## PUBLIC SAFETY DRONES: AN UPDATE

DAN GETTINGER MAY 2018

In this update to the Center for the Study of the Drone's database of public safety agencies with drones, we estimate that at least 910 state and local police, sheriff, fire, and emergency services agencies in the U.S. have acquired drones. In this revised count, we uncovered more agencies that had acquired drones prior to 2017 than previously reported, and we estimate that the number of public safety agencies with drones has increased by approximately 82 percent in the last year alone. All told, there are now more than twice as many agencies that own drones as there are agencies that own manned aircraft in the U.S.

This database includes all known law enforcement and emergency response agencies that are reported to own at least one drone. It may not, however, reflect the total number of agencies that have used drones at some point, as it is not uncommon for an agency to receive drone services from nearby agencies or to contract the services of a local drone operator. This database is based on a combination of local media reports and government records.

#### *METHODOLOGY*

This survey is based on local media reports as well as official records such as FAA aircraft registrations, FAA Part 107 Waivers, and local government minutes and publications. Thirty-four agencies were contacted by the author to confirm their acquisition of a drone. In addition to local law enforcement and first responder agencies, this dataset includes city and county emergency services agencies that have acquired drones, as well as statewide offices such as highway patrol and fire marshals. In compiling this database, we did not include agencies that were reported to have borrowed a drone or contracted drone services from a third-party. We did include agencies that have purchased drones for training purposes and we have included public sector agencies that, while not entirely dedicated to public safety, have expressed an their intention to use those drones for public safety missions such as search and rescue. As

#### KEY TAKEAWAYS

- At least 910 state and local police, sheriff, fire and EMS, and public safety agencies have acquired drones in recent years;
- Law enforcement agencies make up two-thirds (599) of the public safety agencies with drones;
- The majority of drones operated by public safety agencies are consumer and prosumer models;
- There are more than twice as many public safety agencies with drones as there are agencies with manned aircraft.

this is an informal survey based on a variety of source materials, it should be viewed as an estimate and not as an official tally of public safety drone programs.

An additional source of material for this update was a list of civil and public agencies that have received Certificates of Authorization (COA) to fly drones. Certificates of Authorization and Part 107 Waivers are two types of additional approval that some drone operators may choose to pursue depending on the location or type of planned operation. (Not all public safety agencies are required to obtain either approval to begin flying.) This data was released by the Federal Aviation Administration in October 2017 in response to a Freedom of Information Act request by Muckrock. Each of the 94 new agencies in the dataset that were added based on having received a COA have been verified by a second source. For more on the methodology, please see our April 2017 study.

Edited by Arthur Holland Michel. Editorial support provided by Elizabeth Fitzgerald. Presentation by Dan Gettinger. Copyright © 2018 Center for the Study of the Drone at Bard College

#### **FINDINGS**

#### Agency Type

Of the 910 public safety agencies in our dataset, 302 are sheriff or county police (33 percent), 278 are municipal police (30 percent), 186 are municipal and county fire or EMS (20 percent), 107 are municipal and county emergency management and public safety agencies (12 percent), and 37 are statewide public safety agencies such as highway patrol and fire marshall (4 percent). Some city, county, and state public safety agencies have acquired drones for use by multiple different agencies. This proportion of agencies according to type has not changed significantly since the Center's April 2017 report.

#### Location

Public safety agencies that have acquired drones are located in 619 counties in every U.S. state except for Rhode Island. Texas (67), California (58), and Wisconsin (56) lead the states in terms of the number of agencies with drones. Twenty-eight states have at least one statewide public safety agency with drones, up from 17 states in our previous estimate. Of the 619 counties with a municipal or county public safety department drone, 152 are home to two or more public safety agencies with drones. The county with the greatest number of public safety agencies with drones is Cook County, Illinois, which has 11 agencies with drones.

#### Date of Acquisition\*

We have established the approximate year that a public safety department started its drone program for 860 of 910 agencies. Between 2009 and 2015, at least 148 agencies appeared to have started a drone program. In 2016, 258 agencies appeared to have started a drone program—more than all the prior years combined—and in 2017, 334 agencies. In 2017, the total number of agencies with drones increased by 82 percent. As of this writing, 120 agencies appear to have acquired drones in 2018.

\*This estimate is based on either the year as reported in local media or, in the case of FAA records, the year that the department received an N-number registration, COA, or Part 107 Waiver. As a result, it is difficult to know the precise origin date for each department's drone program.

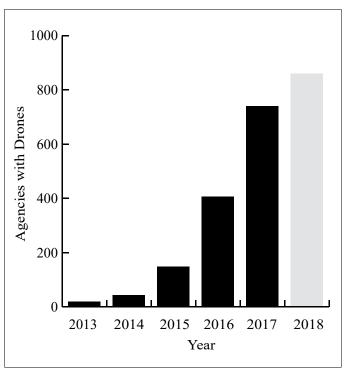


The Tulare County Sheriff's UAV Response Unit. Photo courtesy of the Tulare County Sheriff.

#### **Public Safety Agencies with Drones**

Agency Type	Qty
County Police and Sheriff	302
Municipal Police	278
Fire and EMS	186
City/County Emergency Management	107
Statewide Agency	37

#### Public Safety Agencies with Drones by Year\*



\*Data is available for 860 of the 910 agencies.

#### Drone Type

We have determined the drone manufacturer and model for 627 of the 910 agencies in the database. Of these 627 agencies, the majority (523) have acquired at least one drone from DJI, the Chinese manufacturer of consumer and prosumer drones. Of the 627 agencies, 260 (41 percent) have acquired one or more DJI Phantom\* and 211 agencies (33 percent) have acquired one or more DJI Inspire. At least 103 agencies (16 percent) have acquired either a DJI Matrice or DJI Mavic. At least 31 agencies own a drone made by Yuneec, making that company the second most popular drone manufacturer following DJI. There are 28 companies and 42 drone models contained in the database.

\*Numbered variants of the same model are classified as the same system; drones such as the DJI Phantom 3 and Phantom 4 are listed only as "DJI Phantom."

#### Number of Drones per Agency

Approximately 21 percent of agencies (194) appear to have acquired more than one drone, although the true number of agencies with multiple drones is likely higher. These agencies have on average three drones per department. Three statewide agencies—the New York State Police, Texas Department of Public Safety, and Louisiana Fire Marshal's Office—have acquired more than 10 drones. The local law enforcement agencies with the greatest number of drones are the Polk County Sheriff, FL (20 drones); San Diego County Sheriff, CA (10); Alameda County Sheriff, CA (10); Palm Beach County Sheriff, FL (9); and Rockford Police Department, IL (9).

#### Acquisition Method and Cost

Public safety agencies acquire drones in different ways. Of the 161 agencies for which this information is available, 74 have acquired a drone with a donation, 39 with grants, 26 with seized or forfeited funds, 17 with budgeted funding, and 5 by other means. The average cost of acquiring one or more drones was \$18,117 while the median was \$10,000. (Cost data is available for 172 of 910 agencies. It does not necessarily reflect budgeted expenditures and may include additional costs such as sensors and training.) As of March 2018, we have not observed any transfers of unmanned aircraft from the U.S. military to local law enforcement through the Defense Logistics Agency's 1033 program.

#### Common Public Safety Drone Manufacturers\*

Mfr	Agencies
DJI	523
Yuneec	31
Physical Sciences	14
Draganfly	10
Parrot	8
Leptron	8

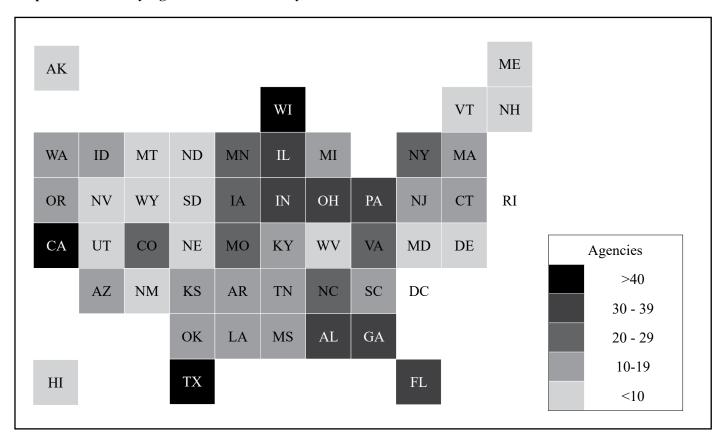
#### Common Public Safety Drones\*

Mfr	Mdl	Agencies**
DJI	Phantom	260
DЛ	Inspire	211
DЛ	Matrice	61
DЛ	Mavic	42
Yuneec	Typhoon	30
Physical Sciences	InstantEye	14
Draganfly	Draganflyer	10
3DR	Solo	9
Leptron	RDASS	8
Aeryon	Skyranger	6
Parrot	AR Drone	5
Lockheed Martin	Indago	5
Autel	X-Star Premium	5
Maxsur	Seeker	4
GoPro	Karma	3

<sup>\*</sup>Data is available for 627 of 910 agencies. Some agencies have more than one type of drone.

<sup>\*\*</sup>Reflects the number of agencies with at least one drone of each model. Does not reflect the total number of units in service.

## Map of Public Safety Agencies with Drones by State



## List of Public Safety Agencies with Drones by State

ALABAMA	31
ALASKA	2
ARIZONA	16
ARKANSAS	10
CALIFORNIA	58
COLORADO	27
CONNECTICUT	18
DELAWARE	8
FLORIDA	38
GEORGIA	34
HAWAII	1
IDAHO	12
ILLINOIS	39
INDIANA	35
IOWA	24
KANSAS	17
KENTUCKY	11

LOUISIANA	17
MAINE	3
MARYLAND	6
MASSACHUSETTS	18
MICHIGAN	14
MINNESOTA	29
MISSISSIPPI	10
MISSOURI	22
MONTANA	2
NEBRASKA	6
NEVADA	8
NEW HAMPSHIRE	4
NEW JERSEY	13
NEW MEXICO	2
NEW YORK	28
NORTH CAROLINA	20
NORTH DAKOTA	6

OHIO 38 OKLAHOMA 14 OREGON 18 PENNSYLVANIA 31 SOUTH CAROLINA 17 SOUTH DAKOTA 6 TENNESSEE 19 TEXAS 67 UTAH 9 VERMONT 1 VIRGINIA 26 WASHINGTON 14 WEST VIRGINIA 3 WISCONSIN 56 WYOMING 2		
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TENNESSEE 19 TEXAS 67 UTAH 9 VERMONT 1 VIRGINIA 26 WASHINGTON 14 WEST VIRGINIA 3 WISCONSIN 56	SOUTH CAROLINA	17
TEXAS 67 UTAH 9 VERMONT 1 VIRGINIA 26 WASHINGTON 14 WEST VIRGINIA 3 WISCONSIN 56	SOUTH DAKOTA	6
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VERMONT 1 VIRGINIA 26 WASHINGTON 14 WEST VIRGINIA 3 WISCONSIN 56	TEXAS	67
VIRGINIA 26 WASHINGTON 14 WEST VIRGINIA 3 WISCONSIN 56	UTAH	9
WASHINGTON 14 WEST VIRGINIA 3 WISCONSIN 56	VERMONT	1
WEST VIRGINIA 3 WISCONSIN 56	VIRGINIA	26
WISCONSIN 56	WASHINGTON	14
	WEST VIRGINIA	3
WYOMING 2	WISCONSIN	56
	WYOMING	2

# COMPARISON TO MANNED PUBLIC SAFETY AIRCRAFT\*

The majority of agencies that operate drones did not previously possess their own aerial capability. Of the 910 public safety agencies with drones, 80 also fly a manned aircraft. (Of course, public safety manned aircraft are probably more frequently used to support multiple agencies in a given area than drones.) One-hundred and twenty-five counties contain at least one public safety agency with a manned aircraft and one agency with a drone.

Municipal and county law enforcement jurisdictions with manned aircraft tend to be significantly larger in terms of the number of personnel than jurisdictions with drones. According to the Department of Justice's <u>Uniform Crime Reporting</u> law enforcement employee data, the municipalities with at least one law enforcement drone employ on average 272 law enforcement officer and civilian personnel. Meanwhile, municipalities with at least one manned aircraft employ, on average, 2,409 law enforcement personnel. County-level law enforcement agencies with drones employ an average of 343 officer and civilian personnel, while county-level law enforcement agencies with manned aircraft employ an average of 774 personnel.

Public safety departments with drones and departments with manned aircraft tend to look pretty different from one another in other ways:

 Public safety departments with drones are more widely distributed across the U.S. than departments with manned aircraft. For example, while just 16 percent of all departments with manned aircraft are located in the northeast and midwest (Census Regions 1 and 2), approximately 45 percent public safety

#### **Public Safety Aviation Summary**

Agencies with	Qty
Drones	910
Aircraft	338
Both Drones and Aircraft	80

departments with drones are located in these regions.

- The average population of all counties with manned aircraft owned by public safety departments is 94 percent greater than the average population of all counties with department-owned drones.
- Compared to drone-operating agencies, of which two-thirds are explicitly law enforcement departments,
   90 percent of public safety departments that operate manned aircraft (309 out of 338) work in law enforcement.
- Fewer than five municipal or county emergency management agencies fly manned aircraft, whereas 107 municipal or county emergency management agencies own drones. Similarly, while just 18 fire departments own manned aircraft, there are at least 186 fire departments with drones.

\*The manned public safety aircraft data was sourced from the FAA's Aircraft Registry. The law enforcement personnel data was sourced from the Department of Justice police employee data from 2016, the most recent year for which data is available. The DoJ's UCR data does not include all law enforcement departments, nor does it reflect fire or EMS personnel. UCR law enforcement employee data was available for approximately 80 percent of municipalities and counties with drones or manned aircraft. County population data was sourced from the 2010 U.S. Census. For more on manned public safety aviation, see page 14.

#### Municipal and County Law Enforcement Agencies with Drones and Manned Aircraft by Size

	Muni	cipal	County		
Agency Size	Agencies with Drones	Agencies with Aircraft	Agencies with Drones	Agencies with Aircraft	
More than 5,000 Employees	1	5	1	2	
1,000 - 5,000	9	30	11	17	
500 - 1,000	12	10	19	19	
100 - 500	96	22	101	44	
Fewer than 100 Employees	122	3	108	25	

## APPENDIX 1: PUBLIC SAFETY DEPARTMENTS WITH DRONES

For the full database, please visit dronecenter.bard.edu.

Anchorage Police Department	AK	Rogers Police Department	AR	Fremont Fire Department	CA
Fairbanks Police Department	AK	Sherwood Police Department	AR	Fremont Police Department	CA
Autauga County Emergency	A.T.	Union County Sheriff	AR	Kern County Sheriff	CA
Management Agency	AL	West Memphis Fire Department	AR	Lodi Police Department	CA
Birmingham	AL	Arizona Department of Correc-	. 7	Los Angeles County Sheriff	CA
Blount County	AL	tions	AZ	Los Angeles Fire Department	CA
Clanton Police Department	AL	Arizona Department of Public	AZ	Los Angeles Police Department	CA
Coffee County Sheriff	AL	Safety		Los Banos Police Department	CA
Cullman Police Department	AL	Chandler Police Department	AZ	Menlo Park Fire Department	CA
Dale County Sheriff	AL	Cochise County Sheriff	AZ	Merced County Sheriff	CA
Dallas County Sheriff	AL	Gila River Police Department	AZ	Merced Police Department	CA
Etowah County Sheriff	AL	Maricopa County Sheriff	AZ	Modesto Police Department	CA
Gadsden Police Department	AL	Maricopa Police Department	AZ	Moraga-Orinda Fire District	CA
Henry County Sheriff	AL	Mesa Fire and Medical	AZ	Newark Police Department	CA
Hoover Police Department	AL	Navajo County Sheriff	AZ	Oakdale Police Department	CA
Houston County Sheriff	AL	Oro Valley Police Department	AZ	Pomona Police Department	CA
Jasper Fire Department	AL	Paradise Valley Police Department	AZ	Rancho Cucamonga Fire Protec-	
Jefferson County Sheriff	AL	Phoenix Fire Department	AZ	tion District	CA
Lauderdale County Sheriff	AL	Sahuarita Police Department	AZ	Redding Police Department	CA
Lee County Sheriff	AL	Salt River Police Department	AZ AZ	Redwood City Fire Department	CA
Limestone County Sheriff	AL	Scottsdale Police Department	AZ	Rialto Fire Department	CA
Mobile County Sheriff	AL	Sedona Fire Department	AZ	Richmond Police Department	CA
Mobile Police Department	AL	Alameda County Sheriff's Office	CA	Ripon Consolidated Fire District	CA
Montgomery County Sheriff	AL	Anaheim Fire and Rescue	CA	Ripon Police Department	CA
Pelham Police Department	AL	Anderson Police Department	CA	Riverside County Sheriff	CA
Priceville Police Department	AL	Azusa Police Department	CA	San Bernardino County Fire	CA
Rainbow City Police Department	AL	Bakersfield Fire Department	CA	Protection District	CA
Russell County Sheriff	AL	Barstow Police Department	CA	San Bernardino Police Depart-	CA
Russellville Police Department	AL	Beaumont Police Department	CA	ment San Diego County Sheriff's	
Selma Police Department	AL	Cal State Monterey University	CA	Department	CA
Shelby County Sheriff	AL	Police Department	CA	San Jose Police Department	CA
Talladega County Sheriff	AL	Calaveras County Sheriff	CA	Seaside Fire Department	CA
University of Alabama in Hunts-	AL	Chino Police Department	CA	Sonoma County Sheriff	CA
ville Police Department		Chula Vista Police Department	CA	Stanislaus County Sheriff	CA
Vestavia Hills Fire Department	AL	Contra Costa County Sheriff	CA	Stockton Police Department	CA
Benton Police Department	AR	Cosumnes Fire Department	CA	Torrance Police Department	CA
Jackson County Sheriff	AR	Culver City Police Department	CA	Tulare County Sheriff	CA
North Little Rock Police Department	AR	El Dorado County District	CA	Tulare Fire Department	CA
Ouachita County Sheriff	AR	Attorney		Tuolumne County Sheriff	CA
Polk County Emergency Manage-		El Dorado County Sheriff	CA	Upland Police Department	CA
ment Office	AR	Escalon Police Department	CA	Vacaville Police Department	CA
Pulaski County Sheriff	AR	Fontana Police Department	CA	Ventura County Sheriff	CA
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Fairfield County Hazardous Incident Response Team  Hartford Police Department  CT  Madeira Beach Fire Department  CT  Martin County Fire Rescue  Milford Police Department  CT  Martin County Fire Rescue  Miami Beach Police Department  Miami Dade Schools Police  Department  CT  Orange Fire Department  CT  Orange Police Department  CT  Plainfield Police Department  CT  Lake County Sheriff  FL  Agement Agency  Gwinnett County Police Department  Habersham County Sheriff  GA  Henry County Police Department  GA  Henry County Police Department  GA  Henry County Police Department  GA  LaGrange Police Department  GA  Lawrenceville Police Department  GA  Orange County Sheriff  FL  Macon-Bibb County Emergency  Management Agency  GWinnett County Police Department  GA  Henry County Police Department  GA  LaGrange Police Department  GA  Lawrenceville Police Department  GA  Orange County Sheriff  FL  Macon-Bibb County Emergency  Management Agency  Morrow Police Department  GA  Morrow Police Department  GA  Newton County Sheriff  GA  Newton County Sheriff  GA	•		•			
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Plainfield Police Department CT  South Windsor Police Depart-  CT  Orlando Fire Department FL  Palm Beach County Sheriff  FL  Newton County Sheriff  GA  Newton County Sheriff	• •		Orange County Sheriff	FL		GA
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South whitsof Fonce Depart-	•	CT	Palm Beach County Sheriff	FL	•	
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Pelham Police Department	GA	Power County Sheriff	ID	Bargersville Police Department	IN
Richmond Hill Police Depart-	GA	St. Anthony Police Department	ID	City of Crown Point (Public	IN
ment		Twin Falls County Sheriff	ID	Safety)	
Roswell Police Department	GA	Adams County Emergency Man-	IL	Clinton County Sheriff	IN
Sandy Springs Police Department	GA	agement Agency		Elkhart Police Department	IN
Spalding County Sheriff	GA	Alsip Fire Department	IL	Fishers Police Department	IN
Thomas County Sheriff	GA	Belleville Fire Department	IL	Fort Wayne Police Department	IN
Whitfield County Sheriff	GA	Carpentersville Fire Department	IL	Franklin Police Department	IN
Maui Police Department	HI	Champaign Fire Department	IL	Gary Police Department	IN
Allamakee County Sheriff	IA	City of Peru	IL	Greenfield Police Department	IN
Black Hawk County UAS Aerial Response Team	IA	Columbia Fire Department	IL	Hammond Police Department	IN
Boone County Sheriff Depart-	IA	Country Club Hills Police Department	IL	Henry County Office of Emergency Management	IN
ment  Duana Vista County Shariff	TA	DuPage County Sheriff	IL	Indiana Department of Natural	TNI
Buena Vista County Sheriff Butler County Emergency Man-	IA IA	Effingham County Emergency Management Agency	IL	Resources Law Enforcement Division	IN
agement		Elgin Fire Department	IL	Indianapolis Metropolitan Police Department	IN
Clear Lake Fire Department	IA	Evergreen Park Fire Department	IL	Jackson County Sheriff	IN
Council Bluffs Fire Department	IA	Forest Park Police Department	IL	Jasper County Sheriff	IN
Decorah Fire Department	IA	Franklin County Sheriff	IL	La Porte Fire Department	IN
Dickinson County Department of Emergency Management	IA	Glenview Fire Department	IL	Lebanon Police Department	IN
Dubuque Fire Department	IA	Granite City Police Department	IL	Madison County Emergency	
Dubuque Police Department	IA	Gurnee Police Department	IL	Management	IN
Fayette County Sheriff	IA	Hanover Park Police Department	IL	Noble County Sheriff's Depart-	IN
Floyd County Emergency Man-		<b>Huntley Fire Protection District</b>	IL	ment	
agement	IA	Illinois State Police	IL	Perry County Emergency Management Agency	IN
Jasper County Emergency Man-	IA	Jo Daviess County Sheriff	IL	Porter County Sheriff	IN
agement Agency		Kendall County Sheriff	IL	Princeton Fire Territory	IN
Jefferson County Sheriff Office	IA	Kewanee Police Department	IL	Richmond Fire Department	IN
Jones County Sheriff	IA	Lake County Major Crash Assis-	IL	Richmond Police Department	IN
Kossuth County Sheriff's Department	IA	tance Team		Ripley County Sheriff	IN
Mitchell County Emergency Services	IA	Madison County Sheriff Naperville Fire Department	IL IL	Tippecanoe County Sheriff's Office	IN
Perry Fire Department	IA	Northbrook Police Department	IL	Valparaiso Police Department	IN
Polk County Emergency Man-		Ogle County Sheriff	IL	Vanderburgh County Emergency	
agement	IA	Orland Fire Protection District	IL	Management Agency	IN
Sioux County Sheriff	IA	Orland Park Police Department	IL	Vanderburgh County Sheriff	IN
Storm Lake Police Department	IA	Plainfield Fire Protection District	IL	Vigo County Sheriff	IN
Waterloo Fire Department	IA	Pontiac Police Department	IL	Warrick County Seriff's Office	IN
Winthrop Fire Department	IA	Robinson Police Department	IL	Wayne Township Fire Depart-	IN
Ada County Sheriff	ID	Rockford Fire Department	IL	ment	111
Bannock County Sheriff	ID	Rockford Police Department	IL	Zionsville Fire Department	IN
Blaine County Search and Rescue	ID	Romeoville Fire Department	IL	Cheyenne County Sheriff	KS
Canyon County Sheriff	ID	Streator Fire Department	IL	Dodge Police Department	KS
Gem County Sheriff	ID	Utica Fire Protection District	IL	Galena Fire Department	KS
Idaho Falls Police Department	ID	Winnetka Fire Department	IL	Harvey County Emergency Response Team	KS
Idaho State Police	ID	Angola Police Department	IN	Johnson County Sheriff	KS
Meridian Police Department	ID	Bargersville Community Fire	IN	Kansas City Police Department	KS
Nampa Police Department	ID	Department		reamons City I office Department	IXD

MA M	Duluth Fire Department Freeborn County Sheriff Goodhue County Sheriff Hamel Fire Department Hennepin County Sheriff's Office Hubbard County Sheriff Marshall County Sheriff Morrison County Sheriff Nicollet County Sheriff Otter Tail County Sheriff Owatonna Police Department Perham Fire Department Pipestone County Sheriff Polk County Sheriff Renville County Sheriff Renville County Sheriff Rochester Police Department St. Cloud Police Department Stearns County Sheriff's Office	MN M
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MD		MN
	Washington County Sheriff	MN
MD	Willmar Police Department	MN
MD	Windom Police Department	MN
MD	Winona County Sheriff	MN
ME	Wright County Sheriff	MN
ME	Boone County Fire Department	MO
ME	Camden County Sheriff	MO
MI	Cole County Emergency Response Team	MO
MI	Creve Coeur Police Department	МО
MI	Henry County Emergency Man-	MO
IVII	agement	MO
MI	Indian Point Police Department	MO
MI	Jackson County Sheriff	MO
MI	Jasper County Sheriff	MO
MI	Kansas City Missouri Police	MO
MI	Department	
MI	Lafayette County Sheriff	МО
MI	Logan Rogersville Fire Depart- ment	MO
MI	Maryville Department of Public	
MI	Safety	MO
MI	Missouri State Highway Patrol	MO
MI	Perry County Sheriff	MO
MN	Polk County Office of Emergency	MO
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MN MN	St. Louis County Police Depart- ment	MO
		MN Management  MN Randolph County Sheriff  MN Scott County Sheriff  MN Springfield Fire Department  MN St. Louis County Police Depart-

Stoddard County Sheriff	MO	Bellevue Fire Department	NE	Livingston County Sheriff	NY
University City Fire Department	MO	Buffalo County Sheriff	NE	Manlius Fire Department	NY
Wentzville Police Department	MO	La Vista Police Department	NE	Monroe County Sheriff	NY
Adams County Sheriff Calhoun County Emergency	MS	Region 21 Emergency Management	NE	Nassau County Police Department	NY
Management Agency	MS	Sarpy County Sheriff	NE	New Rochelle Police Department	NY
Desoto County Emergency Man-	MS	Waterloo Fire Department	NE	New York City Fire Department	NY
agement		Danville Police Department	NH	New York State Police	NY
Flowood Police Department	MS	Exeter Fire Department	NH	Niagara County Sheriff	NY
Gulfport Fire Department	MS	Lancaster Fire Department	NH	Orange County Emergency	NY
Mississippi State Fire Academy	MS	Webster Fire Department	NH	Services	
Monroe County Search and Rescue Team	MS	Bergen County Office of Emergency Management	NJ	Oswego County Sheriff Peekskill Police Department	NY NY
Pascagoula Law Enforcement	MS	Brick Township Police Depart-		Richmond County District Attor-	3.13.7
Prentiss County Sheriff	MS	ment	NJ	neys Office	NY
Rankin County Sheriff	MS	Camden County	NJ	Rome Police Department	NY
Great Falls Police Department	MT	Gloucester County Emergency	NJ	Saratoga County Sheriff	NY
Stillwater County Sheriff	MT	Response		Suffolk County Police Depart-	NY
Bertie County Sheriff	NC	Hawthorne Fire Department	NJ	ment	
Carova Beach Volunteer Fire &	NC	Holmdel Township Office of Emergency Management	NJ	Ulster County Sheriff	NY
Rescue		Middlesex Sheriff	NJ	Utica Police Department	NY
Cleveland County Sheriff	NC	Millstone Valley Fire Department	NJ	Washington County Department of Public Safety	NY
Durham Fire Department	NC	Ocean County Sheriff	NJ	West Seneca Police Department	NY
Fayetteville Police Department	NC	River Vale Police Department	NJ	Yorktown Police Department	NY
Granite Falls Fire Department	NC	Saddle River Office of Emergen-		Allen County Emergency Man-	
Guilford County Sheriff	NC	cy Management	NJ	agement Agency	ОН
Harnett County Emergency Services	NC	Somerset County Sherif's Office	NJ	Auglaize County Sheriff	ОН
Hendersonville Police Depart-	NG	Wyckoff FIre Department	NJ	Avon Police Department	ОН
ment	NC	New Mexico State Police	NM	Beavercreek Police Department	ОН
Iredell County Sheriff	NC	New Mexico State University	NM	Blue Ash Police Department	ОН
Johnston County Sheriff	NC	Police		Butler County Sheriff's Office	ОН
Kinston Police Department	NC	Carson City Fire Department	NV	Cincinnati Police Department	ОН
Lenoir County Emergency	NC	Clark County Fire Department	NV	Cleveland Police Department	ОН
Services		Elko County Sheriff	NV	Coshocton County Sheriff	ОН
Moore County Sheriff	NC	Henderson Fire Department	NV	Cuyahoga Community College	ОН
New Hanover County Emergency Management	NC	Las Vegas Metropolitan Police Department	NV	Police Department	
North Carolina Department of		Nevada Highway Patrol	NV	Darke County Sheriff	OH
Public Safety	NC	Reno Fire Department	NV	Dayton Fire Department	OH
Randolph County Sheriff	NC	Washoe County Emergency Man-		Erie County Sheriff	ОН
Wake Forest Fire Department	NC	agement and Homeland Security	NV	Fremont Police Department	OH
Wayne County Sheriff	NC	Albany County Sheriff	NY	Geauga County Sheriff	OH
Wrightsville Beach Fire Depart-	NC	Cayuga County Sheriff	NY	Guernsey County Sheriff	ОН
ment		Clarkstown Police Department	NY	Hamilton County Sheriff	ОН
Billings County Sheriff	ND	Elmira Police Department	NY	Huron County Sheriff	ОН
Burleigh County Sheriff	ND	Fulton County Sheriff	NY	Independence Fire Department	ОН
Cass County Sheriff	ND	Greenburgh Police Department	NY	Lake County Public Safety Office	ОН
Fargo Fire Department	ND	Greene County Sheriff	NY	Logan Police Department	ОН
Grand Forks Sheriff	ND	Jamestown Police Department	NY	Mahoning County Sheriff	ОН
Morton County Sheriff	ND	•		Medina County Sheriff Office	ОН
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Mercer County Sheriff	ОН	North Lincoln Fire and Rescue	OR	Warren County Department of	PA
Northwood Police Department	OH	Oregon Police Department	OR	Public Safety	CC
Ohio Attorney General's Office	OH	Oregon State Police	OR	Aiken County Sheriff	SC SC
Oregon Police Division	ОН	Tualatin Valley Fire and Rescue	OR	Anderson County Sheriff	
Ottawa County Sheriff	OH	Umatilla County Sheriff	OR	Berkely County Resuce	SC
Parma Police Department	ОН	Allegheny County	PA	Cherokee County Sheriff	SC
Putnam County Sheriff Richland County Sheriff	OH OH	Association of Blair County Law Enforcement	PA	Florence County Emergency Response Team	SC
Shelby County Sheriff	ОН	Back Mountain Community	D.4	Goose Creek Fire Department	SC
Streetsboro Police Department	OH	Partnership	PA	Greenville County Sheriff	SC
Toledo Police Department	OH	Beaver County Emergency	PA	Horry County Fire Rescue	SC
Union County Sheriff	OH	Services	ъ.	Horry County Police Department	SC
•	OH	Bethlehem Police Department	PA	Jasper County Emergency Ser-	SC
Washington County Sheriff		Blakely Ambulance and Rescue	PA	vices	
Willoughby Fire Department	OH	Chambersburg Fire Department	PA	Mount Pleasant Police Depart- ment	SC
Wood County Sheriff	OH	Chester County Department of Emergency Services	PA	Murrells Inlet Garden City Fire	
Broken Arrow Police Department	OK	Chester County Sheriff	PA	District	SC
Canadian County Department of Emergency Management	OK	Coolbaugh Township Volunteer	rA	Myrtle Beach Police Department	SC
Choctaw County Emergency		Fire Department	PA	Pickens County Sheriff	SC
Management Agency	OK	Crafton Police Department	PA	Richland County Sheriff	SC
Choctaw County Sheriff	OK	Delaware County Department of	D.4	South Carolina Highway Patrol	SC
Delaware County Sheriff	OK	Emergency Services	PA	York County Sheriff	SC
Duncan Police Department	OK	Dover Township Fire Department	PA	Brookings Fire Department	SD
Grant County Emergency Man-	OV	Greensburg Fire Department	PA	Brown County Emergency Man-	
agement	OK	Hazmat 2 Environmental Fire	PA	agement	SD
Miami Police Department	OK	Rescue		Davison County Search and	SD
Pittsburg County Emergency Management	OK	Lehigh County Emergency Management	PA	Rescue Lincoln County Emergency Man-	
Pottawatomie County Sheriff	OK	Lehigh University Police Depart-	PA	agement Department	SD
Rogers County Sheriff	OK	ment		South Dakota Highway Patrol	SD
Sapulpa Police Department	OK	Lower Makefield Township Police Department	PA	Union County Sheriff	SD
Stillwater Emergency Manage-	OK	Montgomery County Correction-	ъ.	Bartlett Police Department	TN
ment Agency	OK	al Facility	PA	Blount County Rescue Squad	TN
Tulsa Fire Department	OK	Montgomery County Department	PA	Bristol	TN
Bend Police Department	OR	of Public Safety		Carter County Sheriff	TN
Benton County Sheriff	OR	Montgomery County Sheriff	PA	Columbia Fire Department	TN
Cannon Beach Rural Fire Protection District	OR	Mount Carmel Township Police Department	PA	Crossville Police Department	TN
Coos County Sheriff	OR	Murrysville Police Department	PA	Dickson County Sheriff	TN
Deschutes County Sheriff	OR	Northern Regional Police Depart-	PA	Hamilton County Emergency Services	TN
Eugene Springfield Fire Depart-	OR	ment  Phoenixville Police Department	PA	Hamilton County Sheriff	TN
ment Crasham Palica Denoutment	OR	Pittsburgh Public Safety Depart-		Hawkins County Sheriff	TN
Gresham Police Department		ment	PA	Johnson City Police Department	TN
Hamlet Fire Department	OR OR	Scranton Police Department	PA	Memphis Police Department	TN
Jackson County Fire Department	OR	Southern Chester County Region-	PA	Oak Ridge Fire Department	TN
Jackson County Sheriff's Search and Rescue	OR	al Police Department Susquehanna County District		Obion County Sheriff	TN
Jefferson County Sheriff	OR	Attorneys Office	PA	Rutherford County EMS	TN
Juniper Flat Rural Fire Protection District	OR	Upper Uwchlan Police Depart- ment	PA	Rutherford County Sheriff Spring Hill Police Department	TN TN
Lincoln County Sheriff	OR	on		-r ronce Department	111
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Wayne County Sheriff	TN	Mansfield Fire Department	TX	Fairfax Fire and Rescue Depart-	VA
Williamson County Sheriff	TN	Mansfield Police Department	TX	ment Fredericksburg Police Depart-	
Abilene Police Department	TX	McAllen Independent School	TX	ment	VA
Argyle Fire District	TX	District Police Department	TV	George Mason Police Department	VA
Arlington Police Department	TX	Midland County Sheriff	TX	Grayson County	VA
Athens Fire Department	TX	Montgomery County Sheriff	TX	Harrisonburg Police Department	VA
Austin Fire Department Robotics	TX	Navarro County Sheriff	TX	Henrico County	VA
Emergency Deployment Team Bastrop County Emergency Ser-		Nueces County Sheriff	TX TX	Loudoun County Sheriff	VA
vices District 2	TX	Paris Fire Department Pecos Police Department	TX	Martinsville Fire and EMS	VA
Beaumont Police Department	TX	•	TX	Middlesex County Sheriff	VA
Brazoria County	TX	Prosper Fire Department	TX	Petersburg Police Department	VA
Brown County Sheriff	TX	Reeves County Sheriff		Pittsylvania County Sheriff	VA
Brownsville Fire Department	TX	Sabine Volunteer Fire Department	TX	Prince George County Fire and	VA
Bryan Fire Department	TX	San Marcos Police Department	TX	EMS	VA
Burleson County Sheriff	TX	Smith County Sheriff	TX	Richmond Fire Department	VA
Burleson Fire Department	TX	Somervell County Emergency Management	TX	Rockingham County Department of Fire and Rescue	VA
Corpus Christi Fire Department	TX	South Padre Island Police De-	TX	Russell County Sheriff	VA
Corpus Christi Police Department	TX	partment		Spotsylvania Sheriff	VA
Denton County Emergency	TX	Temple Police Department	TX	Stafford County Sheriff	VA
Services		Texas City Emergency Manage- ment	TX	Tazewell County Sheriff	VA
DeWitt County Sheriff	TX	Texas Department of Public		Virginia Beach Fire Department	VA
Ector County Sheriff	TX	Safety	TX	Virginia Beach Police Depart-	
El Paso Fire Department Special Ops	TX	Texas Parks and Wildlife Department	TX	ment	VA
Everman Police Department	TX	Texas State Fire Marshals Office	TX	Virginia Department of Emergen- cy Management	VA
Fort Bend County Office of Emergency Management	TX	Tom Green County Sheriff	TX	York County Emergency Man-	VA
Fort Worth Fire Department	TX	Tyler Police Department	TX	agement Agency	ve
Goliad County Sheriff	TX	Victoria Police Department	TX	Grand Isle County Sheriff	VT
Harris County Sheriff	TX	Webster Police Department	TX	Adams County Sheriff	WA
Heath Department of Public		Wichita Falls Fire Department	TX	Auburn Police Department	WA
Safety	TX	Wood County Sheriff	TX	Clark County Sheriff	WA
Hewitt Police Department	TX	Beaver County Sheriff	UT	Cowlitz County Sheriff	WA
Hill County Emergency Manage-	TX	Box Elder County Sheriff	UT	Grant County Sheriff	WA
ment		Davis County Sheriff	UT	Kitsap County Sheriff	WA
Hopkins County Sheriff	TX	Lindon City Police	UT	Lakewood Police Department	WA
Houston Fire Department	TX	Orem Police Department	UT	Pullman Police Department	WA
Hurst Fire Department	TX	Provo Police Department	UT	Renton Police Department	WA
Hurst Police Department	TX	Utah County Sheriff	UT	Skagit County Sheriff	WA
Johnson County Emergency Management	TX	Utah Division of Emergency Management	UT	Snohomish County Fire Protection District #22	WA
Joshua Fire Department	TX	Utah Highway Patrol	UT	Spokane Fire Department	WA
Kilgore Fire Department	TX	Albemarle County Fire and		Tukwila Police Department	WA
La Porte Fire Department	TX	Rescue	VA	Wahkiakum County Department of Emergency Management	WA
Lake Jackson Police Department	TX	Albemarle County Sheriff	VA	Adams County Sheriff	WI
Lamar County	TX	Bedford Fire Department	VA	Appleton Fire Department	WI
Laredo Police Department	TX	Caroline County Department	VA	Barron County Sheriff	WI
Liberty County Sheriff	TX	of Fire, Resuce & Emergency Management	VA	Brillion Police Department	WI
Lubbock Police Department	TX	Č		Chippewa County Sheriff	WI
				Chippewa County Shellii	VV I

Columbia County Sheriff	WI
Columbus Fire Department	WI
Crawford County Emergency Management	WI
Dane County Emergency Management	WI
Dodge County Sheriff	WI
Door County Sheriff	WI
Eau Claire County Sheriff	WI
Elk Mound Police Department	WI
Fond du Lac County Sheriff	WI
Footville Fire Department	WI
Forest County Sheriff	WI
Franklin Police Department	WI
Grant County Emergency Management	WI
Green Lake County Sheriff	WI
Greenfield Police Department	WI
Jackson County Sheriff	WI
Janesville Fire Department	WI
Janesville Police Depatment	WI
Kewaunee County Sheriff	WI
Lake Geneva Police Department	WI
Lincoln County Sheriff	WI
Linn Police Department	WI
Madison Police Department	WI
Manitowoc Police Department	WI
Marathon County Sheriff	WI
Middleton Fire Department	WI
Minocqua Fire Department	WI
Muskego Police Department	WI
Neenah Police Department	WI
Newbold Fire Department	WI
Oconto County Sheriff	WI
Oostburg Fire Department	WI
Outagamie County Sheriff	WI
Plover Police Department	WI
Price County Sheriff	WI
Racine County Sheriff	WI
Ripon Fire Department	WI
Rock County Sheriff	WI
Sauk County Sheriff	WI
Shawano County Sheriff	WI
Sheboygan County Sheriff	WI
Superior Police Department	WI
Trempealeau County Sheriff	WI
Walworth County Sheriff	WI
Washington County Sheriff	WI

Waterloo Fire Department	WI
Waukesha Police Department	WI
West Salem Police Department	WI
Weyauwega Police Department	WI
Wisconsin State Capitol Police	WI
Wood County Sheriff	WI
Cabell County Emergency Management	WV
Kanawha County Sheriff	WV
South Charleston Fire Department	WV
Casper Police Department	WY
Cheyenne Fire Department	WY

# APPENDIX 2: PUBLIC SAFETY MANNED AVIATION\*

- As of April 2018, there are approximately 338 departments—288 local and 50 state public safety agencies—that own manned aircraft according to the FAA's Aircraft Registry. These departments own a total of 1,150 fixed- and rotary- wing aircraft.
- One-in-five manned aircraft registered to a government agency belongs to a state or local public safety department.
- Agencies in three states—California, Florida, and Texas—own 40 percent of all aircraft registered to public safety departments.
- The state agency with the most number of aircraft is the Alaska Department of Public Safety (34 aircraft). The county or municipal agency with the most aircraft is the Los Angeles County Sheriff (24 aircraft). The average number of aircraft per agency is 3.4.
- The 288 county and municipal public safety departments with manned aircraft are located in 233 counties. The 50 statewide agency public safety departments are located in 44 states.
- Approximately 72 percent of all manned public safety aircraft registered with the FAA are rotary-wing aircraft. The single most common aircraft among public safety departments is the Bell OH-58 Kiowa helicopter, of which there are 235 currently in service.
- Between 2008 and 2018, the average age of public safety manned aircraft increased from 17 to 20 years. The total number of aircraft and agencies operating manned aircraft has not changed significantly in this period.
- As of March 2018, 155 state and local public safety agencies had received 412 manned aircraft from the Department of Defense through the 1033 program, although it was not immediately clear whether all of these aircraft had active N-number registrations.

\*Source: Federal Aviation Administration Aircraft Registry for 2008, 2013, and April 2018. The 2018 data includes 47 aircraft for which the registration is nearing expiration. It does not include aircraft with expired registrations. Nor does it include aircraft that are operated by local agencies but that are registered by federal agencies or EMS aircraft registered to private entities. In a few cases, the FAA's N-number data was checked against other source material such as photographs of the aircraft to confirm ownership. For the full database, please contact the Center for the Study of the Drone. The Department of Defense's Law Enforcement Support Office property transfer data is available here.



Photo by Christopher Ebdon/Flickr

### **Public Safety Agencies with Manned Aircraft**

Agency Type	Agencies
County Police and Sheriff	189
Municipal Police	79
Fire and EMS	18
City/County Emergency Management	2
Statewide Agency	50

#### **Manned Aircraft Type**

Aircraft Type	Aircraft
Rotary-Wing	828
Single-Engine Fixed-Wing	272
Multi-Engine Fixed-Wing	45
Other	5

#### Manned Aircraft by Agency Type

Agency Type	Aircraft
County Police and Sheriff	487
Municipal Police	238
Fire and EMS	47
City/County Emergency Management	3
Statewide Agency	375

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