

## Fire & Aviation Management

# 2018 IR OPS SUMMARY



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PROVIDING SAFE, YEAR ROUND, ON DEMAND, IR RECONNAISSANCE

## Fire & Aviation Management

# INFRARED OPERATIONS

April to October



## Fire & Aviation Management

### FIRST FIRE FLOWN:

- Rattle Snake Fire

21 APR 2018





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### LAST FIRE FLOWN:

■ Klondike

?? OCT 2018



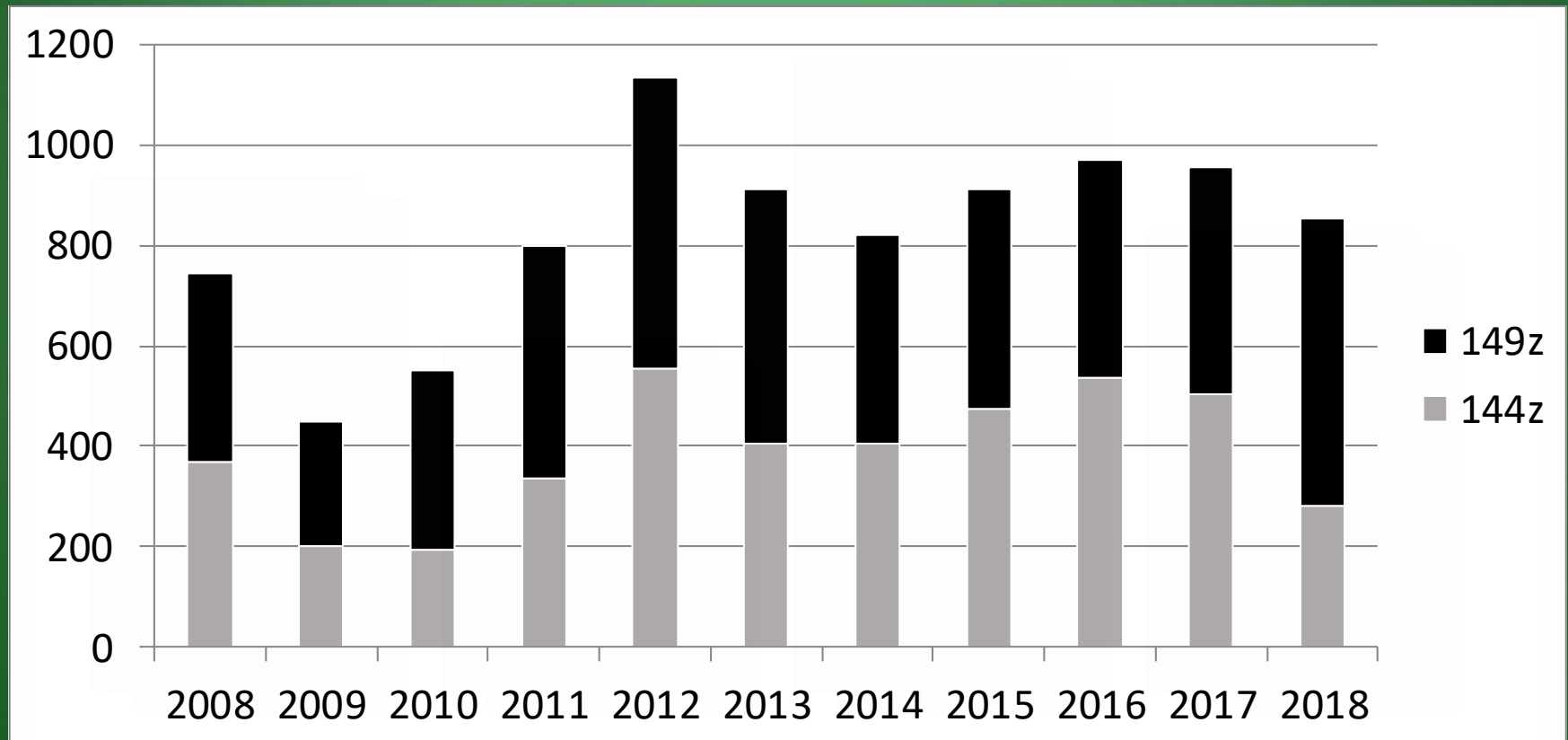
## Fire & Aviation Management

### 2018 IR TRIVIA

- States Flown in 1 Night: 4
  - Most Fires Flown in 1 Night 44z & 49z : 38 orders
  - Most Fires Flown in 1 Night 1 A/C 44z : 30 orders
  - Largest Fire: Mendocino
  - Longest Night Mission: 7.5 hours; 2 Fuel Stops
  - Most Southern IR Operation: Texas
  - States Flown During This Fire Season:
    - AZ, CA, CO, ID, MT, NM, OR, UT, WA, WY, NV, TX, OK
  - 144Z and 149Z Flight Hours – 855 IR hrs to date
-

## Fire & Aviation Management

### Total Flight Hours 2008 - 2018



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### Aircraft 44z Maintenance

- Phase maintenance time frame 150 hours
  - 0 hours before 30 hours after
  - 3 to 5 days for each phase longer if damage found
  
  - 44z phase 5 maintenance 02/19 – 07/11
  - 44z phoenix install / calibrate 07/12
  - 44z phase maintenance 08/15-08/19
  - 44z out of service scanner door 09/02-09/20
  - 44z out of service electrical wiring 10/06-10/08
-

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### Aircraft 49z Maintenance

- Phase maintenance time frame 200 hours
  - 20 hours before 20 hours after
  - 3 to 5 days for each phase longer if damage found
  
  - 49z Prop overhaul 12/11 – 02/26
  - 49z out of service pitch servo / O2 bottle 03/19-03/30
  - 49z G1000 pitch servo 04/04-04/10
  - 49z left prop governor 04/12-04/20
  - 49z phase maintenance 06/07 – 06/08
  - 49z hot section inspection right engine 07/18 – 08/04
  - 49z out of service door cable 09/16
  - 49z phase maintenance 09/27
  - 49z out of service G1000 software flap 10/15 – 10/16
-



## Fire & Aviation Management Aircraft Updates

### Aging Aircraft

- increased maintenance items
- some maintenance requiring engineering support from manufacturer

44Z Avionics upgrade

### New Aircraft?

2019 projected aircraft rates: ????

44Z \$TBD FY2018 \$1500

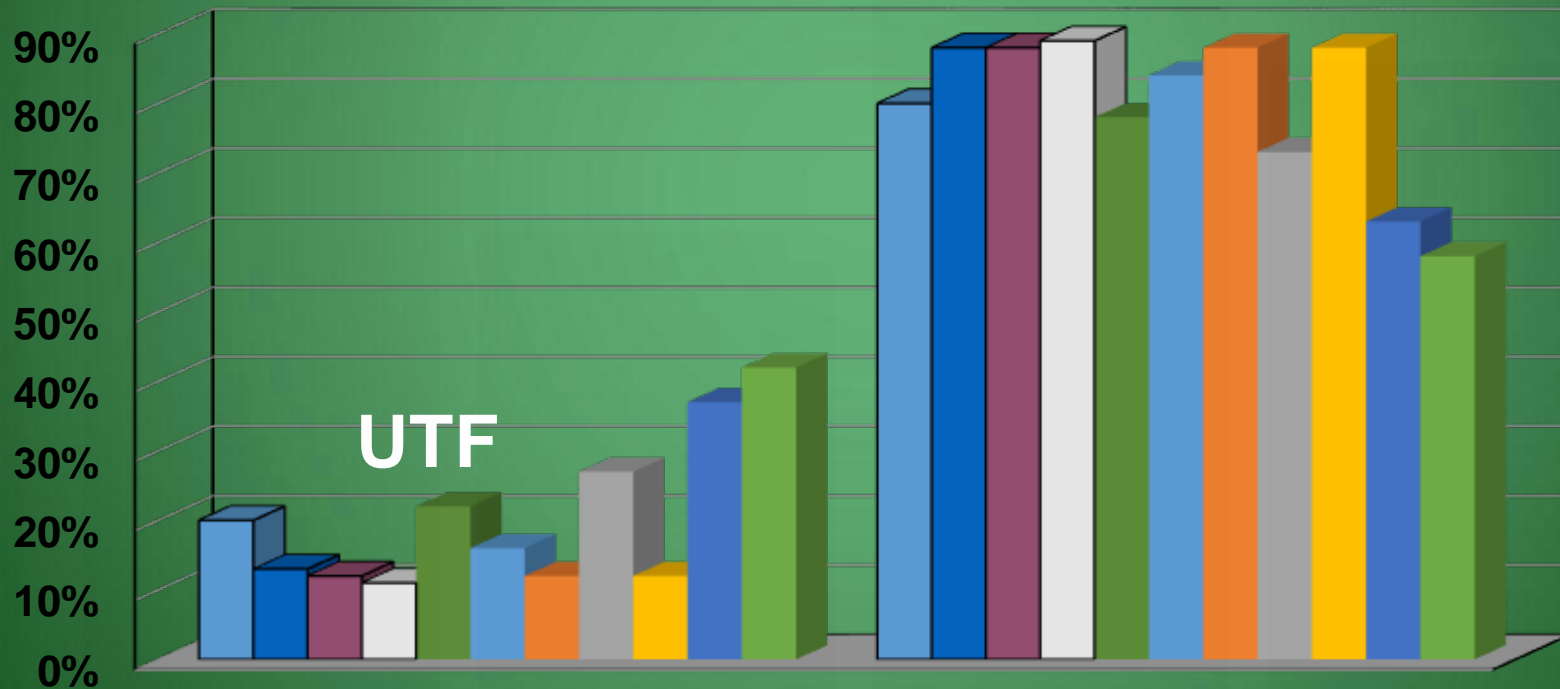
49Z \$TBD FY2018 \$1100

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IR REQUESTS (last 10 years)

FILLED



2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018



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2015

Total Assigned= 1345  
UTF= 746  
55% UTF rate  
37% non-weather UTF

2017

Total Assigned= 1888  
UTF= 703  
37% UTF rate  
27% non-weather UTF

2016

Total Assigned= 1406  
UTF= 185  
13% UTF rate  
5% non-weather UTF

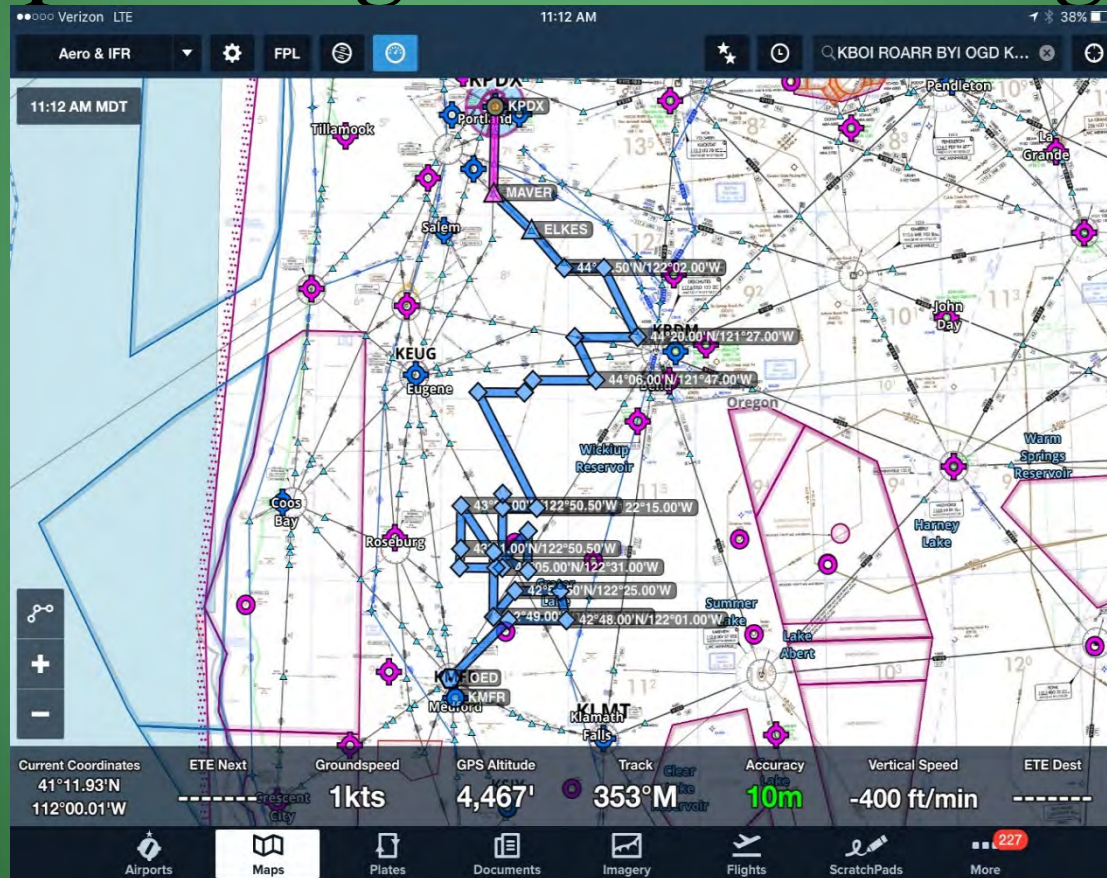
2018

Total Assigned= 1574  
UTF= 1131  
42% UTF rate  
33% non-weather UTF

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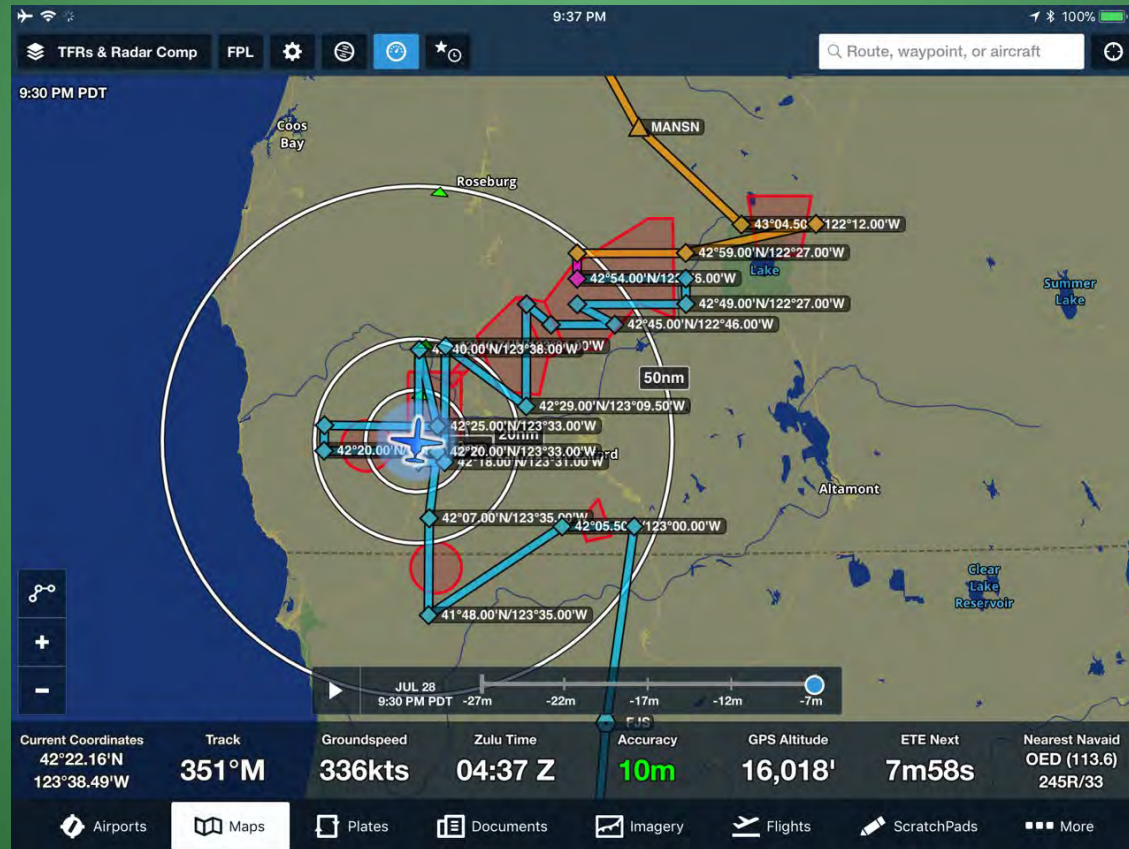
### Typical Flight Track 49z August





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### Typical Flight Track 44z





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### INFRARED PILOTS 2018

**Dan Johnson Supervisor**  
**08/2006**  
**44Z & 49Z**

**Vacant**  
**Vice/Nelson**  
**06/2016**  
  
**44Z & 49Z**

**Vacant**  
  
**49Z**

**Don Boyce**  
**05/2007**  
  
**44Z & 49Z**

**Ed Netcher**  
**08/2012**  
  
**49Z & 44Z**

**Sam**  
**Ramsay**  
**(RAO)**  
  
**44Z & 49Z**

[illegible]

## Fire & Aviation Management

# What did we learn

- IR reconnaissance demand exceeded capacity
  - Completed speed vs altitude flight test in both aircraft ( Kaz will brief data)
  - Aging aircraft requiring more MX
  - Relief Pilots Essential for crewing
    - Sam Ramsay RAO,
    - Jeff Watts Maintenance Inspector
    - Kris Nelson LP (trainee)
    - Tim Dehaas SJ
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## Fire & Aviation Management

**Thanks to for a successful season....**

- IR Technicians
  - IRINS
  - GTAC & Aircraft 3
  - NICC
  - WO
  - MAINTENANCE STAFF
  - SUPPORT STAFF
  - TRAVEL Approvers
-

## Fire & Aviation Management

# What's Next ...

- Avionics upgrade 2019 44z 01/07 – 03/15
  - New Telemetry \$\$ 1.5 million allocated
  - Address pilot shortage
  - Renew pilot developmental detail
  - Anticipate more maintenance requirements for aging aircraft
-

## Fire & Aviation Management

# What's Next ...

- Continued development of the AMS Sensor spring 2019 deployment / testing
  - 15 April one aircraft FMC (crew, equipment, aircraft)
  - Additional Aircraft ??
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# Any Questions?





# USDA Forest Service

*Caring for the land and serving people*



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VIEW FROM THE OFFICE

# USDA Forest Service

*Caring for the land and serving people*



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Sunset over Idaho



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Weather going around Area 51

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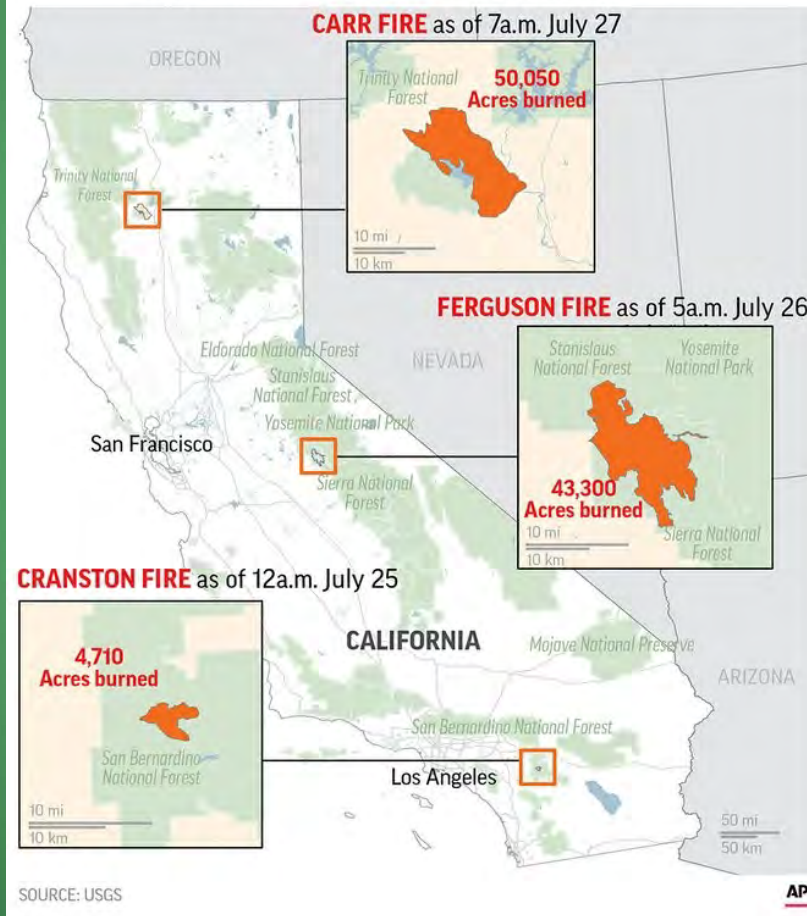
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Major wildfires span the state of California



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Carr Fire



# USDA Forest Service

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Fact of Life:



After Monday and  
Tuesday...  
even the calendar  
says.

W T F



## Fire & Aviation Management

In the third grade, our teacher,  
said, "Quit staring out the window,  
because when you grow up, no  
one will pay you to sit there and  
just look out the window"..

Guess I showed her.....

