

PROBLEM STATEMENT

Through analyzing this dataset for Search and Rescue missions, what are the key factors that indicate the timeframe to locate and rescue victims both in wilderness and non-wilderness environments?



DATASET •

- Mountain Rescue Association
- Timeframes up to 7 days
- Only SAR missions involving at least 1 live victim
- 10,000+ datapoints

STATES

California & Colorado

- 60% of dataset
- Avg 16 & 20 hours

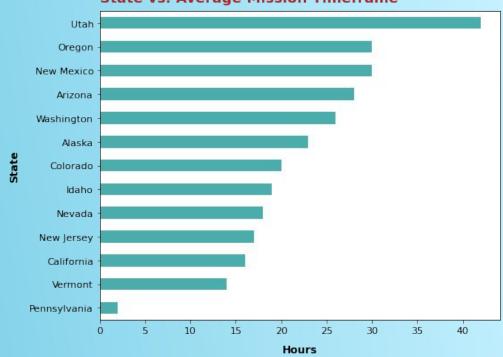
Utah, Oregon, New Mexico

- Together 10% dataset
- Highest averages 30+

Recommendation

- Study the CA & CO SAR programs
- Do they benefit from more government funding?
- SAR collaboration program to share knowledge





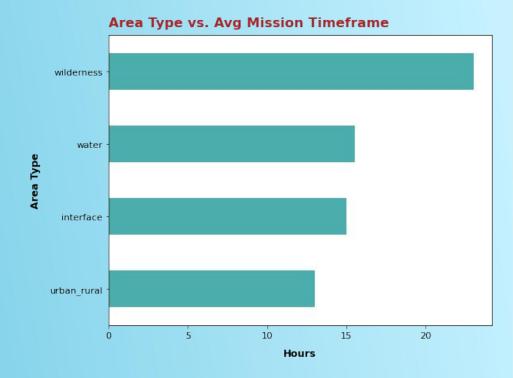
AREA TYPE

- Wilderness 75% of dataset
- On avq. 8 hours longer than other Areas

Recommendation

Implement a public education campaign

- SAR what-to-do and preparedness pamphlets
- Make pamphlets available at trailheads with maps



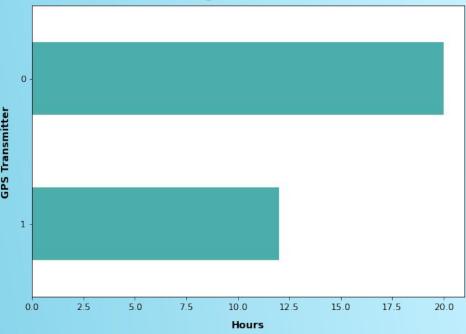
GPS TRANSMITTERS

- With GPS on average half the timeframe
- Comprise a small portion of the dataset but have a clear effect on the timeframe

Recommendation

- Educate adventure seekers the value of having a personal locator beacon
- Garmin InReach





AIRCRAFT TYPES

- Types increase with Timeframe
- Timeframes likely reduced with more aircrafts
- UAVs are surprisingly not often used

Recommendation

Research potential benefits of UAVs

- Low-cost
- Programmable search patterns
- Infrared Cameras for nighttime searches
- Can interact & communicate with victims

