

2016 NIROPS National Summary

Tom Mellin, National Infrared Program Manager Original Presentation November 2, 2016 NIROPS Closeout, NIFC, Boise Some slides updated with Southern Area data, 1/5/17

NATIONAL MERATIONS

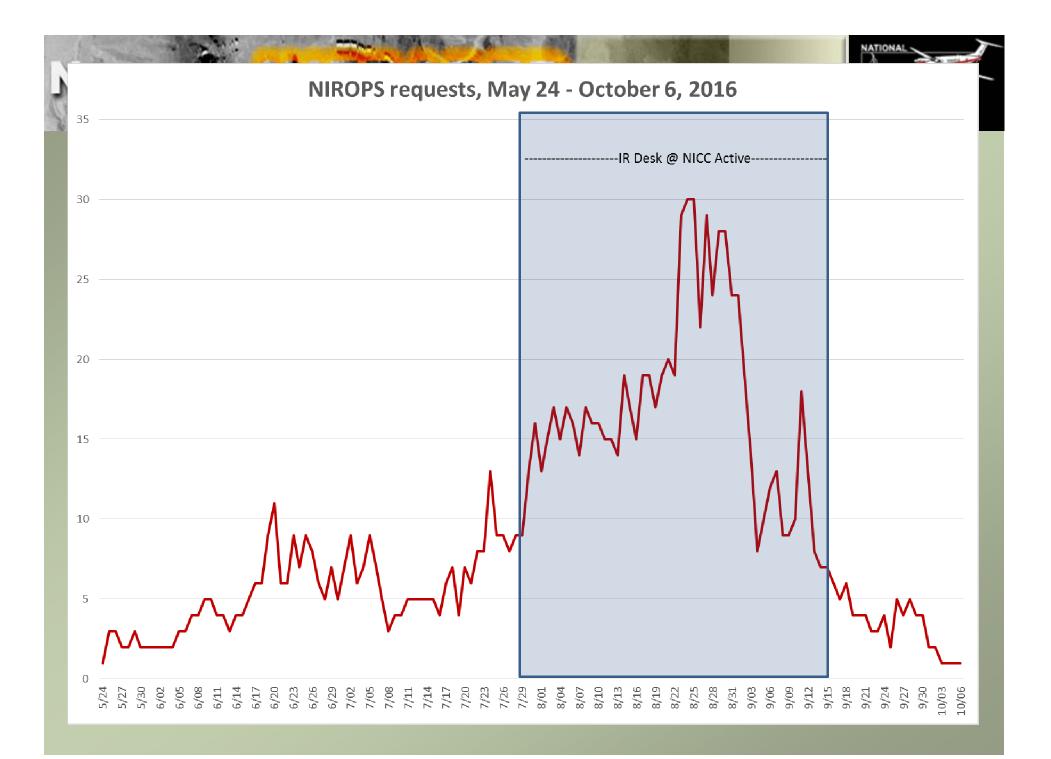
2016 -

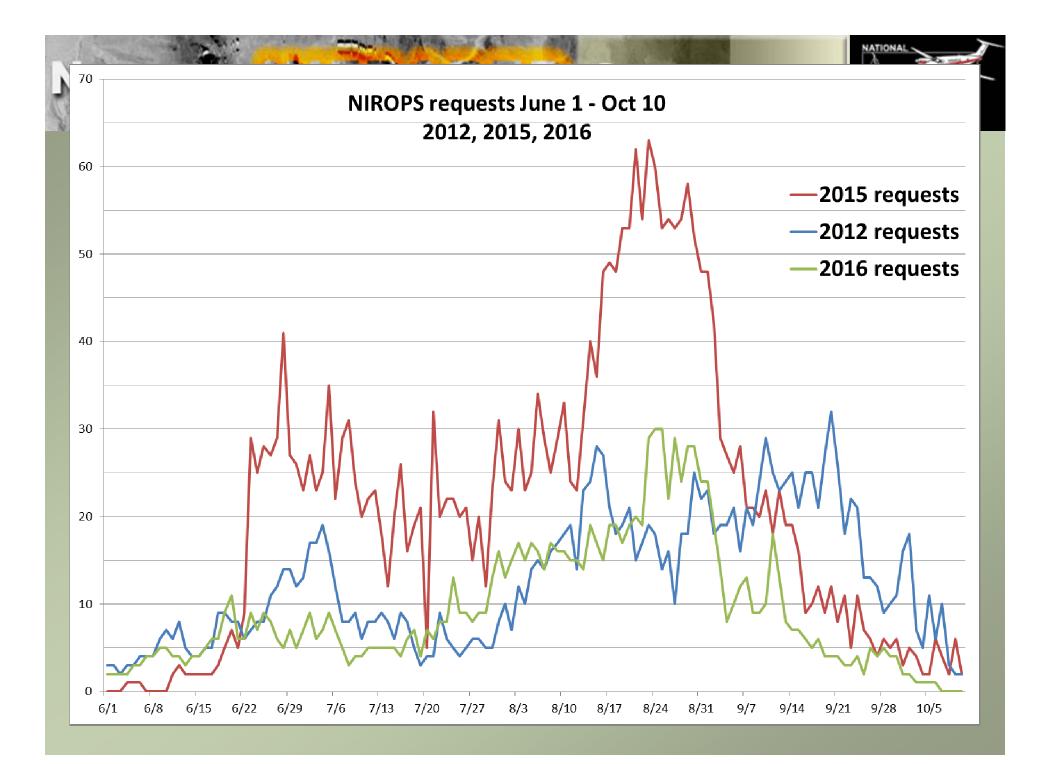
- 5.4 million acres, 77% of the ten year average (2006-2015)
- Slow start to the season
- Late season (Nov) in Southern Area
- More IR requests in CO, NM, AZ and WY than previous few years



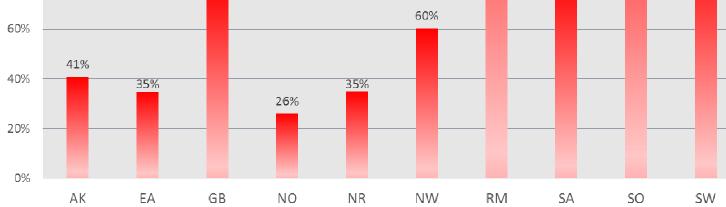
2016 NIROPS Requests

- # 1,692 total requests with 1,495 filled
- # 10 yr avg (2006-2015) 1,343 requests and 1,030 filled
- 10% UTF rate 3,000 **NIROPS Requests by Year** Aircraft 3 filled 2,500 3% of missions 2.000 (28% in 2015) Filled 1,500 Total 1,000 500 0 Updated 1/5/17 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016



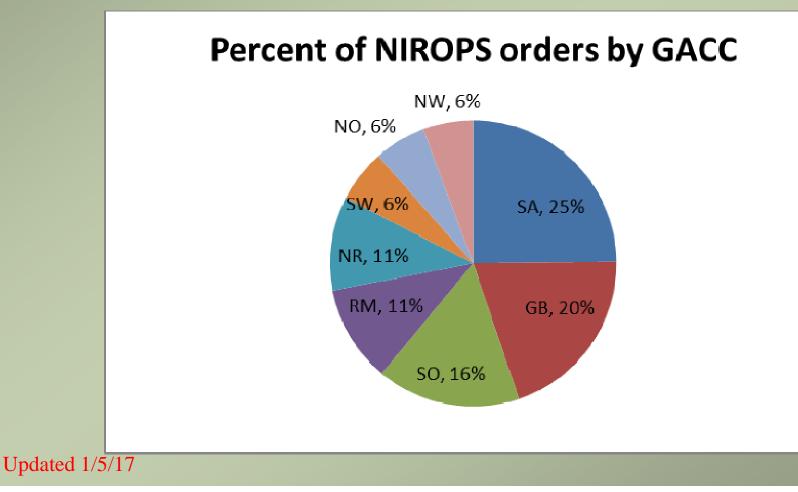


NATIONAL, NERARED OPERATIONS OPERATION Fire Activity by GACC Acres Burned by GACC - 2016 (as of Oct 14) (as a percent of each GACC's 10-year average) 180% 171% 160% 146% 140% 120% 100% 94% 81% 78% 80% 60% 60%





2016 – Orders by GACC © Compare to 2015





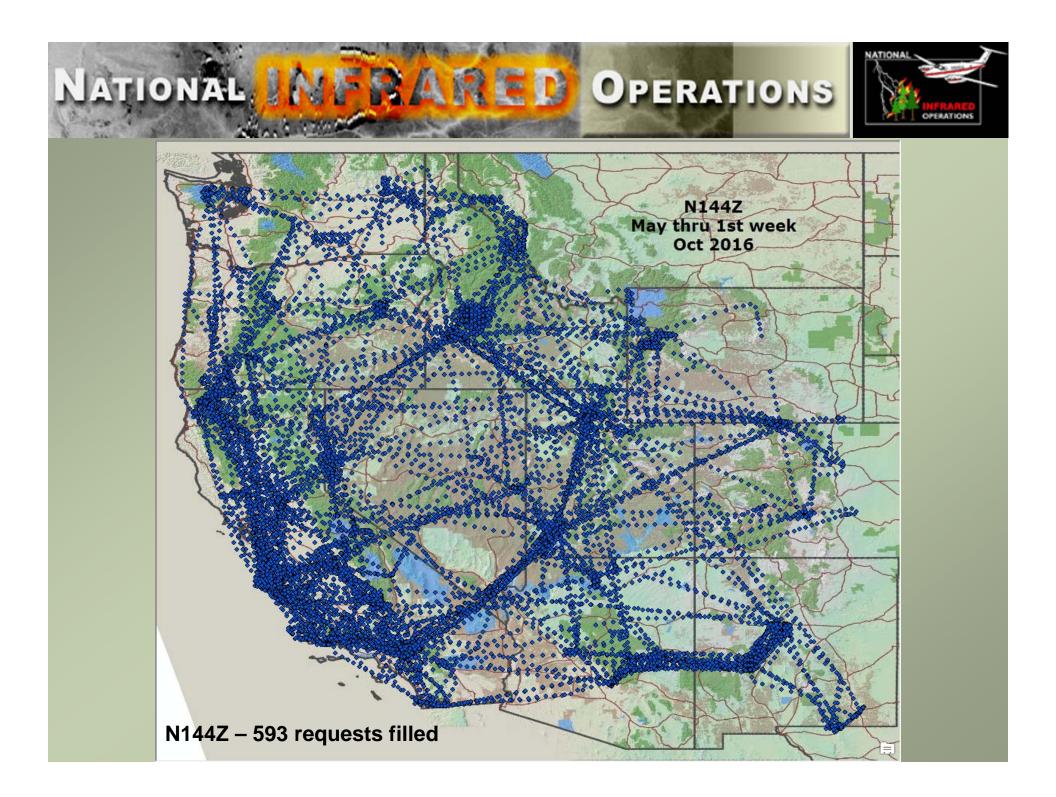
Busiest Night 2016 – August 30, 26 Fires

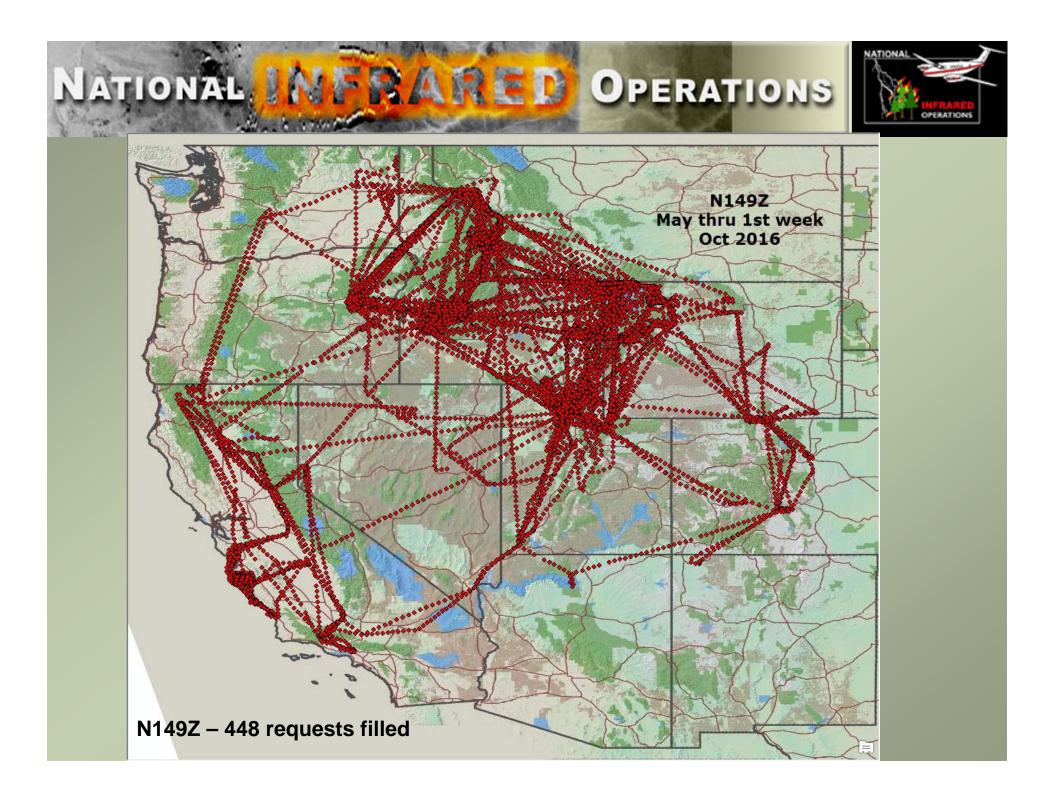
N149Z (15 fires)

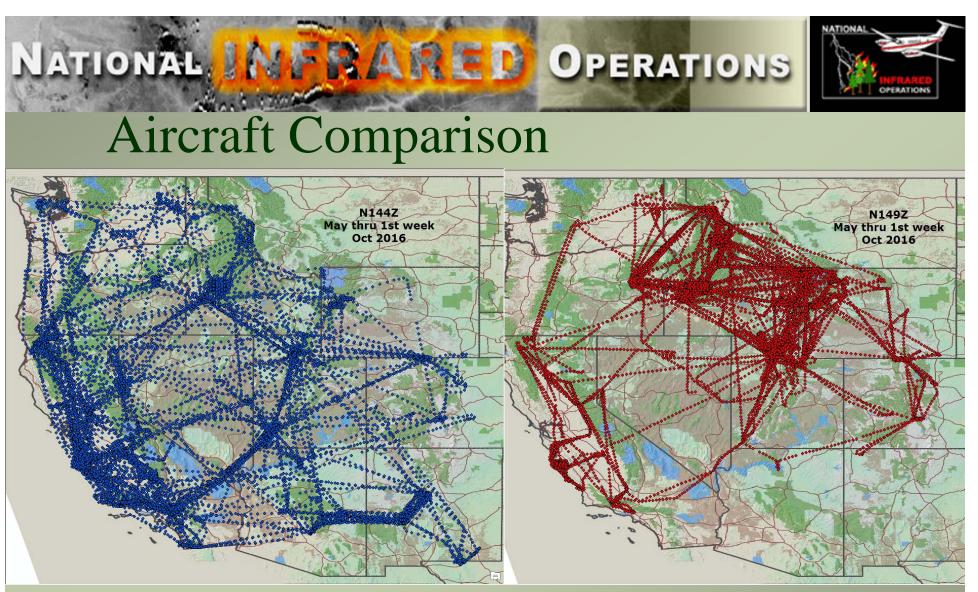
- Porcupine (UT)
- Box Canyon (UT)
- Peterson Hollow (UT)
- Willow Creek (UT)
- Berry (WY)
- Tatanka Complex (WY)
- Maple (WY)
- Pioneer (ID)
- Tie (ID)
- Elk Ridge (ID)
- Ø Cedar (ID)
- Sixtytwo (ID)
- Moose (ID)
- Freeman (ID)
- Roaring (ID)

- N144Z (11 fires)
 - Pony (CA)
 - Tully (CA)
 - Chimney (CA)
 - Rey (CA)
 - Ø Cedar (CA)
 - Gap (CA)
 - Soberanes (CA)
 - Bogart (CA)
 - Rail (OR)
 - John Doe (ID)
 - Copper King (MT)

2015 Busiest night was 8/19 with 47 fires flown, 26 by 144Z, 16 by 149Z, 5 by AC3





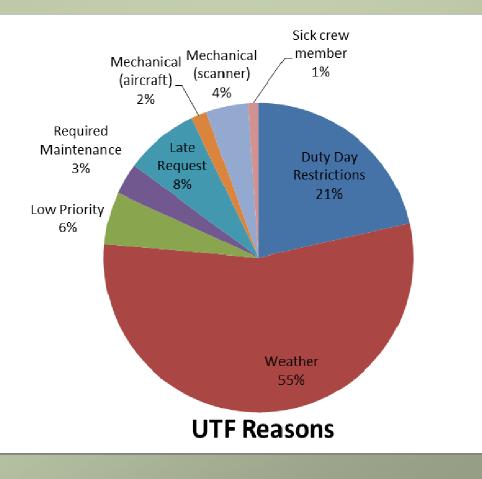


- N144Z (Citation Jet) is faster (370 kts vs 240 kts) and covers the west coast and farther flung fires
- N149Z has greater endurance (4 hrs vs 3 hrs)

UTFs (Unable to Fill)

NATIONAL, NERATIONS

- 182 total UTFs (NIROPS only)
- UTF rate drops from 10% to 4% when weather UTFs are not counted
- UTF for Aircraft 3 17% (10% non-weather)



Updated 1/5/17

NATIONAL OPERATIONS Image: Contract of the second seco

Other

18%

Type 3

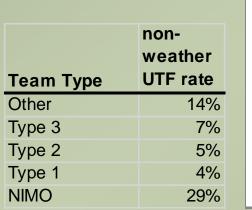
22%

IMT1

25%

IMT2

31%



All NIMO orders were for Beaver Creek (CO)



Prioritization of fires for IR (not in any order)

- Type of team assigned Type 1, 2, 3, etc.
- Values at risk, WUI, evacuations
- Priority listings in National IMSR
- GACC priority listings
- Geographic location and grouping of fires
- Activity during the day
 - Satellite fire detections MODIS, VIIRS
 - Plume activity visible satellite
- Consultation with NICC
- Heat detected from NIROPS flights
- Expected weather over incident
- Feedback from IRINs



Extended Support to numerous incidents

- Soberanes (CA) 75 flights
- Pioneer (ID) 61 flights
- Beaver Creek (CO) 50 flights*
- Cedar (CA) 35 flights
- North (NM) 32 flights
- Saddle (CA) 31 flights
- Rail (OR) 31 flights
- Copper King (MT) 27 flights
- Lava Mountain (WY) 23 flights
- Cliff Creek (WY) 22 flights



- It Takes a Team!
- IR Techs 5 person rotation
- Pilots 6 FS fulltime
- 35 different IRINs, 2 trainees got assignments and got signed off
- National IR desk staffed from 7/29 to 9/15 by 3 different IRCNs
- Aircraft 3 (Firehawk) coverage key during maintenance on NIROPS aircraft- AC3 liaison at RSAC and NGA analysts
- R4 Aviation maintenance crew

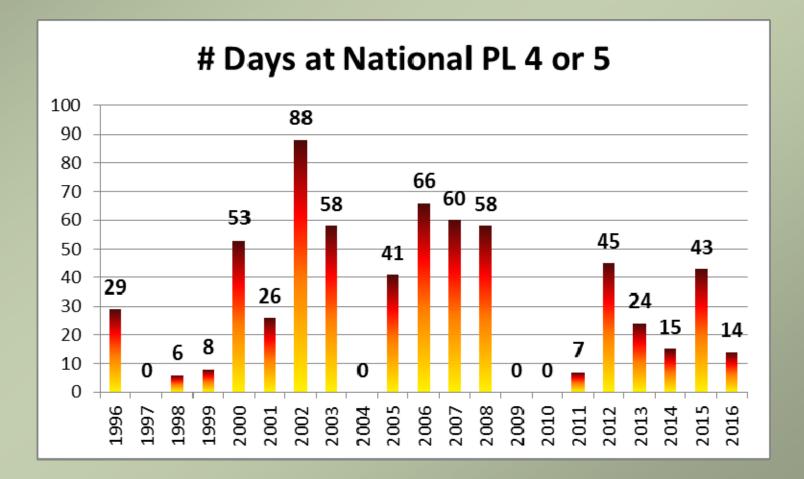


Takeaways from 2016

- Useful to have desk active at PL 3 ("strong 3") depending on IR demands
- Full pilot staffing is great!
- When best to utilize other IR resources
 - Small fires, initial attack, early stages
 - Fire cooling down, mostly hot spot detection
- Other IR resources are complementary to NIROPS



Next Year?.....





Rest of 2016 and into 2017

- Most forecasts call for weak La Niña
- Monitor fire activity and try to maintain one system in ready status

