

STATEWIDE FOREST HEALTH MONITORING 2020

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USDA Forest Service, State and Private Forestry, Region 5

November 2020





No Aerial Surveys in 2020

- Safety concerns due to Covid
- Time and timing for flying less feasible

Plan B



- **Ground Surveys** – not feasible or practical
- **High Resolution Photos**
 - **NAIP** - National Agricultural Imagery Program (publicly available) – aerial photos
 - 2-year cycle during growing season
 - 0.6 meter resolution
 - Photos stitched and color-balanced
- **High Resolution Imagery**
 - **Digital Globe (Maxar™)** - satellite imagery
 - NGA contract with DG extends contract to all *federal* agencies
 - On-demand, but requests 2ndary to DOD and commercial orders
 - Requests are limited, uncertain of delivery, but immediate access when acquired
 - 0.3 - 0.6 meter resolution
 - Satellites: WorldView 2,3 and GeoEye available
 - Images collected at wide range of visual spectrum and then pan-sharpened

General Process: **Pan and Scan**

- **How:** Use of Desktop (using ArcMap tools) or Tablets (Digital Mobile Sketch Mapping (DMSM) system)
- **Who:** FHM ADS surveyors, FHP personnel, and CALFIRE
- **What:** NAIP or DG Images used from June 1st forward
 - *NAIP – collected as early as April, started in SoCAL*
 - *DG images: display date of when image was taken*

Priority Areas

Based on:

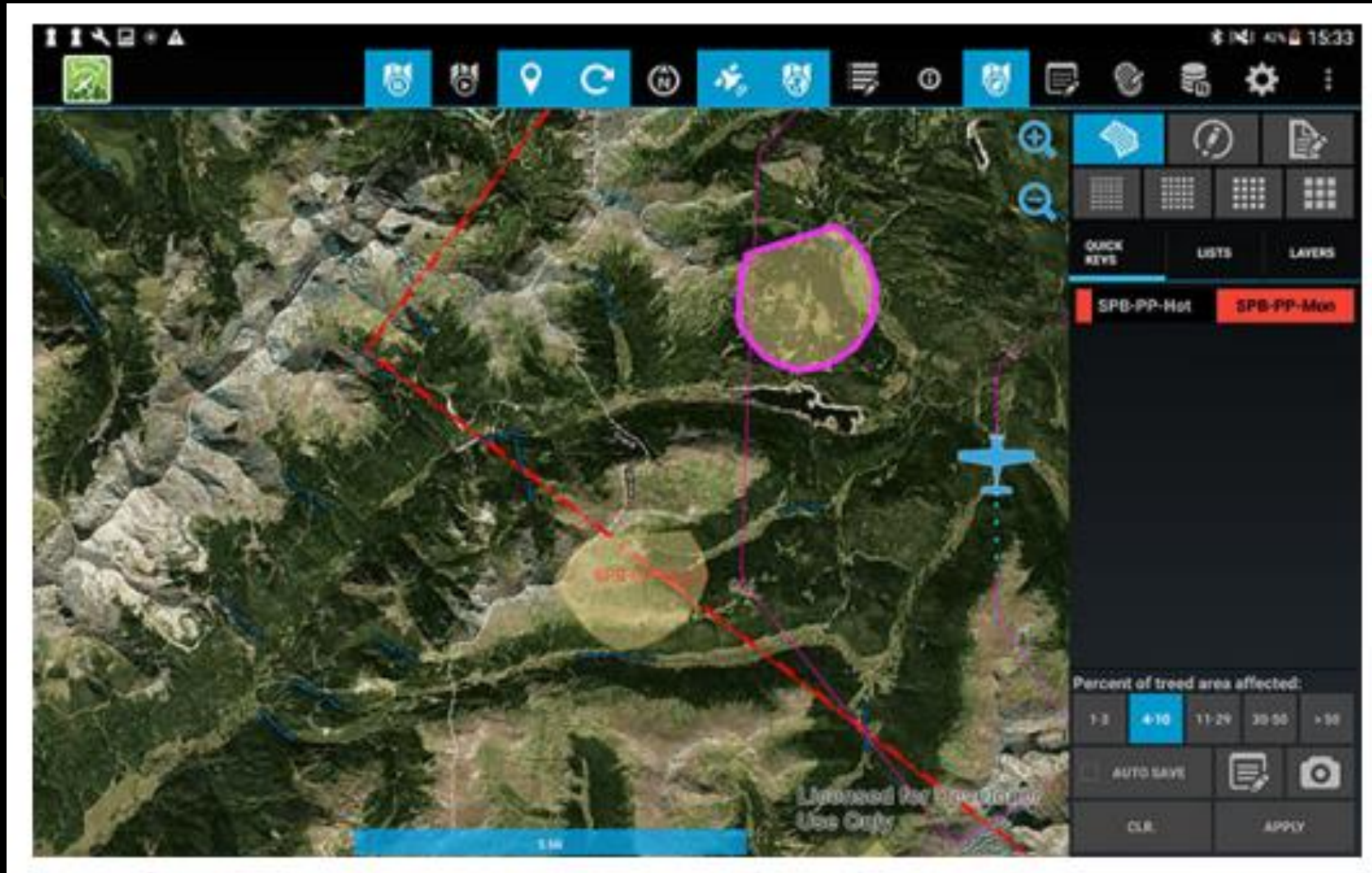
- Data Demand
- Pests of Interest

Only 10% of acres normally flown in a typical year



Digital Mobile Sketch Mapping (DMSM)

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Final Products and Reports

- Deadline for all data has been pushed to National Office til December 2020
- Region 5 planning on developing reports of AOs and specific pests by January 2021