

Flight summary June 30th, 2022

Boise State University
Created by Anna Roser

Soda 1, Jordan Valley

Overview:

- This site is located approximately 1.5hrs from Boise off HWY 95.
- Anna Roser was Pilot in Command; Andrii Zaiats was on site as visual observer.
- 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	444	2m/s	73/80	C2, HP8, C3, HP1	10:53am-11:17am	6.2m/s 2.6m/s
P4 Multispec	38m	2.0cm	90	DJI GS Pro	No	562	1.7m/s	80/75	2x	11:59am-12:30pm	6.8m/s 3.1m/s

RTK TopCon Notes

Start	End	Vert hgt (m)	Number of GCP
8:55am	12:45pm	1.720	There were 9 gcps in the plot black and white targets. Nails were placed at each location and RTK'd

Notes:

- UAS: Mavic 2 Pro. RGB Hasselblad 20MP sensor and DJI Phantom 4 Multispectral (5 band)
- Weather: Clear skies, and constant light breeze with strong gusts.

Data location:

- Images are on owncloud and external drive