

Pollinator Protection Investigations and Issues

Please identify your state	
Answer Options	Response Count
ALABAMA	1
ALASKA	1
AMERICAN SAMOA	0
ARIZONA	1
ARKANSAS	1
CALIFORNIA	1
COLORADO	1
CONNECTICUT	1
DELAWARE	0
DISTRICT OF COLUMBIA	1
FLORIDA	1
GEORGIA	1
HAWAII	0
IDAHO	0
ILLINOIS	0
INDIANA	1
IOWA	1
KANSAS	0
KENTUCKY	0
LOUISIANA	1
MAINE	1
MARSHALL ISLANDS	0
MARYLAND	1
MASSACHUSETTS	0
MICHIGAN	1
MINNESOTA	1
MISSISSIPPI	0
MISSOURI	0
MONTANA	0
NEBRASKA	1

NEVADA	0
NEW HAMPSHIRE	1
NEW JERSEY	1
NEW MEXICO	1
NEW YORK	1
NORTH CAROLINA	1
NORTH DAKOTA	1
OHIO	1
OKLAHOMA	0
OREGON	1
PENNSYLVANIA	1
PUERTO RICO	0
RHODE ISLAND	0
SOUTH CAROLINA	0
SOUTH DAKOTA	1
TENNESSEE	0
TEXAS	0
UTAH	1
VERMONT	1
VIRGIN ISLANDS	0
VIRGINIA	1
WASHINGTON	1
WEST VIRGINIA	0
WISCONSIN	1
WYOMING	0
<i>answered question</i>	33
<i>skipped question</i>	0

Pollinator Protection Investigations and Issues

Please type in your name and
title and organization

Answer
Options

Name

Title

Organizatio

answered question

skipped question

Number	Name	Title	Organization
1	Steven Dwinell	Assistant Director, Division of Agricultural Environmental Services	Florida Department of Agriculture and Consumer Services
2	Leo Donovall	Plant Inspection Program Specialist - State Apiarist, Invasive Species Council Coordinator	Pennsylvania Department of Agriculture
3	Allen Fabre	Admin. Coordinator of Apiary Program	Louisiana Department of Agriculture and Forestry
4	Gretchen Paluch	Pesticide Bureau Chief	Iowa Department of Agriculture and Land Stewardship
5	Sunny Jones	Pesticide Compliance Program Specialist	Oregon Dept. of Agriculture
6	Dennis Barclift	Plant Pest Administrator	Alabama Dept. of Agriculture and Industries
7	Brian Rowe	Pesticide Section Manager	Michigan Department of Agriculture and Rural Development
8	Bonnie Rabe	Division Director	New Mexico Department of Agriculture
9	Roy Meyer	Bureau Chief	New Jersey Dept Environmental Protection, Bureau of Pesticide Compliance
10	David J. Rousseau	Director	New Hampshire Division of Pesticide Control
11	Brad Robinson	Program supervisor	Pesticide Program, Connecticut Dept. of Energy & Environmental Protection
12	Anthony Lamanno	Chief, Pesticide Compliance Section	New York State Department of Environmental Conservation
13	Joshua Wiley	Program Manager - Pesticide Section	Georgia Department of Agriculture
14	Doug Edwards	Supervisor, Enforcement & Field Operations	Virginia Dept. of Ag. & Consumer Services - OPS

15	Richard Bireley and Michael Zeiss	Senior Environmental Research Scientist and Senior Environmental Scientist	California Department of Pesticide Regulation
16	Mary Begin	Chief, Hazardous Materials Branch	District of Columbia Department of the Environment
17	James Belt	Pesticide & Fertilizer Inspection Manager	Ohio Department of Agriculture
18	Clark Burgess	Manager	Utah Dept of Ag and Food
19	Jennifer Heaton-Amrhein	Chief, Pesticide, Feed and Fertilizer Programs Section	Wisconsin Department of Agriculture, Trade and Consumer Protection
20	Terry Walker	Director Plant Industry Div.	Arkansas State Ant Board
21	Stephen G. Parise	Agricultural Production Specialist	Vermont Agency of Agriculture
22	John Scott	Pesticides Program Manager	Colorado Dept. of Agriculture, Division of Plant Industry
23	Blake Schaan	Pesticide Enforcement Supervisor	North Dakota Dept. of Agriculture
24	Tim Creger	Pesticide/Fertilizer Program Manager	Nebraska Department of Agriculture
25	John Peckham	Manager - Inspection & Enforcement	Minnesota Department of Agriculture - PFMD
26	J. Patrick Jones	Dep. Dir. of Pesticide Programs	North Carolina Department of Agriculture and Consumer Services - Structural Pest Control & Pesticides
27	Henry Jennings	Director	Maine Board of Pesticides Control
28	Jack Peterson	Associate Director, Environmental Services Division	Arizona Department of Agriculture
29	Karin Hendrickson	Pesticide Control Program	Alaska Dept. of Environmental Conservation
30	Brad Berven	Administrator	South Dakota Department of Agriculture
31	Cliff Weed	Compliance Program Manager	Washington State Dept. Of Agri. (WSDA)
32	Dave Scott	pesticide administrator	Office of Indiana State Chemist
33	Dennis Howard	Program Manager, Pesticide Regulation Section	Maryland Department of Agriculture

Pollinator Protection Investigations and Issues

Please identify a primary contact for obtaining information on beekeeping practices in your state.

Number	Agency	Contact Name	Title	Phone Number	Street Address	City	Zip Code	Email Address	Comments
1	Florida Department of Agriculture and Consumer Services	David Westervelt	Assistant Bureau Chief PIPS - State Apiarist, PISC Coordinator	(352) 395-4636	DOYLE CONNER BUILDING, 1911 SW 34TH STREET	Gainesville	32614-7100	David.Westervelt@freshfromflorida.com	
2	PA Department of Agriculture	Leo Donovall	Admin. Coordinator of Apiary Program	717-772-5225	2301 North Cameron Street	Harrisburg	17055	ldonovall@pa.gov	
3	Louisiana Department of Agriculture and Forestry	Allen Fabre	President	225-952-8054	5825 Florida Blvd.	Baton Rouge	70806	allen_f@ldaf.state.la.us	
4	Oregon State Beekeepers Association	Jan Lohman	Extension Apiculture specialist	541-567-3209	77225 Colonel Jordan Rd	Hermiston	97838	vazzafarms@yahoo.com	
5	Auburn University Cooperative Extension system	Dr. Jim Tew							
6	Michigan Department of Agriculture and Rural Development	Mike Hansen	State Apiarist	269-429-0669	717 St. Joseph Drive #186	St. Joseph	49085	hansenmg@michigan.gov	
7	NMDA AES Division - Nursery Industries Section	Greg Watson	Program Manager	575-646-1867	3190 S. Espina	Las Cruces	NM	gwatson@nmda.nmsu.edu	
8	NJ Dept of Agriculture, Division of Plant Industry	Tim Schuler	State Apiarist Director/State Entomologist	609-406-6939	PO Box 330	Trenton, New Jersey	08625-0330	tim.schuler@ag.state.nj.us	
9	New Hampshire Division of Plant Industry	Piera Siegert	Entomology Department Head	(603) 271-2561	25 Capitol Street	Concord	03302-2042	Piera.Siegert@agr.nh.gov	
10	Connecticut agricultural experiment station	Dr. Kirby Stafford		203/974-8485	123 Huntington St	New Haven	6504	kirby.stafford@ct.gov	
11	New York State Department of Agriculture and Markets	Paul Cappy	Apiculturist	518-457-2087	10B Airline Drive 1109 Experiment Street;	Albany	12235	paul.cappy@agriculture.ny.gov	
12	Georgia Dept of Agriculture - Plant Protection	Mike Evans	Program Director	770-228-7215	Redding Bldg.	Griffin, GA	30223	Mike.Evans@agr.georgia.gov	
13	VDACS - Office of Plant Industry Services	Keith Tignor	Scientist II	804-786-8938 530-752-0472 (Mussen) or 209-545-5359	102 Governor Street	Richmond	23219	keith.tignor@vdacs.virginia.gov	State Apiarist Dr. Mussen serves as the Apiculturist for CSBA, Inc. No specific beekeeper practices in DC
14	California State Beekeepers Association, Inc.	Dr. Eric Mussen	Extension Apiculturalist, Univ. of CA Davis	(Association)	5307 Jeppson Court	Salida CA	95368	ecmussen@ucdavis.edu	
15	District Department of the Environment	Alvin Harris	Entomologist					alvin.harris@dc.gov	
16	Ohio Department of Agriculture	Barbara Bloetscher	State Entomologist	614-644-5839	8995 E Main St Bldg 23	Reynoldsburg	43068	bbloetscher@agri.ohio.gov	
17	Wisconsin Department of Agriculture, Trade and Consumer Protection	Liz Meils	Specialist (state Apiarist)	608-224-4572	2811 Agriculture Drive	Madison	53718	elizabeth.meils@wisconsin.gov	
18	Ark State Plant Board	Mark Stoll	Program Manager Agricultural Production Specialist	501-225-1598	1 Natural Resources Dr.	Little Rock, Ar	72205	mark.stoll@aspb.ar.gov	
19	Vermont Agency of Agriculture	Stephen G. Parise		802-828-2426	116 State Street	Montpelier	05620-2901	steve.parise@state.vt.us	John did all of the Beekeeper surveys in 12 & 13 for USDA
20	Colorado Dept. of Agriculture, Division of Plant Industry	John Kaltenbach	CAPS Coordinator Plant Industries Division Director, State Apiary Inspector	303-239-4131	700 Kipling St, Suite 4000	Lakewood	80215	John.Kaltenbach@ag.state.co.us	
21	ND Dept. of Agriculture	Judy Carlson		701-328-4997	600 E Blvd Ave., Dept. 602	Bismarck	58505	jcarlson@nd.gov	Dr. Ellis is preparing for part-time retirement
22	University of Nebraska - Lincoln	Dr. Marion Ellis	Professor of Entomology Manager - Inspection & Enforcement	402-472-8696	210 Plant Industry - East Campus	Lincoln, NE	68583	mellis3@unl.edu	
23	Minnesota Department of Agriculture	John Peckham	Apiary Inspection Supervisor	651-201-6276	625 Robert Street North	St. Paul, MN	55155	john.peckham@state.mn.us	
24	NCDA&CS - Plant Industry Div. - Plant Protection Section	Don Hopkins		919-233-8214	950 E. Chatham St.	Cary	27511	don.hopkins@ncagr.gov	
25	Maine Department of Agriculture	Tony Jadczyk	State Apiarist	207-287-7562	28 State House Station	Augusta	04333-0028	Anthony.m.jadczyk@maine.gov	

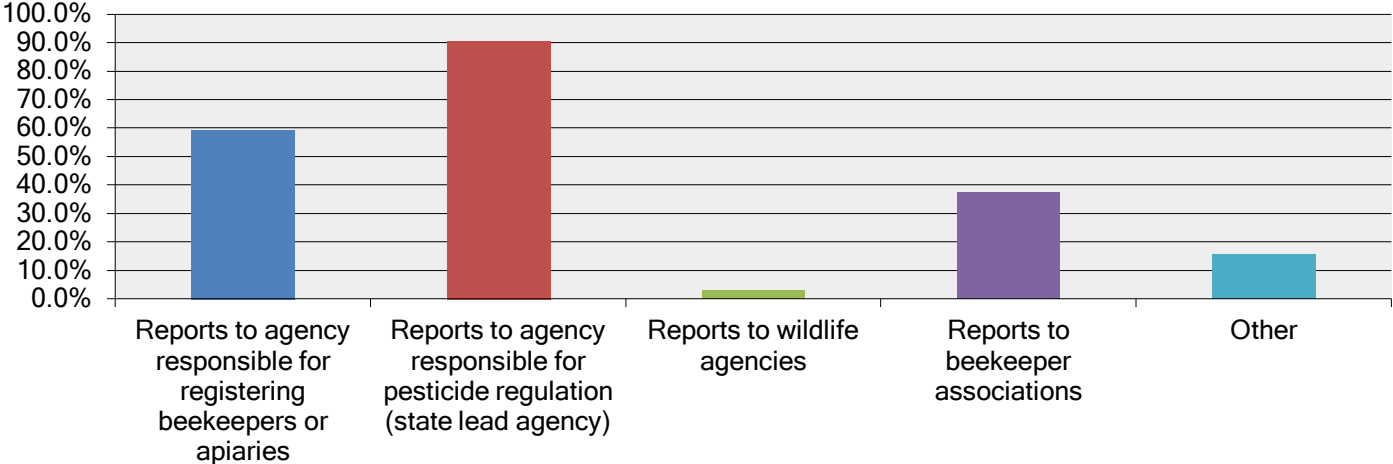
	Department of Natural Resources, Div. of				1800 Glenn Highway, Suite							
26	Agriculture	Doug Warner		907-745-7112	12	Palmer		99645	douglasw@dnr.state.ak.us			
27	South Dakota Department of Agriculture	Brad Berven	Administrator	605.773.4432	523 East Capitol Avenue	Pierre	SD		brad.berven@state.sd.us			
28	Washington State Department of Agriculture	Cliff Weed	Compliance Program Manager	360-902-2036	P.O. Box 42589	Olympia, Wa		98504-2589	cweed@agr.wa.gov			
29	Purdue CES	Greg Hunt	Professor	765-494-4605	Dept. of Entomology, Purdue	West Lafayette, IN		47907	ghunt@purdue.edu			has conducted some pesticide bee kill research
30	Iowa Department of Agriculture and Land Stewardship	Andrew Joseph	State Apiarist	515-725-1481	2230 South Ankeny Blvd, Iowa Lab Facility	Ankeny		50023	andrew.joseph@iowaagriculture.gov			
31	Maryland Department of Agriculture	Jerry Fischer	Apiary Inspector	410-841-5920	50 Harry S. Truman Parkway	Annapolis		21401	jerry.fischer@maryland.gov			

Pollinator Protection Investigations and Issues

How are bee kills most commonly reported by beekeepers in your state? Please check all that apply.		
Answer Options	Response Percent	Response Count
Reports to agency responsible for registering beekeepers or apiaries	59.4%	19
Reports to agency responsible for pesticide regulation (state lead agency)	90.6%	29
Reports to wildlife agencies	3.1%	1
Reports to beekeeper associations	37.5%	12
Other	15.6%	5
Comments		11
answered question		32
skipped question		2

State	Comments	Categories
LA	Reports to other beekeepers or to agency (local or state) responsible for application at time of incident	
CA	County Agricultural Commissioners, which in California have primary responsibility for enforcing pesticide-use regulations.	
DC	We have not received complaints specific to "bee kills" but do receive inquiries from time to time regarding beekeeping	
WI	Same agency	
AR	If kill is suspected to be the result of chemical misuse, the report would go to the pesticide division of the Plant Board.	
CO	Some may not be reported, even when pesticides may be suspected.	
ND	It seems like either, or, whichever one they think of first.	
AZ	Bees are not regulated in AZ. There is no association, there is no registration.	
AK	unaware of any bee kills in alaska.	
SD	One in the same.	
IN	Prior to 2011 most complaints never made it to OISC. After 2011 outreach & CES referrals, OISC got 8 bee kill complaints in 2012.	

How are bee kills most commonly reported by beekeepers in your state?



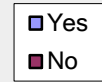
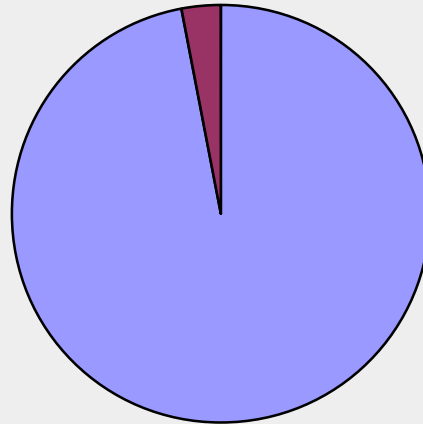
Pollinator Protection Investigations and Issues

Does your state investigate bee kill complaints? If so, please complete the rest of the survey. If not, please complete question 13 and 14.

Answer Options	Response Percent	Response Count
Yes	97.0%	32
No	3.0%	1
Comments		8
<i>answered question</i>		33
<i>skipped question</i>		1

State	Comments	Categories
CA	The state systematically tracks investigations of 1) any bee kills reported directly to the state, and 2) reports to County Agricultural Commissioners (CAC's) of bee kills resulting in economic losses of \$20,000 or more. In contrast, the state does not systematically track investigations of bee kills <\$20,000 that were reported directly to a CAC.	
DC	We investigate ALL complaints	
OH	If they believe it is related to exposure to pesticides Belt handles it. If they don't believe it is related to pesticides Bloetscher handles it	
WI	We receive very few, but investigate those we receive	
AR	If kills are reported as suspected Chemical misuse.	
VT	If we have any.	
AK	We have never received a complaint, but we would follow up if one came in.	
IN	...if pesticides are suspected.	

Does your state investigate bee kill complaints?



Pollinator Protection Investigations and Issues

Please identify a contact responsible for investigating reports of bee kills. If more than one agency or office in an agency could be involved, please provide contact information for that agency or office also

Number	Primary Agency	Name	Title	Phone Number	Street Address	City	Zip Code	Email Address	Secondary Agency	Name	Title	Phone Number	Street Address	City	Zip Code	Email Address	Additional Comments
1	Florida Department of Agriculture and Consumer Services	Kelly Friend	Acting Bureau Chief	850-528-5346	3125 Conner Boulevard	Tallahassee	32399	kelly.friend@freshfromflorida.com									
2	PA Department of Agriculture	Leo Donovall	PIPS - State Apiarist,	717-772-5225	2301 North Cameron Street	Harrisburg	17110	ldonovall@pa.gov	Pennsylvania Department of Agriculture	Joe Uram	Pesticide Enforcement Specialist	717-772-5212	2301 North Cameron Street	Harrisburg	17110	juram@pa.gov	initial investigation conducted by State Apiarist; once determined that pesticide kill is probable/possible cause, Pesticide Enforcement Specialist conducts an incident investigation
3	Louisiana Department of Agriculture and Forestry	Lisa Geautreux	Admin. Coordinate Pesticide Program	225-925-3763	5825 Florida Blvd.	Baton Rouge	70806	lisa_g@ldaf.state.la.us									
4	Oregon Department of Agriculture - Pesticides Program			503-986-4635	635 Capitol ST NE	Salem	97301										
5	AL dept of AG/ Plant Protection Section/Apiary unit	Dennis Barclift	Plant Pest Administrator	334-240-7225	1445 Federal Drive	Montgomery	36117	dennis.barclift@agj.alabama.gov	AL dept of AG/ Pesticide Mgt	Tony Cofer	administrator	334-240-7237	1445 Federal Drive	Montgomery	36107	tony.cofer@agj.alabama.gov	
6	Michigan Department of Agriculture and Rural Development	Brian Rowe	Manager	517-373-4905	P.O. Box 30017	Lansing	48909	roweb@michigan.gov									
7	NMDA	Cecilia Owen	Program Manager	575-645-2799	3190 S. Espina	Las Cruces		cowen@nmda.nmsu.edu									
8	NJ Dept Environmental Protection, Bureau of Pesticide Compliance	Roy Meyer	Bureau Chief	609-984-6982	401 E State St	Trenton, New Jersey	08625	roy.meyer@dep.state.nj.us									
9	New Hampshire Division of Plant Industry	Piera Siegert	Director/State Entomologist	(603) 271-2561	25 Capitol Street	Concord	03302-2042	Piera.Siegert@agr.nh.gov									
10	New York State Department of Agriculture and Markets	Paul Cappy	Apiculturist	518-457-2087	108 Airline Drive	Albany	12235	paul.cappy@agriculture.ny.gov	New York State Department of Environmental Conservation	Anthony Lamanno	Chief, Pesticide Compliance Section	518-402-8727	625 Broadway	Albany	12233-7254	pestcomp@gw.dec.state.ny.us	
11	Georgia Dept. of Agriculture - Plant Protection	Mike Evans	Program Director Supervisor,	770-228-7215	1109 Experiment Street, Redding Bldg.	Griffin, GA	30223	Mike.Evans@agr.georgia.gov	Georgia Department of Agriculture - Pesticide Division	Joshua Wiley	Manager - Pesticide Division	404-656-4958	19 MLK Jr. Dr., SW Room 410	Atlanta, GA	30334	Joshua.Wiley@agr.georgia.gov	
12	VDACS - Office of Pesticide Services	Douglas Edwards	Enforcement & Field Operations	804-371-6560	102 Governor Street - P.O. Box 1143	Richmond	23219	douglas.edwards@vdacs.virginia.gov									
13	California Department of Pesticide Regulation	Louis Watson	Senior Special Investigator, Enforcement Branch	916-445-3894	1001 I Street	Sacramento CA	95812	lwatson@cdpr.ca.gov	County Agricultural Commissioner within each county		[county specific; see Additional Comments]	[county specific; see Additional Comments]	[county specific; see Additional Comments]	[county specific; see Additional Comments]	[county specific; see Additional Comments]	[county specific; see Additional Comments]	Ag Commissioner contact info posted on <http://www.cdpr.ca.gov/exec/county/countymap >
14	District Department of the Environment	Alvin Harris	Entomologist		1200 First Street, NE	Washington, DC	20002	alvin.harris@dce.gov									
15	Utah Dept of Ag. & Food																
16	Wisconsin Department of Agriculture, Trade and Consumer Protection	Linda Boswell	Chief, Investigation and Compliance Section	608-224-4527	2811 Agriculture Drive	Madison	53718	linda.boswell@wisconsin.gov									
17	State Plant Board-pesticide division	Brandi Reynolds	Assistant Division Director	501-225-1598	1 Natural Resources Dr	Little Rock, AR	72205	Brandi.reynolds@aspb.ar.gov	ASPB	Mark Stoll	Apiary Section Manager	501-225-1598	1 Natural Resources Dr	Little Rock, AR	72205	mark.stoll@aspb.ar.gov	
18	Vermont Agency of Agriculture	Cary Giquere	Agrichemical Management Section Chief	802-828-6531	116 State Street	Montpelier	05620-2901	cary.giquere@state.vt.us									
19	Colorado Dept. of Agriculture, DPI	Matthew Lopez	Pesticide Enforcement Program Manager	303-239-4151	700 Kipling St. Suite 4000	Lakewood	80215	Matthew.Lopez@ag.state.co.us									
20	ND Dept. of Agriculture	Blake Schaan	Pesticide Enforcement Supervisor	701-328-4922	600 E Blvd Ave., Dept. 602	Bismarck	58505	blakeschaan@nd.gov	ND Dept. of Agriculture	Judy Carlson	Plant Industries Division Director, State Apiary Inspector	701-328-4922	600 E Blvd Ave., Dept. 602	Bismarck	58505	jcarlson@nd.gov	
21	Nebraska Department of Agriculture	Tim Creger	Pesticide/Fertilizer Program Manager	402-471-6882	301 Centennial Mall South	Lincoln, NE	68509	tim.creger@nebraska.gov	none								
22	see above																
23	NCD&CS - Structural Pest Control & Pesticides	Jennifer Lalmond	Pesticide Specialist	919-733-3556	2109 Blue Ridge Rd.	Raleigh	27607	jennifer.lalmond@ncagr.gov	NCD&CS - Plant Industry Div. - Plant Protection Section	Don Hopkins	Apiary Inspection Supervisor	919-233-8214	950 E. Chatham St.	Cary	27511	Don.Hopkins@ncagr.gov	
24	Maine Department of Agriculture	Tony Jadczyk	State Apiarist	207-287-7562	28 State House Station	Augusta	04333-0028	tony.jadczyk@maine.gov	Maine Board of Pesticides Control	Raymond Connors	Manager of Compliance	207-287-7546	28 State House Station	Augusta	04333-0028	raymond.g.connors@maine.gov	
25	Arizona Department of Agriculture	Jack Peterson	Associate Director, ESD	602-542-3575	1688 W Adams Street	Phoenix,	85331	jpeterson@azda.gov									
26	Same as above								Same as above								
27	Washington State Department of Agriculture	Cliff Weed	Compliance Program Manager	360-902-2036	P.O. Box 42589	Olympia, Wa	98504-2589	cweed@agr.wa.gov	NONE								
28	OISC...if pesticides suspected	George Saxton	compliance Officer	765-494-1582	175 S. university St.	West Lafayette, IN	47907	saxton@purdue.edu									
28	Iowa Department of Ag and Land Stewardship	Gretchen Paluch	Pesticide Bureau Chief	515-281-8590	Wallace State Office Building	Des Moines	50319	gretchen.paluch@iowaagriculture.gov	Iowa Dept of Ag and Land Stewardship	Andrew Joseph	State Apiarist	515-725-1481	2230 South Ankeny Blv, Iowa Lab Facility	Ankeny	50023	andrew.joseph@iowaagriculture.gov	
29	Maryland Department of Agriculture, Pesticide Regulation Section	Dennis Howard	Program Manager, Pesticide Regulation Section	410-841-5710	50 Harry S. Truman Parkway	Annapolis	21401	dennis.howard@maryland.gov	Maryland Dept. of Agriculture, Apiary Inspection	Jerry Fischer	Apiary Inspector	410-841-5920	Maryland Department of Agriculture/Apiary Inspection	Annapolis	21401	jerry.fischer@maryland.gov	

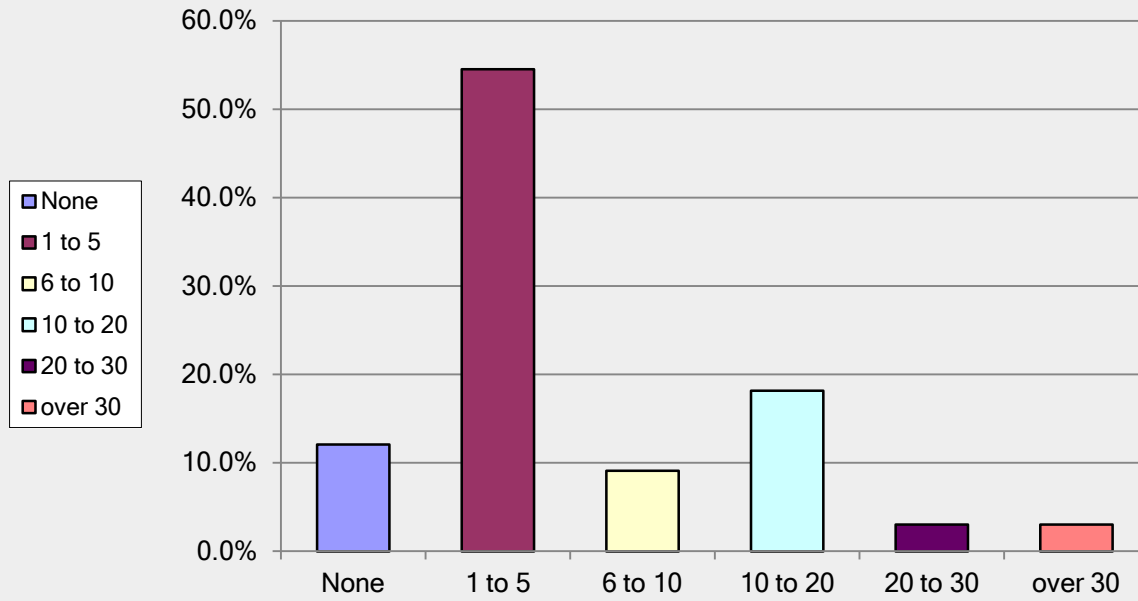
Pollinator Protection Investigations and Issues

How many total bee kills have been investigated in the last three years? If over 30, please indicate approximate number in the comments section.

Answer Options	Response Percent	Response Count
None	12.1%	4
1 to 5	54.5%	18
6 to 10	9.1%	3
10 to 20	18.2%	6
20 to 30	3.0%	1
over 30	3.0%	1
Comments		7
<i>answered question</i>		33
<i>skipped question</i>		1

State	Comments	Categories
LA	Generally, bee kills reported as pesticide kills have been found to be disease issues or management issues	
CT	Investigated by Pesticide lead agency	
CA	The state systematically tracks investigations of 1) any bee kills reported directly to the state, and 2) reports to County Agricultural Commissioners (CAC's) of bee kills resulting in economic losses of \$20,000 or more. In contrast, the state does not systematically track investigations of bee kills <\$20,000 that were reported directly to a CAC.	
VT	There have been a couple of possible bee kills reported well after the fact. It was too late to collect viable samples.	
ME	The state apiarist is more informed on this subject	
AZ	I have heard that bee keepers speak poorly of us. 1) we can only respond if they actually file a complaint with us 2) cases must have evidence if we are going to cite someone for misapplication 3) all complaints are reviewed by the AG's office to ensure quality and appropriateness	
IN	mostly 2012, most seem related to corn seed treatment dust during planting	

How many total bee kills have been investigated in the last three years?



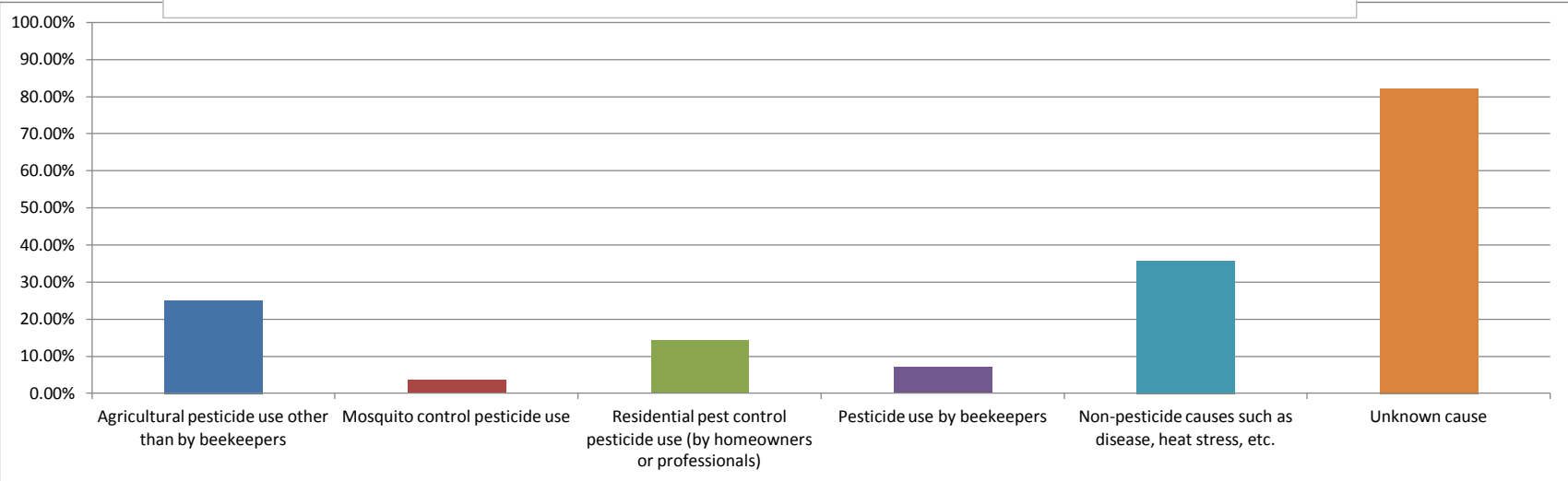
Pollinator Protection Investigations and Issues

For investigations within the last three years, which of the following have been documented to be the cause of bee kills in your state? Check all that have been documented.

Answer Options	Response Percent	Response Count
Agricultural pesticide use other than by beekeepers	25.0%	7
Mosquito control pesticide use	3.6%	1
Residential pest control pesticide use (by homeowners or professionals)	14.3%	4
Pesticide use by beekeepers	7.1%	2
Non-pesticide causes such as disease, heat stress, etc.	35.7%	10
Unknown cause	82.1%	23
Comment		11
answered question		28
skipped question		6

State	Comment	Categories
	We did not confirm the cause of the bee deaths, however other violations were noted.	
	We issued one warning letter for improper storage of a pesticide.	
FL	We issued three warning letters and one advisory letter for application to a target site not on the label. These actions were all issued to bee keepers.	
	The products used improperly were Mavrik, Tactic Emulsifiable Concentrate Miticide/Insecticide, Maxforce FC Professional Insect Control Roach Killer Bait Gel and Maxforce FC Professional Insect Control Ant Killer Bait Gel.	
MI	2 cases still under investigation. Ona may be related to pesticide application.	
NM	N/A	
VA	Ag use and mosquito abatement have been the alleged cause of mortality. We have not been able to make that finding after review of the evidence collected.	
CA	Several investigations are still open regarding alleged agricultural pesticide use other than by beekeepers.	
DC	No investigations or complaints	
AR	Suspected to be CCD but no firm conclusion.	
VT	None investigated	
MD	organophosphates	
AZ	The complaint we recently received I believe will be due to ag pesticide use other than a beekeeper.	
IN	treated seed handling during corn planting	

For investigations within the last three years, which of the following have been documented to be the cause



Pollinator Protection Investigations and Issues

For bee kills where pesticides have been identified as a cause, please identify the pesticide, or pesticides, that have been documented to be a cause.

Answer Options	Response Count
	21
<i>answered question</i>	21
<i>skipped question</i>	12

State	Response Text
FL	Fipronil contaminated feeding syrup used to poison hives was documented in bee kills in 2011. 2,228 hives were reported killed. A criminal investigation failed to identify a perpetrator.
PA	NA
LA	Di Brom (organophosphate)
AL	n/a
MI	Uncertain at this time awaiting laboratory analysis
NM	N/A
GA	Carbaryl 4L, Spintor 25C, Diazinon AG 500
VA	ALLEGED causes; aldicarb, methomyl, pyrethroids, naled, carbaryl. NONE confirmed
CA	N / A
DC	No investigations or complaints
OH	Carbaryl-direct application to hive/vandalism
AR	NA
VT	None investigated
CO	Cases where detections found and pesticide suspected, but not confirmed as the cause; Coumaphos (158% of LD50...suspected cause), Furadan (detections under LD 50), Spinosad (detections under the LD 50),
ND	N/A
NC	carbaryl, dimethoate, methyl parathion
ME	Ask the state apiarist
AZ	Belay is the product currently.
SD	Asana XL, Proaxis, Lorsban
WA	Chlopyrifos, thiamethoxam, and amitraz
IA	Specific data set not captured
IN	clothianidin

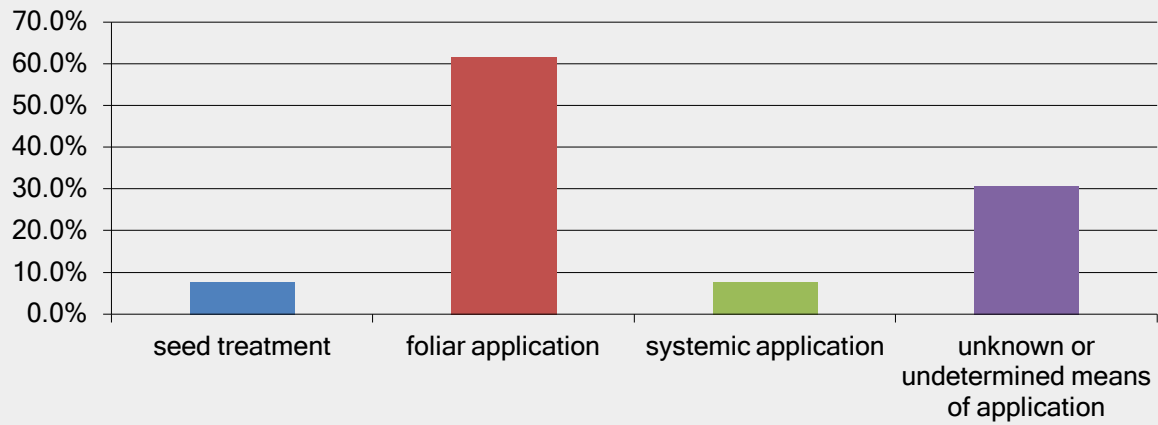
Pollinator Protection Investigations and Issues

If agricultural pesticide use was documented as a source of bee kills, please indicate what type of pesticide application was involved. Please indicate the pesticides involved, if known, in the comments section.

Answer Options	Response Percent	Response Count
seed treatment	7.7%	1
foliar application	61.5%	8
systemic application	7.7%	1
unknown or undetermined means of application	30.8%	4
Comments		13
<i>answered question</i>		13
<i>skipped question</i>		20

State	Comments	Categories
FL	No agricultural pesticide use documented as cause	
PA	NA	
AL	N/A	
MI	blueberry treatment and pollinator bees affected. Awaiting confirmation as bee disease samples were also taken.	
NM	N/A	
NH	No ag use confirmed as cause	
GA	Carbaryl 4L, Spintor 25C, Diazinon AG 500	
VA	ag uses ALLEGED involved orchard sprays. residue results on the bees and comb were negative	
CA	N / A	
DC	No investigations or complaints	
AR	NA	
CO	None documented or confirmed	
SD	Asana XL, Proaxis, Lorsban	

If agricultural pesticide use was documented as a source of bee kills, please indicate what type of pesticide application was involved.



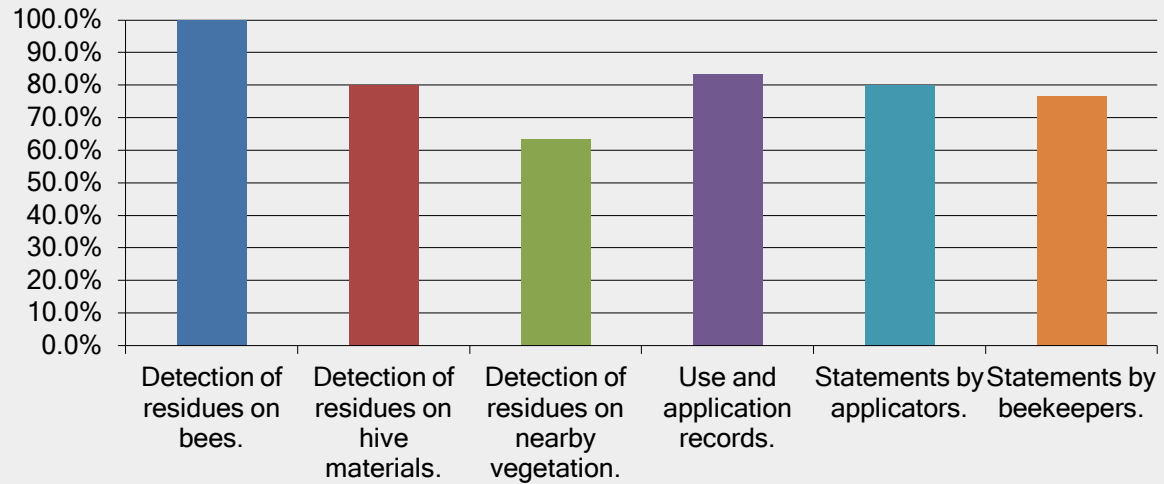
Pollinator Protection Investigations and Issues

What procedure is used to document pesticide application as a cause of bee kills? Check all that apply.

Answer Options	Response Percent	Response Count
Detection of residues on bees.	100.0%	30
Detection of residues on hive materials.	80.0%	24
Detection of residues on nearby vegetation.	63.3%	19
Use and application records.	83.3%	25
Statements by applicators.	80.0%	24
Statements by beekeepers.	76.7%	23
Comments		8
<i>answered question</i>		30
<i>skipped question</i>		4

State	Comments	Categories
AL	N/A	
VA	we normally take bee and comb samples	
DC	No investigations or complaints	
VT	If there was a bee kill investigated, then many or all would be used.	
NE	Purchase records of beekeepers and surrounding property owners.	
NC	Swab sample from top of hive, photos showing blooming crops or ground cover	
AZ	Pictures, witnesses, weather records, swab samples signs or other non-porous,	
IN	Not all in every case	

What procedure is used to document pesticide application as a cause of bee kills?



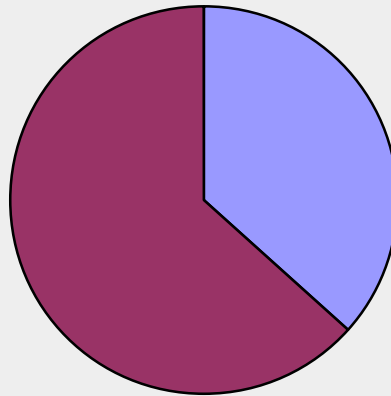
Pollinator Protection Investigations and Issues

Does your state have any investigative procedures or protocols for bee kill investigations that can be shared with other states? If so, please indicate a contact for obtaining these in the Comments section.

Answer Options	Response Percent	Response Count
Yes	36.7%	11
No	63.3%	19
Comments		15
<i>answered question</i>		30
<i>skipped question</i>		4

Number	Comments
PA	Treated as a standard investigative procedure
LA	Call Lisa Geautreux 225-925-3763
OR	We basically investigate as we would any other case. We have used a pesticide screen with our lab when there are enough dead bees to sample. Contact Sunny Jones 503-986-6466
NM	None other than normal procedures - nothing specific to bees
NJ	Procedure under development
NY	Anthony Lamanno 518-402-8727
VA	We do not have a protocol specific to bee kills; however we do intend to develop such for future use.
CA	Investigation Procedures manual, Chapter 3. Online at http://www.cdpr.ca.gov/docs/enforce/compend/vol_5/invstprc.htm
DC	No investigative procedures or protocols have been developed in DC
OH	Standard complaint investigation protocol used for all USEPA inspections. Depending on what is found and alleged determines what needs to be done to properly investigate the complaint
WI	You can get from Linda Boswell or Jennifer Heaton-Amrhein. They are fairly "old." We had a lot of bee activity in the late '70's and 80's, but not much recently.
CO	Matthew Lopez
MD	Currently in DRAFT - Not for Distribution
WA	Cliff Weed (see contact information above)
IN	still in draft stage

Does your state have any investigative procedures or protocols for bee kill investigations that can be shared with other states?



■ Yes
■ No

Pollinator Protection Investigations and Issues

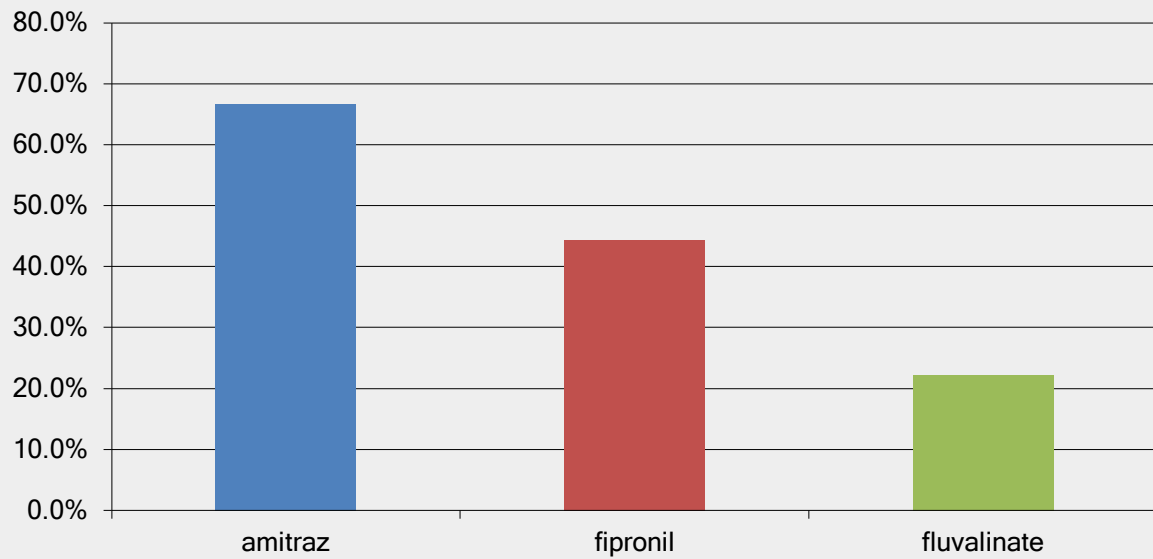
Has pesticide misuse by beekeepers been documented in the last three years? If so, please indicate which pesticides have been misused (off label, overapplied, etc.).

Answer Options	Response Percent	Response Count
amitraz	66.7%	6
fipronil	44.4%	4
fluvalinate	22.2%	2
Other (please specify)		14
<i>answered question</i>		9
<i>skipped question</i>		24

State	Other (please specify)/Comments
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FL	We issued one warning letter for improper storage of a pesticide. We issued three warning letters and one advisory letter for application to a target site not on the label. These actions were all issued to bee keepers. The products used improperly were Mavrik, Tactic Emulsifiable Concentrate Miticide/Insecticide, Maxforce FC Professional Insect Control Roach Killer Bait Gel and Maxforce FC Professional Insect Control Ant Killer Bait Gel.
AL	None
MI	As part of a USDA hive survey, the apiary inspector noted misuse but did not report it in time for a pesticide investigation
NM	None at this time.
GA	Combat Platinum Roach Killing Gel - Product is not labeled for use around hives.
VA	No misuse documented
CA	The Amitraz metabolite 2,4-DMPF was detected in samples of CA honey by USDA Pesticide Data Program.
DC	No investigations or complaints
OH	Left in hive with honey supers on/off label use
AR	None documented. Beekeepers will not usually report if it is a case of self misuse.
CO	Check Mite - Coumophos
ND	N/A
AZ	No, we normally do not interact with beekeepers so therefore, have not looked at their use.
AK	none

Which pesticide has been documented as misused by beekeepers in the last three years?



Pollinator Protection Investigations and Issues

Does your state have a pollinator protection initiative?
If so, please provide a brief description of that effort and contact information.

Answer Options	Response Percent	Response Count
Yes	33.3%	11
No	66.7%	22
Comments/Contact for information		12
answered question		33
skipped question		1

State	Comments/Contact for information	Categories
PA	The PA Dept of Ag's Apiary Inspection Program is reorganizing to more broadly protect pollinators and the beekeeping industries through native pollinator diversity surveys, promotion of pollinator gardens, participation in general pollinator health research and supporting state and local beekeeping club initiatives; state and local beekeeper associations promote reduced risk pesticide use, beekeeper and community education on pollinator importance and protection, and promoting community gardening and bee-friendly municipal regulations; Penn State University researchers are focusing on pollinator health and increasing diversity of pollinator-friendly plantings in agricultural settings, including pollinator strips and reduced-impact land management practices	
VA	Our Board has had requests from beekeepers in recent years to ban the use of neonicotinoids. The Board has not taken any action on that request, but has funded research at Virginia Tech with Drs. Rick Fell and Troy Anderson to look at the impacts of pesticides on honey bees in Virginia. The goal of the project is to develop a set of BMPs which would help to reduce the impact of pesticide use on honey bees.	
CA	Before applying a pesticide toxic to bees, applicator must inform beekeepers within and near the treatment area (CA Code of Regulations title 3, sections 6650 - 6656). For more information, contact Vic Acosta, CA Dept. of Pesticide Regulation, email vacosta@cdpr.ca.gov . In addition, DPR is involved in a collective effort with PMRA Canada and the U.S. EPA to more reliably assess the potential risk of pesticides to honey bees via a white paper for review by a FIFRA Scientific Advisory Panel on pollinator risk assessment.	
WI	Beekeepers can register with and ask to be notified in advance of agricultural pesticide applications. Very few beekeepers take advantage of this program.	
CO	Colorado Pollinator Workgroup. John Scott	
ND	Have prioritized pesticide use on, in or near beehives.	
NC	Registered Apiary database. Anyone who hires an aerial applicator to apply a pesticide that is labeled as "toxic to bees" must notify all registered apiaries within 1/2 mile of the target. Notification method is written out in the regulation.	
AZ	We do have a law that requires bee keepers to notify growers if their bees will be foraging on their property and then landowners, after notified, have to let bee keepers know before applications take place http://www.azleg.state.az.us/FormatDocument.asp?inDoc=ars/3/00367-02.htm&Title=3&DocType=ARS	
AK	you are asking the wrong group. this survey was directed at the pesticide SLA; we don't have any information about beekeeping, and would be involved only if a bee issue arose.	
WA	State rules that regulate applications to blooming plants, due care must be taken by applicator, time of application to minimize foraging bees	
IN	If you count voluntary registration of hives on Drift Watch web site.	
IA	Iowa's Cooperative Communication Initiative for Pollinator Protection	
MD	We are currently developing an online system similar to DriftWatch (Region 5 states) that will allow pesticides applicator to identify locations where sensitive crops are planted and bee hive are kept so that applicators can take further precautions when making application in these areas	