

Q1 What state, territory, or tribe do you represent?

Answered: 18 Skipped: 0

ANSWER CHOICES	RESPONSES	
Name	94.44%	17
Agency	88.89%	16
Address 1	0.00%	0
Address 2	0.00%	0
City/Town	0.00%	0
State/Province	100.00%	18
EPA Region	83.33%	15
Country	0.00%	0
Email Address	100.00%	18
Phone Number	100.00%	18

#	NAME	DATE
1	Joe Herrera	10/27/2022 11:38 AM
2	Jasmine CourvilleBrown	10/24/2022 10:15 AM
3	Colton Bond	10/21/2022 7:11 PM
4	Roger Mackedanz	10/21/2022 8:45 AM
5	Gretchen Paluch	10/20/2022 4:38 PM
6	David J Rousseau	10/17/2022 1:44 PM
7	Jack Peterson	10/14/2022 5:17 PM
8	Gary R Buckner	10/13/2022 1:25 PM
9	Taryn LaScola-Miner	10/13/2022 8:59 AM
10	Michael Williams	10/12/2022 2:38 PM
11	MICHAEL G MCCONVILLE	10/12/2022 2:14 PM
12	Laurie Brajkovich	10/12/2022 1:54 PM
13	Kima Traynham	10/12/2022 11:34 AM
14	Leo Reed	10/12/2022 10:55 AM
15	Jared Vernon	10/12/2022 10:49 AM
16	Dwight E. Seal	10/12/2022 10:47 AM
17	Tony L Cofer	10/12/2022 10:36 AM
#	AGENCY	DATE
1	Yakama Nation	10/27/2022 11:38 AM
2	CSKT	10/24/2022 10:15 AM

3	Oregon Department of Agriculture	10/21/2022 7:11 PM
4	Department of Agriculture	10/21/2022 8:45 AM
5	Iowa Department of Agriculture & Land Stewardship	10/20/2022 4:38 PM
6	Arizona Department of Agriculture	10/14/2022 5:17 PM
7	WA State Dept. of Ag	10/13/2022 1:25 PM
8	Dept. of Agricultural Resources	10/13/2022 8:59 AM
9	Kentucky Department of Agriculture	10/12/2022 2:38 PM
10	NJDEP	10/12/2022 2:14 PM
11	Department of Pesticide Regulation	10/12/2022 1:54 PM
12	Oklahoma Department of Agriculture	10/12/2022 1:34 PM
13	MT Dept of Ag	10/12/2022 11:34 AM
14	Office of Indiana State Chemist	10/12/2022 10:55 AM
15	Utah Department of Agriculture and Food	10/12/2022 10:49 AM
16	NCDA&CS	10/12/2022 10:47 AM
#	ADDRESS 1	DATE
	There are no responses.	
#	ADDRESS 2	DATE
	There are no responses.	
#	CITY/TOWN	DATE
	There are no responses.	
#	STATE/PROVINCE	DATE
1	WA	10/27/2022 11:38 AM
2	MT	10/24/2022 10:15 AM
3	OR	10/21/2022 7:11 PM
4	minnesota	10/21/2022 8:45 AM
5	IA	10/20/2022 4:38 PM
6	New Hampshire	10/17/2022 1:44 PM
7	Arizona	10/14/2022 5:17 PM
8	WA	10/13/2022 1:25 PM
9	Massachusetts	10/13/2022 8:59 AM
10	Kentucky	10/12/2022 2:38 PM
11	New Jersey	10/12/2022 2:14 PM
12	California	10/12/2022 1:54 PM
13	OKlahoma	10/12/2022 1:34 PM
14	MT	10/12/2022 11:34 AM
15	IN	10/12/2022 10:55 AM
16	Utah	10/12/2022 10:49 AM
17	USA	10/12/2022 10:47 AM
18	AL	10/12/2022 10:36 AM

#	EPA REGION	DATE
1	Region 10	10/27/2022 11:38 AM
2	8	10/24/2022 10:15 AM
3	10	10/21/2022 7:11 PM
4	5	10/21/2022 8:45 AM
5	7	10/20/2022 4:38 PM
6	9	10/14/2022 5:17 PM
7	10	10/13/2022 1:25 PM
8	1	10/13/2022 8:59 AM
9	Region 2	10/12/2022 2:14 PM
10	Region 9	10/12/2022 1:54 PM
11	6	10/12/2022 1:34 PM
12	8	10/12/2022 11:34 AM
13	5	10/12/2022 10:55 AM
14	Region 8	10/12/2022 10:49 AM
15	Region 4	10/12/2022 10:47 AM

#	COUNTRY	DATE
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There are no responses.

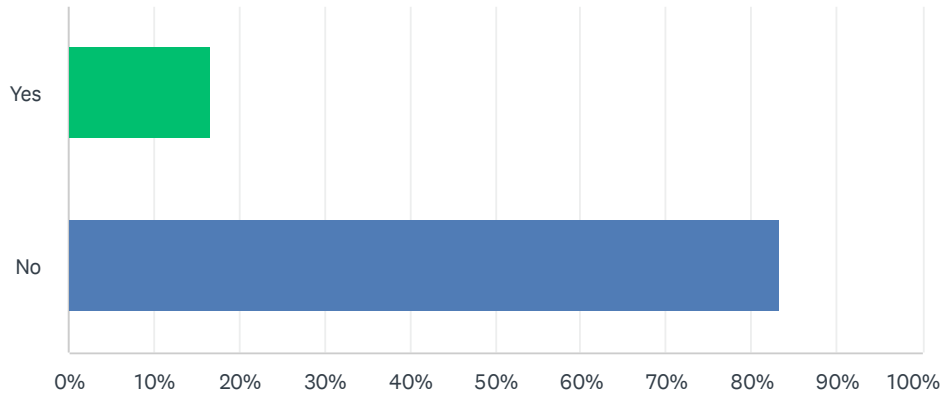
#	EMAIL ADDRESS	DATE
1	joe_herrera@yakama.com	10/27/2022 11:38 AM
2	jasmine.brown@cskt.org	10/24/2022 10:15 AM
3	colton.bond@oda.oregon.gov	10/21/2022 7:11 PM
4	roger.mackedanz@state.mn.us	10/21/2022 8:45 AM
5	gretchen.paluch@iowaagriculture.gov	10/20/2022 4:38 PM
6	David.J.Rousseau@agr.nh.gov	10/17/2022 1:44 PM
7	jpeterston@azda.gov	10/14/2022 5:17 PM
8	gbuckner@agr.wa.gov	10/13/2022 1:25 PM
9	taryn.lascola@mass.gov	10/13/2022 8:59 AM
10	Michael.R.Williams@ky.gov	10/12/2022 2:38 PM
11	Mike.McConville@dep.nj.gov	10/12/2022 2:14 PM
12	laurie.brajkovich@cdpr.ca.gov	10/12/2022 1:54 PM
13	ryan.williams@ag.ok.gov	10/12/2022 1:34 PM
14	ktraynham@mt.gov	10/12/2022 11:34 AM
15	reedla@purdue.edu	10/12/2022 10:55 AM
16	jvernon@utah.gov	10/12/2022 10:49 AM
17	dwight.seal@ncagr.gov	10/12/2022 10:47 AM
18	tony.cofer@agi.alabama.gov	10/12/2022 10:36 AM

#	PHONE NUMBER	DATE
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1	15098312238	10/27/2022 11:38 AM
2	4064719240	10/24/2022 10:15 AM
3	5039866485	10/21/2022 7:11 PM
4	651-201-6400	10/21/2022 8:45 AM
5	5152818590	10/20/2022 4:38 PM
6	16032713640	10/17/2022 1:44 PM
7	602-542-3575	10/14/2022 5:17 PM
8	5099499370	10/13/2022 1:25 PM
9	617-828-3793	10/13/2022 8:59 AM
10	5027829240	10/12/2022 2:38 PM
11	6099846513	10/12/2022 2:14 PM
12	9164453905	10/12/2022 1:54 PM
13	4055225993	10/12/2022 1:34 PM
14	4064449431	10/12/2022 11:34 AM
15	765-494-1588	10/12/2022 10:55 AM
16	8019822304	10/12/2022 10:49 AM
17	3364017154	10/12/2022 10:47 AM
18	3342407237	10/12/2022 10:36 AM

Q2 Does your state include any information on UAV application in your Aerial Applicator's manual?

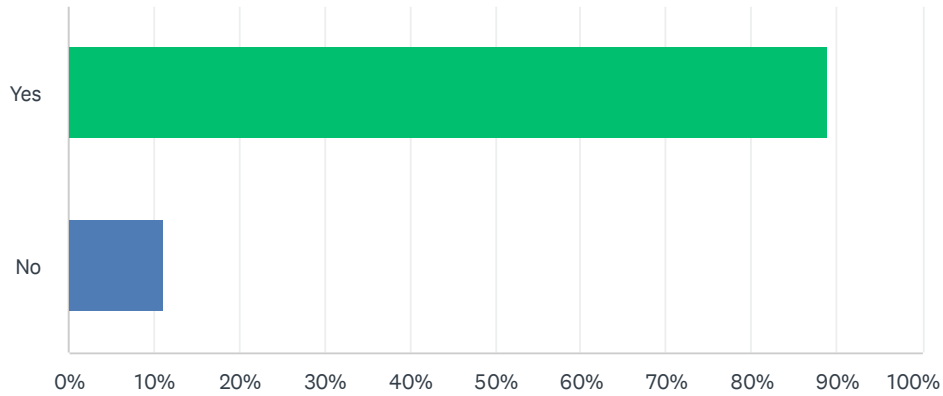
Answered: 18 Skipped: 0



ANSWER CHOICES	RESPONSES	
Yes	16.67%	3
No	83.33%	15
TOTAL		18

Q3 Has your state received any requests to apply pesticide products using Unmanned Aerial Vehicles (UAV's)/Unmanned Aerial Systems (UAS)?

Answered: 18 Skipped: 0

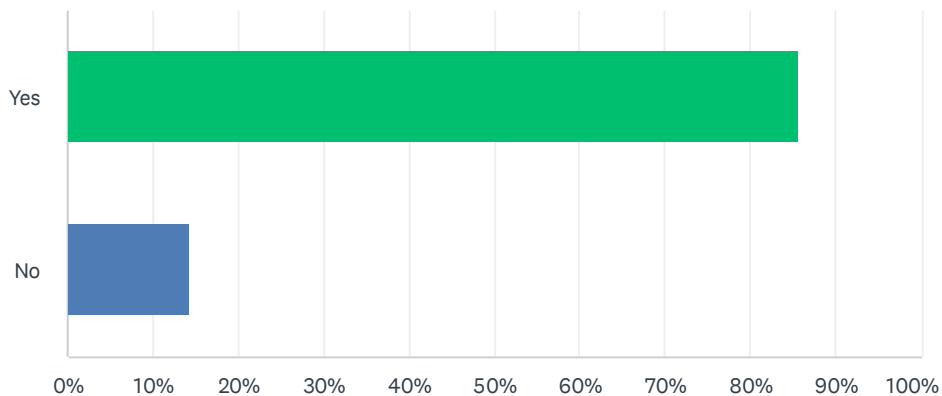


ANSWER CHOICES	RESPONSES
Yes	88.89% 16
No	11.11% 2
TOTAL	18

#	OTHER (PLEASE SPECIFY)	DATE
1	Our Metropolitan Mosquito Control District (MMCD)	10/21/2022 8:45 AM
2	Requests are limited to certification and licensing.	10/20/2022 4:38 PM
3	We anticipate updating our aerial exam and manual within the next 2 years to include UAV	10/12/2022 10:55 AM

Q4 Does your state currently have applicator(s) that are certified/licensed to make pesticide applications using a UAV?

Answered: 14 Skipped: 4

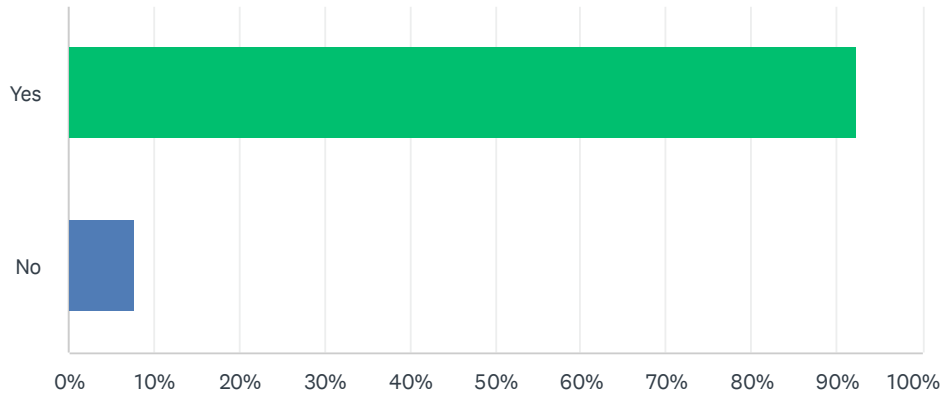


ANSWER CHOICES	RESPONSES
Yes	85.71% 12
No	14.29% 2
TOTAL	14

#	IF YES, HOW MANY?	DATE
1	17	10/21/2022 7:16 PM
2	1	10/14/2022 5:26 PM
3	7	10/13/2022 2:40 PM
4	15	10/12/2022 2:44 PM
5	46	10/12/2022 2:40 PM
6	25	10/12/2022 10:57 AM
7	5	10/12/2022 10:56 AM
8	4	10/12/2022 10:50 AM

Q5 Does your state currently have a company(s) that is legally able to make pesticide applications using UAV's/UAS's within your state?

Answered: 13 Skipped: 5

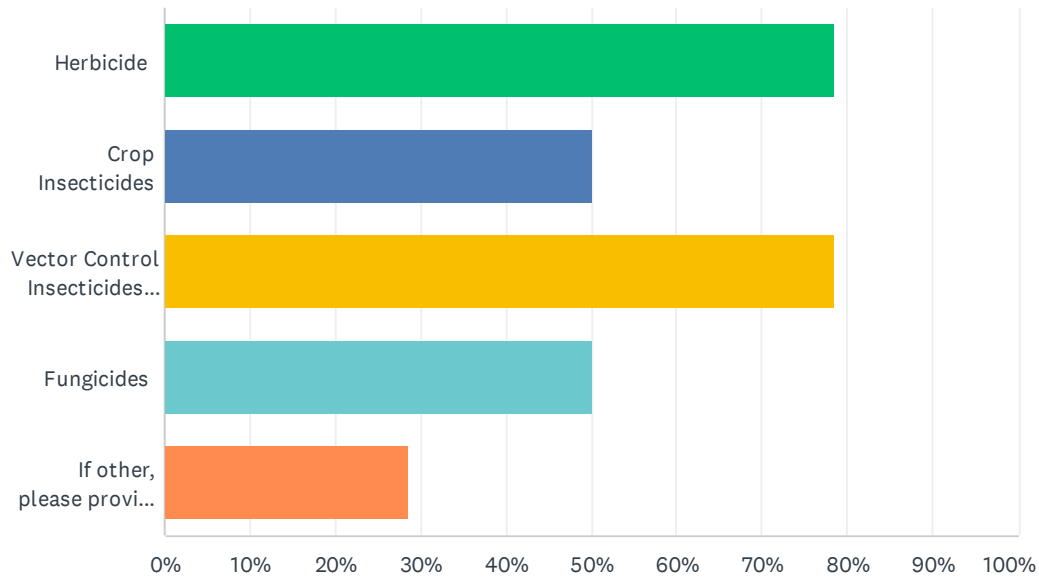


ANSWER CHOICES	RESPONSES
Yes	92.31% 12
No	7.69% 1
TOTAL	13

#	IF YES, HOW MANY?	DATE
1	1	10/24/2022 10:17 AM
2	6	10/21/2022 7:16 PM
3	We know one for sure and that is MMCD	10/21/2022 8:56 AM
4	3	10/20/2022 4:48 PM
5	We are assuming those licensed properly do follow label directions.	10/14/2022 5:26 PM
6	2	10/13/2022 2:40 PM
7	3	10/12/2022 2:44 PM
8	We don't have this specific data available	10/12/2022 2:40 PM
9	5	10/12/2022 10:57 AM
10	5	10/12/2022 10:56 AM
11	4	10/12/2022 10:50 AM

Q6 What type(s) of pesticide(s) are UAV/UAS applicators requesting information on, or are intending to apply? More than one response is acceptable.

Answered: 14 Skipped: 4



ANSWER CHOICES	RESPONSES
Herbicide	78.57% 11
Crop Insecticides	50.00% 7
Vector Control Insecticides/Adulticides	78.57% 11
Fungicides	50.00% 7
If other, please provide details:	28.57% 4
Total Respondents: 14	

#	IF OTHER, PLEASE PROVIDE DETAILS:	DATE
1	Note: we do have individuals who are licensed to apply insecticides and fungicides on Ag. production lands, but do not know if these application are occurring.	10/21/2022 7:16 PM
2	Limited information available	10/20/2022 4:48 PM
3	Moss control on roofs	10/13/2022 2:40 PM
4	We don't have this specific data available	10/12/2022 2:40 PM

Q7 When inquiring about a UAV/UAS application, what product(s)/brand name(s) are applicators requesting use guidance on? (Examples: Milestone TM, Tordon®, Habitat®, Belay®, etc.) More than one response is acceptable. Example: 123-456-7890, Dicamba, Curl up and Dye

Answered: 5 Skipped: 13

ANSWER CHOICES		RESPONSES
Trade Name, EPA Registration Number, Active Ingredient		100.00% 5
Trade Name, EPA Registration Number, Active Ingredient		40.00% 2
Trade Name, EPA Registration Number, Active Ingredient		20.00% 1
Trade Name, EPA Registration Number, Active Ingredient		20.00% 1
Trade Name, EPA Registration Number, Active Ingredient		20.00% 1
Trade Name, EPA Registration Number, Active Ingredient		20.00% 1

#	TRADE NAME, EPA REGISTRATION NUMBER, ACTIVE INGREDIENT	DATE
1	Moss Melt (82052 -1 -91094)	10/21/2022 7:16 PM
2	Vectolex- Bacillus sphaericus 2362, Serotype H5a5b, strain ABTS 1743 Technical Powder (670 BsITU/mg) (EPA Reg. No. 73049-57)	10/21/2022 8:56 AM
3	Metalarv S-PT, 73049-475	10/13/2022 2:40 PM
4	no specifics	10/13/2022 9:04 AM
5	Roundup 524 glyphosate	10/12/2022 10:56 AM

#	TRADE NAME, EPA REGISTRATION NUMBER, ACTIVE INGREDIENT	DATE
1	Altosid P35- (S)-Methopren (EPA REG. NO. 89459-95)	10/21/2022 8:56 AM
2	Altosid 2724-451 methoprene	10/12/2022 10:56 AM

#	TRADE NAME, EPA REGISTRATION NUMBER, ACTIVE INGREDIENT	DATE
1	Garlon 4 62719-40 Triclopyr	10/12/2022 10:56 AM

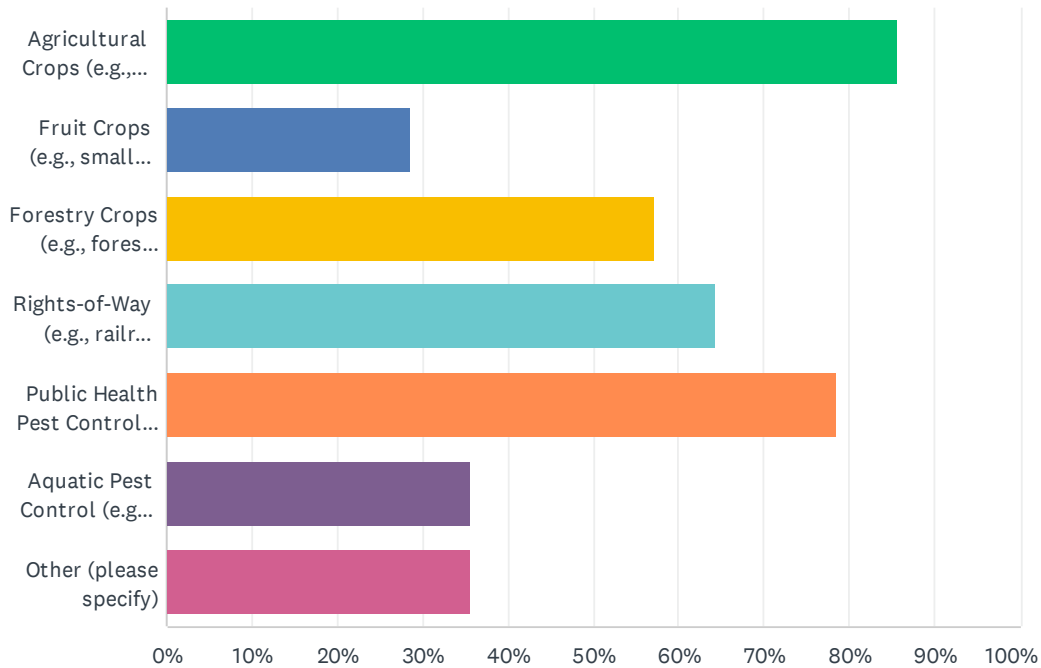
#	TRADE NAME, EPA REGISTRATION NUMBER, ACTIVE INGREDIENT	DATE
1	Milestone 62719 aminopyralid	10/12/2022 10:56 AM

#	TRADE NAME, EPA REGISTRATION NUMBER, ACTIVE INGREDIENT	DATE
1	Imazapyr 4L 81927-24 imazapyr	10/12/2022 10:56 AM

#	TRADE NAME, EPA REGISTRATION NUMBER, ACTIVE INGREDIENT	DATE
1	Bifenthrin 87290-54 bifenthrin	10/12/2022 10:56 AM

Q8 What site(s) are UAV/UAS applicators requesting guidance on, or are intending to make an application on? Note: Due to the diversity of crop types and sites available, descriptors correlate with Pesticide Use site group within 40 CFR 171.01 More than one response is acceptable.

Answered: 14 Skipped: 4



ANSWER CHOICES	RESPONSES
Agricultural Crops (e.g., grains, vegetables, feed/forage, etc.)	85.71% 12
Fruit Crops (e.g., small fruits, tree fruits, etc.)	28.57% 4
Forestry Crops (e.g., forestry plantings, Christmas trees, forest nurseries, etc.)	57.14% 8
Rights-of-Way (e.g., railroad rights-of-way, Utility rights-of-way, etc.)	64.29% 9
Public Health Pest Control (e.g., mosquito, etc.)	78.57% 11
Aquatic Pest Control (e.g., larvicides, fish control, weed control, mollusk control, etc.)	35.71% 5
Other (please specify)	35.71% 5
Total Respondents: 14	

#	OTHER (PLEASE SPECIFY)	DATE
1	UAV applicators do not have the aerial applicator license, only the drone license.	10/24/2022 10:17 AM
2	Noxious weed control in remote areas, which may include rights-of-way Moss Treatments in Structural Settings	10/21/2022 7:16 PM
3	Limited information available	10/20/2022 4:48 PM

4	Moss control on roofs	10/13/2022 2:40 PM
5	There are currently 22 vector (mosquito) control UAS pilots that perform pest control as part of government agency responsibilities. 25 are certified to apply by UAS in any use setting allowed by CA and US laws/regs.	10/12/2022 2:40 PM

Q9 What types of crops have UAV/UAS applicators requested use guidance on? Please provide response(s) based on category type. More than one response is acceptable. Example: General Site-Fruit Crops; Specific Site-Apples

Answered: 6 Skipped: 12

ANSWER CHOICES	RESPONSES	
General Site, Specific Site, Notes	100.00%	6
General Site, Specific Site, Notes	66.67%	4
General Site, Specific Site, Notes	50.00%	3
General Site, Specific Site, Notes	16.67%	1
General Site, Specific Site, Notes	16.67%	1
General Site, Specific Site, Notes	0.00%	0

#	GENERAL SITE, SPECIFIC SITE, NOTES	DATE
1	Potatoes, disease control	10/13/2022 2:40 PM
2	Cranberries	10/13/2022 9:04 AM
3	Grain crops, corn, wheat, soybeans and canola	10/12/2022 2:44 PM
4	This specific data is not available	10/12/2022 2:40 PM
5	corn	10/12/2022 10:57 AM
6	Corn late season escapes	10/12/2022 10:56 AM

#	GENERAL SITE, SPECIFIC SITE, NOTES	DATE
1	Vineyards, disease control	10/13/2022 2:40 PM
2	Forestry, herbicides to control invasive plants	10/12/2022 2:44 PM
3	soybeans	10/12/2022 10:57 AM
4	Vector Control ticks and mosquitos	10/12/2022 10:56 AM

#	GENERAL SITE, SPECIFIC SITE, NOTES	DATE
1	Aquatic, mosquito control, Phragmites control	10/13/2022 2:40 PM
2	Rights-of-Way - vegetation management	10/12/2022 2:44 PM
3	Right of Way powerlines and pipelines, inaccessible areas	10/12/2022 10:56 AM

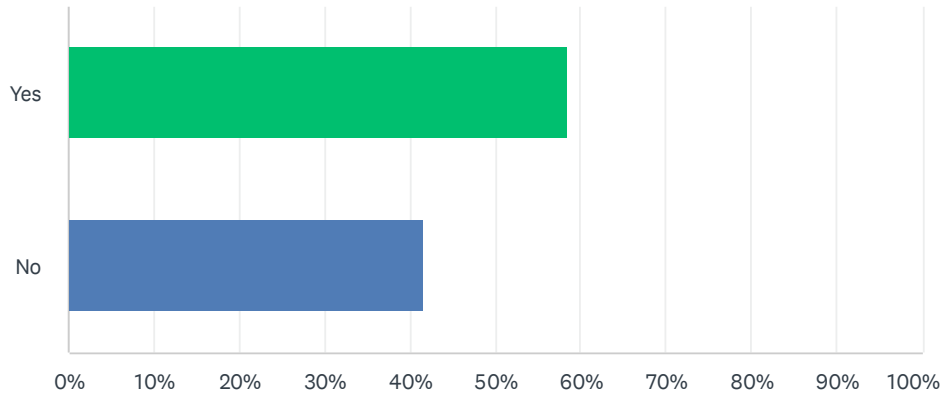
#	GENERAL SITE, SPECIFIC SITE, NOTES	DATE
1	Right of Way, irrigation ditches	10/13/2022 2:40 PM

#	GENERAL SITE, SPECIFIC SITE, NOTES	DATE
1	Forestry, brush/weed control	10/13/2022 2:40 PM

#	GENERAL SITE, SPECIFIC SITE, NOTES	DATE
	There are no responses.	

Q10 Have you experienced any difficulties in interpreting pesticide labels for UAV pesticide applications?

Answered: 12 Skipped: 6

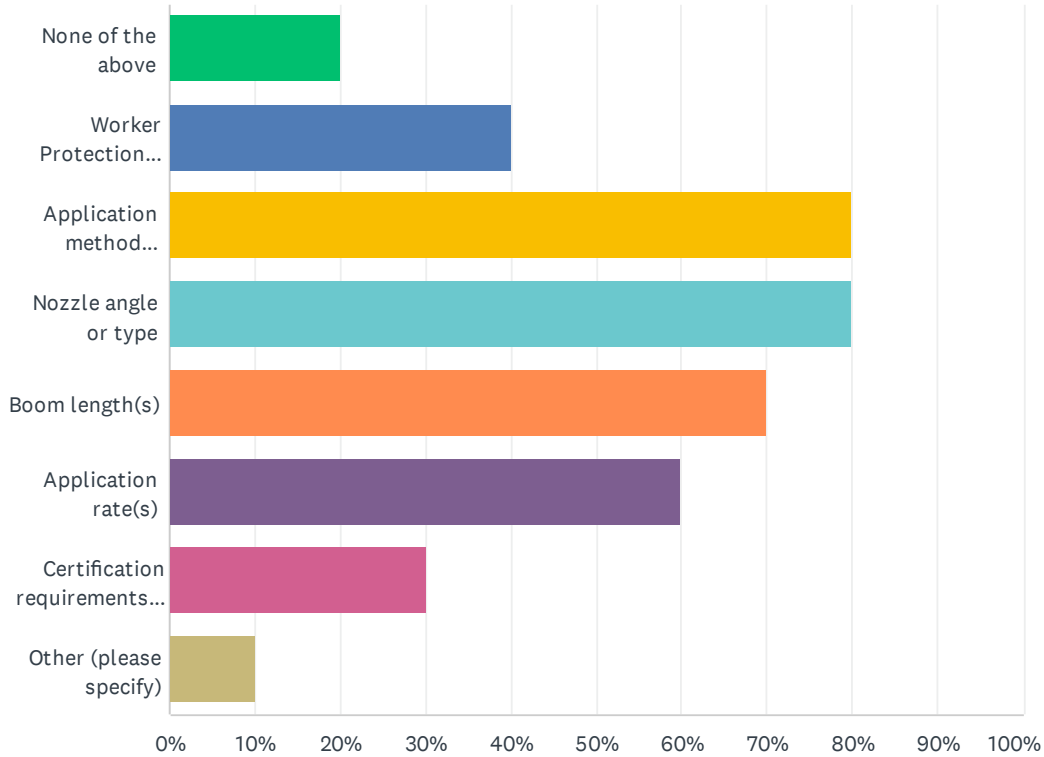


ANSWER CHOICES	RESPONSES
Yes	58.33% 7
No	41.67% 5
TOTAL	12

#	COMMENTS:	DATE
1	If the label allows aerial applications, we assume it allows UAV's	10/21/2022 8:56 AM
2	Would appreciate more information/guidance on how aerial application applies to uav.	10/20/2022 4:48 PM
3	We tell them of the impracticality of some labels and the fact that they must comply and then tell them things they must comply with...the one most obvious is to apply 5 gallons to an acre.	10/14/2022 5:26 PM
4	See answers to Q 11	10/13/2022 2:40 PM
5	We are not aware of difficulties interpreting labels, however since this is new technology there may be limited use thus far	10/12/2022 2:40 PM
6	Very few have clear language allowing or providing direction for UAV applications. Drift reduction language (boom length, etc) doesn't seem to be applicable to UAVs	10/12/2022 11:45 AM
7	Not specific for UAVs	10/12/2022 10:56 AM

Q11 If yes to #10, please select which part(s) of the label. More than one response is acceptable.

Answered: 10 Skipped: 8



ANSWER CHOICES	RESPONSES
None of the above	20.00% 2
Worker Protection (WPS, etc.)	40.00% 4
Application method (non-descriptive aerial, for instance)	80.00% 8
Nozzle angle or type	80.00% 8
Boom length(s)	70.00% 7
Application rate(s)	60.00% 6
Certification requirements (aerial vs site based, etc.)	30.00% 3
Other (please specify)	10.00% 1
Total Respondents: 10	

#	OTHER (PLEASE SPECIFY)	DATE
1	labels do not address number, size or configuration of UAV e.g., rotor or fixed wing	10/13/2022 2:40 PM

Q12 Are there any other questions or comments your state has regarding pesticide applications using UAV's? Please provide as much detail as possible.

Answered: 10 Skipped: 8

#	RESPONSES	DATE
1	Guidance from EPA regarding label interpretation, and data related to pesticide deposition and drift characteristics of the various UAV types would be very helpful.	10/21/2022 7:16 PM
2	Regarding to Question #4 - Under Aerial category, we have approximately 105 applicators certified and we do not separate those that use UAVs and those who do not.	10/21/2022 8:56 AM
3	Clarification on the different types of UAVs, and how these apply to current aerial application use directions would be helpful to states. Application technology continues to change quickly. For question #4 - We do not have a UAV category or license; it is for aerial application	10/20/2022 4:48 PM
4	Labels are not written for drones. If the registrants are interested in this, they should be required to redo their labels to address the needs of this community.	10/14/2022 5:26 PM
5	What will the requirements be for the pilot in regard to distance? FAA has granted some companies the ability to fly beyond visual line of sight (BVLOS). Will EPA allow UAV pesticide applications to be made BVLOS?	10/13/2022 2:40 PM
6	Currently, if MA allows for applications by UAV's, labels need to be "vague" in that there isn't a prescribed aerial method of application.	10/13/2022 9:04 AM
7	We need to modify aerial test to include questions on use of UAV's. We are requiring FAA license as well (Part 307) I believe.	10/12/2022 2:44 PM
8	Same License as for standard Aerial application; how many applicators/companies are making UAV applications unknown but at least a few.	10/12/2022 11:45 AM
9	Indiana believes that the national aerial manual and exam should contain UAV's. A job consists of it's constituent tasks, not the equipment used.	10/12/2022 10:57 AM
10	Basically the process of becoming licensed with FAA (what license is needed) and then the pesticide license required by the state.	10/12/2022 10:56 AM