APPENDIX C

Sample Forms, Investigation Tools, and Templates for Data Tables

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C.1 Case Tracking Form and Contact Log

These two forms are examples of mechanisms that PPSPs can use to track the case follow-up process to ensure that all needed information is collected and that appropriate referrals and agency contacts are made. As noted in Chapter 5, the program should determine if it wants to log and track informational calls and/or reports that are screened out as unrelated to pesticide exposure. The tracking checklist form included here does not include informational calls but could be adapted to do so. The procedures used for any tracking system should be documented in a procedure manual. The contact log is a tool for recording names of individuals and the dates they were contacted as part of the follow-up investigation process. The comments should be supplemented with additional records of conversation pertinent to the investigation. The forms can be useful tools to review timeliness and completeness of the investigation process.

PESTICIDE CASE TRACKING CHECKLIST						
CASE ID NO.	CASE ID NO EVENT ID NO					
		DATE		INITIALS	COMMENTS (specify names)	
1. Reported to HD and Logged						
2. Data Collection Form Starte	ed I					
3. Other Agency/ies Notified		DATE	PERMISSION			
(Indicate Permission to refer? Y/N)	Ag					
	OSHA					
	Forestry					
	EPA					
		DATE				
4. Medical Records Requested						
5. Medical Records Received						
6. Case Report Written/Filed						
7. Memo Distributed (stamped medical/confidential)						
8. Other Agency Reports Received		DATE	PERMISSION			
	Ag					
	OSHA					
	Forestry					
	EPA					
9. Case Classification			DATE			
10. Case Data Entered into SP	IDER					

	CASE CONTACT LOG						
Date	Contact	Phone No.	Initial	Comments			

C.2 Main Pesticide Exposure Questionnaire

Instructions

This is a sample questionnaire for use by an acute pesticide-related illness and injury surveillance program. It includes questions that satisfy the data requirements for all of the core variables needed by the National Institute for Occupational Safety and Health (NIOSH), Centers for Disease Control and Prevention (CDC), Additional questions for administrative report management at the State level, as well as optional suggested questions, are included. Optional questions are indicated on the form by framing with a dashed border. The order of the questions is designed to provide ease of data collection as well as data entry using the SENSOR Pesticide Incident Data Entry and Reporting (SPIDER) data management software. Shading on pages 1-17 indicates data to be completed by the interviewer and not asked during the actual interview. Pages 18-21 are to be completed following the initial interview as additional medical information is collected and case closure is completed. States will need to customize this questionnaire for their specific needs. Some States may choose to develop separate questionnaires for agricultural, occupational, nonoccupational, physician, or non-English speaker interviews. The design presented here is not appropriate for interviewing non-English speaking farmworkers. An example of a Spanish language questionnaire specific to agriculture situations can be obtained from the California DHS SENSOR Pesticide Poisoning California (SPPC) Program (510-620-5757 or http://www.dhs.ca.gov/ohb/AgInjury/).

Pesticide Illness and Injury Surveillance Que	stionnaire
	Case ID
	Event ID
Interviewer Name	
Interviewer ID	Today's date//
MAIN PESTICIDE EXF	POSURE QUESTIONNAIRE
Department of Health. We recently you may have experienced a pesticide exposul have been exposed to pesticides, and what has would like to ask you some questions. The in pesticide exposures in the future. Your paquestions you do not want to answer. Shall we the subject says he/she does not have time right	This is with the y received notification by who are. We try to keep track of persons in our State that as happened to them. If you have a few moments, I aformation you provide may help us prevent similar articipation is voluntary, and you may skip any we begin? (If the subject agrees, begin the interview. If a now, try to schedule a time when you may call back. If thank him/her for his/her time, hang up, and complete as all report.)
Case Information Screen	
	ons about yourself. Already have this information, although it is helpful to be spelling of names and checking the address and
1. What is your last name?	
3. What is your middle name?	
3a. What is your Social Security Number?	
4. What is your home address?	
City	State Zip
5. What is your home telephone number? (_)
6. What county do you live in?	
7. Were you living in a different residence at t	
8. What was your home address at the time you this was location where exposure occurred.)	g; if the person answers no, skip Number 8. ou were exposed? (Enter in exposure incident screen if
Address line 1	
Address line 2	
City	
State ZIP	County Name
	FIPS code

Pesticide Illness and Injury Surveillance Questionnaire Case ID Event ID 9. Gender 1 Male 2 Female 8 Other 9 Unknown 1 Am Indian 2 Asian/Pacific Is. 3 Black 5 White 10. What is your race? 8 Other 6 Mixed 9 Unknown 1 Yes 9 Unknown 11. Are you of Hispanic origin? 2 No 12. Are you comfortable speaking in English for this interview? 2 No If the person answers no, go to 12a. 12.a What is your preferred language? (Interviewer, stop and arrange to call back with an interviewer in the preferred language if necessary.) 13. What is your birth date? ____/___ Estimated? ___Y N Basis _____ Now I would like to ask you some questions about when you were exposed to pesticides. **Event Information Screen, Application/Release Event Narrative** 14. Can you briefly describe the events leading up to your pesticide exposure? Event Information Screen, Event Summary—Application Information 15. Where did the application (or event such as a spill, transport accident, or fire) that was associated with your exposure take place? (Interviewer, enter the code from the list below. Do not read options.) Farm (excluding, nursery, livestock, forest) Farm product warehousing and storage 32 33 Food manufacturing Nursery Other manufacturing facility/industrial 03 Forest 39 facility/warehouse facility Livestock and other animal specialty production 40 Office/business (nonretail, nonindustrial) facility 05 Greenhouse 41 Retail establishment Other agricultural processing facility 09 42 Service establishment Single family home 43 Pet care services and veterinary facilities 10 Mobile home 50 11 Road/rail 12 Multiunit housing (apartments, multiplexes) 51 Road, rail, or utility right-of-way 13 Labor housing 52 Park Residential institution (dorms, shelters) 54 Private vehicle 21 School 55 Public transportation vehicle 59 22 Day care facility (including in private residence) 23 60 Emergency response vehicle Prison 24 Hospital 70 More than one site 98 29 Other institution Not applicable

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Pesticide manufacturing/formulation facility

99

Unknown

	Case ID
	Event ID
16a. What was the intended target for the pesticide?	
(Interviewer, mark only one from the list. Do not read option (060) Aquatic (pond, stream, lake, irrigation canal) (800) Bait for rodent, bird, or predator (200) Beverage crops (041) Building structure (including crack and crevice treatment.) (042) Building surface (043) Building space treatment (530) Cereal grain crops (e.g., barley, corn, wheat, rice) (650) Crops that cross categories 90–600 (general farming) (801) Community-wide application target (go to 16b below) (501) Fiber crops (e.g., cotton) (300) Flavoring and spice crops (510) Forage, fodder hay, silage grasses, silage legumes, and related crops (110) Fruit crops (110) Fruit crops (111) Citrus fruits (e.g., grapefruit, kumquat, lemon, oranges) (113) Pome fruits (e.g., apples, pears, quince, Japanese plum) (101) Small fruits (e.g., apricots, cherries, dates, mangoes, olives) (120) Subtropical/other fruits (e.g., avocado, banana, coconuts) (112) Tree nuts (e.g., almonds, hazelnuts, pecans) (500) Grains, grasses, and fiber crops (700) Human (701) Human—skin/hair (702) Human—clothing (703) Human—skin/hair and clothing	(010) Landscape/ornamental (550) Miscellaneous field crops (600) Oil crops (850) Other (e.g., mixed crop and noncrop, mammal feeding and nesting areas, boats and docks) (601) Seed treatment (application to seeds) (070) Soil (540) Sugar crops (e.g., sugar cane, sorghum) (050) Undesired plant (the plant is the target pest) (400) Vegetable crops (410) Curcubit vegetables (e.g., cucumbers) (420) Fruiting vegetables (e.g., cantaloupe, melon, squash) (430) Leafy vegetables (e.g., cabbage, celery, endive, lettuce) (460) Other vegetables (e.g., broccoli, cauliflower, eggplant) (440) Root and tuber vegetables (e.g., beets, carrots, onions) (450) Seed and pod vegetables (e.g., beans, chick-peas, lentils, peanuts, peas, soybeans, sweet corn) (032) Veterinary/domestic animal (031) Veterinary/livestock (080) Wood product (e.g., utility poles, decking, fencing, boardwalk, railroad ties, bulwarks, pilings) (998) Not applicable, application not involved (999) Unknown
If 16a is coded as community-wide application targe	t 801, complete items 16b and 16c.
16b. What was the purpose of the community-wide ap	plication?
1 Agricultural pest eradication	2 Public health pest control or eradication
8 Not Applicable	9 Unknown

Pesticide	Illness	and	Injury	Surveillance	Questionnaire
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	• /		
			Case ID
			Event ID
16c. V	What was the specific target of the commu	ınity-wi	de application? \square \square
001	Mosquito (no disease specified)	103	Japanese beetle
002	West Nile virus	104	Imported fire ant (red or black)
003	St. Louis encephalitis	105	Asian longhorn beetle
004	Eastern equine encephalitis	106	Emerald ash borer
005	Western equine encephalitis	107	Grain fungal diseases (e.g., black stem rust)
006	La Crosse encephalitis	108	Grasshopper/Mormon cricket
007	Dengue fever	888	Default if State chooses not to code this variable
100	Boll weevil	996	Multiple pests
101	Gypsy moth (Asian or European)	998	Not applicable (APPTARGT not = 801)
102	Fruit fly (Mediterranean, Mexican, Oriental,	999	Unknown
	olive, etc.)		

17. What type of equipment was used in this application? (Interviewer, mark only one from the list below. Do not read options.)

01	Aerial application equipment	10	Trigger pump/compressed air
02	Chemigation	11	Ground sprayer
03	Pressurized can	12	Manual placement
04	Aerosol generator/fogger	13	Dip tank or tray
05	Soil injector	14	More than one type of equipment
06	High-pressure fumigator	15	Other
07	Hand-held granular/dust application	98	Not applicable
80	Spray line, hand-held	99	Unknown
09	Sprayer, backpack		

Event Information Screen, Location

18. What is the address where the **event** occurred that is associated with this exposure? This address is the site of the pesticide application, spill, or release (that is, field, orchard, business, institution, residence, or roadway). (For locations without specific addresses, include closest crossroad and distances. This may differ from a person's location at the time of exposure. For example, the exposed person might be located at a school and the actual event is a fire at a nearby pesticide storage facility. The event location is the pesticide storage facility.)

Address line 1 Address line 2 City		
State	 ZIP	Latitude
County name	FIPS	Longitude

Case ID	 	 	 	
Event ID		 		

Next, I am going to ask you some questions about the pesticide products you were exposed to and how you were exposed.

Event Information Screen, Pesticide Products

Interviewer, complete the information below (complete as much of the information as possible for each chemical) by asking the following questions:

19. What is the name of the chemical that you were exposed to? If you were exposed to more than one chemical, please tell me the name of each one. (*Interviewer, record all information available including manufacturer and any modifiers on label, e.g., spray, dust, 4E.*)

EPA registration number/distributor number	Name	Form*	Poisoning attribution [†]
a//			
b/			
c/			
d/			
e/			

Interviewer, if the EPA Registration Number is unknown, but the identity of active ingredient(s) is known, enter the most detailed product name available above and the active ingredients below. Information about products where only form and functional class are known, and information about carriers and inerts can be section labeled **Other Pesticide Information** (Item 21, page 7). If the EPA Registration Number is entered in the known, complete the EPA Registration Number and Product name, then skip to Item 22 **Chemical Agent Comments, page 7**.

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^{*}See form codes on next page.

[†]Check box if product is thought to have contributed to illness. Complete this column at time of case closure.

Case ID	 	 	 	
Event ID				

Event Information Screen, Pesticide Product—Active Ingredients and Other Sources

20. **Active Ingredient.** If product name is unknown but active ingredient is known, enter active ingredient here. (Code is auto entered in SPIDER; record only if using lookup file for entry into a nonautomated system.)

Active ingredient code	Per - centage	Form*	Functional class*	Poisoning attribution [†]
<u>a.</u>			 	
<u>b.</u>	 		 	
<u>c.</u>	 		 	
<u>d.</u>	 		 	

^{*}Indicate the product form, chemical, and functional class from the tables below.

[†] Check box if product is thought to have contributed to illness. Complete this column at time of case closure.

NIOS	SH form codes		
01	Dust/powder (not pressurized)	10	Flowable concentrate
02	Granular/flake	11	Pressurized liquid/spray/fogger
03	Pellet/tablet/cake/briquette	12	Ready-to-use liquid/solution
04	Wettable powder/dust	13	Other liquid formulation
05	Impregnated material (ant/plant stakes,	14	Pressurized gas/fumigant
	animal collars, water filters)	15	Paint/liquid coating
06	Other dry formulation	16	Other
07	Microencapsulated	17	Soluble powder
08	Emulsifiable concentrate	18	Liquid concentrate
09	Soluble concentrate	99	Unknown

Chemical class codes	Functional class codes
01 Organochlorine compound	01 Insecticide (excluding solely IGR and fumigants)
02 Organophosphorous compound	02 Insect growth regulator (IGR)
03 N-methyl carbamates	03 Herbicide/algicide
04 Pyrethrin	04 Fungicide
05 Pyrethroid	05 Fumigant
06 Dipyridyl compound	06 Rodenticide
07 Chlorophenoxy compound	07 Disinfectant/broad spectrum for water sanitation
08 Triazines	08 Insect repellent
09 Carbamates (non-AChE inhibitors)	09 Antifouling agent (marine paints)
10 Organo-metallic compound	10 Insecticide and herbicide (01 & 03)
11 Inorganic compounds	11 Insecticide and fungicide (01 & 04)
12 Coumarins	12 Insecticide and herbicide and fungicide (01, 03, & 04)
13 Indandiones	13 Insecticide and other (01 & 96)
14 Convulsants	14 Herbicide and fungicide (03 & 04)
15 Microbial	96 Other (includes biological controls, plant growth
16 Dithiocarbamates	regulators, antibiotics, etc.)
95 Unidentified cholinesterase inhibitor	97 Multiple (product is classified as multiple classes which
97 Multiple (PC Code indicates a code for a	do not fit in any of the codes specified in codes 10–14)
combination of active ingredients that cross	99 Unknown
chemical classes)	
99 Unknown	

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				PESTICII	DE EXPOSURE	QUESTIONNAI
Pesticide I	llness and Injury Sur	veillance Questic	onnaire			
				Case I	D	
				Event		
Enter a des "unspecifie	Pesticide Information of the other ped Black Flag wasp spen about carriers and i	pesticide, e.g., "k pray"; "unlabele	Some kind c ed spray car	of spray f	rom a highwa	y truck";
Other ID	Description of other	source	Chemical class*	Form*	Functional class*	Poisoning attribution [†]
<u>a.</u>						
b.						
c.						
	complete this section a ntry. Data entry clerk sh				s are assigned	by SPIDER
Event ID _		Event descripto	Or(Maxin	num 30 charact	er name for event)	
(Indicate the interviewing	ne pesticide applied by ne level of applicator sup g affected person, empl ne response.)	pervision. This ma	ny require	i	here evidence label directioned?	_
	ensed applicator			: — · ·	es, there is ev	

followed.

☐ (9)Unknown.

☐ (8)Not applicable.

 \square (2)No, no evidence of label

directions not being followed.

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☐ (2)Licensed trainee, direct supervision

(3)Unlicensed, intermittent supervision

☐ (4)Unlicensed

(9)Unknown

☐ (8)Not applicable

1 631	icide Times	ss and injury surveillance Questioning	III E	
				Case ID
				Event ID
Ехр	osure Info	rmation Screen, Incident Informati	on	
		t information. Interviewer, complete It DER on data entry. Data entry clerk, ent		
	Exposure I	D 25. Report date / _		/
	Case I	D		Event ID
26.	Report soul	rce 1 27. Report source 2		28. Report source 3
		ces below. Note that an additional character can be poison control centers in the State by using codes		
Sou	rce Code	Description		
	01	Physician report		
	02	Poison control center		
	03	Other health care provider report (including	g emerg	gency room or hospital report)
	04	Laboratory report		
	05	Death certificate or medical examiner's rep	ort	
	06	Report or referral from governmental agend	су	
	07	Obituary/news report		
	08	Ascertainment through Worker's Compens	ation	
	09	Self-report		
	10	Co-worker report		
	11	Friend or relative report		
	12	Identified during site visit		
	13	Worker representative (e.g., union, lawyer/	legal se	ervices/other advocate)
	14	Medical record review (clinic or hospital re		
	97	State Department of Health	2001410	stress performed by surveinance surry
	98	Other (not captured in any code category li	sted)	
	99	Unknown	stea)	
	99	Ulikilowii		
read	options, bu	e you when the exposure took place? t base entry upon verbal response.)		
01		uding, nursery, livestock, forest)	32	Farm product warehousing and storage
02	Nursery		33	Food manufacturing Other manufacturing facility/industrial
03	Forest		39	facility/warehouse facility
04		and other animal specialty production facility		Office/business (nonretail, nonindustrial)
05	Greenhouse		41	Retail establishment
09		ultural processing facility	42	Service establishment
10	Single fami		43	Pet care services and veterinary facilities
11	Mobile hon		50	Road/rail
12		ousing (apartments, multiplexes)	51	Road, rail, or utility right-of-way
13	Labor hous		52	Park
20		institution (dorms, shelters)	54	Private vehicle
21	School		55	Public transportation vehicle
22		cility (including in private residence)	59	Other
23	Prison		60	Emergency response vehicle
24	Hospital		70	More than one site
29	Other instit		98	Not applicable
30	Pesticide m	anufacturing/formulation facility	99	Unknown

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Pesticide Illness	and Injury Surveillance Q	uestionnaire		
			Case ID	
			Event ID	
	address for the location whethe event address.)			same as the
Address 1				
Address 2				
City				
State	ZIP	<u> </u>		
Latitude		Longitude		
County name			FIPS	
(03) Transpor (04) Repair or (05) Any com (06) Involved (07) Emergen (08) Routine or (10) Routine or (98) Not appli (99) Unknown	work activities not involved wit ndoor living activities not involved outdoor living activities not involved with not involved with not involved with not involved with not involved living activities not involved living activities not involved living activities not involved with not involved living activities not involved living living activities not involved living	of pesticide h pesticide application (inved with pesticide application) plyed with pesticide application (inventor inventor inv	cation	
	ue with 32a and 32b.			
32a. How	·			
32b. Did	any seek medical care?	\bigsqcup (1) Yes \bigsqcup (2) No (9) Unk	nown

Use a separate sheet of paper to record names and contact information, if appropriate.

Pesticide Illness and Injury Surveillance Questionnaire Case ID Event ID ___ __ __ _____ 33. Please describe the exposure to me, especially anything we haven't yet discussed. I may ask you some more detailed questions about what you describe as we proceed with the interview. 34. When you were exposed to the pesticide, did you seek any type of medical care? \square (1) Yes (2) No (9) Unknown Complete items 35-43. Go to item 44a on page 11. 35. Where did you receive your initial medical care after the exposure? (1) Physician office/clinic visit \square (5) No medical care sought (6) Other (2) Emergency room (3) Hospital admission (9) Unknown (4) Advice from the poison control center 37. What is the name of the health care professional (HCP) you saw? 38. What is their address? **Chart location Work location** Address 1 Address 2 City State Zip

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Phone

		Case ID				
		Event ID				
39. I	Did you have a test for	pesticides in your blood or urine?				
	\square (2) No	\Box (1) Yes				
	(9) Unknown	Interviewer, obtain medical record to complete tables on pages 18-19.				
Go to item 41.						
		★				
		40. Did you have a cholinesterase test, which requires that blood be drawn?				
		\square (2) No \square (1) Yes \square (9) Unknown				
		If yes, complete tables on pages 18-19 from the medical record.				
	41. Were you admitte exposure? (2) N	ed to the hospital due to the pesticide (0) (1) Yes (9) Unknown				
	If No or Unknown, go to item 44a.					
	42. Facility where hospitalized					
	42. Pacifity where no	spitanzed				
	-	,				
	Treating physician_					
	43. How many days of	did you stay in the hospital?				
	(Enter code number of 999=Unknown or 999	of days: 997 if ≥ 996 days, 998=NA, not hospitalized ∂ if unknown.)				
44a. Did vou spend one or mor	re davs away from wor	k due to the pesticide exposure?				
$\prod_{i=1}^{n} (1) $ Yes	•	¬(2) No				
Ţ	Ī	(9) Unknown				
1/1h How many days						
44b. How many days were you away from						
work?		▼ Go to item 44c				

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		Case ID			
	Event ID				
44c. If not employed, did you spend of more days away from school or regulactivities?					
	\square (1)	Yes (2) No (9) U	Unknown		
		many days were you awaregular activities?	ay from		
45. Do you have any of the	e following medical conditions that	_	sure?		
Condition (Check all that apply.)	Describe	(Interviewer, complete after interview.) Medical history (from HCP interview or medical records)	Final code*		
a. Pregnancy					
b. Asthma					
c. Allergies					
d. Multiple chemical sensitivity (acquired chemical intolerance)					
e. Any other medical condition you are seeing a doctor for					
*Use the following codes for F 1=Doctor reported 4=Condition was absent		I medical record review Both doctor and person report Unknown	ed		
Interviewer, w	vas response to question 31 on page 9 YES—proceed to question 46. NO—skip to question 63 on page				
-	creen, Occupational Information,	PPE Use			
(1) Yes (2) Possibly		(3) No(4) Unknown(5) Not Applicable			
	G	o to Item 54 on page 13.			
	some questions about your employ	er at the time you were	exposed		
to pesticides. (If necessary,	reassure the subject that you are not a	associated with OSHA.)			

		Case ID
		Event ID
47.	7. What is your employer's name?	-
48.	3. What is your employer's address (or ye	our work address if self-employed)?
	Street Address	
	City	State Zip code
49.	9. What was your occupation/job title wh	nen you were injured/exposed?
7 0		
50.	O. What type of work was being done at	your place of employment at time of injury/exposure?
		ricultural worker or pesticide handler?
		–Complete item 51a. -Proceed to item 54.
	770-	-i roceed to item 54.
5	51a. Did this incident involve entering a	treated area (including field or greenhouse)?
	\square (2) No \square (1) Ye	es [] (9) Unknown
	If yes, ask 51b. Did your employer/crew after it was treated?	leader tell you how soon you could go into the area
	\square (2) No \square (1) Ye	s [] (9) Unknown
	To be completed by the interviewer a	
B_i	Bureau of Census code for occupation of	exposued worker
B_{i}		orth American Industry Classification System (NAICS)
	or Indsic	(Note that Census codes are preferred.)
1. W	Were you wearing any personal protective	e equipment?
	\square (2) No \square (1) Ye	s
	(9) Unknown	
G	io to item 63	

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Go to items 55-61

	Case ID				
	Event ID				
	55. Were you wearing a. a supplied air respirator?				
	\square (1) Yes \square (2) No \square (9) Unknown				
	b. half/full face, PAPR? ☐ (1) Yes ☐ (2) No ☐ (9) Unknown				
	56. rubber/chemically resistant boots?				
į	\square (1) Yes \square (2) No \square (9) Unknown				
	57. cloth or leather gloves?				
	\square (1) Yes \square (2) No \square (9) Unknown				
	58. rubber or synthetic gloves?				
	\square (1) Yes \square (2) No \square (9) Unknown				
	59. chemical goggles/face shield?				
İ	\square (1) Yes \square (2) No \square (9) Unknown				
	60. chemically resistant clothing? (rubber apron, tyvek, rain gear)				
	\square (1) Yes \square (2) No \square (9) Unknown				
	61. Were you using engineering controls? (e.g., closed mixing/loading system) (1) Yes (2) No (9) Unknown				
62. Interviewer, complete after interview. Incaccording to the product label.	licate the level of PPE used and required for this individual				
☐ (1) Used (all or some of PPE required) ☐ (2) Used (not required) ☐ (3) Used (unknown requirements) ☐ (4) Not used (some PPE required)	☐ (5) Not used (unknown requirements) ☐ (6) Not used (not required) ☐ (8) Not applicable ☐ (9) Unknown				
63. What was the date and approximate to Date*/ Time::	ime that your exposure to the pesticide(s) first started? Use 24-hour clock				
* At least one of the following dates must be (see pages 18-19).	entered: first exposure, symptom onset, or laboratory test				

	Case ID
	Event ID
64. What was the date and approximate time that you first start Date/_/_ Time: Use 24-hour clock	ed to experience symptoms?
65. What was the date and approximate time that your exposur Date/_/_ Time: Use 24-hour clock(mm/dd/yy)	e to the pesticide(s) ended?

Signs/Symptoms

66. Next I'd like you to describe your symptoms. (Interviewer, fill in "Doctor reported" column based on medical records or HCP interview. Final code column should be completed prior to data entry. Codes are listed following the table on page 17.)

Check all signs or symptoms described or stated as absent (items in italics should be taken from HCP interview or medical record only).

System	Sign/symptom	Patient reported	Doctor reported	Absent	Final code
General	Acidosis	reported	reported	Absent	code
General	Alkalosis				
	1				
	Fatigue/malaise Fever				
	Increased anion gap			+	
	Other	_			
Cardiovascular	Bradycardia				
	Cardiac arrest				
	Chest pain				
	Conduction disturbance				
	Hypertension				
	Hypotension				
	Palpitations				
	Tachycardia				
	Other				
Renal	Frequent urination				
	Hematuria				
	Oliguria/anuria				
	Proteinuria				
	Other_				
Neurological	Altered taste				
	Anxiety/hyperactivity/irritability				
	Ataxia/trouble walking				
	Blurred vision				

Case ID	 	 	 	
Event ID	 	 	 	

System	Sign/symptom	Patient reported	Doctor reported	Absent	Final code
Neurological	Coma				
Neurological (continued)	Confusion				
	Diaphoresis (profuse sweating)				
	Dizziness				
	Fainting				
	Fasciculations				
	Headache				
	Memory loss				
	Muscle pain				
	Muscle rigidity				
	Muscle weakness				
	Paralysis				
	Paresthesias/tingling or numbness				
	Peripheral neuropathy				
	Salivation				
	Seizure				
	Slurred speech				
	Other	-			
Gastrointestinal	Anorexia (loss of appetite)				
	Constipation				
	Diarrhea				
	GI bleeding (blood in stool or vomit)				
	Nausea				
	Pain				
	Vomiting				
	Other	-			
Eye	Burns				
	Conjunctivitis (diagnosis)				
	Corneal abrasion				
	Miosis				
	Mydriasis				
	Pain/irritation/inflammation				
	Tearing/l <i>acrimation</i>				
	Other	-			
		-			

Case ID	 	 	 	
Event ID				

System	Sign/symptom	Patient reported	Doctor reported	Absent	Final code
Dermal	Blisters/bullae				
	Burns				
	Edema/swelling				
	Hives				
	Pain				
	Pruritis (itching)				
	Pattern* of rash or lesions				
	Rash				
	Redness				
	Other				
Respiratory	Asthma (diagnosis of)				
	Cough				
	Cyanosis				
	Depression				
	Dyspnea				
	LR Irritation				
	Pleural pain				
	Pulmonary edema				
	Tachypnea				
	UR irritation				
	Wheezing				
	Other				

*Coding for pattern of dermal lesions

- 1=Corresponds well with physical pattern of exposure
- 2=Discrete patches of lesions do not correspond with the pattern of exposure
- 3=Generalized distribution of lesions on the body
- 4=Absent
- 9=Unknown

Complete final code column prior to data entry.

Final Code for	1=Doctor reported	2=Exposed person reported	3=Both Dr. and person reported
All Fields	9=Unknown		

Pesticide Illness an	d Injury Surveillance Questionnai	re			
Case ID					
		Event ID			
	tion Screen, Narrative				
Ending Statement	:				
appreciate your w questions at this ti information about any	illingness to take time to answer me? (Interviewer, provide the caller y additional contacts or actions that w	<u> </u>			
Also, go to pages 15-		medical records or interviewing the attending HCP. seed on the medical records/HCP interview, if this and any notes are entered on page 19.			
Exposure Informa	tion Screen, Medical Staff				
Medical ID					
		the case. In SPIDER, use F2 to select from nter on Medical Staff screen the full medical			
	e this section and shaded columns on r review of medical records.	the table for Item 45 on page 12, based on			
Non-Cholinesteras	se Chemical-Specific Biological	Test for Pesticides or Metabolites			
Were any non-cholir pesticides in blood, เ	nesterase biological tests done for urine, or hair?	☐ Yes ☐ No ☐ Unknown If yes, complete table if part of State protocol			
	Test 1	Test 2			
Test type					
Sample date	//	//			
Numeric result					
Analysis result	Abnormal Normal Not applicable Unknown	Abnormal Normal Not applicable Unknown			

							Case ID _				
						E	Event ID _				
Was a cho	linesteras	se test(s) p		d? (Ask only	-		_				
N-methyl carbamate pesticide.) ☐ (1) Yes ☐ (2) No ☐ (9) Unknown									nown		
				(If yes, comp		of re	sults belo	w .)			
Coding Gui Option 1: D				f Results Belov	V						
Option 2: R				ngle response f	for <i>Test Type</i>	e and	Result Typ	e, the only re	equired		
fields.											
PFI La	b code from	m lab pick l	ist or ente	r lab name							
Test type	codes	1=RBC	2=Pla	sma	3=Both RB	C and	l Plasma	4=Not	done		
		5=Either R	RBC or Pla	asma	8=Not appl	icable	÷	9=Unl	cnown		
Result typ	e codes	1=Abnorm	_		2=Abnorma						
		3=Normal		l to lab	4=Normal c				rn ovvin		
] 7=Bad spe	Test		8=Not appli Nume		Result	9=Unl	HOWII		
PFI	Lab r	name	type	Test date	resu	lt	type	Lab low	Lab high		
				/					! ! ! !		
				//	_						
				//	-						
				//_	_			 	[
		-		 					 		
		<u></u>		<u> </u>		<u>.</u>		i ! ?	i ! !		
[] Diagno	sis made	by HCP					Outcom	ne			
	1	Diagnosis						Fatal nesticid	e-related		
							_ ` `	(1) Fatal, pesticide-related (2) Fatal, not pesticide-related			
						_					
		ICD-9		-·——			\square (3) \mathbb{F}	Fatal, relation	unknown		
		Summary					☐(8) N	Not applicable	(not fatal)		
						_					
Notes											

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Pesticide Illne	ess and Injury Surveillance Questionnaire						
		Case ID					
		Event ID					
Interviewer, ı	review the form for completeness and comple	ete the following sections:					
Pages 4 – 7 Pages 5 – 7 Page 7 Page 12	Any necessary chemical product coding. Event descriptor, items 23 and 24. Item 45 enter shaded columns: pre-existing con-	nt descriptor, items 23 and 24. 1 45 enter shaded columns: pre-existing conditions from medical professional					
Page 13 Page 14 Pages 15 –17	conditions. Items 52 and 53. Item 62. Make sure all signs and symptoms are entered f	Items 52 and 53.					
	assessment of how the individual came into containing indicates variable label in SPIDER.)	act with the pesticide. (Check all					
Contact	air contamination with treated surface (plant material, carpets, treated animateontact (spill, leaking container or equipment, floodwaters,						
Indicate the ro	oute(s) of exposure. (Check all that apply.)						
Dermal Inhalation Ingestion							
	e exposure was intentional. suspected intentional	☐ 9=Unknown					
Rev. 7/1/04							

Pesticide	Illness	and	Injury	Surveillance	Questionnair	·e
-----------	---------	-----	--------	--------------	--------------	----

Case ID	 	 	 	
Event ID	 	 		

The remaining sections are to be completed by the interviewer following standard case classification procedures

Severity 1 = Fat	tal 2 = High	3 = Moderate	4 = Low	8 = Evaluat	ed, Not applicable
A. Documentation of land (Put a number in the fire 1 - Confirmed by	st box and letter a-envir/bio testin	g b-profe	essional obser	vation	c-biological evidence
2 - Reported by	d-eye/derm signs a-case d-nonprofessiona	b-witne	ndings by me		tion records
3 - Strong evidence of no	exposure				
4 - Insufficient data					
B. Documentation of 1 - 2+ findings b 2 - 2+ abnormal 3 - No post export 4 - Insufficient I	by medical staff symptoms osure findings				
b-consi 2 - Inconsistent 3 - Definitely ru	ox and letter in so exicology	econd box if firs 2 of case classife and known toxi logy of non-pesticide c	ication) and t	emporal relat	ionship is plausible
NIOSH Classification		Alternate Clas	ssification		
Classification categories	;	1=Definite 2=Probable 3=Possible 4=Suspicious			ent Information Asymptomatic

Exposure Information Screen–Poisoning Attribution

Return to pages 5 through 7 to determine if illness is attributable to products, active ingredients, or substances listed there.

C.3 PESTICIDE ILLNESS AND INJURY SURVEILLANCE DATA COLLECTION FORM

Instructions

This is a sample data collection form for use by an acute pesticide-related illness and injury surveil-lance program. This form is for States that choose not to use a standard questionnaire but collect data via an open-ended interview. The form includes fields that satisfy data requirements for all of the core variables needed by the National Institute for Occupational Safety and Health (NIOSH), Centers for Disease Control and Prevention (CDC). Fields needed for administrative report management at the State level, as well as optional suggested variables are also included. Optional items are indicated on the form by framing with a dotted-line border. The order of the fields is designed to provide ease of data collection as well as data entry using the SENSOR Pesticide Incident Data Entry and Reporting (SPIDER) data management software. Shading indicates items that are to be completed by the interviewer and not asked during the actual exposed individual or attending health care professional (HCP) interview. The form contains fields for information that may be collected from the exposed individual, and additional medical and pesticide product information collected from record reviews or additional interviews. States will need to customize this data collection form for their specific needs.

PESTICIDE ILLNESS AND INJURY SURVEILLANCE DATA COLLECTION FORM

Case ID	Event ID
Case Information	on
Social Security N	Number
Name	
Last	First
DOB//_	Estimated? Y N Basis_
DOD / DD	
Current residend	ce information
Address Line 1	
Address Line 2	
	Zip County
Phone	()
	ne of exposure if different from above. (Enter in exposure incident screen if this was cosure occurred.)
Address Line 1	
:	
•	
State	Zip
County	FIPS
Sex	Male Female Unknown
Race	1 Am Indian 2 Asian/Pacific Is. 3 Black 5 White 6 Mixed
	8 Other 9 Unknown
Hispanic	Yes No Unknown Speaks English? Yes No

Event Information Screen—Event Summary—Application Information (Complete after interview.)

Evei	nt ID E	vent date _	/	_/ County
Eve	nt descriptor(Maximum 30-charact	er name for ever	nt)	
	(Maximum 50-charach		,	
Lice	nsed applicator		Label	I/use
(Use	e code to indicate level of applicator		(Use	code to indicate if evidence indicates that the
supe	ervision.)		label o	directions were <u>not</u> followed.)
1=Li	censed applicator		1=Yes	s, there was evidence that label directions were
	censed trainee, direct supervision		not	ot followed.
	nlicensed, intermittent supervision			, no evidence of label directions not being
	nlicensed		-	llowed.
-	ot applicable			t applicable
9=U:	nknown		9=Unk	known
Apr	olication site [[[(Enter cod	e)		
01	Farm (excluding, nursery, livestock		32	Farm product warehousing and storage
02	Nursery	, , , ,	33	Food manufacturing
03	Forest		39	Other manufacturing facility/industrial
				facility/warehouse facility
04	Livestock and other animal specials	ty	40	Office/business (non-retail, non-industrial)
	production facility			,
05	Greenhouse		41	Retail establishment
09	Other nonproduction agricultural fa	cility	42	Service establishment
10	Single family home		43	Pet care services and veterinary facilities
11	Mobile home		50	Road/rail
12	Multi-unit housing (apartments, mu	ltiplexes)	51	Road, rail, or utility right-of-way
13	Labor housing		52	Park
20	Residential institution (dorms, shelt	ers)	54	Private vehicle
21	School		55	Public transportation vehicle
22	Day care facility (incl. in private res	idence)	59	Other
23	Prison		60	Emergency response vehicle
24	Hospital		70	More than one site
29	Other institution		98	Not applicable
30	Pesticide manufacturing/formulation	n facility	99	Unknown
App	olication equipment 🔲 🔲 (Er	nter code)		
01	Aerial application equipment	3003)	10	Trigger pump/compressed air
02	Chemigation		11	Ground sprayer
03	Pressurized can		12	Manual placement
04	Aerosol generator/fogger		13	Dip tank or tray
05	Soil injector		14	More than one type of equipment
06	High-pressure fumigator		15	Other
07	Hand-held granular/dust applicat	ion	98	Not applicable
08	Spray line, hand-held		99	Unknown
09	Sprayer, backpack			

Application Target (mark one)	
☐(060) Aquatic (pond, stream, lake, irrigation canal)	\square (010) Landscape/ornamental
\square (800) Bait for rodent, bird or predator	(550) Miscellaneous field crops
(200) Beverage crops	\square (600) Oil crops
(041) Building structure (including crack and crevice	\square (850) Other (e.g., mixed crop and
treatment.)	noncrop, mammal feeding and nesting
(042) Building surface	areas, boats and docks)
(043) Building space treatment	\square (601) Seed treatment (application to
(530) Cereal grain crops (e.g., barley, corn, wheat,	seeds)
rice)	□(070) Soil
(650) Crops that cross categories 90–600 (general	(540) Sugar crops (e.g., sugar cane,
farming)	sorghum)
(801) Community-wide application target	\square (050) Undesired plant (the plant is the
(501) Fiber crops (e.g, cotton)	target pest)
\square (300) Flavoring and spice crops	☐(400) Vegetable crops
(510) Forage, fodder hay, silage grasses,	\Box (410) Curcubit vegetables (e.g.,
silage legumes, and related crops	cucumbers)
\square (020) Forest trees and forest lands	\square (420) Fruiting vegetables (e.g.,
(100) Fruit crops	cantaloupe, melon, squash)
\square (110) Tree fruits	\square (430) Leafy vegetables (e.g.,
\square (111) Citrus fruits (e.g., grapefruit, kumquat,	cabbage, celery, endive, lettuce)
lemon, oranges)	\square (460) Other vegetables (e.g.,
\square (113) Pome fruits (e.g., apples, pears, quince,	broccoli, cauliflower, eggplant)
Japanese plum)	\square (440) Root and tuber vegetables
\square (101) Small fruits (e.g., berries, currants,	(e.g., beets, carrots, onions)
grapes)	\square (450) Seed and pod vegetables (e.g.,
\square (114) Stone fruits (e.g., apricots, cherries,	beans, chick-peas, lentils, peanuts,
dates, mangoes, olives)	peas, soybeans, sweet corn)
\square (120) Subtropical/ other fruits (e.g., avocado,	\square (032) Veterinary/domestic animal
banana, coconut)	(031) Veterinary/livestock
\square (112) Tree nuts (e.g., almonds, hazelnuts,	\square (080) Wood product (e.g., utility poles
pecans)	decking, fencing, boardwalk, railroad
\square (500) Grains, grasses, and fiber crops	ties, bulwarks, pilings)
\square (700) Human	\square (998) Not applicable, application not
(701) Human—skin/hair	involved
(702) Human—clothing	☐(999) Unknown
(703) Human—skin/hair and clothing	

A m m l:			A 14	1 4	1: 4:		10 NIA
Appli	cation purpo		•	•	eradication	_	8 NA
		<u></u>	Public hea	ılth pes	t control or eradication	n _	9 Unknown
Spec	ific pest tarç	get of comn	nunity-wi	de app	olication [(Er	nter code)
001	Mosquito (no	disease specif	ried)	103	Japanese beetle		
002	West Nile vir	us		104	Imported fire ant (re	d or black)	
003	St. Louis enc	ephalitis		105	Asian longhorn beet	le	
004		e encephalitis		106	Emerald ash borer		
005		ne encephalitis	S	107	Grain fungal disease	s (e.g. black	stem rust)
006	La Crosse en	*		108	Grasshopper/Mormo		
007	Dengue fever	•		888	Default if State choo	ses not to co	de this variable.
100	Boll weevil			996	Multiple pests		
101		(Asian or Euro		998	Not applicable (APP	TARGT not	=801)
102	Fruit fly (Me Oriental, oliv	diterranean, M e, etc.)	exican,	999	Unknown		
Event	Information	Screen—L	ocation				
	Address _ City	otorago raom			tion is the pesticide s		
	State _		ZIP				
	Latitude				Longitude		
Count	ty name					FIPS	
Event	Event Information Screen—Comments—Application/Release Event Narrative						
					hat involved the relea help clarify how expo		

Event Information Screen—Pesticide Products

If the EPA registration number is known, complete the EPA registration number and product name below then skip to **Chemical Agent Comments** on page 8. (Active ingredient code [PC Code, percentage, form, chemical class, and functional class are auto-entered in SPIDER; record only if using lookup file for entry into nonautomated system.) If the EPA registration number is unknown, but the identity of active ingredient(s) is known, enter the most detailed product name available below and all other available information regarding the ingredients on the table labeled **Active Ingredient** on page 7. Information about products where only form and functional class are known, or carriers and inerts can be entered in the section labeled **Other Source** on page 8.

Record all information available including manufacturer and any modifiers on label (e.g., spray, dust, 4E).

EPA registration number/distributor number	Name	Form*	Poisoning attribution [†]
a//			. 🔲
b/			
c/			. \square
,			
d///			
e//			

^{*}See form codes on next page.

[†]Check box if product is thought to have contributed to illness. Complete this column at time of case closure.

Event Information Screen, Pesticide Product—Active Ingredients and Other Sources Active Ingredient

Active ingredient code	Per - centage	Form*	Chemical Class*	Functional Class*	Poisoning Attribution [†]
<u>a.</u>	 				
<u>b.</u>	 				
<u>c.</u>	 				
<u>d.</u>	 				

^{*}Indicate the product form, chemical, and functional class from the tables that follow.

[†]Check box if product is thought to have contributed to illness. Complete this column at time of case closure.

NIO	SH form codes		
01	Dust/powder (not pressurized)	10	Flowable concentrate
02	Granular/flake	11	Pressurized liquid/spray/fogger
03	Pellet/tablet/cake/briquette	12	Ready-to-use liquid/solution
04	Wettable Powder/Dust	13	Other liquid formulation
05	Impregnated material (ant/plant	14	Pressurized gas/fumigant
	stakes, animal collars, water filters)	15	Paint/liquid coating
06	Other dry formulation	16	Other
07	Microencapsulated	17	Soluble powder
08	Emulsifiable concentrate	18	Liquid concentrate
09	Soluble concentrate	99	Unknown

Chemical class codes	Functional class codes
01 Organochlorine compound	01 Insecticide (excluding solely IGR and fumigants)
02 Organophosphorous compound	02 Insect growth regulator (IGR)
03 N-methyl carbamates	03 Herbicide/algicide
04 Pyrethrin	04 Fungicide
05 Pyrethroid	05 Fumigant
06 Dipyridyl compound	06 Rodenticide
07 Chlorophenoxy compound	07 Disinfectant/broad spectrum for water sanitation
08 Triazines	08 Insect repellent
09 Carbamates (non-AChE inhibitors)	09 Antifouling agent (marine paints)
10 Organo-metallic compound	10 Insecticide and herbicide (01 & 03)
11 Inorganic compounds	11 Insecticide and fungicide (01 & 04)
12 Coumarins	12 Insecticide and herbicide and fungicide (01, 03, & 04)
13 Indandiones	13 Insecticide and other (01 & 96)
14 Convulsants	14 Herbicide and fungicide (03 & 04)
15 Microbial	96 Other (includes biological controls, plant growth
16 Dithiocarbamates	regulators, antibiotics, etc.)
95 Unidentified cholinesterase inhibitor	97 Multiple (product is classified as multiple classes which
97 Multiple (PC Code indicates a code for a	do not fit in any of the codes specified in codes 10–14)
combination of active ingredients that cross chemical classes)	99 Unknown
99 Unknown	

Other Source If neither product nor chemical ingredient known.

Enter a description of the other pesticide, e.g., "Some kind of spray from a highway truck"; "unspecified Black Flag wasp spray"; "unlabeled spray can." This area can also be used to record information about carriers and inerts at the State level.

Other ID	Description of other source	Chemical class*	Form*	Functional class*	Poisoning attribution [†]
		_			
	-				Ш
	product form, chemical, and functional cla product is thought to have contributed to ill			at time of ca	se closure.
Event Infor (Note addition	mation—Comments—Chemical Anal information about pesticide product	Agent Comme ns and adjuvants.	ts		

Exposure Information Screen—Incident Information Incident Report Information

Exposure ID Report date/							
Case ID Event ID							
Rep	ort source 1 () Report source 2		() Report source 3 ()				
unde	Use codes for sources below. Note that an additional character can be added for State-specific codes under each category (e.g., listing specific poison control centers in the State by using codes 02A-02Z or 020–029).						
Sou	rce codes						
Cod	le Description						
01	Physician report						
02							
03	Other health care provider report (including ER or ho	spital	l report)				
04	<u> </u>						
05	1						
06	3 5 7						
07							
08	E 1						
09							
10							
11	Friend or relative report						
12	Identified during site visit	/	there advises and a				
13	1 (8) / 1 8						
97	1 1						
98	<u> </u>						
99							
	Chillown						
Site	of exposure (Enter code)						
01	Farm (excluding, nursery, livestock, forest)	32	Farm product warehousing and storage				
02	Nursery		Food manufacturing				
03	Forest		Other manufacturing facility/industrial facility/warehouse facility				
04	Livestock and other animal specialty production facility	40	Office/business (nonretail, nonindustrial)				
05	Greenhouse	41	Retail establishment				
09	Other nonproduction agricultural facility		Service establishment				
10	Single family home		Pet care services and veterinary facilities				
11	Mobile home		Road/rail				
12	Multiunit housing (apartments, multiplexes)		Road, rail, or utility right-of-way				
13 20	Labor housing Residential institution (dorms, shelters)		Park Private vehicle				
21	School		Public transportation vehicle				
22	Day care facility (including in private residence)		Other				
23	Prison		Emergency response vehicle				
24	Hospital		More than one site				
29	Other institution		Not applicable				
30	Pesticide manufacturing/formulation facility		Unknown				

Act	ivity of cas	e at time of exposure (Enter code)							
01	Applying pes	<u> </u>							
02	2 Mixing/loading pesticide								
03	· · · · · · · · · · · · · · · · · · ·								
04	The state of the s								
05 06	Any combination of activities 01–04 Involved in manufacture or formulation of pesticide								
07	Emergency response								
08	Routine work activity not involved with pesticide application (includes exposure to field residue)								
09		or living activities not involved with pesticide application							
10		or living activities not involved with pesticide application							
98 99	Not applicable Unknown								
"	Clikilowii								
Othe	ers exposed								
We	re other pers	ons possibly exposed? \square Yes \square No \square Unknown							
If Y	es, How ma	ny?							
Did	any seek m	edical care?							
	-	-							
USE	: a separate s	neet of paper to record names and contact information if appropriate.							
		ss (That is, subject's location at time of exposure. This may be the same as or the event address.)							
	Address 1								
	Address 2								
	City								
	State	ZIP							
	FIPS	County							
Cou	unty name								

Note: For cases reported multiple times, you can use the shortcut buttons in SPIDER to either copy the existing address from the case table, or if this is a new address, move this address to the case table.

Initial treatment /HCP information

First care	1=Physician's 2=Emergency	room	5= 6=	=No medical c =Other	_		
	3=Hospital adı 4=Advice of p	nissions Dison control center		=Employee he =Unknown	alth center		
HCP name	Last						
	First						
Туре	1=Fami 2=Emp	care? (Enter code ly physician loyer's physician ker's Comp physician	,	4=Consulting 5=Outpatient 9=Unknown			
	Ch	art location			Work locati	ion	
Address 1			_				_
Address 2			_				_
City			_				_
State			-				
ZIP			_				
Phone	()_		(.)			
Exposure Info	ormation Scr	een—Medical Inforr	mation				
☐ Diagnosis r	nade by HCP	(Checked=Yes)					
	Diagnosis						
	ICD9	·					
	Summary						
☐ Hospitalize	d (Checked=Y	es)					
	Admit date	/ / /		Discharge	date	/	/
Le	ength of stay	(days)		Coding	997 if > 996	days	
					998=NA, no	t hospitali	zed
					999=Unknov	wn	

Facility whe	re hos	pitalized							
Facility name	·								
Facility addre	ess								
Treating phys	sician								
Condition pr	esent	at time of exp							Coding for conditions
		Pregnant	1	2	3	4		9	1=Doctor reported
		Allergies	1	2	3	4	5	9	2=Exposed person reported
		Asthma	1	2	3		5	9	3=Both doctor and person reported 4=Condition was absent
Acquired (chemi	cal intolerance		2	3		5	9	5=Not reported
Other (Ente	er cond	lition and code.)							9=Unknown
Outcome	e 🗌	1= Fatal, pesti 2= Fatal, not p 3=Fatal, relation	estic	ide-relate	ed		8=Not a 9=Unkn		ble (not fatal)
Lost time		1=Yes, one or 2=No, no time 3=Unemployed 9=Unknown	lost	-			school (or regu	ılar activities
Total time	lost			·	da	ys			
Followup ne	eded?	Chec	k if y	es.		Whe	n?		//
Non-Cholines	steras	e Chemical-Sp	ecifi	c Biolog	gical T	Test for	r Pesti	cides	or Metabolites
Other biolog	jical te	ests?	Yes		No		Unkno	wn	
	Test	1					Test	2	
Test type									
Draw date		_//	-					_/	/
Numeric result									
Analysis result		Ibnormal Not applicable		_	ormal iknow	n		Abnoı Not a	rmal Normal pplicable Unknown
Notes	<u>-</u>								<u> </u>

Exposure Information Screen—Cholinesterase Results

Coding guidance for completing table of results

Option 1 Detailed version.

Option 2 Required minimum. Enter single test response for Test type and Result type, the only required fields.

PFI Lab code from lab pick list or enter lab name

	e codes	1=RBC 2=Plasma 5=Either RBC or Plasma			3=Both RBC at 8=Not applicab		4=Not done 9=Unknown		
Result type codes		1=Abnormal compared to lab 3=Normal compared to lab 7=Bad specimen			2=Abnormal co 4=Normal com 8=Not applicab	pared to ba			
PFI	Lab Nam	e	Test Type	Test Date	Numeric Result	Result Type	Lab Low	Lab High	
				/		- J P -			
				/			<u> </u>		
				//					
				/ /					
				f person's acti d follow-up act	vity or situation			posure.	
		ioui, exp	,	a ronorr ap acc	ivity iriiorriation	i. Continu	e on a separ	ate sheet ii	
		——————————————————————————————————————			ivity imormation	. Continu	e on a separ	ate sheet il	
		ear, expe			ivity illiorination	. Continu	e on a separ	ate sheet ii	
					ivity imormation	i. Continu	e on a separ	ate sheet it	
		our, expe	,		ivity imormation	i. Continu	e on a separ	ate sheet if	
ecessary					ivity imormation	. Continu	e on a separ	ate sheet if	

Exposure Information Screen-			
Type of exposure	Route of	exposure	
[] Drift [] Indoor Air []	Contact [] Derma	al [] Ingestion	[] Ocular
[] Spray	Unknown [] Inhala	tion [] Injection	[] Unknown
[] Other			
Intentional? Coding: 1=	Yes, suspected intentional	2=No, unintentional	9=Unknown
			
Date first exposed*/			
Date symptom onset*/	/ Time	(24 Hour Clock)	
Other date/	:	escription	;
* At least one of the following dates (page 12).	must be entered: first exp	osure, symptom onset, o	r laboratory test
Exposure Information Screen-	–Narrative		
Date comments. Indicate any no understanding case chronology.	tes on date of exposure c	onset, report, or lab test p	ertinent to
Exposure Information Screen	-Occupational Inform	ation	
Work related? 1=Yes 2=1 If answer is 3 or 5, skip to PPE Use	•	4=Unknown 5=	=Not Applicable
Job title	60 characters COC tit	le	
Occupation narrative 1	25 Characters CIC title	2	
	25 Grianaciers Gro train		
Industry at time of exposure 1	00 Characters		

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Employer Information—Employer Screen Employer ID_____ Name **Address Line 1** Address Line 2 City State ZIP ______ **Phone** Contact **NAICS** Code Exposure Information Screen—Occupational Information, PPE Use **PPE Use** (Complete this section after interview using codes below.) 1=Used (all or some of PPE required) 5=Not used (unknown requirements) 2=Used (not required) 6=Not used (not required) 3=Used (unknown requirements) 8=Not applicable 4=Not used (some PPE required) 9=Unknown Specific PPE Used Codes: 1=Yes, used 2=No, not used 8=Not applicable 9=Unknown Check one box for each form of PPE. Supplied Air Natural Gloves Respirator Synthetic Gloves **Dust Mask** Goggles **Boots** Engineering Clothing **Worker Protection Standard** If agricultural worker or pesticide handler (farm, nursery, or forestry), for each question indicate if response is (Y)Yes (N) No (U) Unknown/Not asked by circling the letter for the response.

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treated?

a. Did this incident involve entering a treated area (including field or greenhouse)? Y N U

b. If yes, did your employer/crew leader tell you how soon you could go into the area after it was

a. Did this incident involve entering a treated area (including field or greenhouse)?

Exposure Information Screen—Signs and Symptoms

Fill in **Doctor reported** column based on medical records or HCP interview. Final code column should be completed prior to data entry. Codes are listed following the table on page 18. Check all signs or symptoms described, or stated as absent (items in italics should be taken from HCP interview or medical record only).

		Patient	Doctor		Final
System	Sign/symptom	reported	reported	Absent	code
General	Acidosis				
	Alkalosis				
	Fatigue/malaise				
	Fever				
	Increased anion gap				
	Other				
		_			
Cardiovascular	Bradycardia				
	Cardiac arrest				
	Chest pain				
	Conduction disturbance				
	Hypertension				
	Hypotension				
	Palpitations				
	Tachycardia				
	Other	_			
	-	_			
Renal	Frequent urination				
	Oliguria/anuria				
	Blood in urine				
	Proteinuria				
	Other	_			
	-	_			
Neurological	Altered taste				
	Anxiety/hyperactivity/irritability				
	Ataxia /trouble walking				
	Blurred vision				
	Coma				
	Confusion				
	Diaphoresis (profuse sweating)				
	Dizziness				
	Fainting				
	Headache				
	Memory loss				
	Muscle pain				
	Muscle rigidity				
	Muscle twitching/fasciculations				

		Patient	Doctor		Final
System	Sign/symptom	reported	reported	Absent	code
Neurological	Muscle weakness				
(continued)	Paralysis				
	Paresthesias/tingling or numbness				
	Peripheral neuropathy				
	Salivation				
	Seizure				
	Slurred speech				
	Other	-			
		-			
Gastrointestinal	Anorexia (loss of appetite)				
	Constipation				
	Diarrhea				
	GI bleeding (blood in stool or vomit)				
	Nausea				
	Pain				
	Vomiting				
	Other	_			
		_			
Eye	Burns				
	Conjunctivitis (diagnosis)				
	Corneal abrasion				
	Miosis				
	Mydriasis				
	Pain/irritation/inflammation				
	Tearing/lacrimation				
	Other_	_			
		_			
Dermal	Blisters/bullae				
	Burns				
	Edema/swelling				
	Hives				
	Pain				

		Patient	Doctor		Final
System	Sign/symptom	reported	reported	Absent	code
Dermal (continued)	Pattern* of rash or lesions				
	Pruritis (itching)				
	Rash				
	Redness				
	Other				
Respiratory	Asthma (diagnosis of)				
	Cough				
	Cyanosis				
	Depression				
	Difficulty breathing/ shortness of breath				
	LR irritation				
	Pleural pain (pain on deep breathing)				
	Pulmonary edema				
	Tachypnea				
	UR irritation				
	Wheezing				
	Other				

- *Coding for pattern of dermal lesions 1=Corresponds well with physical pattern of exposure
- 2=Discrete patches of lesions do not correspond with the pattern of exposure
- 3=Generalized distribution of lesions on the body
- 4=Absent
- 9=Unknown

Final Codes for All Fields	1=Doctor reported 9=Unknown	2=Exposed person reported	3=Both Dr. and person reported
Exposure Info	ormation Screen—Narr	rative	
Health commen	ts		

Exposure Information Screen—Med	dical Staff
---------------------------------	-------------

Medical ID			
pick list. See HCP	l ID for each medical person i Information on Page 11 and nedical staff information.		taff screen. If not on pick list,
Case Tracking a	nd Closure		
Event Informatio	on Screen—Event Summa	ary	
Violations FIFRA	1 2 3 4 8 9	Were citations for viagencies issued?	iolations of regulations by these
Violations OSHA	1 2 3 4 8 9	1=Violation cited 2=No violation cited	8=Decision not to refer 9=Unknown
Violations Other	1 2 3 4 8 9	3=Citation pending 4=Case refused refer	rral to agency
Referrals	Check if referral made	Date of referral (MM/DD/YY)	Notes
IH Staff			
Ag and Mkt Program			
State Environment			
EPA			
Ag Program			
Other State Pgm.			
Local Health Unit			
Event Informatio Other violation de	on Screen—Comments scriptions		
Violation commen	ts		

Exposure Information Screen—Exposure and Classification

Severity 1 = F	Fatal 2 = H	igh $3 = M$	loderate	4 = Low	8 =Evaluated, not applicable			
A. Documentation of exposure (Put a number in the first box and letter in the second box if appropriate.)								
1 - Confirmed by	- Confirmed by a-envir/bio testing b-professional observation c-biological evidence d-eye/derm signs b-professional observation c-biological evidence							
2 - Reported by	a-case d-nonprofess	ional observati	b-witness		c-application records e-other			
3 - Strong evidence	of no exposur	e						
4 - Insufficient data								
2 - 2+abnorn	ngs by medical nal symptoms exposure findin	staff						
C. Evaluation of causal relationship (Put a number in first box and letter in second box if first box is 1.) 1 - Fits known toxicology a-characteristic (Appendix 2 of case classification) and temporal relationship is plausible b-consistent with literature and known toxicology 2 - Inconsistent with known toxicology 3 - Definitely ruled out (evidence of non-pesticide causal agent) 4 - Insufficient toxicologic information available								
NIOSH Classificati	ion	Alterr	nate Classifica	ation				
Classification cat	egories	1=Definite 2=Probable 3=Possible 4=Suspicious	5	5=Unlikely 6=Insufficien 7=Exposed/A 8=Unrelated				

Exposure Information Screen—Poisoning Attribution

Return to pages 6 - 8 to determine if illness is attributable to products, active ingredients, or substances listed there.

C.4 FIELD INVESTIGATION CONTACT FORM AND HEALTH SAFETY CHECKLIST FOR FIELD PERSONNEL

The following checklist is designed to remind field staff about equipment and safety precautions they need to take when embarking on a field investigation or any form of on-site follow-up. It also ensures that supervisory staff have appropriate contact information for field staff. In addition, PPSPs may decide to use this form when staff are accompanying partner enforcement agency staff. The checklist is to be completed by PPSP personnel BEFORE going out into the field. For team visits, only the team leader is required to complete the form. Team leaders are responsible for ensuring that all team members meet the required checklist items stated below. As with all of the sample forms, this form should be modified to meet the specific needs of the PPSP.

Field Investigation Contact Form and Health Safety Checklist for Field Personnel

(Adapted from California Occupational Health Branch, DHS)

This checklist is to be completed by PPSP personnel BEFORE going out into the field. For team visits, *only* the team leader is required to complete the form. Team leaders are responsible for ensuring that all team members meet the required checklist items stated below.

Directions
1. Fill out Part I .
2. Have it reviewed and signed by your supervisor before the site visit.
3. After the visit, fill out Part II and turn in completed form to supervisor.
4. Supervisors: Forward a copy of this form to
Part I: Pre-Site Visit Checklist
A. Names of PPSP field team members
Date(s) of proposed site visit
B. Emergency Contact Information
Employer name
Type of business
Address
City
Contact person: Name Phone ()
How can you be reached?
Phone number where you are staying (e.g., hotel friend's house, etc.) ()
Hotel name (if applicable)
Cellular Phone number (if applicable) ()
If more than one location, write down team members' locations (use back of page if necessary).
Phone ()

Hotel name (if applicable): ______

Cellular phone no. (if applicable) (_____) _____

Training (hazards, guidelines, regulations)

(1) Will you be potentially exposed to the following hazards? (Check all that apply.)
☐ TB: → PPD of staff performed in past year? ☐ yes ☐ no
Other chemical(s)
Noise
☐ Bloodborne pathogens ☐ no →HBV vaccination completed? ☐ yes ☐ no
Safety (falling objects, electricity, etc.):
□ Violence
Other:
(2) If you checked any of the boxes above, have you had training on how to protect yourself from these hazards? ☐ yes ☐ no → If you answered NO, please talk to your supervisor about how you will obtain appropriate training prior to the site visit.
(3) Have you reviewed applicable regulations and guidelines on likely exposures? □ yes □ no → If you answered NO, please review any applicable regulations and guidelines that are available. If none exist, you should discuss alternative information sources with your supervisor.
Personal Protective Equipment (PPE)
(1) Are respirators required or recommended on this site visit? □yes □ no □ not sure → If NOT SURE, please discuss this with your supervisor.
If you are using a respirator for this site visit, answer a through c. (a) Have team members had
 Respirator medical clearance within the last year? □ yes □ no Respirator training within the last year? □ yes □ no Respirator fit-testing within the last year? □ yes □ no
→ If NO, please discuss this with your supervisor.

(b) Do you have extra cartridges/filters? yes	no
If you are going to wear a PAPR, have you charged th yes no	e battery packs?
(2) Are other PPE required? yes no,	If YES, check all that apply:
	safety shoes or chemical resistant boots) soggles, faceshield) hand protection
Communications Equipment	
(1) If you are traveling to remote areas, do you need a cell(2) Do you have a list of emergency contact numbers (e.g. chief, etc.) to bring with you?	
Employee signature:	Date:
Supervisor signature:	Date:
Part II: Post-Site Visit	
Part II: Post-Site Visit Were there any items missing or not foreseen prior to visit the visits to similar sites?	Review
Part II: Post-Site Visit Were there any items missing or not foreseen prior to visit that visits to similar sites? yes no	Review at should be considered during future
Part II: Post-Site Visit Were there any items missing or not foreseen prior to visit the visits to similar sites?	Review at should be considered during future
Part II: Post-Site Visit Were there any items missing or not foreseen prior to visit the visits to similar sites?	Review at should be considered during future
Part II: Post-Site Visit Were there any items missing or not foreseen prior to visit the visits to similar sites?	Review at should be considered during future
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Part II: Post-Site Visit Were there any items missing or not foreseen prior to visit the visits to similar sites?	Review at should be considered during future

C.5 Instructions for National Transportation Safety Board (NTSB) Search to Obtain Reports of Airplane Accidents Involving Aerial Pesticide Applicators

NTSB maintains data on aviation accidents. The Aviation Synopses can be searched for information about aviation accidents involving aerial agricultural applications. These applications are covered by 14 CFR Part 137. The synopses may be reviewed by searching monthly lists of accidents or performing a query. Make sure your browser is set to accept cookies.

Go to the NTSB website http://www.ntsb.gov/NTSB/query.asp.

The first item on the list is a *Database Query*. First, look at the general instructions for searching, then select the *Database Query* form. Complete the various fields. This includes entering the date range you are interested in, selecting your State, severity, and a specific category of aircraft (if you are searching for a particular accident or type of accident). You can leave the *Operation* category as *All*. In the area labeled *Enter your word string below*, type *137*. Choose *Sort by Date Ascending* unless you want to sort on an option other than date. Click on *Submit Query*. This search strategy should catch all of the agricultural accidents (since applications are regulated by 14 CFR Part 137).

C.6 Sample Templates for Tables Presenting Surveillance Data

1. Work-Relatedness by Case Classification Status

	Definite	Probable	Possible	Suspicious	Total
WORKREL					
Yes					
Possibly					
No					
Unknown					
Total					

2. Cases by Pesticide Type and Case Classification.

Each case should be included only once in this table (excluding the rows and columns of totals). (Note that this tabular presentation can be done separately for occupational and nonoccupational cases or can include occupational status by splitting the case classification columns into occupational and nonoccupational.)

	Definite	Probable	Possible	Suspicious	Total
Pesticide type					
Insecticides-total					
Cholinesterase inhibitors					
Pyrethrin/pyrethroid					
Other insecticides					
Insect growth regulators					
Herbicide/algicide					
Fungicide					
Fumigant					
Rodenticide					
Disinfectant					
Insect repellent					
Other					
Multiple					
Unknown					

3. Occupational Pesticide Injury and Illness Cases by Occupation and Case Classification

	Definite	Probable	Possible	Suspicious	Total
Occupation					
Agriculture—provide total for COC codes 473–499					
List specific agriculture occupations					
Nonagriculture—provide total					
List specific nonagriculture occupations					
TOTAL					

4. Source of case report by gender and case classification

	D	efini	te	Pr	obak	ole	Po	ssib	le	Suspicious			Total		
Sex	М	F	U	М	F	U	М	F	U	М	F	U	М	F	U
Source of Report															
Physician															
Poison control center															
Other health care professional															
Death certificate															
Government agency															
Media report															
Workers Compensation															
Self-report (incl. relative or co-worker)															
Employer															
Other															
Unknown															
Total															

5. Age of cases by gender and case classification (produce this table for occupational and nonoccupational exposure status)

		efinit	е	Р	robab	le	Р	ossib	le	s	uspici	ous	Total		
Sex	М	F	U	М	F	U	М	F	U	М	F	U	М	F	U
Age															
<10															
11–14															
15–17															
18–29															
30–39															
40–59															
60–79															
80+															
Unknown															
Total															

C.7 SAMPLE LETTERS FOR PPSP CASE FOLLOW-UP

The following sample letters are provided as templates that PPSPs can modify to meet their specific needs and legal requirements.

- Thank-you letter to an HCP who reports a case
- A request for cooperation to an HCP who failed to report a case
- A request to an HCP for medical records
- A letter to an employer regarding an upcoming site inspection

THANK-YOU LETTER TO HCP WHO REPORTED CASE

[Agency Letterhead]

DATE

INSIDE ADDRESS

Re: [case number]

Dear [insert HCP name]:

Thank you for the information you recently provided regarding the illness and possible pesticide exposure of [insert patient name]. Your report helps us to identify pesticide products and practices that may affect public health, as well as provide exposure prevention information to affected individuals.

If you would like further information about this case, the [insert agency name] [insert surveillance program name], or other State agency resources, please call me at [insert phone number]. [Option—include a copy of the EPA Recognition and Management of Pesticide Poisonings]

Sincerely,

REQUEST FOR COOPERATION LETTER TO HCP WHO FAILED TO REPORT CASE

[Agency Letterhead]	
DATE	
INSIDE ADDRESS	
Re: [patient]	Case number:

Dear [insert HCP name]:

The [insert agency name] is currently investigating a reported pesticide-related illness of your above-named patient. (We have been in touch with a member of your staff regarding the observable signs, diagnosis, and treatment of the individual.) The [surveillance program name] routinely identifies and investigates illnesses and injuries associated with pesticide exposure.

Suspected pesticide poisoning is a reportable condition in the [insert State name]. Health care providers are required by [insert rule reference] to report acute or subacute conditions that are caused by, or suspected of being caused by, pesticide exposure. All medical details and the person's identity are kept confidential. Resources and referrals are available to the reporting provider and the patient, including exposure prevention information.

Your report helps us identify pesticide products or practices that may affect public health. Your cooperation in reporting any future pesticide-related illnesses is appreciated. If you would like further information about the program, please contact us at [insert phone number]. [Option—include a copy of the EPA Recognition and Management of Pesticide Poisonings.]

Sincerely,

MEDICAL RECORDS REQUEST LETTER

[Agency Letterhead]
DATE
INSIDE ADDRESS

Re: [case number]

Dear [insert HCP name]:

This letter is sent by [agency name (agency abbreviation)] to request medical records relevant to illness investigations conducted by the [agency abbrev.]. The [agency] collects medical records in accordance with State law. Copies of relevant sections of State code are attached for your convenience.

The [agency] has received a notice of pesticide-related illness involving the patient listed below and requests copies of any medical information (including chart notes and laboratory test results) that you might have.

[First name Last name, SSN, DOB; injured on: date; seen on: date]

Please also check your records for any information you have on other patients seen on the same date, or within several days before or after, who may have a pesticide-related illness or injury associated with the same exposure incident. Please provide copies of any such records to the [agency].

Please mail or fax these records to the return address indicated above. If you have any questions, please call me at [insert phone number]. Thank you for your cooperation in providing the requested information.

Note that the [agency name] is an agency of [parent authority, e.g., the State of _____] and is conducting pesticide poisoning surveillance in its capacity as a public health authority as defined by the Health Insurance Portability and Accountability Act (HIPAA), Standards for Privacy of Individually Identifiable Health Information; Final Rule (Privacy Rule) [45 CFR 164.501]. Persuant to 45 CFR 164.512(b) of the Privacy Rule, covered entities such as your organization may disclose, without individual authorization, protected health information to public health authorities ". . .authorized by law to collect or receive such information for the purpose of preventing or controlling disease, injury, or disability, including, but not limited to, the reporting of disease, injury, vital events such as birth or death, and the conduct of public health surveillance, public health investigations, and public health interventions . . ." The information being requested represents the minimum necessary to carry out the public health purposes of pesticide poisoning surveillance pursuant to 45 CFR 164.514(d) of the Privacy Rule.

Sincerely,

LETTER TO EMPLOYER REGARDING AN UPCOMING SITE INSPECTION

[Agency Letterhead]

DATE

INSIDE ADDRESS

Re: Site inspection scheduled for [date]

Dear [name]:

Thank you for your cooperation with the [agency name] investigation of illness reports among employees at [company name]. We are writing to confirm our meeting and to provide you with logistical and other information about our investigation. The meeting will take place at [insert location].

Based on phone conversations with [person's name (date)], it is our understanding that the following persons will be present at the meeting: [names and titles]. In addition to ourselves, [list any additional names and titles] working with [agency and program name] on pesticide illness tracking will also attend our meeting.

Background: [agency] is mandated to investigate the causes of morbidity and mortality from work-induced diseases and develop recommendations for improved control of work-induced diseases [code reference] [Modify sentence as needed to reflect agencies' authority]. In contrast to [State] - OSHA, [program name] is not an enforcement agency, and we do not issue citations. [agency] initiated this investigation in response to physician reports of illness among [worker types] potentially exposed to pesticides as a result of [work activity or task]. Between [dates], [agency] received [insert number] incident reports involving a total of [insert number] workers. [Give reason there is concern about the reports.]

Purpose: The purpose of our on-site field investigation on [date] is to gather information and make observations about [activity] practices at [company name].

Process: The process for the [date] site visit will be an opening conference for introductions, a review of the purpose, scope, and methodology of our investigation, and an opportunity for company and worker representatives to ask us questions. We will then conduct an on-site observation of [process, site, or activity]. We will walk through the [facility type], at which time we will ask [company name] representatives to provide a detailed explanation of the pesticide application process including local ventilation conditions at the time of the application. We will ask worker representatives for their knowledge of the process as well. We will take photographs. The site visit will end with a closing conference at which time we will summarize our progress in the investigation and answer any additional questions you may have. We anticipate that the site visit will take about four hours (assuming that we will have received much of the information/documentation about the application from [company name] prior to the site visit).

Scope: The scope of [agency] investigation is limited to [describe scope]. The limited nature of [agency name's] investigation does not imply there are, or are not, other safety and health issues at the workplace.

Methodology: [agency name] will evaluate and classify [worker or specific worker job type] illness reports according to criteria established by the National Institute for Occupational Safety and Health (NIOSH). Enclosed is a copy of these criteria. They are also available at http://www.cdc.gov/niosh/pestsurv/pdfs/pest-casdef2000.pdf. Worker exposure to pesticides will be assessed utilizing data from (1) interviews with employees, employee representatives, and employer representatives; (2) work-site observations and interviews with company and employee representatives regarding the work process, tasks, and exposure control measures; (3) review of medical records, policy and procedures, and other written materials; and (4) a review of the relevant scientific literature. [Agency] will attempt to conduct a voluntary interview with all workers with a reported illness at the worker's home by phone. Employer interviews will be conducted at the work-site and by phone as needed.

Exposure control measures will be evaluated according to the presence, use, and efficacy of standard industrial hygiene hierarchy of controls (i.e., engineering, administration, and personal protection). Recommendations to prevent illness will be based on a public health approach; i.e., primary, secondary, and tertiary measures. To the extent possible, it is normal practice for [agency] to direct each of our recommendations to the persons or groups that have the authority to implement change.

Our investigation will be conducted independently of regulatory agencies. However, if while at a workplace, we observe a condition that could reasonably be expected to cause death or serious physical harm immediately (that is, an imminent hazard), we are obliged to notify the employer and affected workers of the hazard and to notify [State name]-OSHA and/or other appropriate agencies. In practice, circumstances that would require a referral to an enforcement agency have almost never been encountered by [agency] investigators. The investigation may not identify all hazards or violations of good practice within the scope of the practices reviewed Allowing [agency] to conduct the investigation and/or following recommendations made in the investigation report will not exempt [company name] or the worksite from an enforcement inspection or regulatory compliance.

At a minimum, all of [agency's] findings and recommendations to prevent illness will be reported in writing in a timely manner to the incident cases, reporting physicians, employee representatives, and [company name]. Publications may also be disseminated to other interested parties, such as health and safety professionals, industry-based organizations, government agencies, and labor unions. Our report will not contain any personal-identifying information about individual workers. Although not confidential information, our publications for general distribution do not usually specify the name of the employer.

Specific information we are seeking from [company name]: In order to make the best use of your time during our site visit, we are providing you with a list of the questions and information we will request from [company]. We will also have additional questions based on what we learn from you. All of the information requested below relates to the time period covered by the scope of this investigation ([date range]), except where otherwise indicated.

[list questions]

We have tried to compile a comprehensive list of questions and sources of information that are relevant to this investigation. However, it is likely that we have omitted something. Please do not hesitate to provide any other data that you are aware of that may be useful in understanding the work process of [process, site, or activity being investigated]. Also, please note if certain data are not available, as it is important for us to understand where there may be gaps in data.

We appreciate your time and participation in the [agency] investigation. It is our goal that the information collected will contribute to our ability to determine the severity and extent of the potential problem and identify possible causes and solutions. Please contact [name] by e-mail ([e-mail address]) or phone ([phone number]) if you have any questions. We look forward to meeting you on [date].

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cc:

Enclosures

C.8 Instructions for Obtaining Acute Pesticide-Related Illness and Injury Reports From Poison Control Centers (PCCs)

- A. Obtaining the annual number of incident cases
 - 1. Contact your local PCC. Contact information can be obtained from the American Association of Poison Control Centers at http://www.aapcc.org/director2.htm. Some States have more than one PCC.
 - 2. Include in-State residents and those of unknown residence.
 - 3. Determine if the PCC uses the Toxicall® data system.
 - a. If YES, go to step A.4.
 - b. If NO, go to step A.5.
 - 4. If the PCC uses Toxicall®, ask the PCC to run Report 57.
 - a. To obtain occupational cases only: Cases should either have reason for the call (ExpReason) = 3 (occupational) OR exposure site (ExpSite) = 3 (workplace).
 - b. To obtain all acute pesticide-related illnesses and injuries: Neither ExpReason nor ExpSite need to be specified.
 - c. To calculate incidence rates, go to *B. Estimating the Total Population at Risk (denominator)*.
 - 5. If the PCC does not use Toxicall® or if it cannot generate Report 57, determine if the PCC will provide a data set of all received calls.
 - a. If YES, go to Step A.6.
 - b. If NO, go to Step A.7.
 - 6. If the PCC can provide a data set of all received calls, query the data set to identify cases that meet the following criteria:
 - a. Exposure to an agent included in one of the pesticide generic categories

(SubGenricCode) =

Disinfectants

0201008 disinfectant industrial cleaner

0201055 bromine water/shock treatment

0201056 chlorine water/shock treatment

0042281 hypochlorite disinfectant: hypochlorite, non-bleach product

0040280 phenol disinfectant: phenol (e.g., Lysol)

0039282 pine oil disinfectant

0077286 other/unknown disinfectant:

Fungicides (nonmedicinal)

0243566 carbamate fungicide

0201033 copper compound fungicide

0077564 mercurial fungicide

0077565 non-mercurial (inactive) fungicide

0253000 phthalimide fungicide

0254371 wood preservative

0077566 other/unknown (inactive) nonmedicinal fungicide

0201034 other nonmedicinal fungicide

0201035 unknown nonmedicinal fungicide

Fumigants

0201036 aluminum phosphide fumigant

0201037 metam sodium (fumigant, fungicide, or herbicide)

0201038 methyl bromide (fumigant, fungicide, or herbicide)

0201039 sulfuryl fluoride fumigant

0201040 other fumigant

0201041 unknown fumigant

Herbicides (includes algicides, defoliants, dessicants, plant growth regulators)

0201054 algicide

0254370 anti-algae paint

0243561 carbamate herbicide

0017000 2,4-d or 2,4,5-t (inactive)

0201042 chlorophenoxy herbicide

0049562 diquat

0201043 glyphosate

0049000 paraquat

0049561 paraquat/diquat combination

0077121 plant hormone

0213000 triazine herbicide

0215000 urea herbicide

0077561 other herbicide

0077567 unknown herbicide

Insecticides (includes insect growth regulators, molluscicides, nematicides)

0004562 arsenic pesticide

0062562 borate/boric acid pesticide

0070000 carbamate only (alone)

0070560 carbamate with other insecticide

0050000 chlorinated hydrocarbon only (alone)

0050560 chlorinated hydrocarbon with other insecticide

0201044 insect growth regulator

0172000 metaldehyde (molluscicide)

0208562 nicotine (excluding tobacco products)

0038000 organophosphate

0038560 organophosphate/carbamate combined

0038561 organophosphate/chlorinated hydrocarbon (inactive)

0038562 organophosphate/other insecticide

0038563 organophosphate/carbamate/chlorinated hydrocarbon (inactive)

0176000 piperonyl butoxide only (inactive)

0144000 piperonyl butoxide/pyrethrin (inactive) (without carbamate or o.p.)

0144001 pyrethrins only (inactive)

0201045 pyrethrin

0201046 pyrethroid

0145000 rotenone

0077568 veterinary insecticide (inactive) (for pets—flea collars, etc.)

0077562 other insecticide

0077569 unknown insecticide

Repellents

0201047 bird, dog, deer, or other mammal repellent

0201048 insect repellent with DEET

0201049 insect repellent without DEET

0218000 insect repellent: unknown (inactive)

0033000 naphthalene moth repellent

0050430 paradichlorobenzene moth repellent

0077431 other mothball or moth repellent

0077430 unknown mothball or moth repellent

Rodenticides

0174000 antu

0048563 anticoagulant: warfarin-type anticoagulant rodenticide

0048564 anticoagulant: long-acting, superwarfarin anticoagulant rodenticide

0244577 barium carbonate barium carbonate containing rodenticides

0201050 bromethalin

0201051 cholecalciferol rodenticide

0012563 cyanide rodenticide (excluding industrial or misc. chemical)

0162000 monofluoroacetate 1080/monofluoroacetate/smfa

0043000 strychnine rodenticide

0197000 vacor/pnu

0201052 zinc phosphide

0217000 thallium

0077563 other rodenticide

0077577 unknown rodenticide

- b. Medical outcome (MedicalOutcome) is coded into one of the following values:
 - 201=minor effect
 - 202=moderate effect
 - 203=major effect
 - 204=death
 - 206=not followed, minimal clinical effects possible
 - 207=unable to follow, judged as a potentially toxic exposure
- c. Request specific values for ExpReason and ExpSite, if needed.
 - (1) To obtain occupational cases only: Cases should either have reason for the call (ExpReason) = 3 (occupational) OR exposure site (ExpSite) = 3 (workplace).
 - (2) To obtain all acute pesticide-related illnesses and injuries: Neither ExpReason nor ExpSite need to be specified.
- 7. Using the case number, delete any duplicate cases.
- 8. Tally the total number of cases that meet the criteria.
- 9. If interested in calculating an incidence rate, go to *B. Estimating the Total Population at Risk (denominator)*.
- 10. If the PCC will not provide a data set:
 - a. Ask the PCC to tally the number of cases that meet the criteria in A.6.a through A.6.d.
 - b. If interested in calculating a rate, go to "B. Estimating the Total Population at Risk (denominator)."
- B. Estimating the Total Population at Risk (denominator for rate calculations)
 - 1. Determine whether the rate is for acute occupational pesticide-related illness and injury, or for all acute pesticide-related illness and injury.
 - a. If for acute occupational pesticide-related illness and injury, go to B.2.
 - b. If for all acute pesticide-related illnesses and injuries, go to B.3.
 - 2. To obtain the denominator for an occupational case rate:
 - a. Go to Current Population Statistics: http://www.bls.gov/opub/gp/laugp.htm.
 - b. Select Section II: Estimate for States.
 - c. Select *Table 12. Employment status of the civilian noninstitutional population by sex*, age, race, and Hispanic origin.
 - d. Find your State from the first column.
 - e. Read the *Total* row for your State and the 4th column—*Employment Number*. This is the *Number of Employer Persons 16 years of age or older* (in thousands). Multiply by 1000.
 - f. Go to C. Calculating the annual incidence rate.

- 3. To obtain the denominator for the total population case rate:
 - a. Use the US Census standard population. The most recent figures can be found at http://quickfacts.census.gov/qfd/index.html.
 - b. After selecting your State, total population estimates will be provided.
 - c. Go to C. Calculating the annual incidence rate.
- C. Calculating the annual incidence rate
 - 1. Divide the numerator (A) by the denominator (B).
 - 2. Multiply this result by 100,000 to get the annual rate per 100,000 persons.