number

Use this table to select vineyard

STEP 2: Questions about the vineyards where GRAPES were grown for sale in 2005	
2 What UNIT OF MEASURE will be used to report land areas? ²² This same unit should be used throughout the questionnaire.	
(Check one circle only.) O ⁰¹ Acres O ⁰² Hectares O ⁰³ Arpents (Quebec only)	
3 What was your total producing and non-producing grape area (all varieties) on this operation in 2005?	60
4 What was your total producing area of grapes (Vinifera or Labrusca)?	23
5 How many vineyards (varieties of grapes, cultivars or vineries) produced grapes for sale?	24
 all areas of grapes grown for sale to the fresh or processing markets in 2005; 	
► all grape areas grown for wine production.	
Do not include: grapes grown for home use.	
To save time, this interview will focus on one producing vineyard only. First, we will list all producing vineyards (varieties of grape, cultivars or vineries) in 2005. You can use your identification system (name, number or description) to report each vineyard. Then, I will select one producing vineyard (variety of grape, cultivar or vinery) from the list.	
6 What were your producing vineyards in 2005?	
▶ If the respondent uses a different term than "vineyard" (variety of grape, cultivar or vinery) to describe the grap, producing 25	
 area, please specify here: If there are more than 10 producing vineyards, list the 10 largest producing vineyards. 	
Name, number or description of vineyard Name, number or descr.ption of vineyard 1 6	
2 7	
4 9 5 17	
Now, I will select one producing vineyard from all producing vine; ards in 2, 05.	
	26
The selected producing vineyard is: During this interview, I will ask you questions about this vineyard.	
7 What was the area of this selected vineyard (variety or vinery)?	27
8 How many vines were in this selected vineyard `	61
9 What year was the selected vineyard plante.	62
10 In 2005, if more than one, report the most important	
	29
b) when did harvest start? D D M M ³² D D M M ³⁵ D D M M ³⁸ D D M M ⁴¹	
c) when did harvest fir, sh?	
STEP 3: Questions about herbicide, insecticide or fungicide applications from January 1 to December 31, 2005 on t vineyard selected in Step 2	the
11 In 2005, did you apply any herbicides, insecticides, fungicides or other pesticides on the selected vineyard?	43
⁰¹ O Yes ⁰² O No If "YES", continue to question 12. If "NO" \rightarrow Go to Step 4.	
12 What format was used to keep records of herbicides, insecticides, fungicides or other pesticides applied to this orchard? 4 Was it? (Check all that apply.)	44
⁰¹ O Written ⁰² O Electronic/computer file ⁰³ O No record kept	
13 What information is kept in your logs/record-keeping system?	
Does it include the? (Check all that apply.)	
⁴⁵ O Date of application ⁴⁸ O Product applied ⁵¹ O Temperature at application	
 ⁴⁶ O Identification of vineyard ⁴⁹ O Rate of application ⁵² O Targeted weed, insect or disease ⁴⁷ O Total area treated ⁵⁰ O Wind speed ⁵³ O Other, specify: 	54
14 Did the company or person purchasing your produce require the use of specific herbicides, insecticides or fungicides as	
part of a contractual agreement?	55
⁰¹ O Yes ⁰² O No ⁰³ O Not applicable, the produce was not sold to a grape processor or winery under a contractual agreement.	

STEP	3: Questions about her	bicide, insecticide or fungicide applications from January 1 to December 31, 2005 on the vineyard	select	ed in S	Step 2								
		to the selected vineyard in 2005? Report ALL CHEMICAL APPLICATIONS to the SELECTED VINEYARD in this table. SELECTED VINEYARD (Step 2) made by the respondent, a partner, an employee or a custom applicator.											
							999						
		45 applications or lines), use additional tables supplied with the interviewer material. Check if the product code found in the Interviewer Reference Guide.	ou use	additio	onal table								
		than one product in the tank, use a different line for each product mixed.											
►	If the code of a pre-packaged	mix is not included in the list, report its name at the bottom of this table (p. 4).											
	Column [1]	Column [2]					Col ımn [3]		Column [4]		Col	lumn [5]	
									What was the				
		Which product was applied?			V	What w	was the rate of application?		application technique		this application that the second s		
Line	Date of application	(Enter product name or code from the <u>Interviewer Reference Guide</u>)		X) (e	e.g. 1 litre per acre)		(Enter the application technique code p. 4)	tion percent of the VINEYARD was treated?			
	1 D D M M 101	201				301	per 4	401	501	1		TT	601
	2 D D M M 102	202				302		402	502	2			602
	3 D D M M 103	2.				303		403	503	3			603
	4 D D M M 104	204				304	per 4	404	504	4			604
	5 D D M M 105	2.05				305	per 4	405	505	5			605
	6 D D M M 106	206				306	per 4	406	506	3			606
	7 D D M M 107	207				307	per 4	407	507			\rightarrow	607
	8 D D M M 108	208				308	per	408	508			\rightarrow	608
	9 D D M M 109	209				309	per	409	509			+	609
	10 D D M M 110	210				310	per	410	510			++	610
		211 212 212				311 312	per	411 412	511		_	+	611 612
		212				312	per	412	513			+++	613
	13 D D M M ¹¹³ 14 D D M M ¹¹⁴	214				314	per	414	514			+	614
	15 D D M M ¹¹⁵	215				315	per ⁴	415	515	5		+++	615
	16 D D M M ¹¹⁶	216				316		416	516	6			616
	17 D D M M ¹¹⁷	217				317		417	517	7			617
	18 D D M M 118	218				318		418	518	3			618
	19 D D M M 119	219				319	per 4	419	519	Э			619
2	20 D D M M 120	220				320		420	520)			620
2	21 D D M M ¹²¹	221				321	per 4	421	521				621
2	22 D D M M ¹²²	222				322	per	422	522	2			622
2	23 D D M M ¹²³	223				323	pei	423	523			$\downarrow \downarrow$	623
2	24 D D M M ¹²⁴	224				324	per 4	424	524	1			624

	Column [1]		Column [1] Column [2]			Column [3]					Column [4]		Column [5]			
				Which product was applied?			What was the rate of application?				What was the application technique	OI	or half row treatment, what			
Line	Date	of app	olicatio	(Enter product name or code from the <u>Interviewer Reference Guide</u>)			(e.g. 1 litre per acre)			(Enter the application technique code p. 4)		percent of the VINEYA was treated?				
25	DI	M	M	2	225			325	per	425	525	;			625	
26	DI	M	M	2	226			326	per	426	526	;			626	
27	DI	M	M	2	227			327	per	427	527				627	
28	DI	M	M	2	228			328	per	428	528				628	
29	DI	M	M	2	229			329	per	429	529				629	
30	DI	M	M	2	230			230	per	430	530				630	
31	DI	M	M	2	231			331	per	431	531				631	
32	DI	M	M	2	232			332	per	432	532				632	
33	DI	M	M	2	233		Γ	333	per	433	533				633	
34	DI	M	M	2	234			334	per	434	534	L.			634	
35	DI	M	M	2	235			335	per	435	535	;			635	
36	DI	M	M					336	per	436	536	;			636	
37	DI	M	M		237	1		337	per	437	537				637	
38	DI	M	M		8,			338	per	438	538	:			638	
39	DI	M	M 1		239			339	per	439	539	I I			639	
40	DI	M	M	2	240			340	per	440	540	1			640	
41	DI	M	M	2	241			341	per	441	541				641	
42	DI	M	M		242			342	per	442	542	!			642	
43	DI	D M	M	2	243			343		443	543				643	
44	DI	M	M		244			344		444	544				644	
45	DI	M	M	2	245			345		445	545				645	

For ch	micals not listed in the Interviewer Reference Guide, please specify below:	
Line	Name of formulated product or PCP number	
		701
		702
		703
		704
		705
		706
		707
		_

Form of product purchased

(e.g. powders, emulsifiable concentrates, granules)			
	708	1=	Bro
	709	2=	Baı
	710	3=	Orc
	711	4=	Orc
	712	5=	Spi
	713	6=	Spi
	714	_	~

Application technique codes (Enter codes in Column 4 above)

 1=
 Broadcast spraying (boom or non-boom)

 2=
 Band spraying
 8=
 Chemigation - high pressure gun

 3=
 Orchard airblast - axial fan
 9=
 Backpack spraying

 4=
 Orchard airblast - cross-flow tower
 10=
 Granular application

 5=
 Spraying by airplane
 11=
 Pheromones & pit trap

 6=
 Spraying by helicopter
 12=
 Other (specify on the line in Column 2)

 7=
 Chemigation - low-pressure drop tube
 Column 2)

STEP 4: Questions about WEED, selected in Step 2	INSECT, DISEASE AI	ND OTHER PEST M	ANAGEMENT PRACTICES in 2005 for the vi	neyard
16 Which practices do you use in your		vineyard in 2005?		
Bit Calibrate sprayer each yea 816 Calibrate sprayer each yea 817 Use the highest labelled wa 818 Replace nozzles at least ex 819 Maintain sprayer travel spect 820 Maintain low boom height 821 Adjust airblast direction for	r ater volume very three years sed less than 16 km/h	 ⁸²³ O Spray o ⁸²⁴ O Maintai 	nly when wind speeds are low (less than five km/h) nly when wind blows away from sensitive areas n lower pressure or use low-drift nozzle tective shrouds or cones around sprayer boom specify:	827
		CTS compared to the		
17 In 2005, for the selected vineyard, w (Check one circle only.) 01 04	O Much less	²² O Less ⁵⁵ O Much more	⁰³ O About the same	
If the answer is "More" or "Much I				
18 What do you plan to do during the r Will you? (Check all that app.		educe your <u>INSECT</u> pro	blems?	
 951 O Scout for insect or dat 952 O Use forecasting system 	nage presence ⁸⁴ ns ⁸⁵	⁵⁰ O Increase rate of	disrupt insect reproduction or development insecticide applications	852
 ⁸⁴⁷ O Switch to a different in ⁸⁴⁸ O Apply an additional inst 	isecticide	•1 O Other, specify:	.1	853
19 In 2005, did you deal with any <u>NEW</u>		d? ⁸⁵⁴		
⁰² O No ⁰¹ O Yes				
► If yes, what was the main insect?	•			855
20 In 2005, for the selected vineyard, w	/hat was the <u>MOST PRE\</u>	/ALENT INSECT you ha	ad to control?	
Enter "0" if there was no significat	nt insect problem and skip	to Question 22.		856
21 What did you do to control the MOS Did you? (Check all that app				
	iy.) cides throughout the gro	wing season	O'	
	ide applications to target	-	o svelopment stages	
	What were the developm		C Larry hymph of egg stages	
	If not applicable, go to nex	t choice: Box 56∠ 86	C Larvar of Hymphan stages	
	eps to disrupt the reprod			
	tions to disrupt the ຳor) ficial organismອ ເບຼົາກເ		t of this insect	
	vineyard and it: surro. no		eficial organisms	
22 In 2005, for the selected vineyard, w	vas the incio, nce of <u>DISE</u>	<u>EASES</u> (fungus, bacteri	a, mildew) compared to the last five years?	867
(Check one circle only.)	O Much reads	⁰² O Less	⁰³ O About the same	
04	O More	⁰⁵ O Much more		
If the answer is "More" or " Auc)	more", continue to question	n 23. Otherwise \rightarrow Go t	o Question 24.	
23 What do you plan to do Jurin, the r		educe your <u>DISEASE</u> p	roblems?	
953 O Scout fund disease dam		⁵⁴ O Use forecasting	sustance	
⁸⁶⁹ O Increase rate of fungio	-		or water management	
⁸⁷⁰ O Switch to a different fu	ingicide	⁷⁴ O Other, specify:		875
⁸⁷¹ O Apply an additional fu	-	877		
24 In 2005, did you deal with any <u>NEW</u> 02 O No 01 O Yes	DISEASES IN this vineya	aro <i>f</i>		
► If yes, what was the main disease	9?		878	
25 For the selected vineyard, what was		DISEASE (fungus, bac	teria, mildew) you had to control?	
If there was no significant disease pro				879
26 What tools/methods did you or you	r advisor use to make de	cisions on when to app	bly fungicides in this vineyard to control the <u>MOST</u>	
PREVALENT DISEASE?	880			
Was the decision based on?	 A set application Scouting report 	n schedule (calendar s s and thresholds	praying)	
(Check all that apply.)		sting/warning services		
		ons (degree days, mois	sture)	
		ier operators hemical salesperson		
	886 O Don't know			
	⁸⁸⁷ O Other, specify:			888

STEP 4: Questions about WEED, INSECT, DISEASE AND OTHER PEST MANAGEMENT PRAC selected in Step 2	TICES	in 2	005 1	for t	he vin	leyar	rd
27 In 2005, which practices did you use to avoid the <u>MOST PREVALENT DISEASE</u> (fungus, bacteria, mildew) i Did you? (Check all that apply.)	n this v	ineya	rd?				
 Plant certified disease-free transplants Select the plant variety known to be most resistant to the major disease threats in your area Eliminate possible sources of inoculum, such as cull piles, pruning residue or volunteer plan Clean equipment moving into this vineyard to reduce risk of transporting disease spores or in Adjust fertilizer levels to prevent excessive levels of nutrients in the root zone and foliage Test your soil for micronutrient imbalances that can promote certain diseases Alter the timing of fertilization and/or water applications 		-	fields				
28 In 2005, did you use any of the following practices in this vineyard for <u>WEED</u> management?							
Did you? (Check all that apply.) 829 O Mulch 831 O Use a cultivator or rotary hoe 830 O Plant a cover crop 832 O Chop or remove pruning residu 833 O Other, specify:	e						834
29 In 2005, for the selected vineyard, was the incidence of <u>WEEDS</u> compared to the last five years?	¹³⁵	1					
If "More" or "Much more", continue to question 30. Otherwise \rightarrow Go to Question 31.	\mathbf{X}) '					
30 What do you plan to do during the next growing season to reduce your <u>WEED</u> problems? Will you? (Check all that apply.)	~						
 836 O Switch to a different herbicide 837 O Apply an additional herbicide 838 O Increase rate of herbicide applications 955 O Switch to a different . Increase rate of herbicide applications 	ce						842 843
STEP 5: Questions about weed, insect and disease RESISTAN CE to chumical applications for	r your	ENT	IRE	OPE	RATI	ON	
 31 In 2005, did you use any of the following practices to preven:	eties			IS			901
32 On YOUR FARM, to what extent, if any, איש אר אין becoming resistant to <u>HERBICIDES</u> ? Are weeds becoming? (Check - e circle only.)							
⁰¹ O Very resistant ¹² O Resistant ⁰³ O Slightly resistant ⁰⁴ O Not resistant	09	0	Don't	t kno	w		902
33 On YOUR FARM, to what extend if any, are insects becoming resistant to <u>INSECTICIDES</u> ? Are insects becoming and the control of the control							
⁰¹ O Very resistant ⁰² O Resistant ⁰³ O Slightly resistant ⁰⁴ O Not resistant	09	0	Don't	t kno	w		903
34 On YOUR FARM, to what extent, if any, are diseases becoming resistant to <u>FUNGICIDES</u> ? Are diseases becoming? (Check one circle only.)							
⁰¹ \odot Very resistant ⁰² \odot Resistant ⁰³ \odot Slightly resistant ⁰⁴ \odot Not resistant	09	9 0	Don't	t kno	w		904
STEP 6: Questions about the herbicide, insecticide or fungicide products that you would have registered for application on GRAPES in 2005	e liked	to u	ise if	the	y had	bee	n
35 What are the herbicide, insecticide and fungicide products that were <u>NOT</u> registered for use on GRAPES ir 2005 that you would have liked to use if they had been registered in your province?	n						
 List chemical products that are available in other provinces or countries. If necessary, use the comment box on page 8 to provide further details or explanations. 	(If a	availat	ble. er	nter F	PCP nui	mber	
Product name $905 \circ$ None Go to question 36 .	or	r prodi	uct co	ode fo	ound in nce Gui	the	
	106						907 909
	110						911 913
4	114						915

TEP 7: Questions about the	characteristics of the oper	rator(s) and agricultural oper	ation as of Decem	oer 31, 2005	
36 Which of the following best de	scribes this farm operation?		916		
so which of the following best de	(Check one circle only.)				
	⁰¹ O Sole proprietorsh	in			
(If the operation is a family	⁰² O Corporation (Limi				
or hobby farm, check 1, 2 or 3).	⁰³ O Partnership	,			
	⁰⁴ O Cooperative or co	ommunal operation (e.g., Hutterite	colony)		
	⁰⁵ O Other, specify:				917
7 Are you the person who looke	d after the day-to-day crop man	agement decisions on this operati	ion? Ye	s O ⁰¹ No	0 ⁰² 918
					919
38 How many operators (decision	i-makers) 18 years of age and o	ver were responsible for this oper	ation?		
39 What was the age of:					
If there was only one operator, e	enter the age in the box for Operato	or 1.			
¹ Operator 1?					920
² Operator 2 (minimum age	18) ?				921
10 What is the highest level of ec	ucation completed by the opera	itor(s)?	1	922	923
If there was only one operator, e	enter the level of education in the b	ox for Operator 1.		erator 1	Operator 2
1-				0 01	0 01
Some elementary or seco	ndary (high) school (include upg	raded and special education)	Y	0 01	0 01
² Completed secondary (hi	gh) school (graduation certificate	or equivalent)		O ⁰²	O ⁰²
³ Some post-secondary, in	cluding some college or univers	ity courses		O ⁰³	O ⁰³
[*] Completed college or uni school, agricultural diploma	versity certificate or diploma bel , business or community college, (low bachelor level (e ⁊., trao ː, tech CEGEP)	nical or vocational	O 04	O 04
⁵ Completed university deg	ree program (include bachelor's (degree and above)		O 05	O ⁰⁵
11 How many years has the mos	experienced operator on this fa	arm והב naged a farm business?			924
TEP 8: Agreement to share	data				
		order to avoid duplication, Statistic e federal government departments			
		ses or any other identifier be share and research purposes by these th	•	ents and that t	he
12 Do you agree to share this inf	crmation with:				
	a) Agriculture and Ag	ri-Food Canada?		No O ⁰²	925
				No O^{02}	926
	-	la?		No O ⁰²	927
In order to extend the researc	h canabilities of this survey. Sta	tistics Canada intends to combine	the information from	this survey	Ţ
		atistics Canada obtained from you		uns survey	
43 Do you agree that Statistics C	anada combines information frc	om this survey with the information	n you		
	d Vegetables Survey?		Yes O ⁰¹	No O ⁰²	928
14 Would you like to receive a su	mmary report of the survey res	ults?	Yes O ⁰¹	No O ⁰²	931
If "YES" continue to Questi	on 45. If "NO" $ ightarrow$ Go to Step 9				
		<u>OT</u> be shared with any other gove	rnment department.		
Enter MAIL II the respond	ent prefers to receive the report by	r mail.			
E-mail address					932

STE	P 9: Operator or interviewer comments
46	Farm operator comments Check if you wrote comments 933
47	Interviewer comments Check if you wrote comments
_	
	INTERVIEWER EXIT CHECK . IST
	Interviewer Ide. tification number:
	Number or contacts required: 935 N Interview date: 936 M M
	Travel time to interview location: ⁹³⁷ H H M M
	Interview starting time: ⁹³⁸ H H M M O ⁰¹ a.m. O ⁰² p.m. ⁹³⁹
	Interview finishing time: ⁹⁴⁰ H H M M O ⁰¹ a.m. O ⁰² p.m. ⁹⁴¹
	Circle fully completed steps 1 2 3 4 5 6 7 8
	DK in the margin for questions "Don't know" R in the margin for questions refused to answer
	All unusual situations are explained in the "Comments" section
	A farm status code has been entered on the cover page
	A questionnaire status has been entered on the cover page
	If you marked "Change of operator", "Out of business", "Refusal", or "No contact" on the cover page, the situation is explained in the "Comments" section in Step 9