

▼ UAS Uses and Issues

▼ Precision Agriculture

- Water Conservation
- Crop dusters
- ▼ Water Quality
 - ▼ Fertilizer Reduction
 - Groundwater Quality Implications
 - ▼ Pesticide Reduction
 - Early warning for agricultural pests
 - Groundwater Quality Implications
- Reduction Of Infectious Diseases

▼ Natural Resources Management

- Wetlands Restoration
- Global Change Research
- Water quality monitoring

▼ Parks

- ▼ Breath of prohibition factors
 - Noise
 - Privacy
 - Visual
 - Safety
- ▼ Effects on wildlife
 - Disturbance Of Animals
 - Crashes
- Permitting factors

▼ Police and UAS

- Warrantless Searches
- Role of Homeland Security
- Safety
- Crowd Control
- Privacy

▼ Privacy Issues

- ▼ UAS BELOW 83'
 - *US v. Causby*, 328 US 256, 258 (1946)

- UAS below 400' threshold above 83'
- Sub-orbital UAS (above 6500')
- Government UAS
- Time, manner and place restrictions
- UAS in combination with other sorts of information on citizens

▼ Military Drone Issues

- ▼ Global norms for drone strikes
 - Increasing Controls and transparency and establishing a legal framework that can be applied internationally.
- ▼ Using Drones To Destroy Intercontinental Missiles: <http://www.economist.com/news/united-states/21602245-mulling-cheaper-better-way-shoot-down-enemy-missiles-star-wars-2-attack>
 - Potential for perpetual low level war

Property Rights Issues

- Lack Of Specific Laws: <http://www.theatlantic.com/technology/archive/2012/10/if-i-fly-a-uav-over-my-neighbors-house-is-it-trespassing/263431/>

▼ Civil aviation safety issues

- Collisions

▼ Terrorism Issues

- Spying
- Carrying Of Bombs

▼ Number of drones now in use, those projected to be in use.

- FAA number UAS of estimates

- Press number of UAS estimates

▼ Use of UAS in emergency services

▼ Fire

- Fire Suppression
- Fire management planning
- Search and Rescue

▼ UAS systems in research

- Global Change Research
- Search and Rescue
- ▼ Drones in Hydrodynamics
 - *Water Quality monitoring*

▼ Search and Rescue

- Police
- Military

▼ Infrastructure Management

- Oil and Pipeline infrastructure
- Power line maintenance

▼ FAA

- ▼ Test Sites
 - Economic development FAA mission
- ▼ Regulations
 - Public outreach
- COA
- Weight Restrictions
- See and avoid

▼ Commercial UAS issues

- ▼ Drones and photography, videography

- ▼ Commercial photography issues

- Peeping Tom
 - Privacy Issues
 - Delivery Of Illegal Drugs

- ▼ State and local UAS regulation

- AB1327

- National Parks

- ▼ Restricted Fly Zones

- *Airports*
 - *Cities*
 - *Others*