



2016 NIROPS National Summary

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NIROPS Closeout, NIFC, Boise

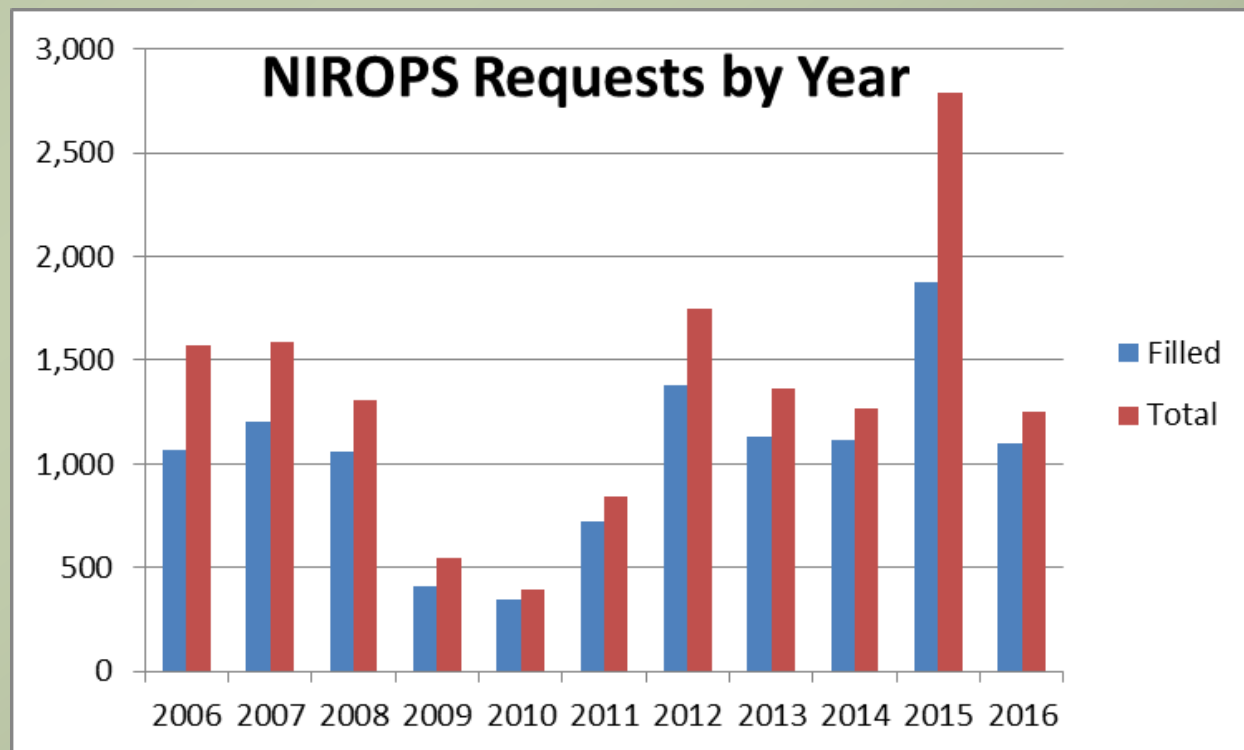


2016 –

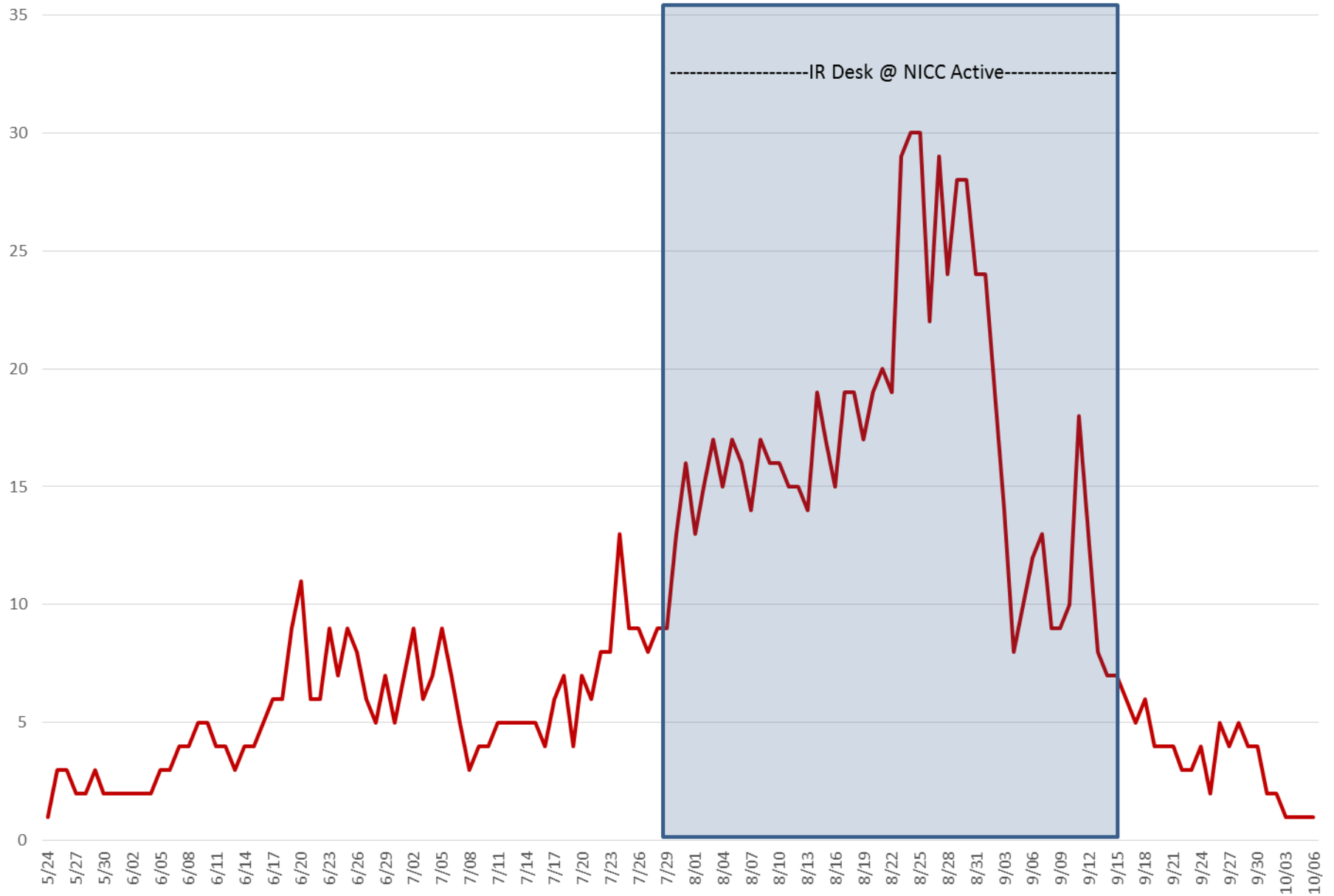
- 4.9 million acres burned as of Oct 14th, 75% of the ten year average (2006-2015)
- Slow start to the season
- More IR requests in CO, NM, AZ and WY than previous few years

2016 NIROPS Requests

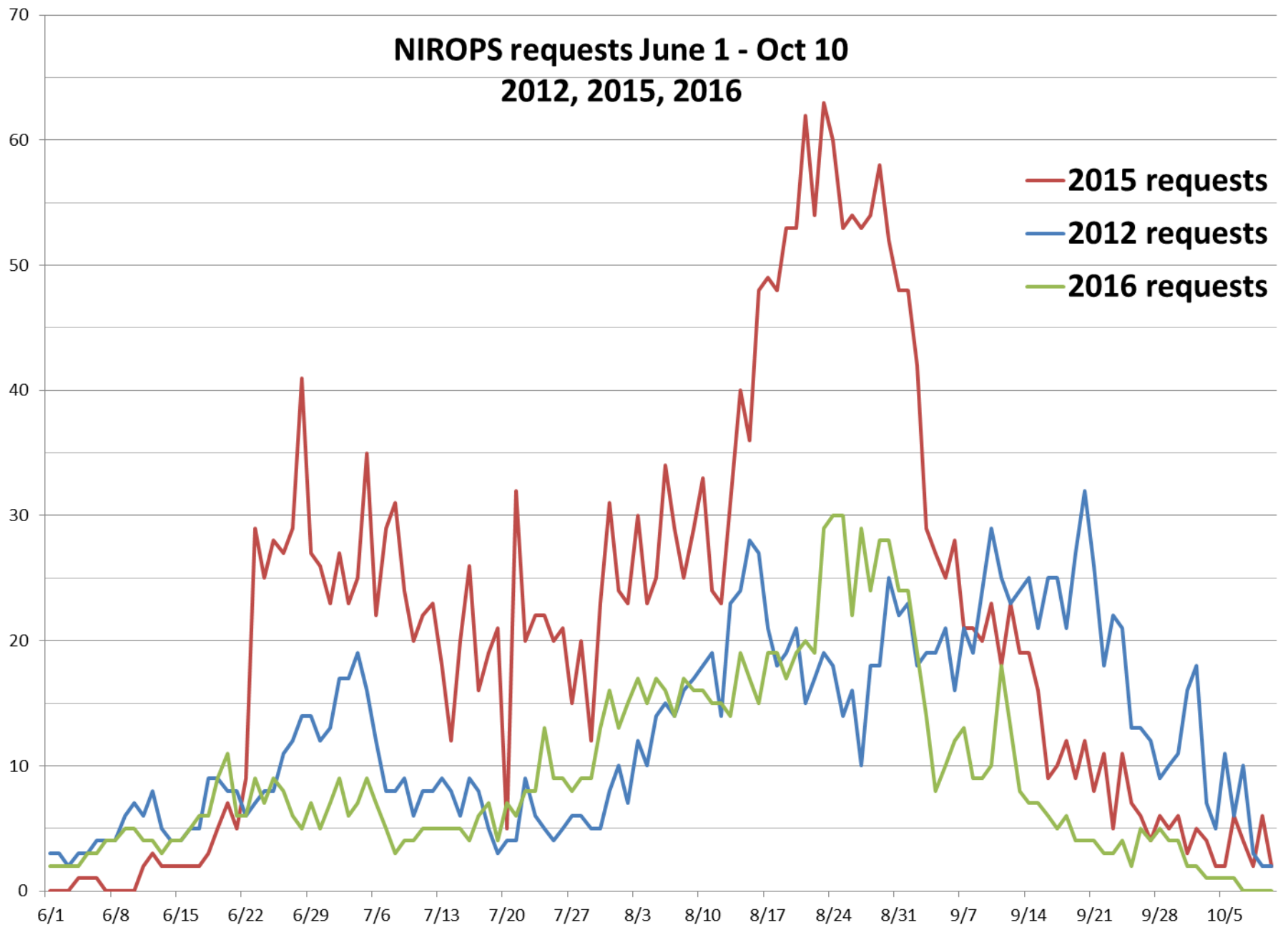
- 1,248 total requests with 1,096 filled
- 2016 acres burned was xx% of 20xx
- 10 yr avg (2006-2015) 1,343 requests and 1,030 filled
- 12% UTF rate
- Aircraft 3 filled
5% of missions
(28% in 2015)



NIROPS requests, May 24 - October 6, 2016

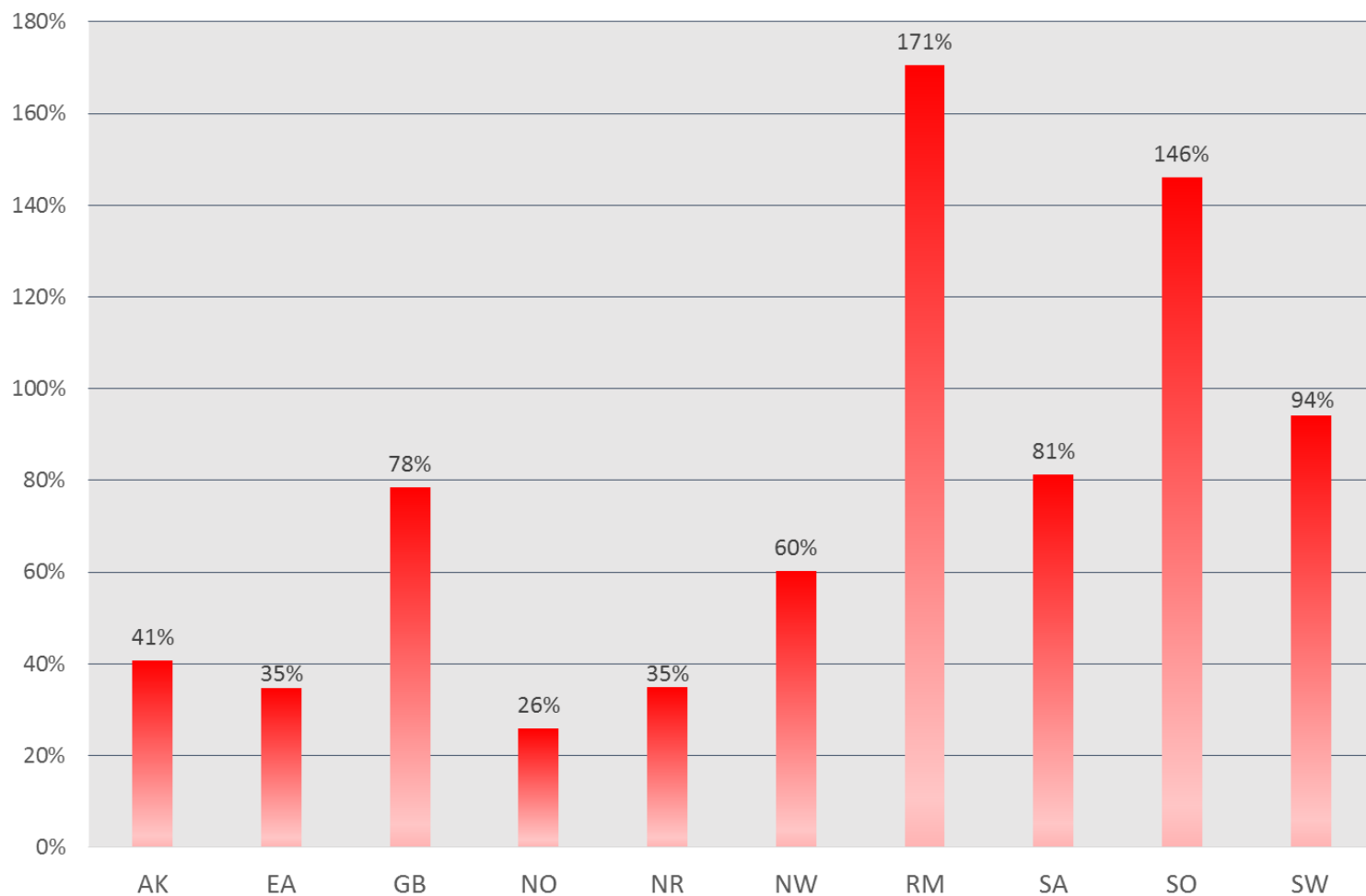


NIROPS requests June 1 - Oct 10 2012, 2015, 2016



Fire Activity by GACC

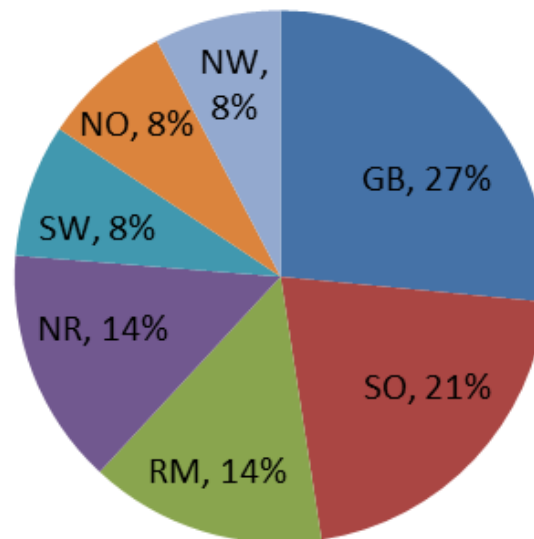
Acres Burned by GACC - 2016 (as of Oct 14)
(as a percent of each GACC's 10-year average)



2016 – Orders by GACC

● Compare to 2015

Percent of NIROPS orders by GACC



Busiest Night 2016 – August 30, 26 Fires

● N149Z (15 fires)

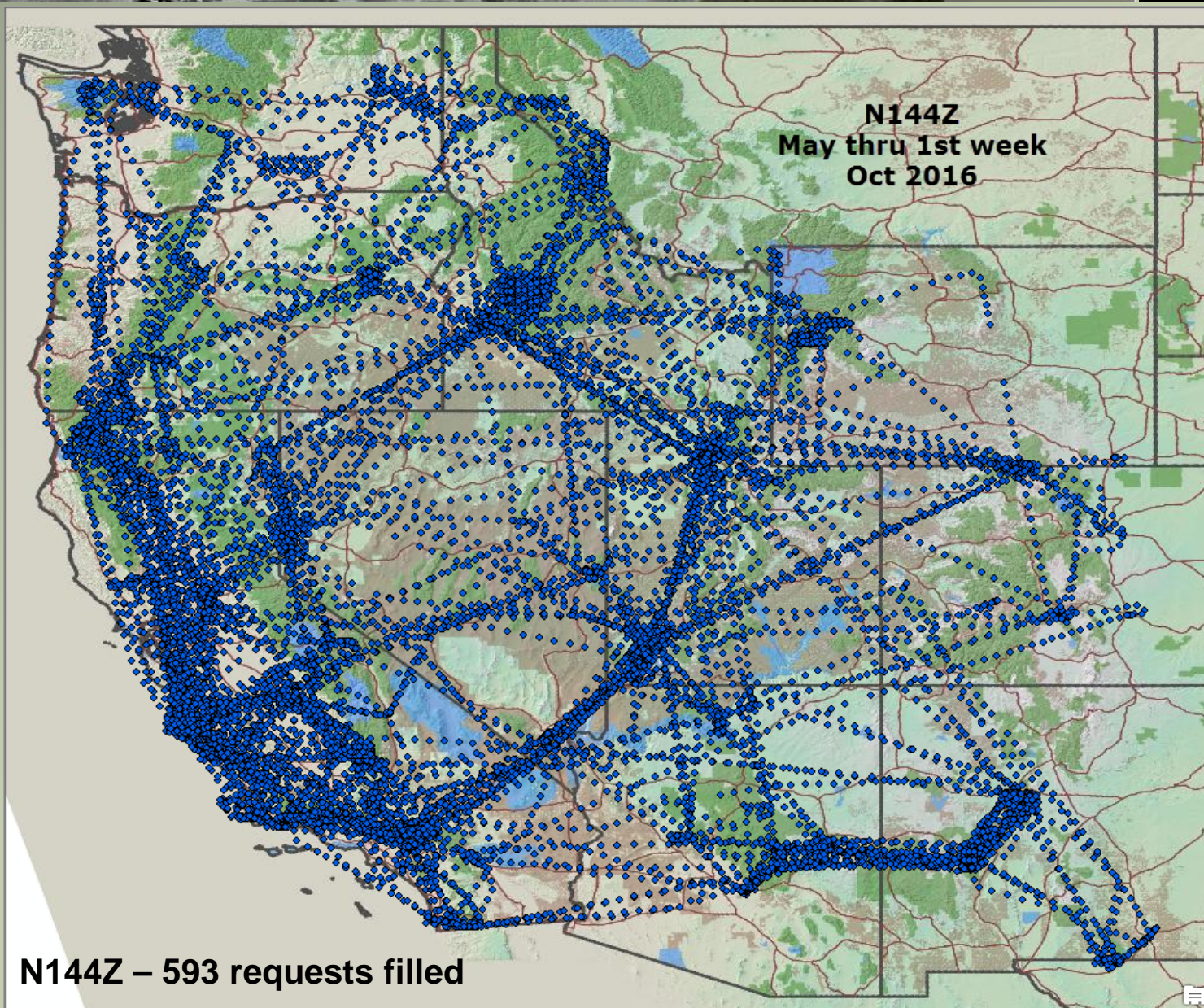
- Porcupine (UT)
- Box Canyon (UT)
- Peterson Hollow (UT)
- Willow Creek (UT)
- Berry (WY)
- Tatanka Complex (WY)
- Maple (WY)
- Pioneer (ID)
- Tie (ID)
- Elk Ridge (ID)
- Cedar (ID)
- Sixtytwo (ID)
- Moose (ID)
- Freeman (ID)
- Roaring (ID)

● N144Z (11 fires)

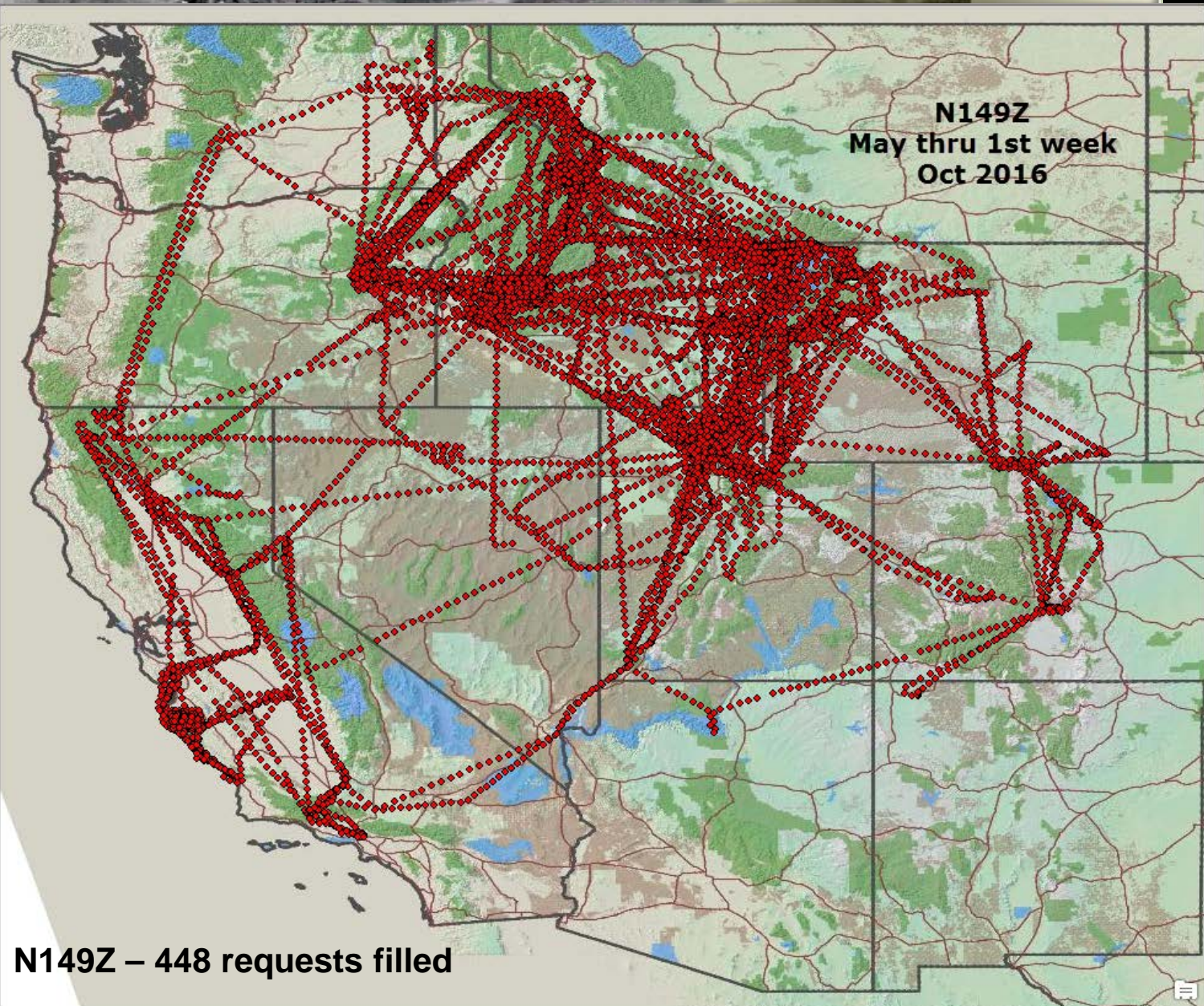
- Pony (CA)
- Tully (CA)
- Chimney (CA)
- Rey (CA)
- Cedar (CA)
- Gap (CA)
- Soberanes (CA)
- Bogart (CA)
- Rail (OR)
- John Doe (ID)
- Copper King (MT)

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

NATIONAL INFRARED OPERATIONS

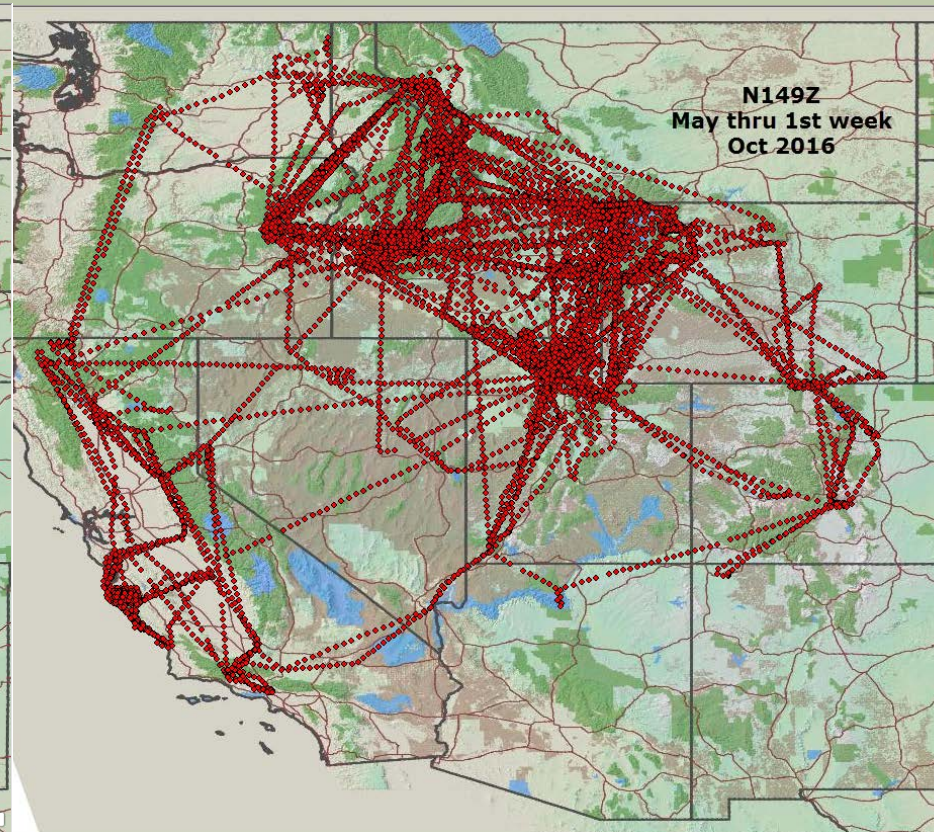


NATIONAL INFRARED OPERATIONS



N149Z – 448 requests filled

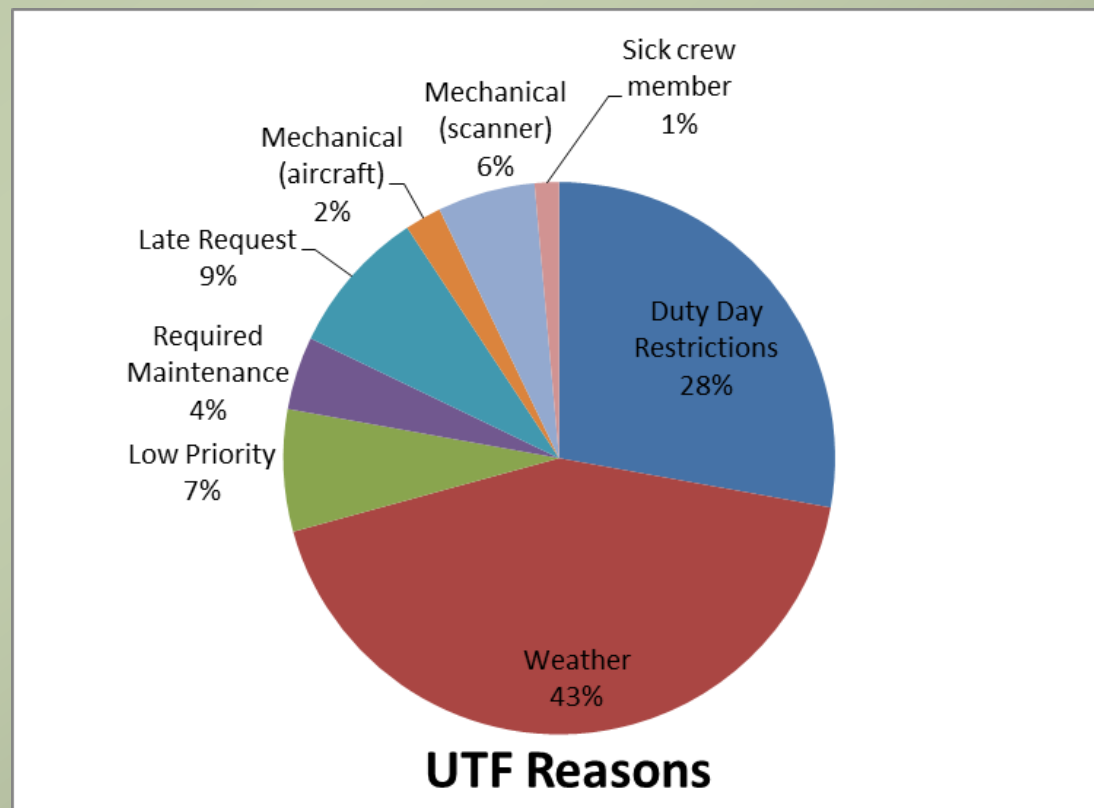
Aircraft Comparison



- 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)

- 140 total UTFs (NIROPS only)
- UTF rate drops from 12% to 6% when weather UTFs are not counted
- UTF for Aircraft 3 - 17% (10% non-weather)

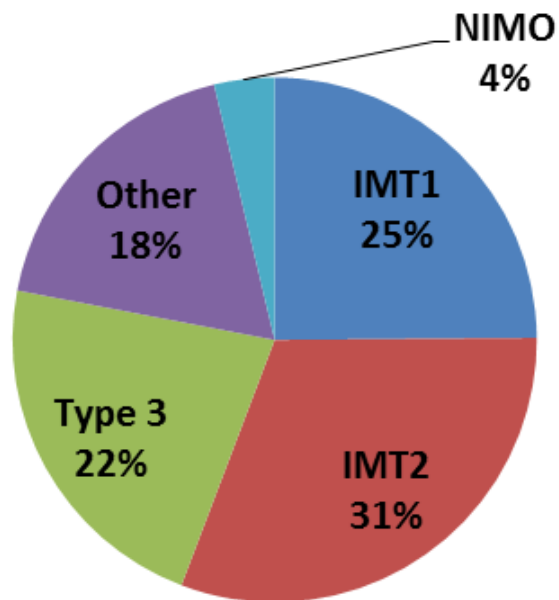


Who is Requesting?

- 50 orders did not fill out

Team Type	non-weather UTF rate
Other	14%
Type 3	7%
Type 2	5%
Type 1	4%
NIMO	29%

NIROPS Flight Requests



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

*39 flights by Aircraft 3



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

IRINs – A Closer Look

- 70 individual assignments
- 35 different IRINs
 - 18 had 2 or more assignments
- 2 Trainee assignments
 - Maximize efficiency
 - S443 will be held March 27-31, 2017
- 753 shifts*

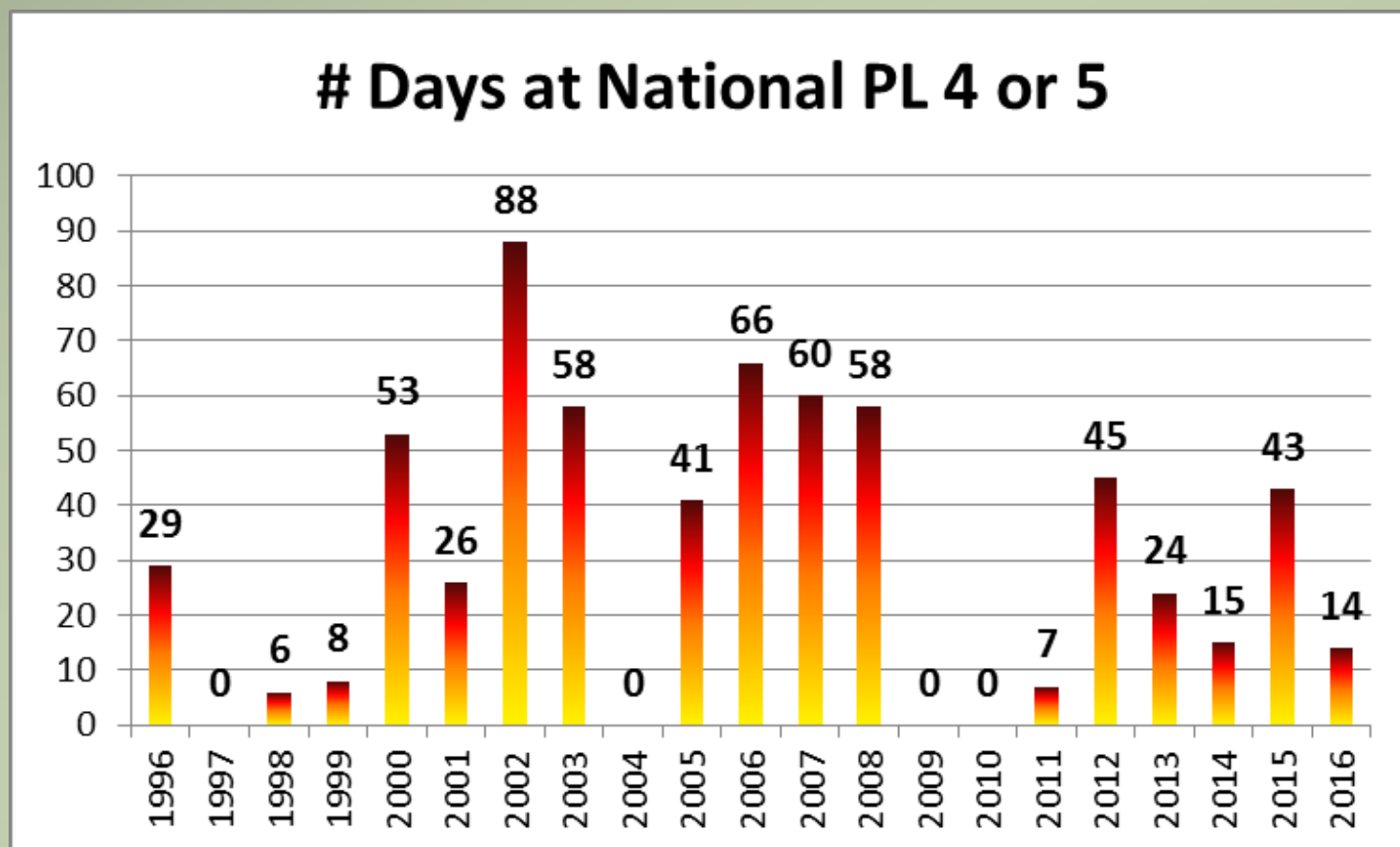
*Does not include Aircraft 3



Takeaways from 2016

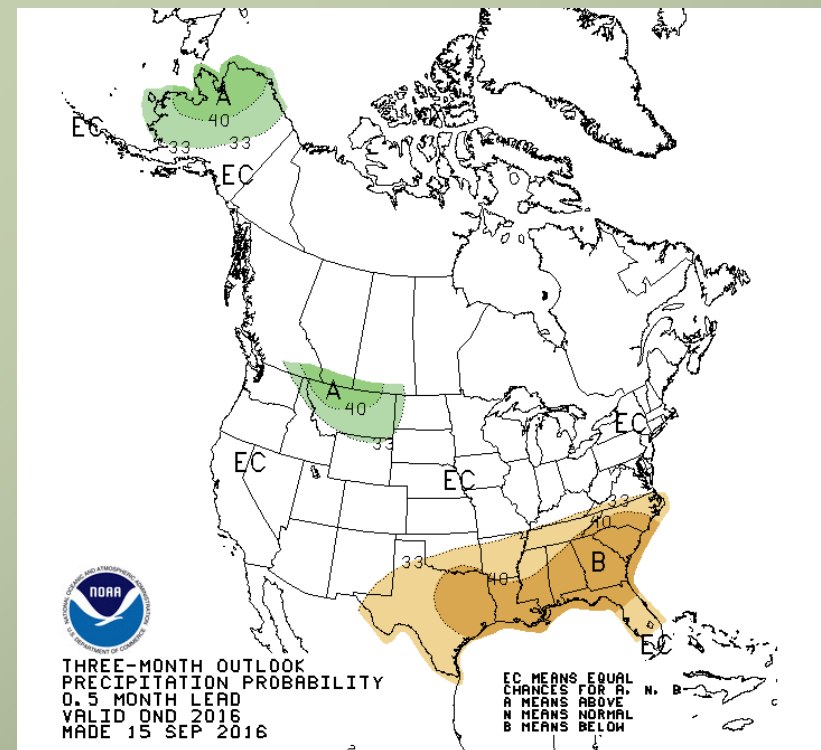
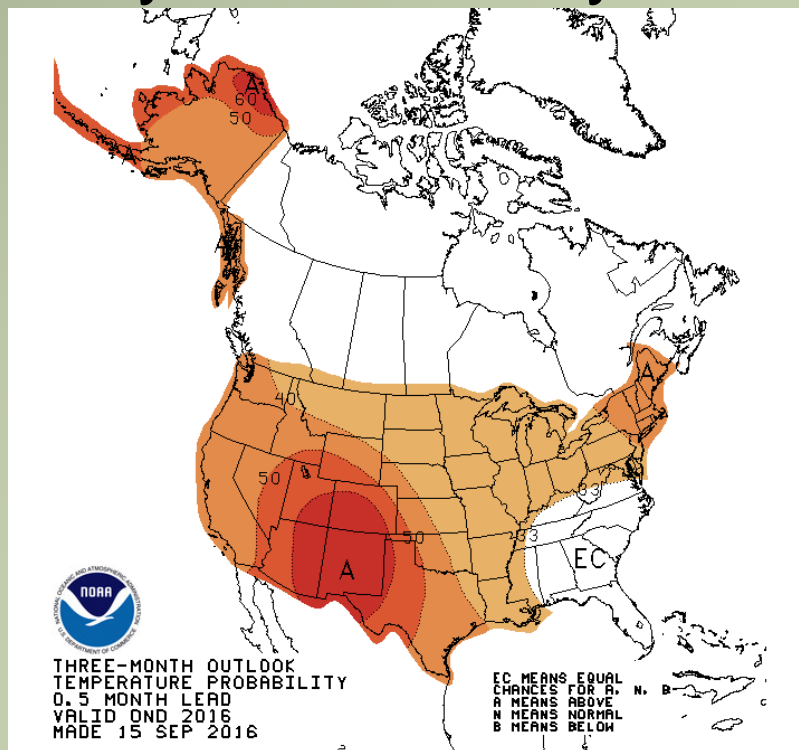
- Useful to have desk active at PL 3 (“strong 3”) depending on IR demands
- Full pilot staffing is great!
- When best to utilize other IR resources
 - Small fires, initial attack, early stages
 - Fire cooling down, mostly hot spot detection
- Other IR resources are complementary to NIROPS

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





Get ready for next year!



Photo: Initial Attack Fire Media