



## Sebastian County Conservation District

3913 Brooken Hill Drive, Fort Smith, AR 72908-9289

Phone (479) 646-8300 Ext. 3 Fax 877-504-6538

### Drone Services

#### Drone operated by two FAA licensed pilots

- photo/video service
- photo quality – 20.8 megapixels
- video quality – ultra 4k @ 60 fps/5.2k @ 30 fps

#### Mapping and 3D Mapping

- autonomous flight mapping software allow technicians to “live map” and 3D map entire parcels of land
- software patches and publishes maps as the drone flies
- by overlapping flight patterns, 3D maps can be created showing elevation and overall land profile.

#### Streambank and Watershed Projects

- identify riparian damage, monitor streambank stability and erosion caused by rapid water/turbulent water
- Wetland Determination- NRCS in Oregon and Idaho have been using drones to cut down time on Wetlands determinations. (from 6 weeks to 12-16 hours)

#### Dam Inspection

- saves resources by keeping “boot off the ground” & keeps overall certification time down
- allows for high definition photo documentation

#### Forestry Survey

- collect information about species variety/monitor bio-diversity
- identify invasive plants
- monitor plant health
- measure forest floor exposure
- develop management plans

#### Pasture and Forage Survey

- identify the base forage stand
- determine grazing efficiency
- identify invasive/pest plants/weeds
- determine surface water movement

#### Damage Assessment

- identify areas damaged by natural disasters and wildlife
- mitigates time spent manually inspecting damaged areas