

Fire & Aviation Management

2017 IR OPS SUMMARY



PROVIDING SAFE, YEAR ROUND, ON DEMAND, IR RECONNAISSANCE

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INFRARED OPERATIONS

April to December



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FIRST FIRE FLOWN:

- West Mims Fire(FL)

17 APR 2017



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LAST FIRE FLOWN:

■ Thomas

?? DEC 2017



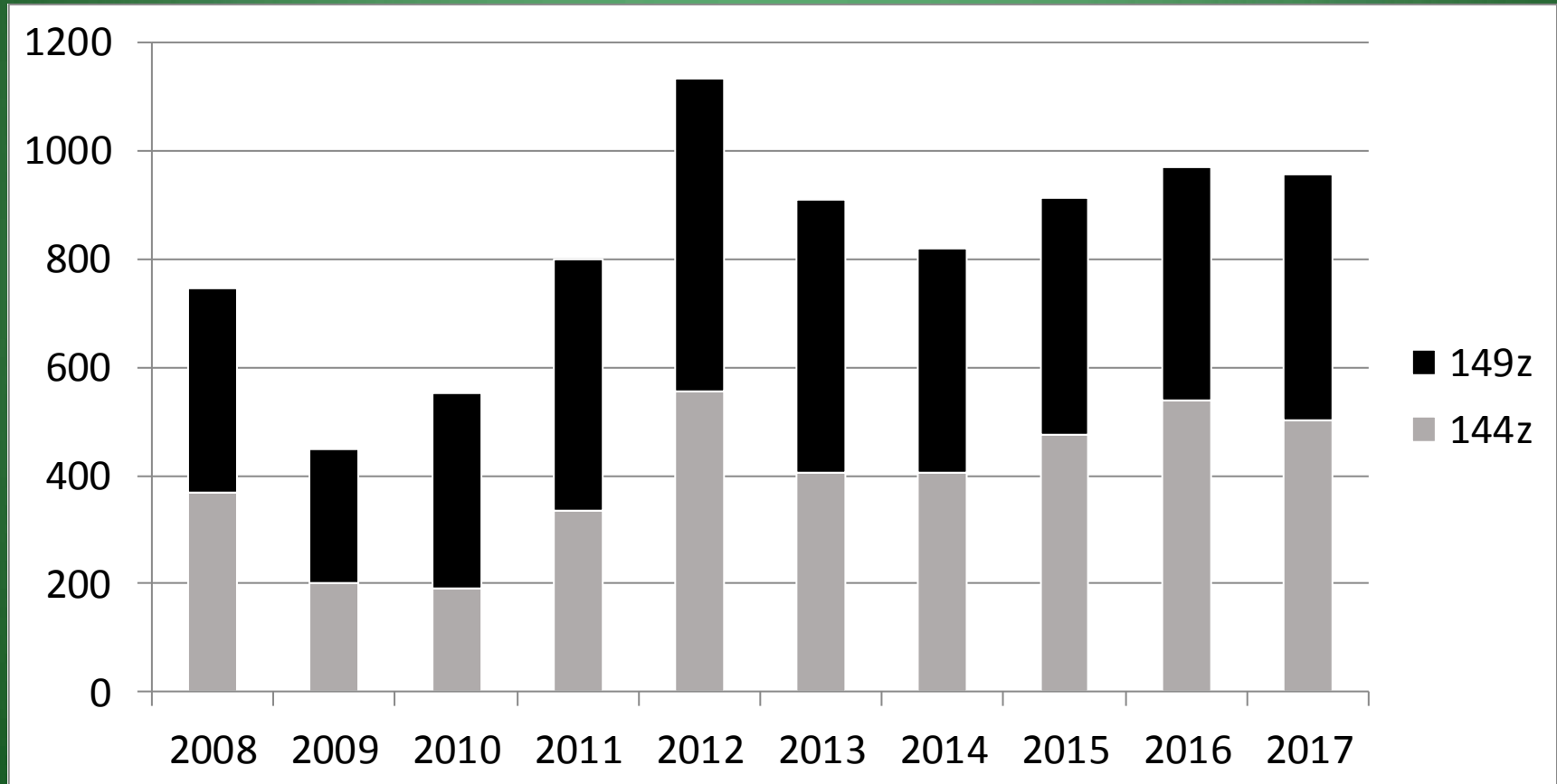
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2017 IR TRIVIA

- States Flown in 1 Night: 5
 - Most Fires Flown in 1 Night 44z & 49z : 42 orders
 - Most Fires Flown in 1 Night 1 A/C 44z : 46 orders
 - Largest Fire: Chetco Bar
 - Longest Night Mission: 7.9 hours; 2 Fuel Stops
 - Most Southern IR Operation: Southern Florida
 - States Flown During This Fire Season:
 - AZ, CA, CO, ID, MT, NM, OR, UT, WA, WY, NV, FL, GA, SC, VA, TN, NC
 - 144Z and 149Z Flight Hours – 965 IR hrs to date
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Total Flight Hours 2008 - 2017



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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 brake replacement/fuel leak 05/08 – 05/22
 - 44z Left bleed valve fail 06/08-06/23
 - 44z phase maintenance 06/26 – 06/28
 - 44z strobe glass failure 07/04 – 07/05
 - 44z out of svc lightning strike 07/20 – 07/22
 - 44z phase maintenance 08/14
 - 44z GCU maintenance 09/22-
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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 Phase 1 thru 5 required 01/01 – 03/19*
 - 49z 15,000 hr wing pull inspection 04/15 – 05/07
 - 49z phoenix installed 05/22
 - 49z G1000 maintenance 06/01 – 06/08
 - 49z phase maintenance 07/17 – 07/18
 - 49z hot section inspection 07/30 – 08/16
 - 49z electrical malfunction 09/02 – 09/04
 - 49z phase maintenance 09/15 – 09/20
 - 49z autofeather failure 09/23 – 09/24
-

Fire & Aviation Management Aircraft Updates

Aging Aircraft

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

44Z Avionics upgrade

New Aircraft?

2018 projected aircraft rates:

44Z \$TBD FY2017 \$1850

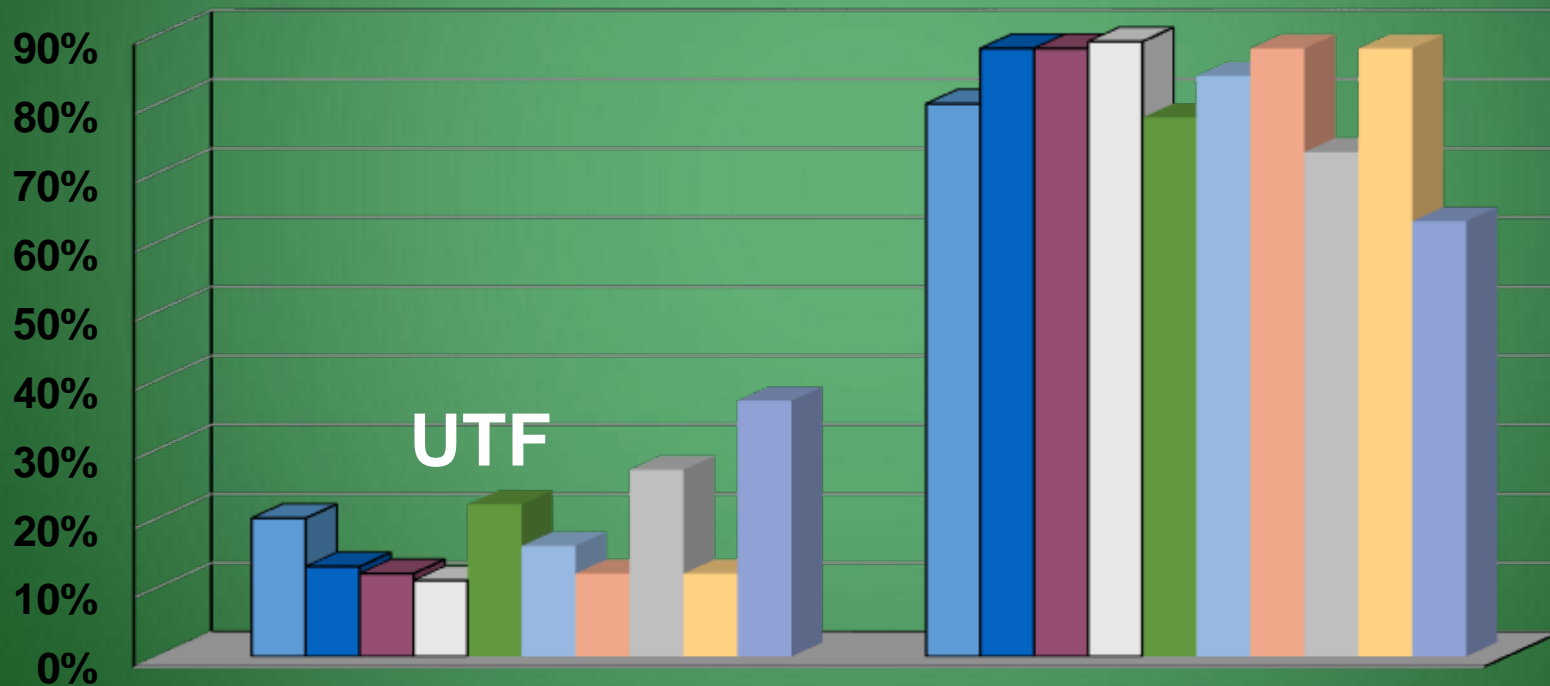
49Z \$TBD FY2017 \$1250

Both prices are suspected to be lower in 2018

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IR REQUESTS (last 10 years)

FILLED



2008 2009 2010 2011 2012 2013 2014 2015 2016 2017



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2014

Total Assigned= 1093

UTF= 143

13% UTF rate

4% non-weather UTF

2015

Total Assigned= 1345

UTF= 746

55% UTF rate

37% non-weather UTF

2016

Total Assigned= 1406

UTF= 185

13% UTF rate

5% non-weather UTF

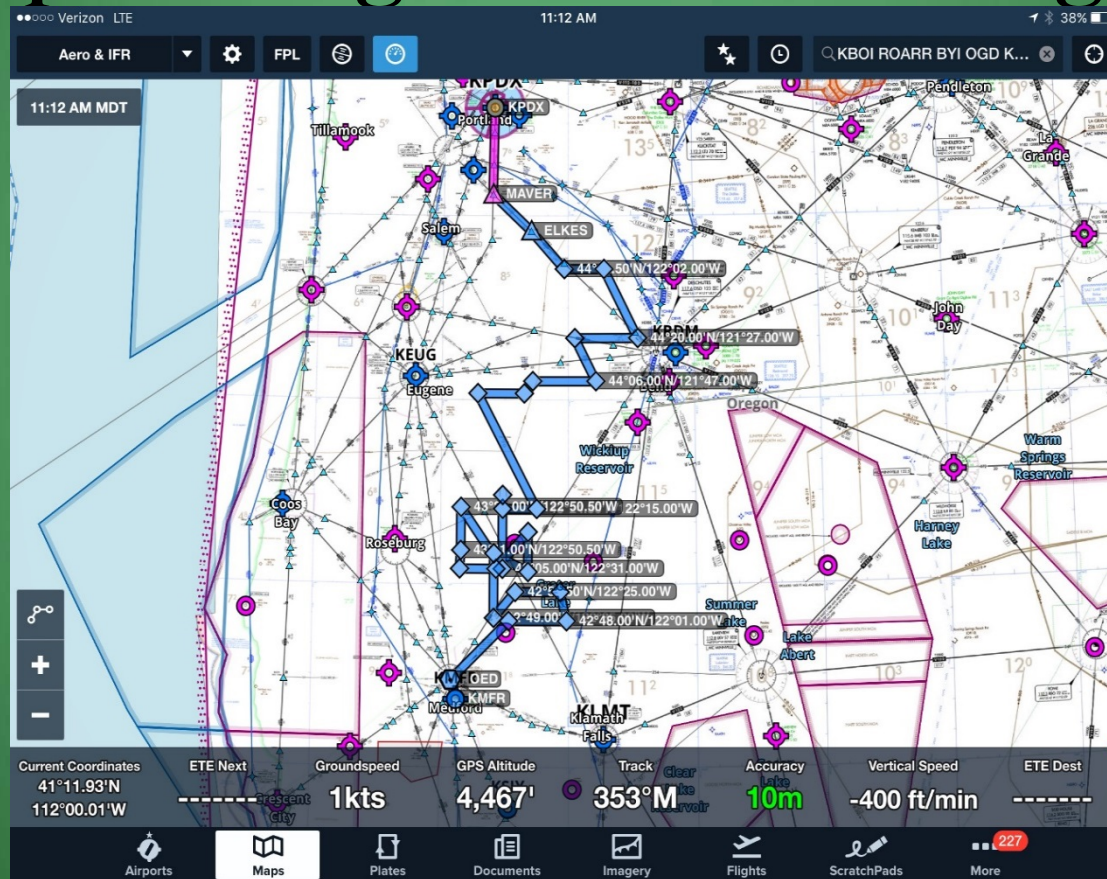
2017

Total Assigned= 1888

UTF= 703

37% UTF rate

27% non-weather UTF



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Typical Flight Track 44z





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INFRARED PILOTS 2016

Dan Johnson Supervisor

08/2006

44Z & 49Z

Kris Nelson

06/2016

44Z & 49Z

Justin White

06/2017

49Z

Don Boyce

05/2007

44Z & 49Z

Ed Netcher

08/2012

49Z & 44Z

**Sam
Ramsay
(RAO)**

44Z & 49Z

[illegible]

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What did we learn

- IR reconnaissance demand exceeded capacity
 - Weekly conference calls effective for SA
 - Aging aircraft requiring more MX
 - Relief Pilots Essential for crewing
 - Sam Ramsay RAO,
 - Jeff Watts Maintenance Inspector
-

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Thanks to for a successful season....

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

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What's Next ...

- Address pilot shortage
 - Renew pilot developmental detail
 - Anticipate more maintenance requirements for aging aircraft
 - Complete speed vs altitude test in both aircraft
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What's Next ...

- Continued development of the AMS Sensor spring 2018 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

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Sunset over Idaho

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Brianhead Fire

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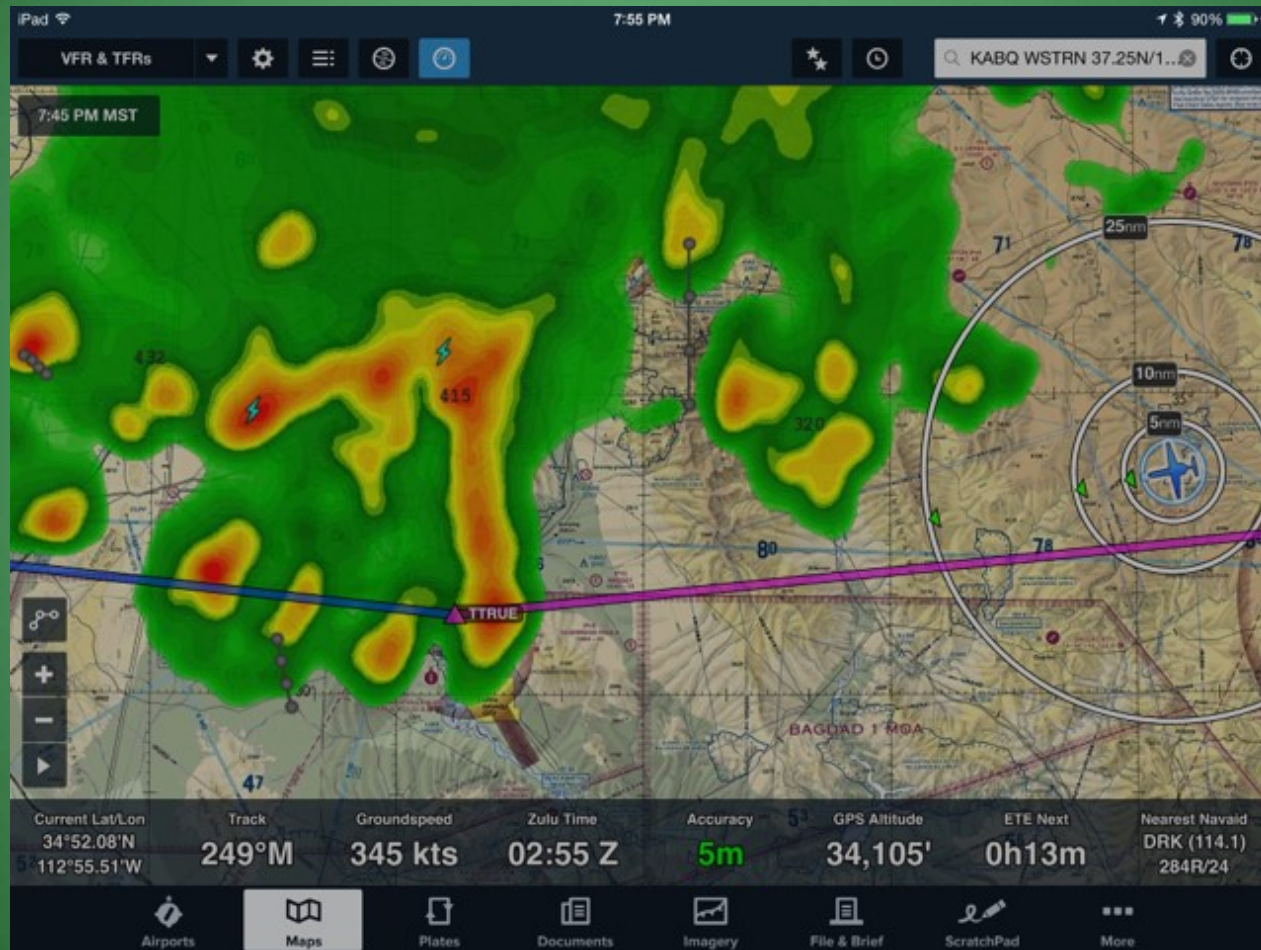
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Weather going south around Las Vegas

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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.....

