Caring for the land and serving people







Fire & Aviation Management

2019 IR OPS SUMMARY



PROVIDING SAFE, YEAR ROUND, ON DEMAND, IR RECONNAISSANCE

Caring for the land and serving people









INFRARED OPERATIONS June to November



Caring for the land and serving people









FIRST FIRE FLOWN:



Elk Fire

12 JUN 2019

Caring for the land and serving people









Fire & Aviation Management

LAST FIRE FLOWN:



Kincade Fire

08 NOV 2019

Caring for the land and serving people









Fire & Aviation Management

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

Caring for the land and serving people









Caring for the land and serving people

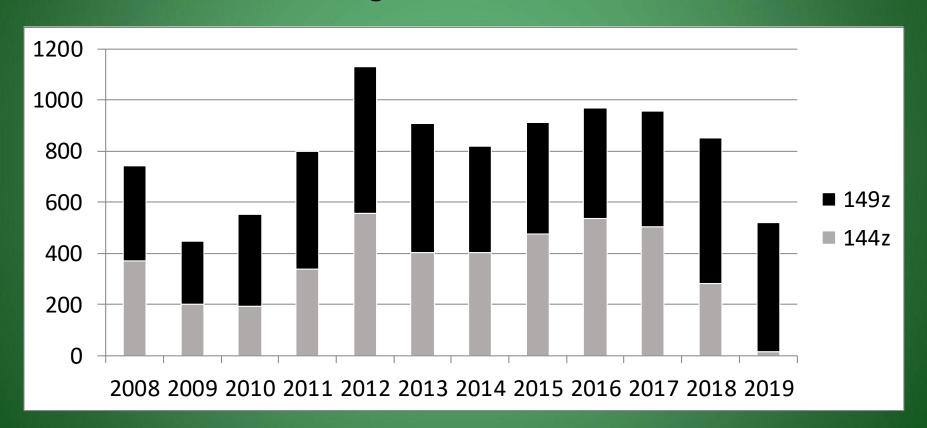






Fire & Aviation Management

Total Flight Hours 2008 - 2019



aring for the land and serving people







Fire & Aviation Management

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

Caring for the land and serving people









Fire & Aviation Management

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 <u>smoke in cockpit</u> 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 <u>landing gear fail</u> ferry permit OGD 10/29 11/02

Caring for the land and serving people







Fire & Aviation Management

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

Caring for the land and serving people





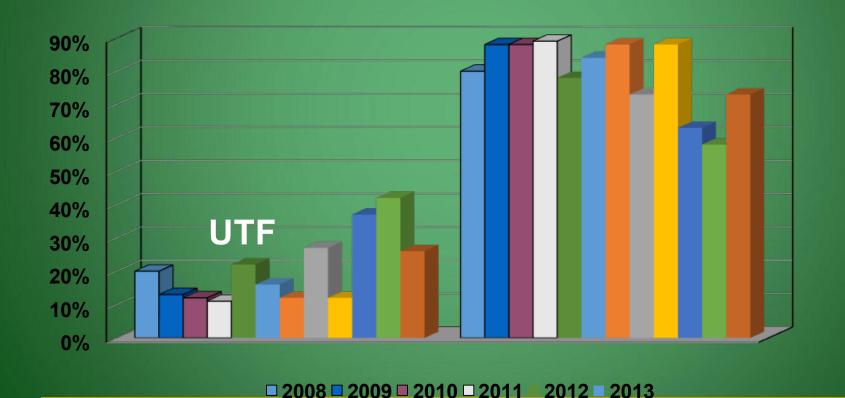


Fire & Aviation Management

IR REQUESTS (last 10 years)

FILLED

2018 2019



2014 2015 2016 2017

Caring for the land and serving people







111111

Fire & Aviation Management

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

Caring for the land and serving people

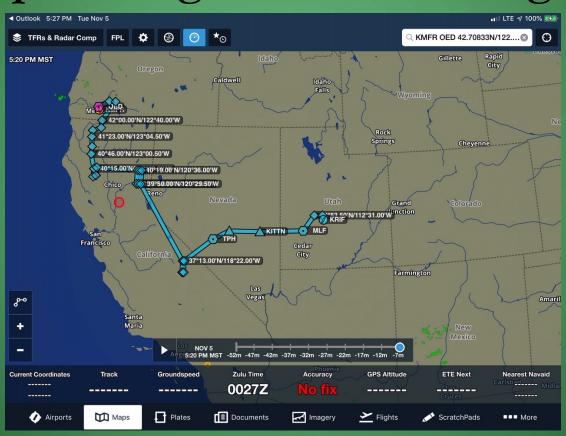






Fire & Aviation Management

Typical Flight Track 49z August



Caring for the land and serving people

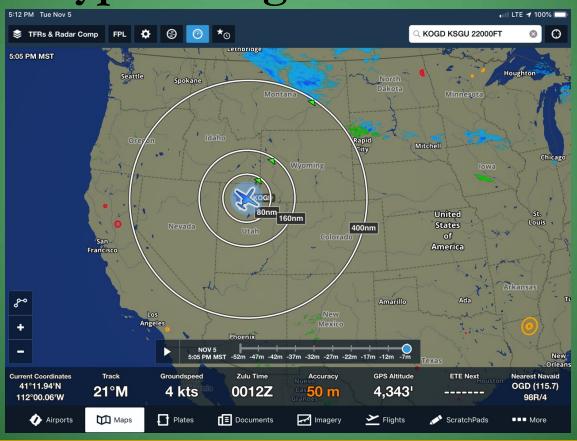






Fire & Aviation Management

Typical Flight Track 44z



Caring for the land and serving people







Fire & Aviation Management

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

VACANT

ORGANIZATION CHART

Caring for the land and serving people









UAS	PP 01+	PP 02+	PP 03+	PP 04+	PP 05+	PP 06+	PP 07+	PP 08+	PP 09+	PP 10+	PP 11+	PP 12+	PP 13+	PP 14+
2019	PP 15+	PP 16-	PP 17-	PP 18+	PP 19+	PP 20+	PP 21+	PP 22+	PP 23+	PP 24+	PP 25+	PP 26+		
	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
PP 16	8/4	8/5	8/6	8/7	8/8	8/9	8/10	8/11	8/12	8/13	8/14	8/15	8/16	8/17
<u>144Z</u>						Dan			Don					
<u>149Z</u>	Don Carl	Don Carl	Don Carl	Don Carl	Don Carl	Don Dan	Don Dan	Don Dan	Carl Dan	Dan Carl	Dan Carl	Dan Carl	Dan Carl	Don Carl
Dan	0	0	IN			144Z	149Z	149Z	149Z	149Z	149Z	149Z	149Z	TO THE
Don	149Z	149Z	149Z	149Z	149Z	149Z	149Z	149Z	144Z	М	М	T		149Z
Carl	149Z	149Z	149Z	149Z	149Z	66	66	T	149Z	149Z	149Z	149Z	149Z	149Z
Caragh	T												M	M
Pliot_b	3													
Pliot_c														
Jeff	3			8								3		
Detall_a														
Detal_b				Sec. 10		Commence of	1	Consumer 1				Garage Contract		Canada and
ech 1 Kristin	3		149z	149z	149z	149z	149z	149z	149z	149z	149z	149z	149z	149z
ech 2 Mike			149z	149z	149z	149z	149z	149z	149z					
ech 3 Rob	149z	149z		10		7.		10		72		Ø		75
ech 4 Brian		UNA	UNA	UNA	UNA	UNA	UNA	UNA	UNA	UNA	UNA	UNA	UNA	UNA
PP 17	8/18	8/19	8/20	8/21	8/22	8/23	8/24	8/25	8/26	8/27	8/28	8/29	8/30	8/31
<u>144Z</u>									Dan					
	3								Don					
	Don	Don	Don	Don	Don	Don				Dan	Dan	Dan	Dan	Don
<u>149Z</u>	Carl	Carl	Carl	Carl	Carl	Dan				Carl	Carl	Carl	Carl	Carl
Dan	0	0	IN			149Z		0	144Z	149Z	149Z	149Z	149Z	
Don	149Z	149Z	149Z	149Z	149Z	149Z	-	S	144Z	0	0	Т		149Z
Carl	149Z	149Z	149Z	149Z	149Z	0	0	Т		149Z	149Z	149Z	149Z	149Z
Caragh														
Pliot_b	1 1													
Pliot_c														
Jeff														8
Detail_a														
Detal_b	1			Same and	1					Same -		Same and		
lech 1 Kristin	149z	149z	149z	149z	149z	149z				149z	149z	149z	149z	149z
ech 2 Mike			149z	149z	149z	149z				149z	149z	149z		
ech 3 Rob	3			72		23.		- S		75		25		72

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

Caring for the land and serving people









Fire & Aviation Management

Thanks to for a successful season....

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

Caring for the land and serving people







Fire & Aviation Management

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

Caring for the land and serving people







Fire & Aviation Management

What's Next ...

- continued development of new sensor spring 2020 deployment / testing
- 15 April one aircraft FMC (crew, equipment, aircraft)
- replacement aircraft ??

Any Questions?



Caring for the land and serving people







Fire & Aviation Management



VIEW FROM THE OFFICE

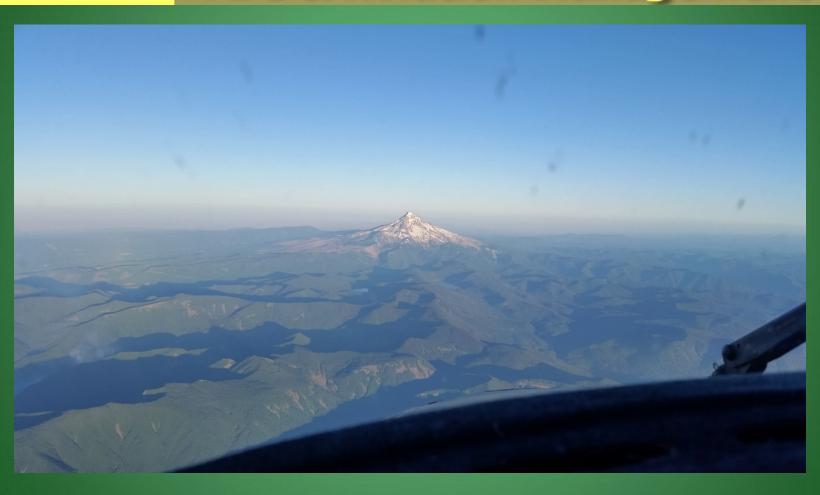
Caring for the land and serving people











Caring for the land and serving people







Fire & Aviation Management

44Z AVIONICS INSTALL



Caring for the land and serving people









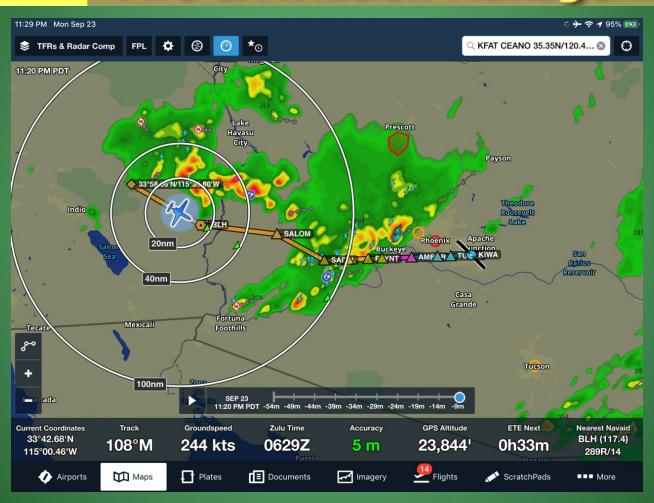


Caring for the land and serving people







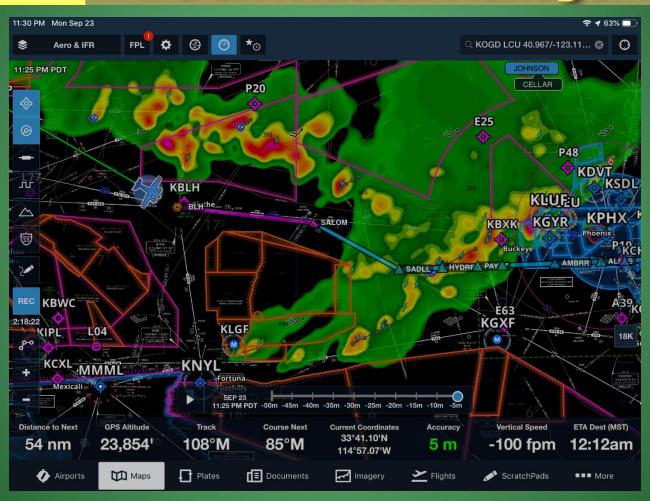


Caring for the land and serving people









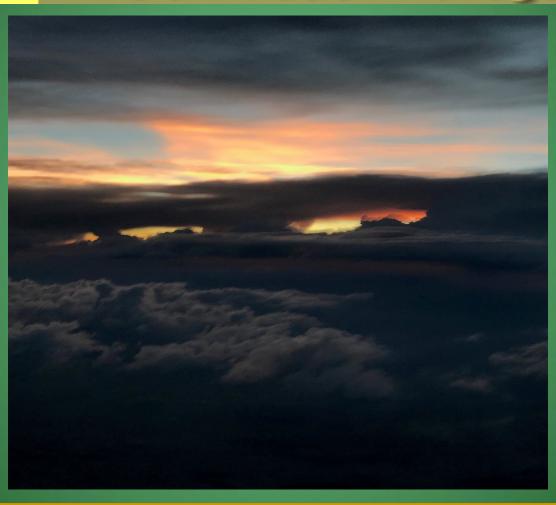
Caring for the land and serving people







Fire & Aviation Management



THE FIRE GODS WERE REALLY ANGRY THIS DAY

Caring for the land and serving people







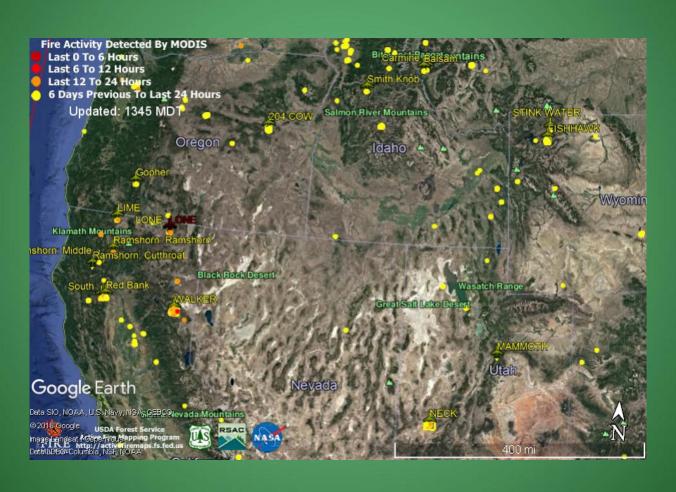


Caring for the land and serving people









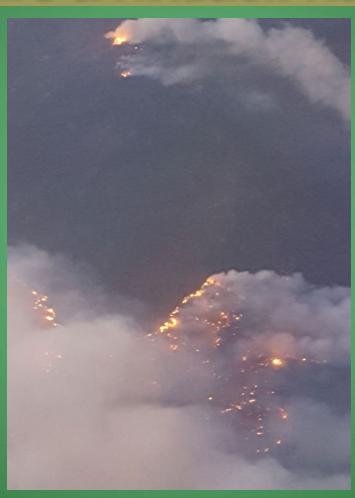
Caring for the land and serving people











Caring for the land and serving people







Fire & Aviation Management



MEDFORD OREGON ON THE WAY OUT WITH SMOKE IN THE AIR

Caring for the land and serving people









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.....

