



**THE CULVER CITY POLICE
AND FIRE DEPARTMENTS
UNMANNED AERIAL VEHICLE
(DRONE) MID-PILOT
PROGRAM REPORT**



Overview

In February of 2019, after months of research, the Culver City Police and Fire Departments began an eighteen month unmanned aerial vehicle (UAV) or drone pilot program. UAVs are an emerging technology in the field of public safety and their use is becoming common place for Police and Fire agencies across the country. UAVs are lightweight, relatively inexpensive, and can be deployed quickly in the field to assist first responders address rapidly unfolding emergency incidents. These community safety tools are reactive and incident driven, and are never used for routine patrol. Bound by strict policies that control how they can be used, UAVs have proven to be an extremely valuable public safety tool during the first half of the pilot program. We currently have sixteen pilots on staff, all of which are licensed through the FAA. Please visit our website www.culvercitypd.org for more information on our UAV program and to review our UAV policy.

Utilization

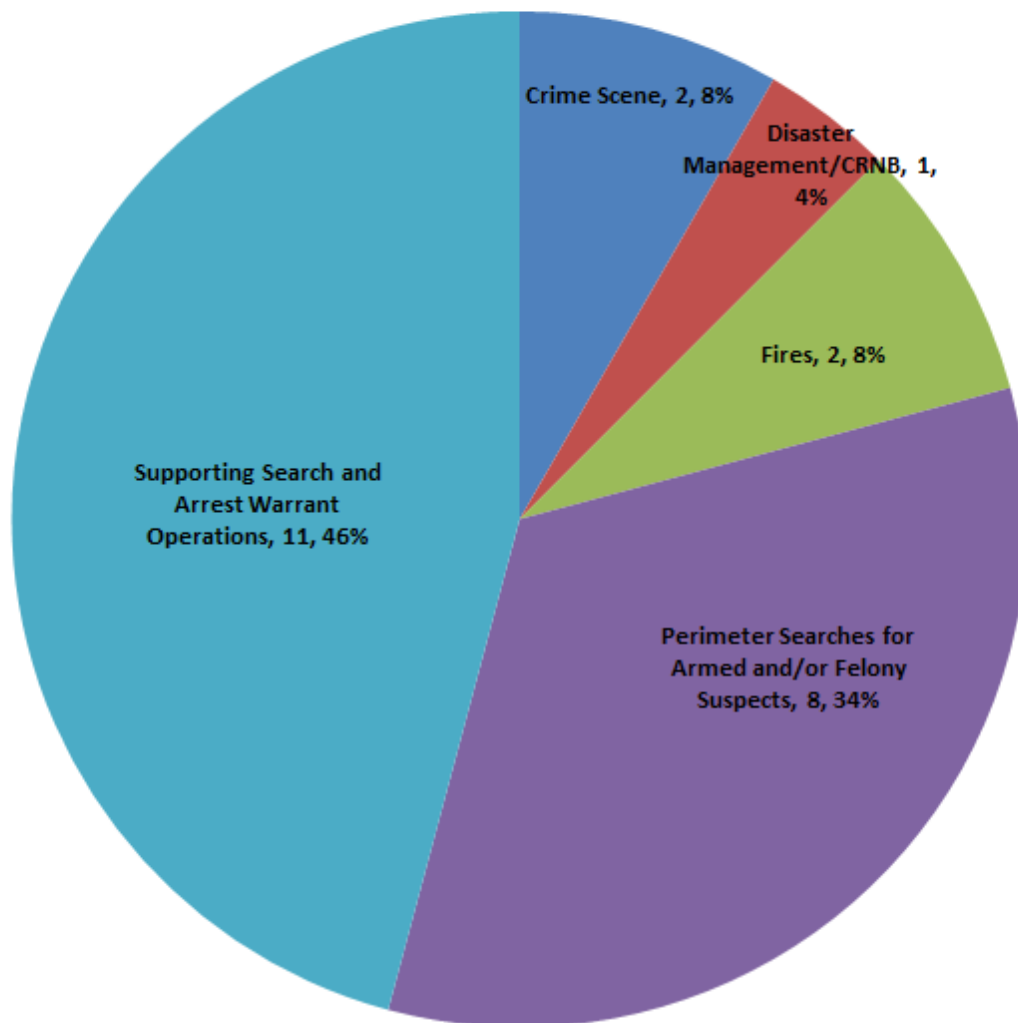
During the first nine months of the UAV pilot program, the UAVs have been deployed twenty-four times. It should be noted that there were fourteen deployments outside of Culver City, all of which were either related to a crime originating in Culver City, or in response to a request for assistance from an outside agency. See below for a detailed breakdown of each deployment:

PILOT	DR#	DATE	TIME	LOCATION	DRONE DEPLOYMENT CRITERIA	INCIDENT DISPOSITION	FOOTAGE OBTAINED
Park	19-448	02/25/19	1000	Waste Management El Sobrante Landfill, Corona	Supporting Search and Arrest Warrant Operations	Ongoing, pending continued recovery efforts	Approximately 15 minutes of video obtained
Park	19-448	03/26/19	0930	Waste Management El Sobrante Landfill	Supporting Search and Arrest Warrant Operations	PC 187	15 mins of video obtained
Ogden	19-1806	04/07/19	1000	Rosecrans Ave. & Aviation Blvd., Hawthorne	R/C Assist Hawthorne PD Crime scene	Officer Involved Shooting	13 pictures, 4:23 minutes of video
Baskaron	19-1814	04/08/19	1025	Washington Blvd. & Atlantic Ave. Culver City	R/C Assist CCPD Detectives Crime scene	Shooting	4 pictures, 3 videos (11:34 minutes total)
Park	19-1365	04/10/19	1925	7906 Kittyhawk Ave., Los Angeles	Supporting Search and Arrest Warrant Operations	Commercial Burglary	2 videos (17:15 minutes total)
Badour	19-1896	04/12/19	1139	4038 Albright Ave., Culver City	Suspect possibly in the attic Perimeter search	Residential Burglary	4 pictures
Baskaron	19-1365	05/01/19	0815	4800 Forman Ave, North Hollywood	Supporting Search and Arrest Warrant Operations	Suspect in custody, assist with warrant service	2 videos

PILOT	DR#	DATE	TIME	LOCATION	DRONE DEPLOYMENT CRITERIA	INCIDENT DISPOSITION	FOOTAGE OBTAINED
Ogden	18-7198	05/16/19	0700	8500 Tobias Ave. #248 Panorama City	Supporting Search and Arrest Warrant Operations	Suspect in custody, assist with clearing apartment interior	No footage obtained
Amerian	18-4255	06/06/19	1530	12200 Blk York Ave. Hawthorne	Supporting Search and Arrest Warrant Operations	Arrest	2 videos
Baskaron	19-3073	06/08/19	1450	5900 Blk Bedford Ave, LA	Perimeter Searches for Armed and/or Felony Suspects	Arrest	6 videos
Campos	18-7193	06/20/19	700	400 Blk W Elk Ave. Glendale	Supporting Search and Arrest Warrant Operations	Arrest	3 videos
Grant	19-3331	06/21/19	425	11900 Blk Washington Blvd Culver City	Perimeter Searches for Armed and/or Felony Suspects	Unable to Locate Suspect	1 video
Campos	19-2722	06/25/19	741	200 Blk S. Delano St. Anaheim	Supporting Search and Arrest Warrant Operations	Arrest	4 videos
Barbosa	19-3390	06/28/19	1000	Herrin Ave. Redondo Beach	Supporting Search and Arrest Warrant Operations	Arrest	12 videos
Amerian	19-3907	07/22/19	0725	12700 Blk Washington Blvd Culver City	Fire	N/A	N/A
Campos	19-3910	07/22/19	1100	13400 BLK Washington Blvd Culver City	Disaster Management Bomb threat	Unfounded	N/A
Campos	19-3907	07/22/19	1149	12700 Blk Washington Blvd Culver City	Fire	N/A	N/A
Amerian	19-4225	08/08/19	1149	5900 Blk Chariton Ave, LA	Perimeter Searches for Armed and/or Felony Suspects	N/A	N/A
Amerian	19-4270	08/11/19	1149	5800 Blk Canterbury Dr Culver City	Perimeter Searches for Armed and/or Felony Suspects	N/A	N/A
Park	19-4424	08/19/19	1100	3800 Blk Bentley Ave, Culver City	Perimeter Searches for Armed and/or Felony Suspects	Arrest made	N/A
Park	19-4516	08/23/19	1445	4500 Blk Moore St., Culver City	Perimeter Searches for Armed and/or Felony Suspects	Suspect not located	N/A
NO DEPLOYMENTS IN SEPTEMBER							
Campos	19-4854	10/01/19	0954	4600 Blk E. 50th St. Vernon, 90058	Supporting Search and Arrest Warrant Operations	Property Obtained	N/A
Park	19-5745	10/27/19	0:00	Ocean Dr/ Westwood Blvd Culver City	Perimeter Searches for Armed and/or Felony Suspects	Report taken/ suspects outstanding	2 videos
Campos	19-5782	10/31/19	0:00	11048 Sepulveda Blvd San Fernando	Supporting Search and Arrest Warrant Operations	Arrest	N/A

Drone Deployment Criteria	Feb	Mar	Apr	May	Jun	Jul	Aug	Oct	Total
Disaster Management/ CBRN						1			1
Fires						2			2
Perimeter Searches for Armed and/or Felony Suspects			1		2		4	1	8
Crime Scene			2						2
Search and Arrest Warrant Operations	1	1	1	2	4			2	11
Total	1	1	4	2	6	3	4	3	24

Year-to-Date Drone Deployment Criteria Breakdown



Overtime Costs

Although we often have pilots on duty when a UAV is needed, there are times when a pilot is called in from home on overtime or held over their regular work hours on overtime for emergency incidents. Overtime is also incurred when we hold training days, as many of the pilots are off duty when the training occurs. The total overtime cost for the first seven months of the pilot program was approximately \$21,418.04. Most of that was incurred early on in the program when our sixteen pilots were being trained and were working towards their license. We anticipate the overtime costs for the second half of the program to be lower, as our pilots are now trained and licensed.

Equipment Costs

The initial purchase price of the UAVs was approximately \$67,000. This included a total of eight UAVs: four DJI Phantom 4, two Sparks, and two Matrice 210 models. Also included in the initial purchase price were batteries, cameras, service plans for some of the UAVs, and other supporting equipment.

After the initial purchase of the UAVs, we purchased additional service plans and equipment. Some the additional equipment we purchased included: aftermarket lights, additional batteries, storage racks, additional warranties, training materials and classes, and propeller cages. These purchases brought our total equipment costs to \$85,686.77.

Two UAVs were damaged in training incidents. In the first incident, a UAV lost power during a test flight and fell several feet onto the roof of the Police Department due to an equipment malfunction. The second UAV was damaged when it collided with a power pole guide wire due to pilot error. Both UAVs were under warranty and repaired by the manufacturer at no cost. We have not had any accidents or UAVs damaged during field deployments.

Overtime Costs	Hours	Cost
Officer Overtime - Administrative	7.50 hrs	\$691.89
Officer Overtime - Deployment	53.00 hrs	\$4,180.90
Officer Overtime - Training	197.45 hrs	\$16,545.25
TOTAL OT COSTS		\$21,418.04
Equipment Costs		Cost
Initial Purchase and Supplies		\$79,567.46
Training Materials and Classes		\$6,119.31
TOTAL EQUIPMENT COSTS		\$85,686.77
TOTAL COST OF PROGRAM		\$107,104.81

Additional Information

A monthly UAV utilization log is published in the Culver City Police Department's Monthly Report, which can be viewed at www.culvercitypd.org. If you have questions or concerns regarding the UAV program, please contact:

Lieutenant Leon Lopez

310-253-6251

leon.lopez@culvercity.org

Or

Captain Jason Sims

310-253-6391

Jason.sims@culvercity.org