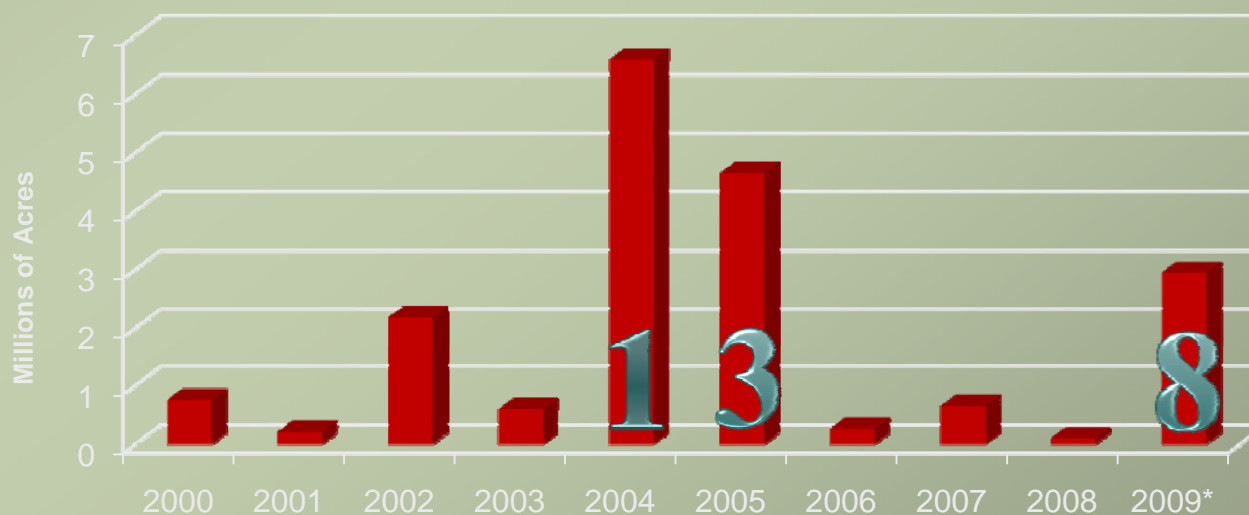
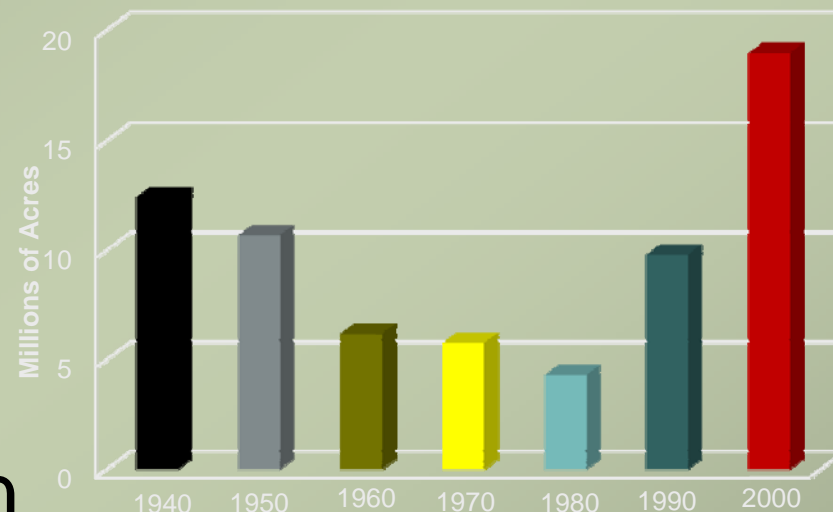




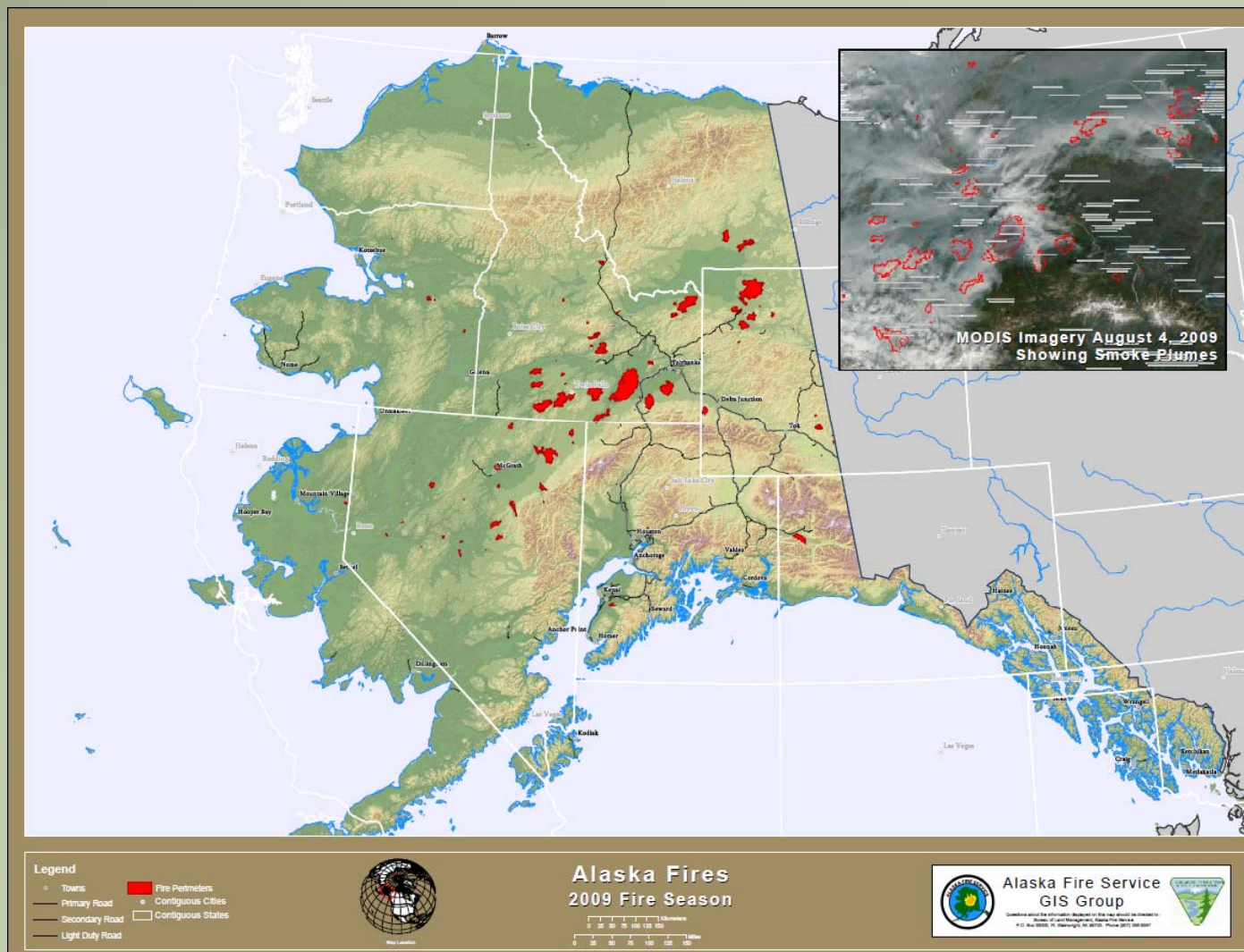
## Alaska NIROPS Closeout

- 2009 Fire Season
  - 522 fires
  - 2.95 million acres
- 8<sup>th</sup> largest fire season





## Map of Alaskan Fires





## IR Requests

- 284 requests
  - Filled
    - 162
  - UTF
    - 122



## ACFT Requests

- IR Aircraft was ordered on August 1st
- 2 Aircraft
  - N66GW – Filled 4 requests
  - N29M – Failed to perform





## Firehawk Requests

- Alaska received 154 perimeters
  - As many as 12 perimeters were created daily
  - Support came from 4 locations and time zones
  - The service provided greatly benefitted the Alaska fire season
  - There were numerous days that aircraft could not fly – firehawk and MODIS provided all the intell to the complex/fires. Many sites were smoked in for a week straight.



## MODIS and Other Data Sources

- Hot Spot detection using Mod 14 and evaluated JAXA Nakau algorithm
  - Readily available for Alaska fires from University of Alaska Fairbanks – Geographic Information Network of Alaska
  - Multiple passes per day
- AVHRR and DMSP
- Used quite frequently when flights were grounded



## UAS – Unmanned Aircraft System

### ● Deployed on the Crazy Mtn Complex

- Three days
- Hot spot detector
- Poker Flats was engaged with the mission

### ● Benefits

- Flew river corridor
- COT XML file

### ● Issues

- Not co-located with ICP
- Work/Rest ratio for pilot
- IR camera too sensitive – no time to test another camera

### ● Mishap – Manufacturer defect



# NATIONAL INFRARED OPERATIONS



Questions?

