

Portland Police Bureau - Investigations Branch

Small Unmanned Aerial System
(sUAS)

Pilot Project

City Council Presentation

March 2023

What is an sUAS?

sUAS is the term used for Small Unmanned Aerial Systems, also commonly referred to as “Drones”. sUASs are widely used in the public sector, including nearly every jurisdiction within the Portland Metro area. The regulated use of sUASs by the PPB Investigations Branch will provide improvements in safety for both officers and community members. Additionally, the use of sUAS technology in crime / major crash scene events reduces inconvenience to the public by minimidocumentation time at a scene.

PPB sUASs are exact or slightly modified versions of commercially available products and will be clearly marked with City of Portland or Portland Police logo.



I-5 closed in North Portland (near Rosa Parks Way)

Monday, December 6, 2021

I-5 NB & SB lanes were shut down from 10:30 AM to 5:30PM (7 hours) for crime scene investigation.



I-5 traffic re-routed: WSDOT re-routed I-5 SB traffic across Oregon to I-205. ODOT rerouted I-5 N traffic to parallel routes.



Widespread congestion on Multnomah Co and Clark Co roadways



20,900 hr
(+95%)



\$618k
(+90%)



25,700 hr
(+430%)



\$809k
(+430%)

WSDOT officials reported 10-mile back-ups on I-205 SB during early PM rush hour traffic

Multnomah County
90-95% increased in vehicle-hours of delay and delay cost on the day of the incident vs normal Mondays

Clark County
430% increased in vehicle-hours of delay and delay cost on the day of the incident vs normal Mondays

Investigations Branch sUAS Pilot Project Summary

TRAFFIC DIVISION

- Document scenes of Major Crash Team activations
- Document post-crash vehicle damage
- Conduct traffic flow / pattern studies of high crash roadways
- Provide sUAS support during Search and Rescue Operations

Metro Explosive Disposal Unit

- Quickly gather information on suspicious items from a distance
- Search immediate area for secondary devices
 - Visually clear potential blast area of community members
- Confirm location of items following render safe operations
- Provide sUAS support during tactical events upon request of Critical Incident Commander (CIC)
- Provide immediate support during disasters, building collapse, ie. Safeway Roof Collapse

Investigations Branch sUAS Prohibited Uses

3.6. Prohibited Use

3.6.1. UAS equipment shall not be used to:

3.6.1.1. Conduct random or indiscriminate mass surveillance activities.

3.6.1.2. Target a person based solely on individual characteristics, such as, but not limited to race, ethnicity, national origin, religion, disability, economic source or status, housing status, gender or sexual orientation.

3.6.1.3. Harass, intimidate or discriminate against any individual or group.

3.6.1.4. Conduct personal business of any type.

3.6.1.5. Crowd control / crowd management, unless a life safety critical incident occurs.

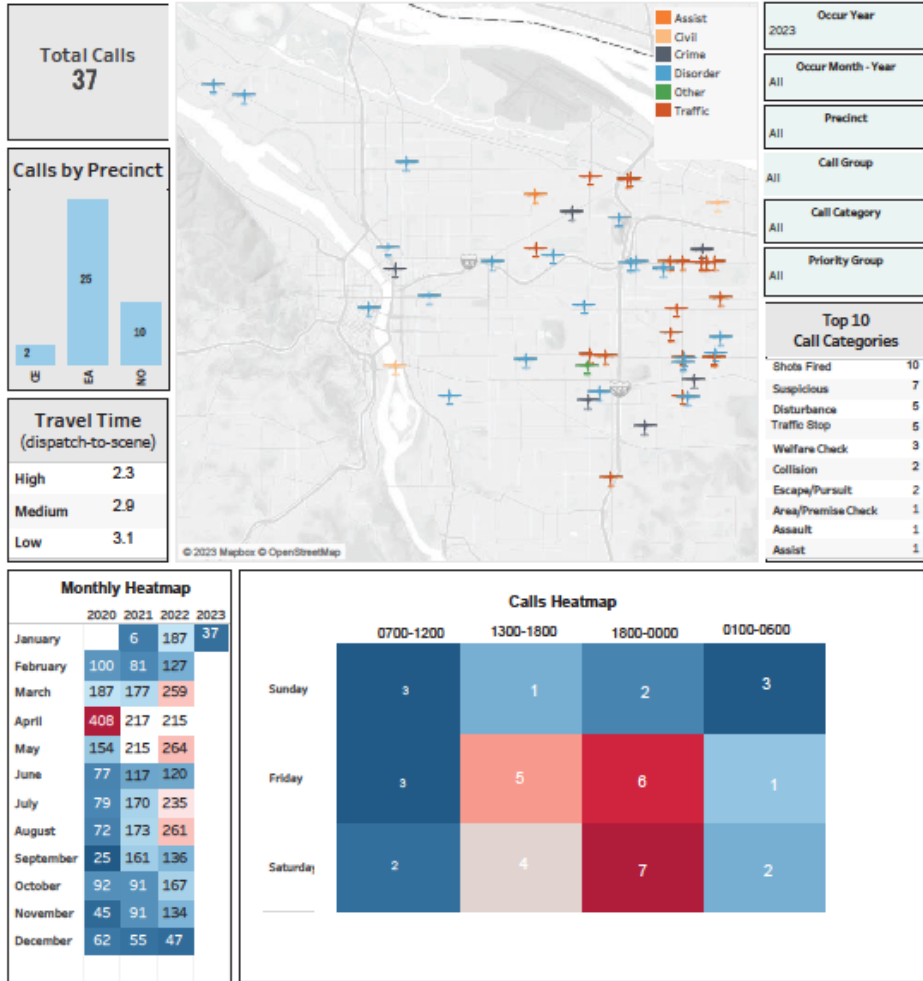
3.6.2. The UAS shall not be weaponized (ORS 837.365).

3.6.3. The UAS will not be used in conjunction with any type of facial recognition technology

All data for example purposes only. These are not projections, but rather an example of data that can be tracked by the UAS Units



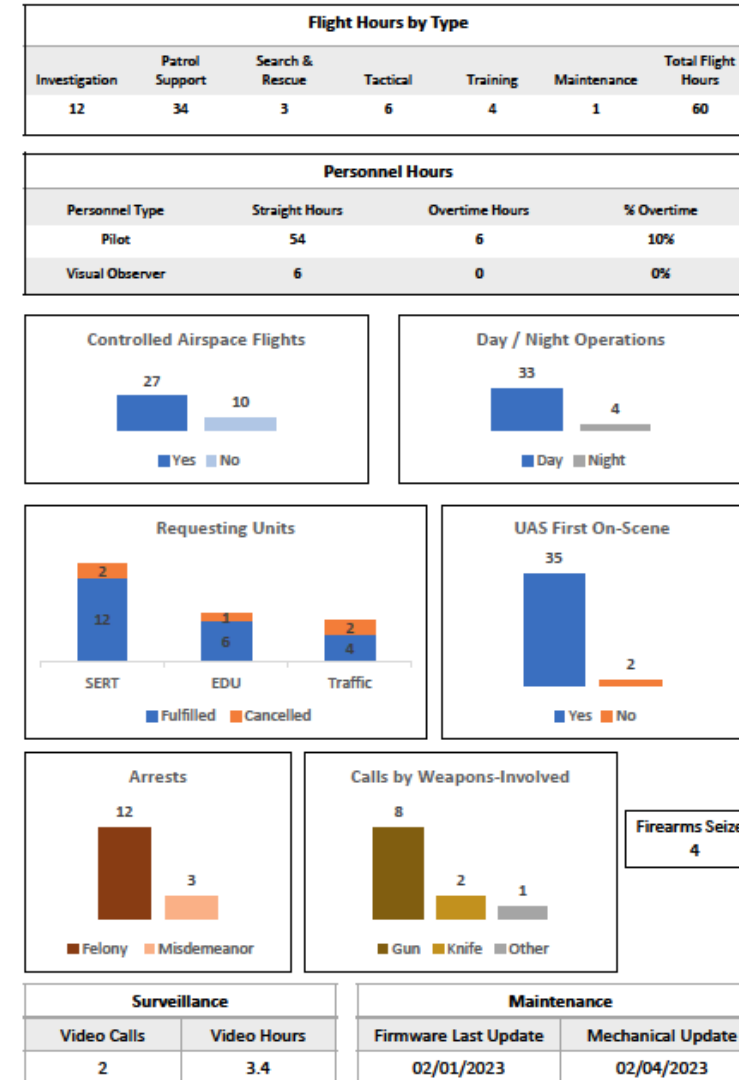
**PORTLAND POLICE BUREAU
UNMANNED AIR SUPPORT
METRICS DASHBOARD MOCK-UP**
1/1/2023 - 1/14/2023



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**PORTLAND POLICE BUREAU
UNMANNED AIR SUPPORT
INTERNAL METRICS DASHBOARD MOCK-UP**
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Use Case #1 – Safeway Roof Collapse 2/8/2021

- MEDU response with robot
- Gresham response with sUAS



Use case #2 - FARO system vs. sUAS



FARO – 3 hours, 24
minutes



sUAS – 30
minutes

Use Case #3 – SE Division / SE 171st Hostage situation

- 4th story location – multiple shots fired at police
- Utilized Gresham sUAS as de-escalation tool



30 shots fired during ongoing SE Portland standoff



by: Jennifer Dowling

Posted: Nov 21, 2021 / 06:32 PM PST / Updated: Nov 22, 2021 / 01:06 PM PST

Editor's note: Authorities early Monday morning announced a woman was found dead and a man is in custody. Latest details are here.

PORTLAND, Ore. (KOIN) — A standoff remains underway after shots were fired by an unknown suspect

CVPD UAS VIDEO

PPB sUAS Program Recommendations

| Recommendation | Timeline | Responsible Unit |
|--|-----------------|-------------------------|
| Develop Investigation Branch SOP and authorized use events | Complete | ASU |
| Reinstate sUAS Pilot Program on Major Crash Team activations when appropriate | 30 days | Council / MCT |
| Train and license pilots and operators including training on ORS, SOP's, FAA and internal reporting requirements | 60 days | ASU |
| Identify equipment needs, test and procure sUAS platforms | 60 days | MEDU |
| Begin Pilot Project for tactical/potential explosive incidents | 60-90 days | MEDU |
| Pilot Project Review with statistics, reports, recommendations | Spring 2024 | ASU/MEDU/MCT |