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Fire & Aviation Management

2020 IR OPS SUMMARY



PROVIDING SAFE, YEAR ROUND, ON DEMAND, IR RECONNAISSANCE

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INFRARED OPERATIONS June to November



THE GOLD STANDARD BY WHICH ALL OTHERS ARE MEASURED

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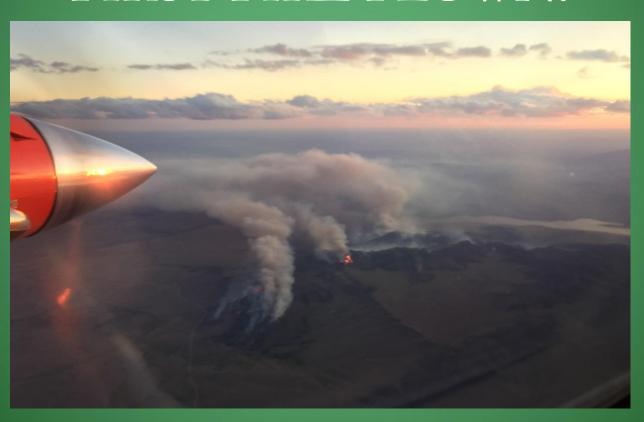






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FIRST FIRE FLOWN:



Sawtooth Fire

1 JUN

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LAST FIRE FLOWN:



Cameron Peak Fire

20 NOV

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2020 IR TRIVIA

- States Flown in 1 Night: 4
- Most Fires Flown in 1 Night 44z & 49z : 20 orders
- Most Fires Flown in 1 Night 1 A/C 49z : 20 orders
- Most Percent Flown by 49z in 1 Night: 45% 09/05
- Longest Night Mission: 8.0 hours; 08/22 64% UTF
- Most NIROPs Platforms in Operation Single Night: 9
- States Flown During This Fire Season:
 - AZ, CA, CO, ID, MT, NM, OR, UT, WA, WY, NV,
- 144z and 149z Flight Hours 793 IR hrs to date

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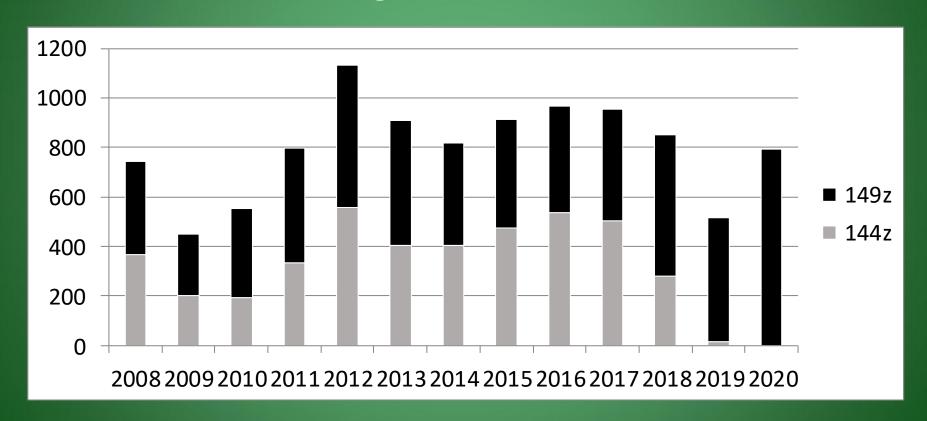






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Total Flight Hours 2008 - 2020



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Aircraft 44z Maintenance

- 44z GTN 750 installed 6hr to SGU close 05/28/2019
- 44z out of service unsafe avionics 5/28/2019 current
- 44Z is a 2001 Cessna Citation that is unavailable for missions due to chronic avionics issues and requires immediate replacement.
- investment required to return 44Z back to service for the remaining aircraft lifecycle is estimated at \$2.28M
 - avionics replacement and installation
 - engine replacement within the next 500 hours

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- HUIP, High Use Inspection Plan:
 - Routine due every 200 hours, typical completion 1 day Phase due every 400 hours, typical completion 3-5 days
- 20 hours before 20 hours after
- 49z right fuel gauge inop deferred 06/11 present
- 49z stall heat inop 06/29-06/30
- 49z phase maintenance 07/02 (completed one day)
- 49z phase maintenance 08/13-08/16
- 49z left wing fuel leak 08/31
- 49z stall heat inop 09/23 (found wire arcing/short)
- 49z out of service right engine trend Yellow 10/08
- 49z out of service overfly left engine 3600+198 10/18-11/04
- 49z return to service left engine loaner installed & phase maintenance 11/05 (used 27.1 hours)
- 49z phoenix sensor removed for winter maintenance 12/01

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Fire & Aviation Management Aircraft Updates

Aging Aircraft

- increased maintenance items

44Z Avionics faulty upgrade

- Beechcraft King Air 250 to replace 44z

New Aircraft?

- Business case submitted FY-20
- Two Beechcraft King Air 250 Replacements Approved

2021 aircraft rates:

44Z FY2019 \$1620 to FY2020 \$1620 49Z FY2020 \$1100 to FY2021 \$1100

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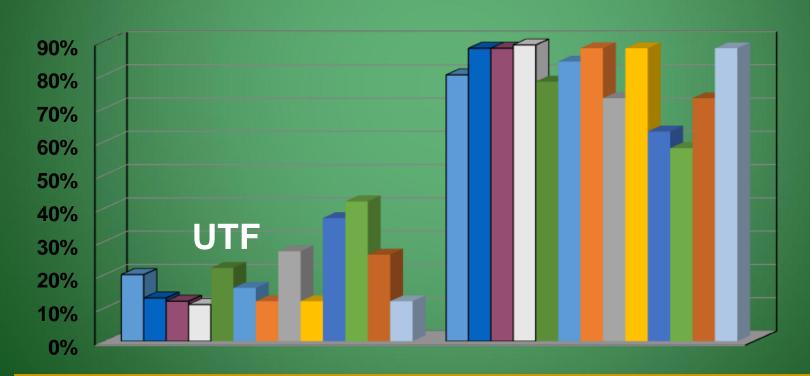




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IR REQUESTS (last 13 years)

FILLED



□ 2008 □ 2009 □ 2010 □ 2011 □ 2012 □ 2013 ■ 2014

2015 2016 2017 2018 2019 2020

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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

2018

Total Assigned= 1574

UTF= 1131

42% UTF rate

33% non-weather UTF

2020

Total Assigned = 554

UTF= 43

12% UTF rate

6% non-weather UTF

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INFRARED PILOTS 2020

Dan Johnson Supervisor 08/2006 44Z & 49Z

Carl Helquist 05/2019

49Z

VACANT

Don Boyce R4 STANDS PILOT 05/2007

44Z & 49Z

VACANT

VACANT

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What did we learn...

- IR reconnaissance demand exceeded capacity
- Aging aircraft requiring more MX
 - RTB OGD essential 49z to remain in service
 - > RTB OGD also eliminated 6/36 duty limits
- Sensor upgrades (Kaz/Mike will brief improvements)

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Thanks to the

- IR Coordinators
- IR Technicians
- > IRINS
- GTAC & Aircraft 3
- Contract Aircraft & CO / COR
- > NICC
- > WO
- MAINTENANCE STAFF
- SUPPORT STAFF

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What's Next ...

- 49z winter maintenance 12/02 ??
 - > 6th Engine rebuild x 2 estimate \$600k / 3600hr
 - Exterior paint \$50k
- Anticipate more maintenance requirements for aging aircraft
 - > 49z manufactured 1985 18,000 plus hours
- Aircraft replacement for 44z & 49z 2021
- Address pilot shortage

Any Questions?

