

# Flight summary June 29th, 2022

Boise State University  
Created by Anna Roser

## Lower Dry Creek

### Overview:

- This site is located approximately 20mins from Boise off Bogus Basin Road.
- Anna Roser was Remote Pilot in Command; Ryan Wickersham was Pilot in Command. Lena and Cayden were on site as visual observers.
- Mission objective was to collect UAS imagery with the goal of creating high spatial resolution point clouds for shrub height measurement, and collect multispectral imagery to assist with differentiating plant types.

Sensor	Above Ground Level	Ground Sampling Distance	Camera Angle	Software	Cross grid	Number of Images	Flight Speed	Forwardlap/Sidelap	Number of batteries	Start/End	Wind Max & Avg
Mavic RGB	44m	1cm	5degrees + off nadir	Map Pilot	Yes, 20degree offset	723	2m/s	73/80	C1, HP4, HP10, HP6, HP8	10:32am-12:02am	5.6m/s 2.2m/s
P4 Multispec	38m	2.0cm	90	DJI GS Pro	No	728	1.7m/s	80/75	2x	12:21pm-1:02pm	5.6m/s 2.3m/s

### RTK TopCon Notes

Start	End	Vert hgt (m)	Number of GCP
NA RTK'd nails in 2021 All GCP are on nails.			There were 9 gcps in the plot. Four were small orange bucket lids and 5 were black and white targets.

### Notes:

- UAS: Mavic 2 Pro. RGB Hasselblad 20MP sensor and DJI Phantom 4 Multispectral (5 band)
- Weather: Clear skies, and light breeze. Good conditions.
- We had a gimbal error on the mavic so we brought it back, restarted the drone, and it flew correctly.

### Data location:

- Images are on owncloud and external drive