2019 IR OPS SUMMARY

PROVIDING SAFE, YEAR ROUND, ON DEMAND, IR RECONNAISSANCE
INFRARED OPERATIONS
June to November
FIRST FIRE FLOWN:

Elk Fire 12 JUN 2019
LAST FIRE FLOWN:

Kincade Fire 08 NOV 2019
2019 IR TRIVIA

- States Flown in 1 Night: 4
- Most Fires Flown in 1 Night 44z & 49z: 14 orders
- Most Fires Flown in 1 Night 1 A/C 49z: 14 orders
- Largest Fire: Woodbury Fire 123,875 acres
- Longest Night Mission: 7.8 hours; 2 Fuel Stops
- Most Southern IR Operation: New Mexico
- States Flown During This Fire Season:
  - AZ, CA, CO, ID, MT, NM, OR, UT, WA, WY, NV,
- 144z and 149z Flight Hours – 502 IR hrs to date
MILLER FIRE 7/2
Total Flight Hours 2008 - 2019

- **149z**
- **144z**
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 Phoenix removal 12/12
- 44z delivery SGU GTN 750 install 01/08
- 44z out of service stall/AOA computer 05/07
- 44z GTN 750 installed 6hr to SGU close 05/28
- 44z fuel leak 05/29 – 06/27
- 44z windscreen replace 07/02 – 07/12
- 44z Phoenix install 06/28
- 44z out of service - unsafe avionics 5/28 - current
**Aircraft 49z Maintenance**

- **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 out of service amp gauge 04/12 – 04/17
- 49z Phoenix removal 05/05
- 49z Phoenix install / calibration 06/04
- 49z out of service flap replacement 06/05 – 06/12
- 49z phase maintenance 07/14 – 07/19
- 49z out of service fuel panel *smoke in cockpit* 08/12
- 49z out of service door cable 08/24 – 08/26
- 49z phase 1 maintenance one day turn 09/16
- 49z out of service left generator 10/14
- 49z out of service - *landing gear fail* - ferry permit OGD 10/29 – 11/02
Aircraft Updates

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

44Z Avionics upgrade completion ??

New Aircraft?

2019 projected aircraft rates:
44Z FY2019 $1620 to FY2020 $1620
49Z FY2019 $1150 to FY2020 $1100
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

2019
Total Assigned= 405
UTF= 147
25% UTF rate
13% non-weather UTF
Typical Flight Track 49z August
INFRARED PILOTS 2019

Dan Johnson Supervisor
08/2006
44Z & 49Z

Carl Helquist
05/2019
49Z

VACANT

Don Boyce
R4 STANDS PILOT
05/2007
44Z & 49Z

VACANT

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**Typical Flight Schedule But With Only 3 Pilots**

**USDA Forest Service**

_Caring for the land and serving people_

**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
  - Jeff Watts Maintenance Inspector
Thanks to for a successful season….

- IR Technicians
- IRINS
- GTAC & Aircraft 3
- NICC
- WO
- MAINTENANCE STAFF
- SUPPORT STAFF
- TRAVEL Approvers
What’s Next …

- Avionics upgrade 2019 44z 01/07 – ??
- New Telemetry $$ 1.5 million allocated
- Address pilot shortage
- Renew pilot developmental detail
- Anticipate more maintenance requirements for aging aircraft
What’s Next ...

- continued development of new sensor
  spring 2020 deployment / testing

- 15 April one aircraft FMC
  (crew, equipment, aircraft)

- replacement aircraft ??
Any Questions?
44Z AVIONICS INSTALL

44z avionics install 3 weeks prior to SGU runway closure
WEATHER GOING TO MESA
WEATHER GOING TO MESA
THE FIRE GODS WERE REALLY ANGRY THIS DAY
WOODBURY FIRE FROM THE HOTEL ROOM
Fire & Aviation Management
MEDFORD OREGON ON THE WAY OUT WITH SMOKE IN THE AIR
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......