SUAS 2023 Stats

Quick Stats

- 72 teams registered to compete

- 44 teams submitted presentation

- 31 teams eligible to perform mission
  (passed requirements like Proof of Safe Flight)

- 25 flights

- 46 teams registered to attend onsite
  with 508 attendees in total

- ~40 remote judges for presentations,
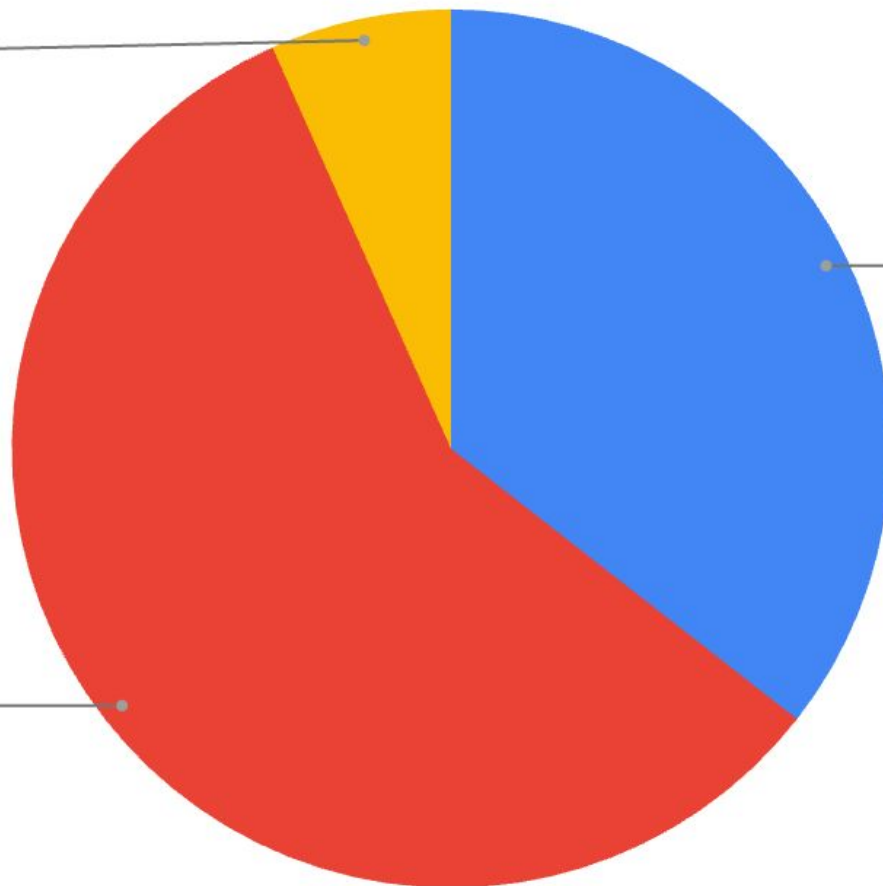 ~40 onsite volunteers for judging & logistics
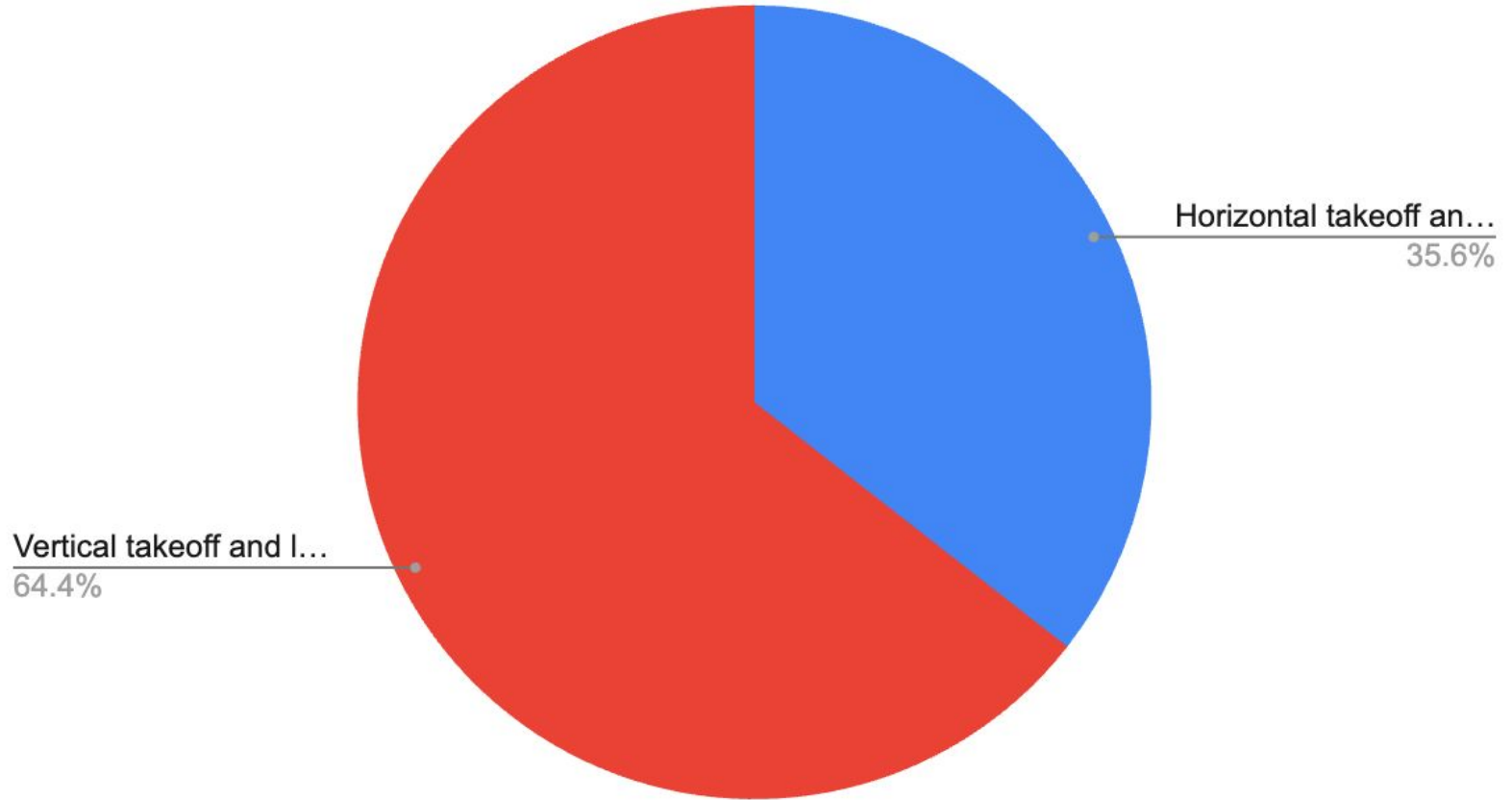
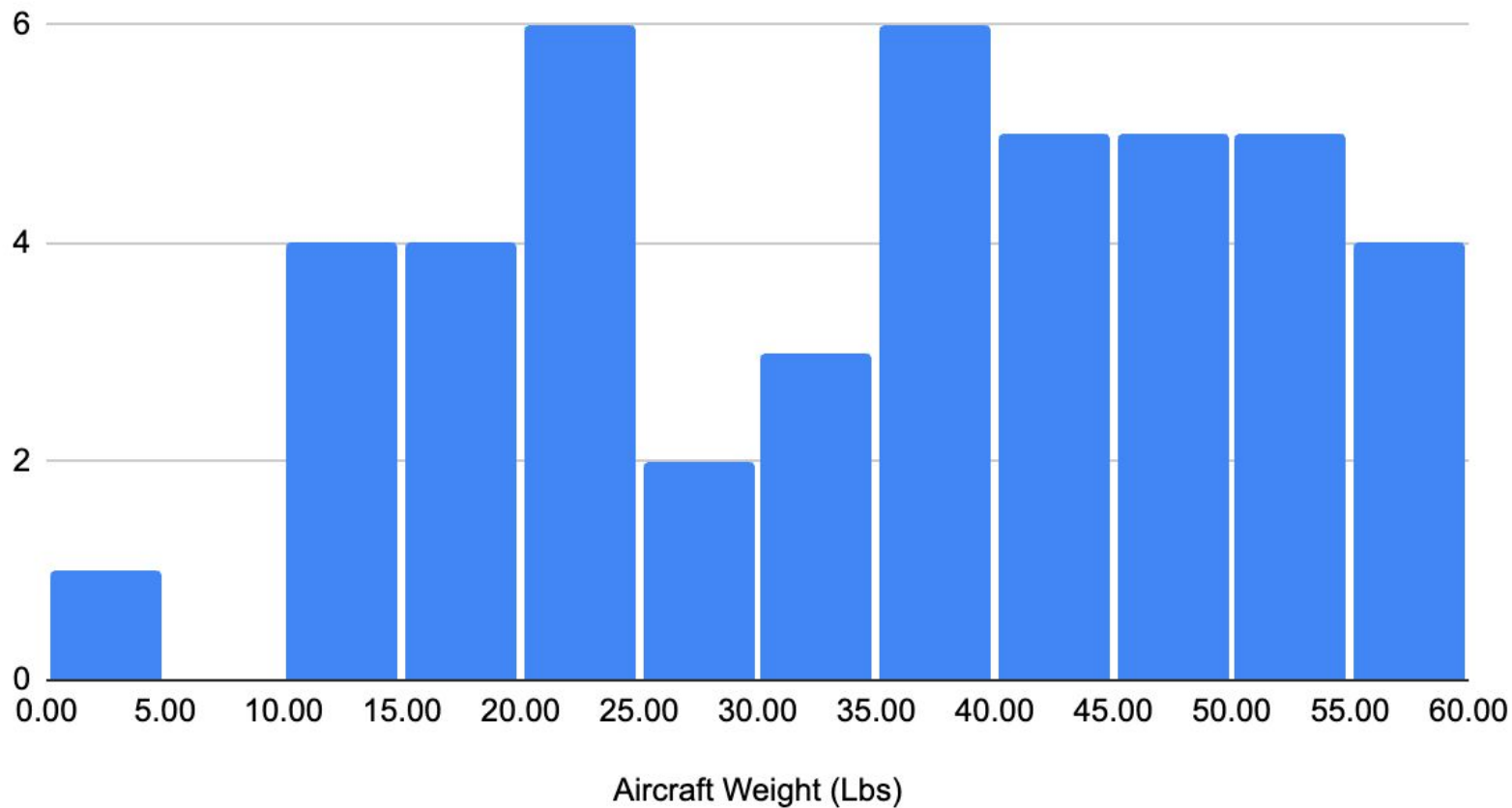# Fact Sheet

Count of Aircraft Type

Transitional
6.7%

Fixed Wing
35.6%

Multicopter
57.8%

Count of Takeoff and Landing Type
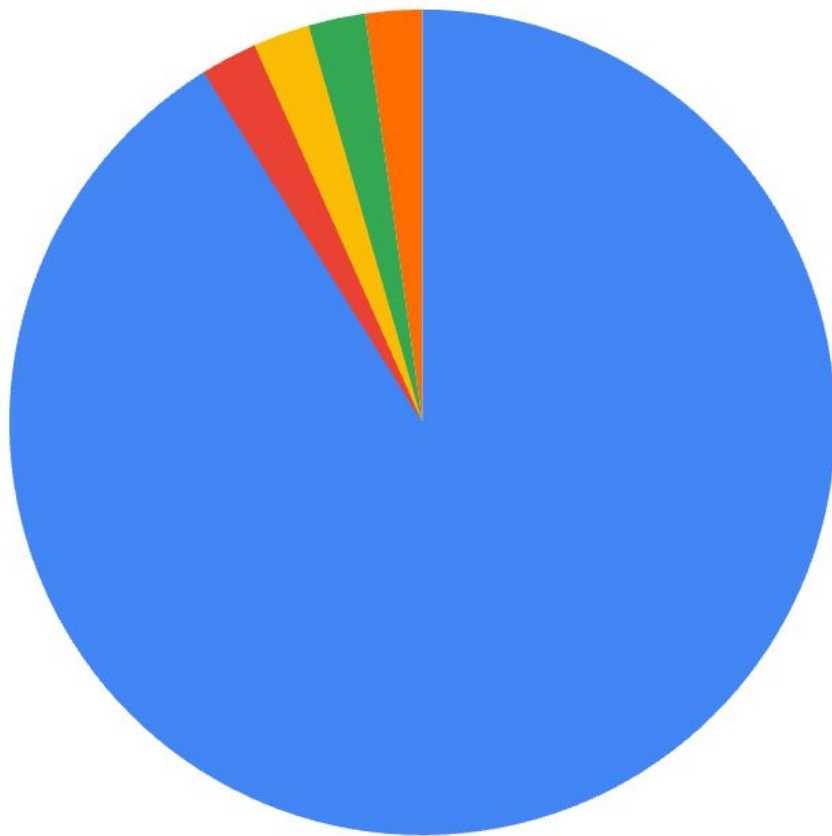

Horizontal takeoff an…
35.6%

Vertical takeoff and l…
64.4%

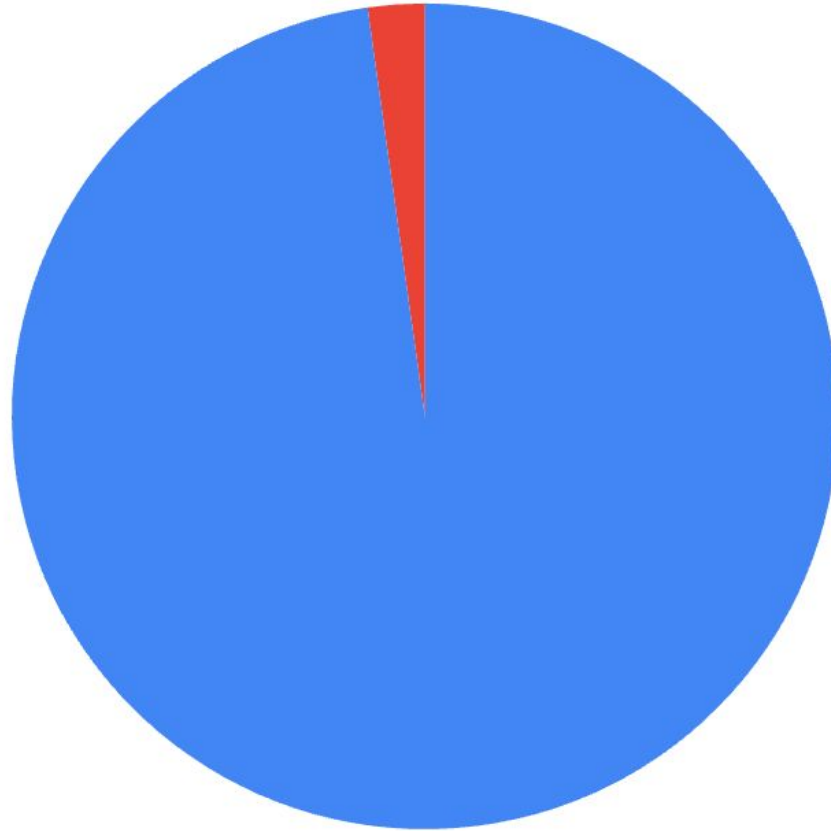# Histogram of Aircraft Weight (Lbs)

Count of Aircraft Power Source

- 🔵 Lithium Ion Polymer Battery (LiPo)
- 🔴 Nitro Fuel
- 🟡 Lithium Ion Polymer Battery (LiPo), Gas
- 🟢 Lithium Ion
- 🟠 Solid state Lithium ion batteries

Count of Aircraft Autopilot

- Ardupilot / Pixhawk / PX4
- Custom build autopilot (Software: MATLAB Simulink, HW: Teensy 4.1+ custom pcb)

Count of Frequencies for Manual Control
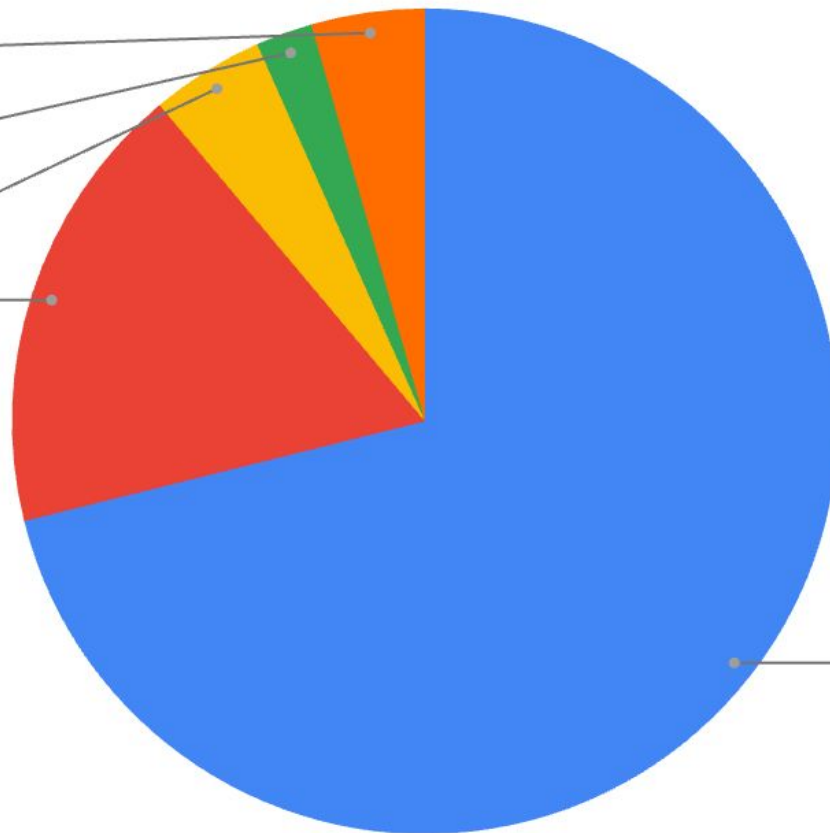
- 433 MHz — 4.4%
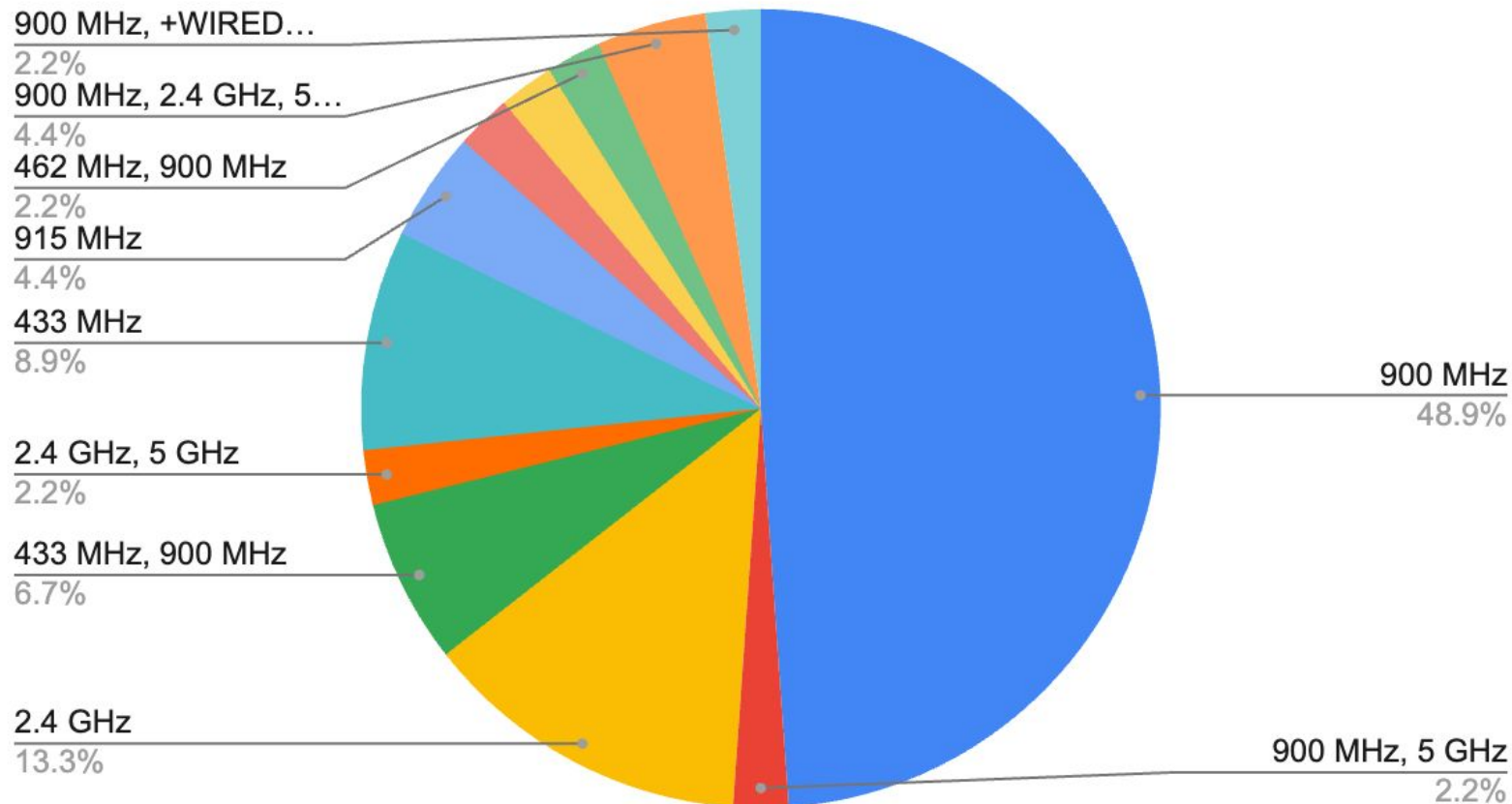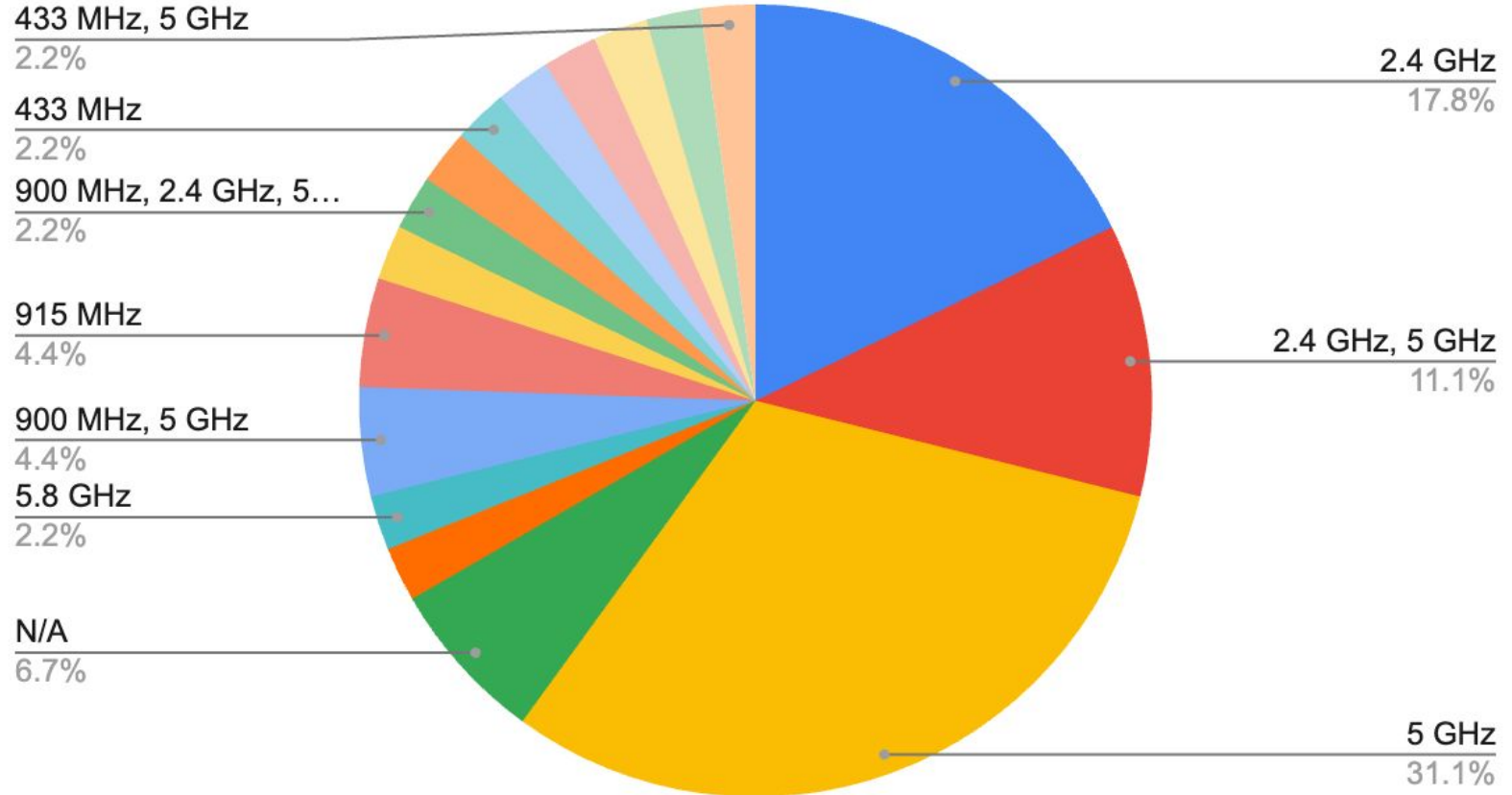- 5.8 GHz — 2.2%
- 2.4 GHz, 5 GHz — 4.4%
- 900 MHz — 17.8%
- 2.4 GHz — 71.1%

Count of Frequencies for Autopilot Control

- 900 MHz, +WIRED… — 2.2%
- 900 MHz, 2.4 GHz, 5… — 4.4%
- 462 MHz, 900 MHz — 2.2%
- 915 MHz — 4.4%
- 433 MHz — 8.9%
- 2.4 GHz, 5 GHz — 2.2%
- 433 MHz, 900 MHz — 6.7%
- 2.4 GHz — 13.3%
- 900 MHz — 48.9%
- 900 MHz, 5 GHz — 2.2%

Count of Frequencies for Payload & Data Transfer

433 MHz, 5 GHz
2.2%

433 MHz
2.2%

900 MHz, 2.4 GHz, 5…
2.2%

915 MHz
4.4%

900 MHz, 5 GHz
4.4%

5.8 GHz
2.2%

N/A
6.7%

2.4 GHz
17.8%

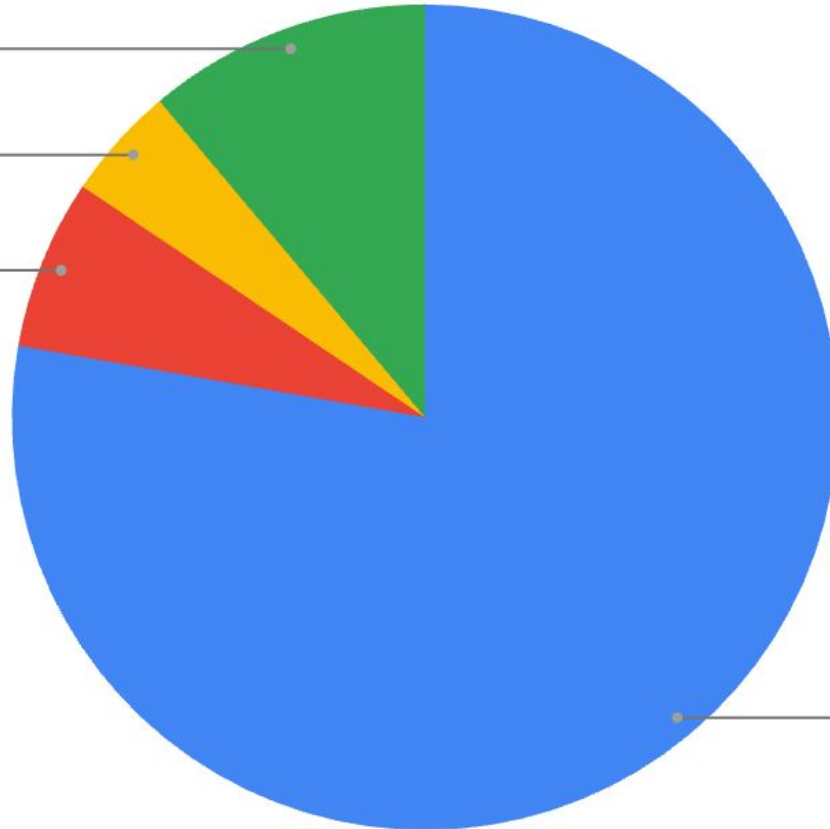**2.4 GHz, 5 GHz**
11.1%

5 GHz
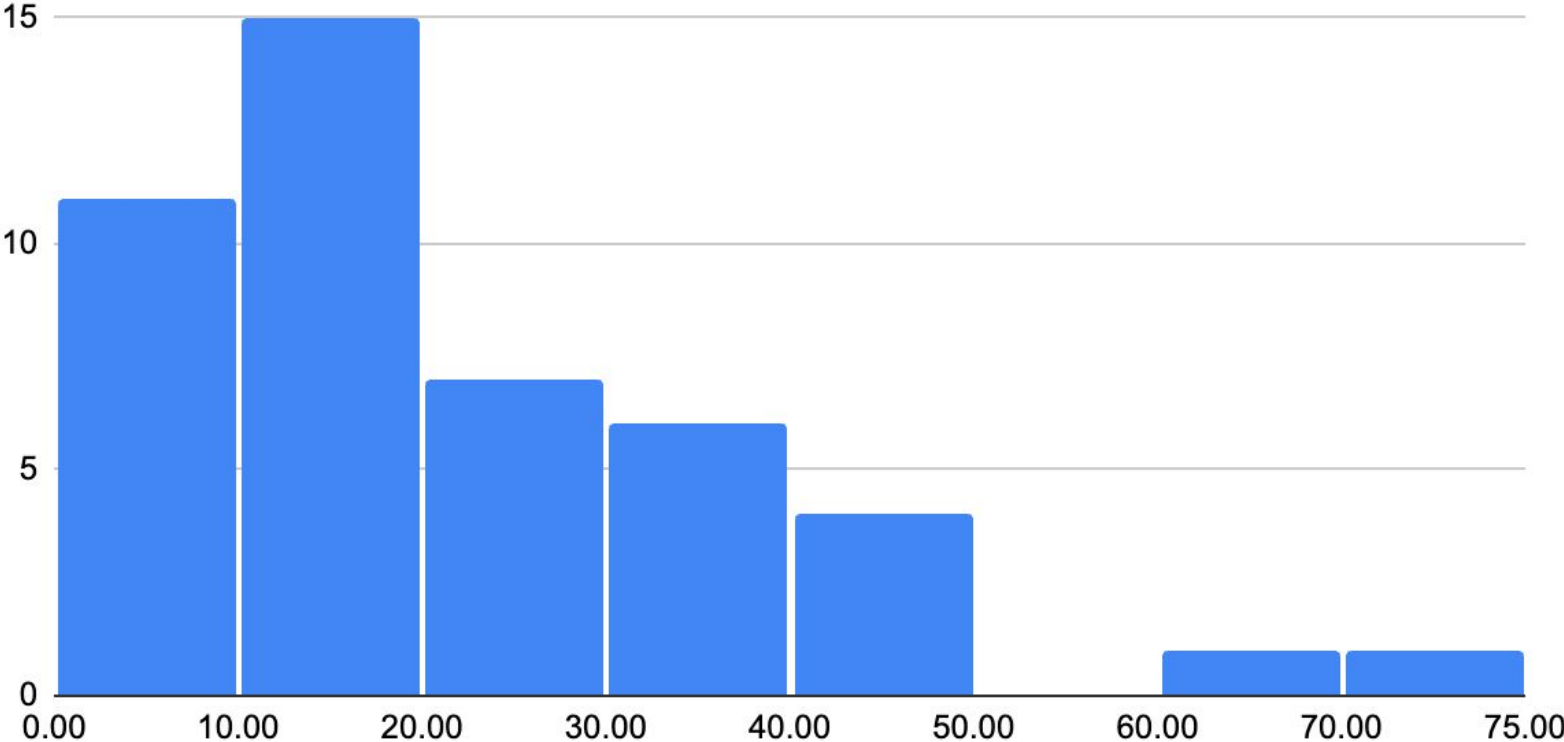31.1%

Count of Imagery / Video Feed Transmission

Analog
11.1%

Digital, Analog
4.4%

N/A
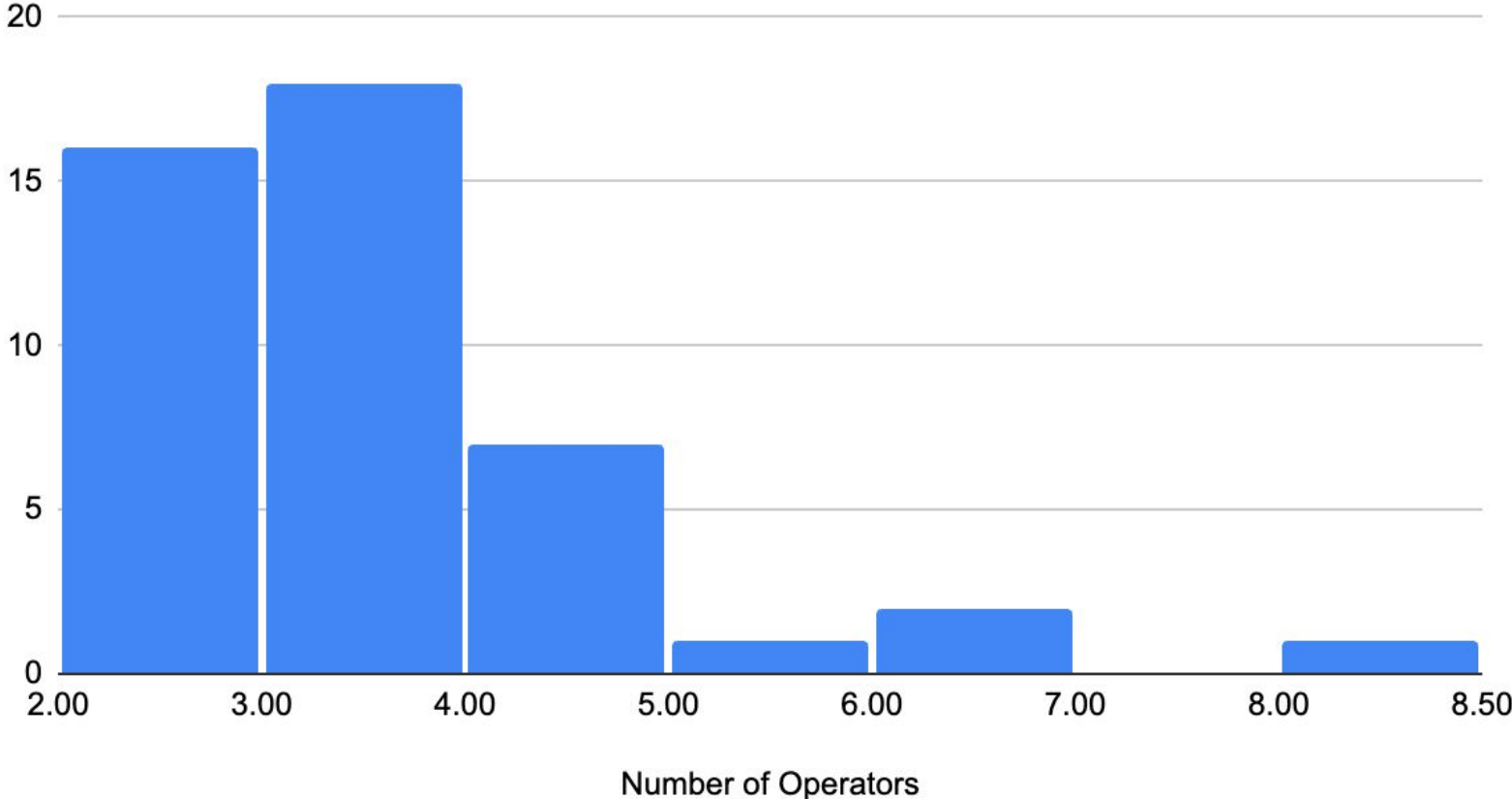6.7%

Digital
77.8%

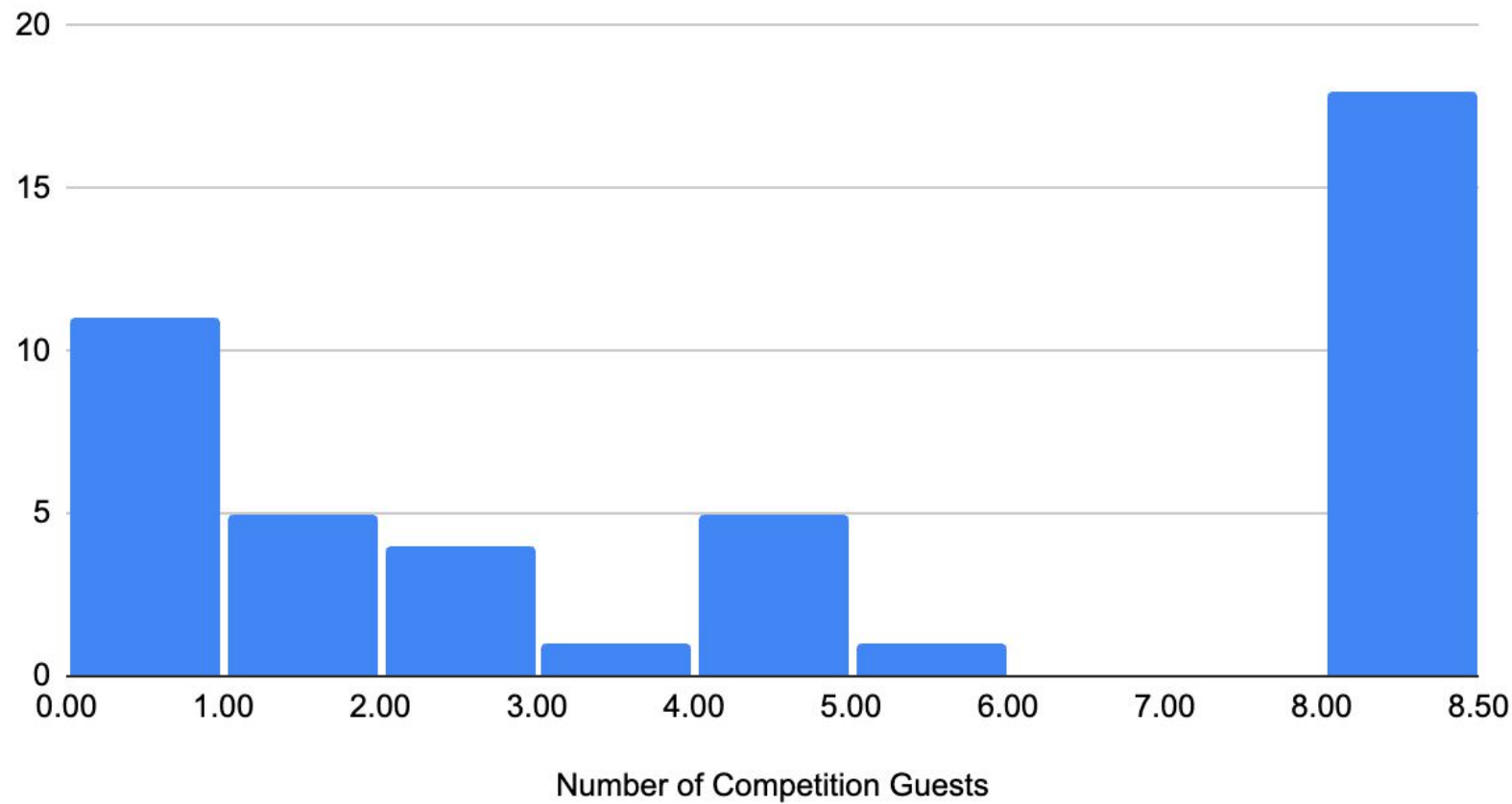Histogram of Number of Development Team Members

Histogram of Number of Competition Team Members
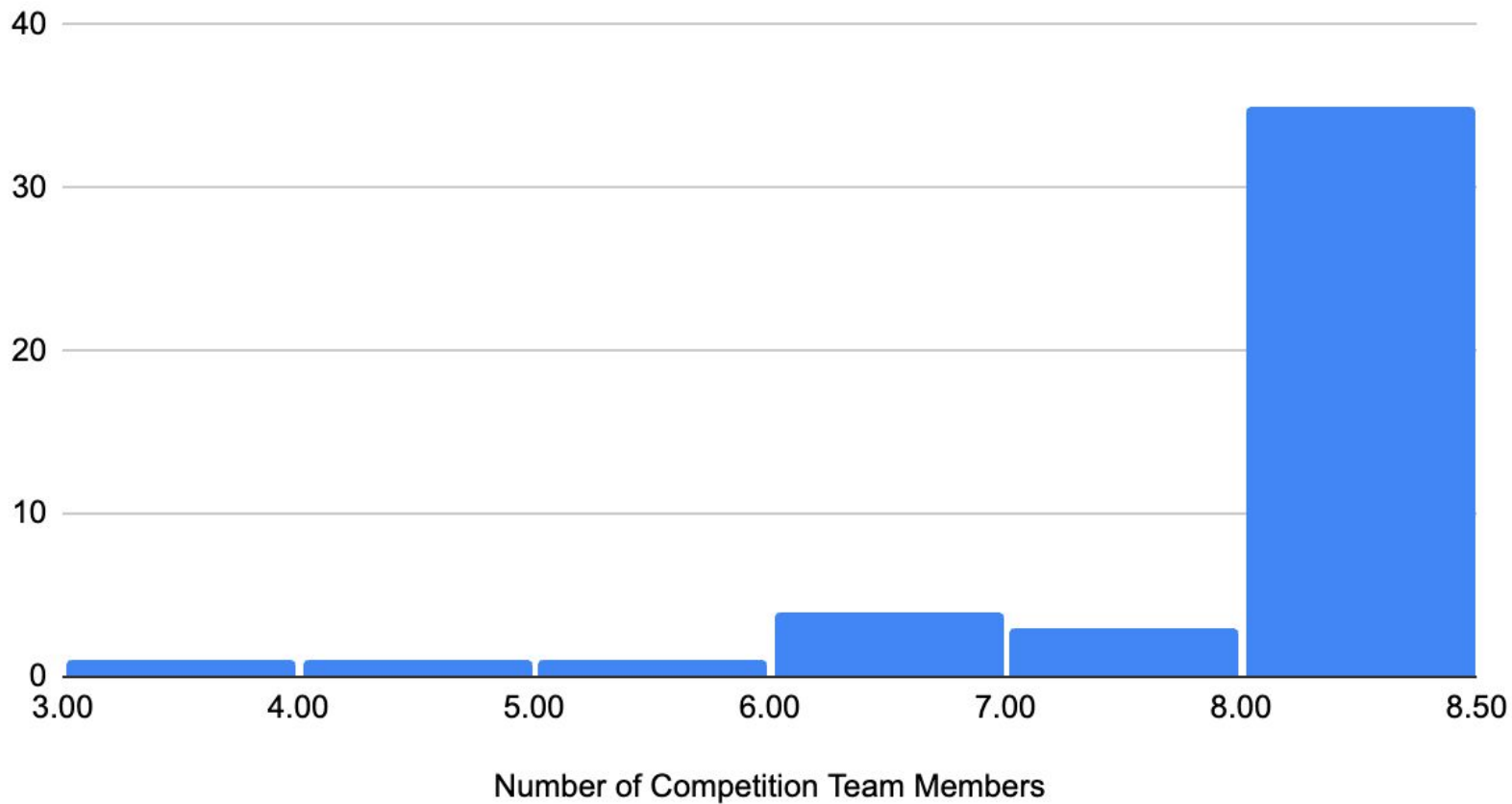
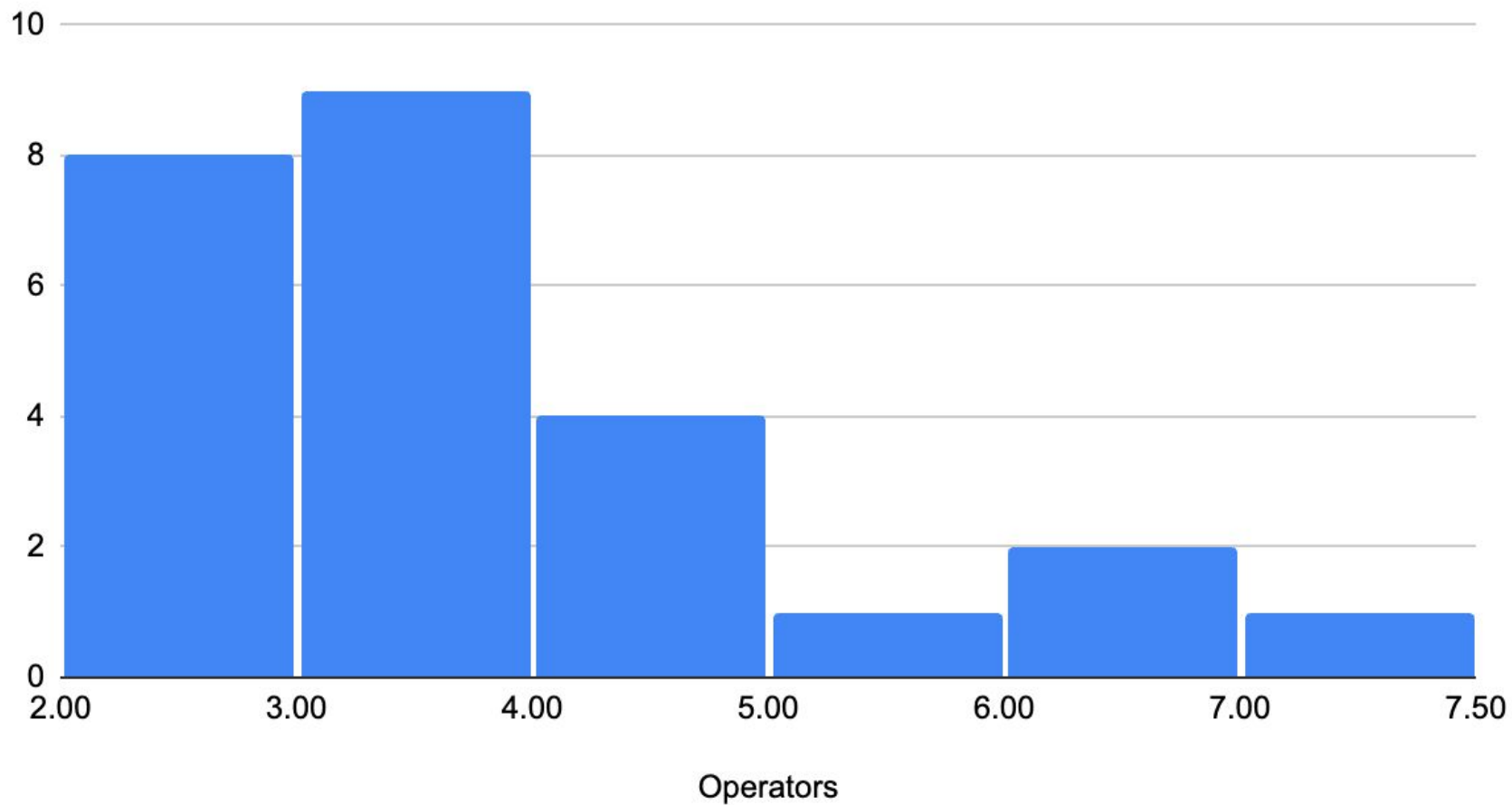Histogram of Number of Operators
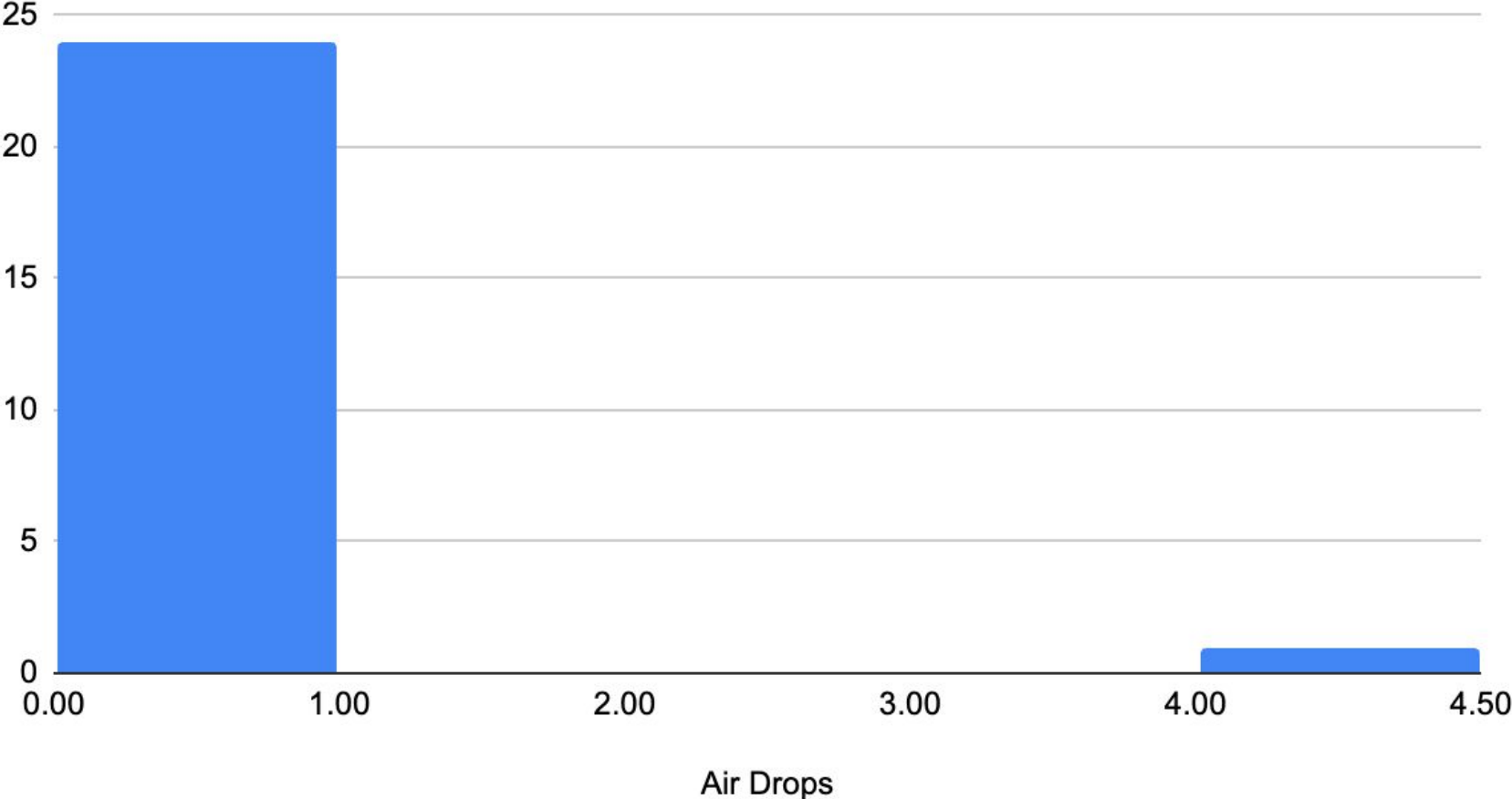
Histogram of Number of Competition Guests
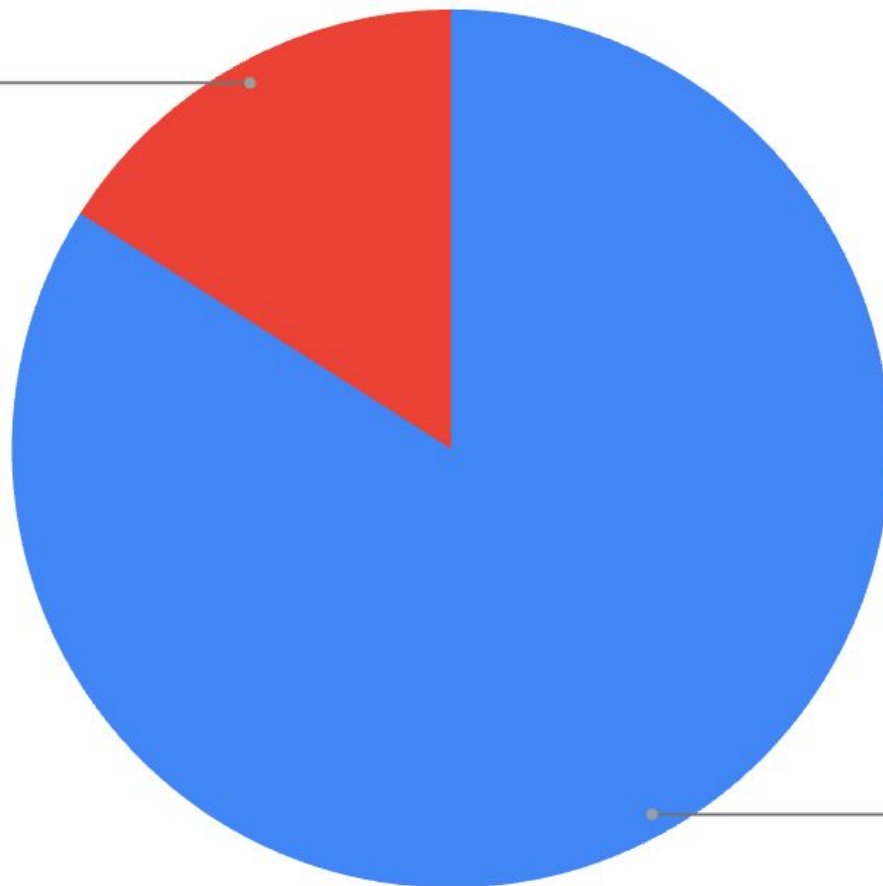
Mission

Histogram of Operators

Histogram of Air Drops

Count of Crash

Yes
16.0%

No
84.0%

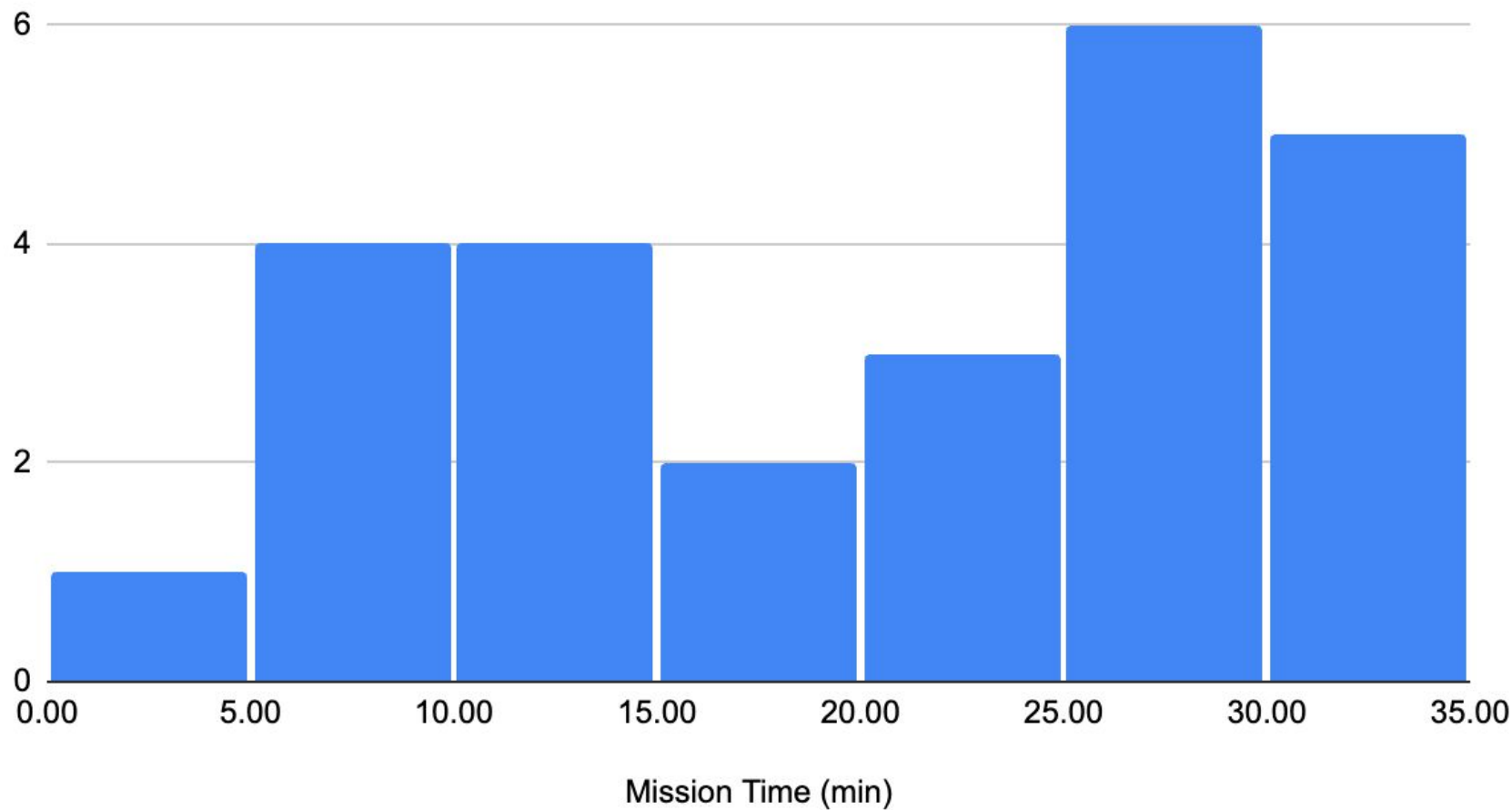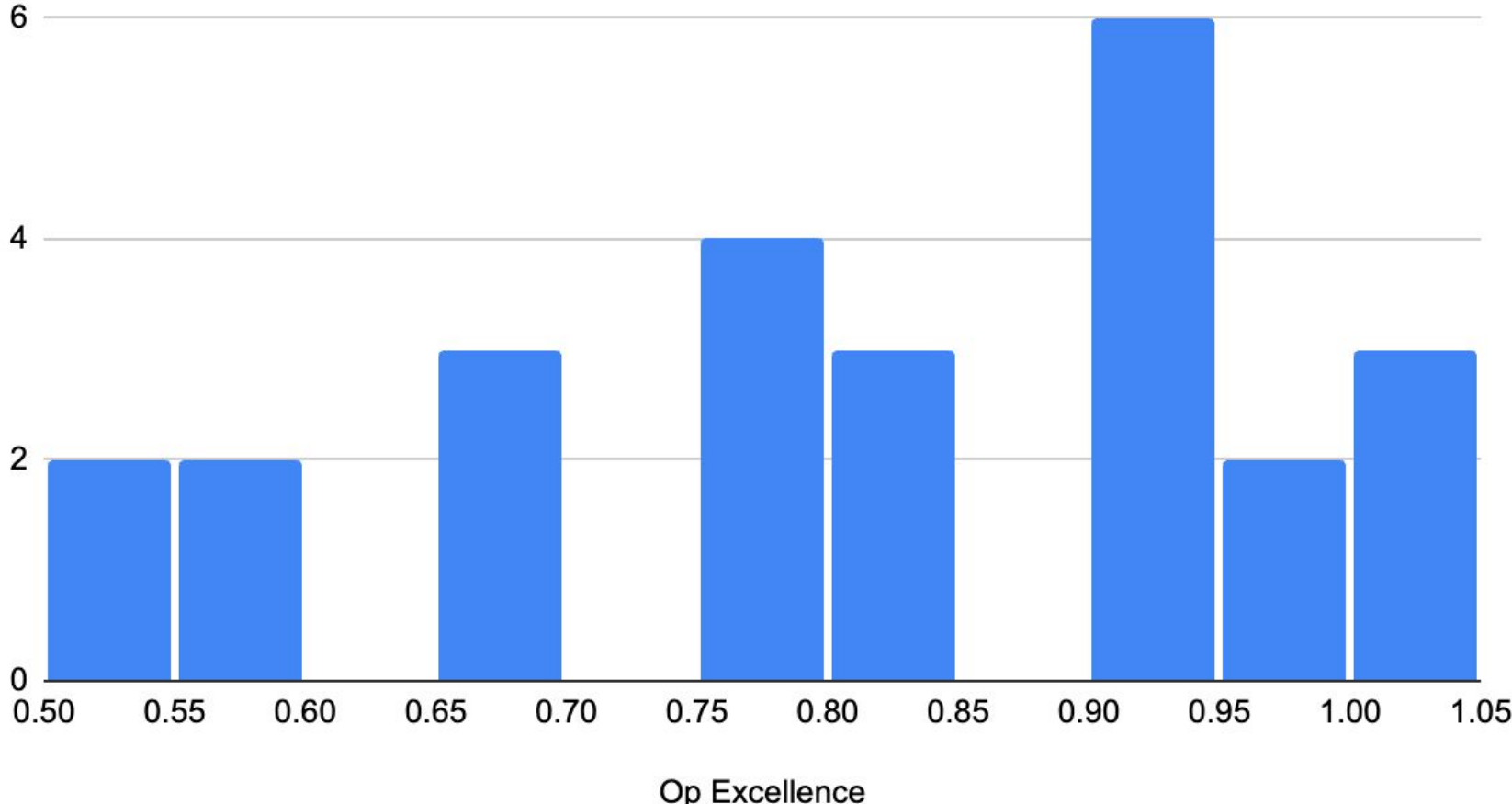# Histogram of Mission Time (min)

Histogram of Op Excellence

Total Score