



# USFS Aviation Simulation Program



# USFS Aviation Simulation Program

- Full scenario immersion, joining up to 11 aircraft real time over the same incident
- Complete visual and communication interaction of all crews through video display and intercom system
- Crews can see each other as they operate over fire, including retardant and water drops, aircraft maneuvers, and ground vehicle/people movement

# USFS Aviation Simulation Program

- 3 Multi Engine F/W Simulators
  - FAA IFR Cert in process (KingAir 90)
- 1 Single Engine F/W Simulator
- 3 Helicopter Simulators
- 4 Role Player Stations (Joystick Control)
- 1 Master Control Station





Currently 53  
computers to run 7  
simulator pods, 4 role  
player stations and  
master control  
station

# Control Room with Role Player Stations



# ATC 710 Single Engine Fixed Wing



# ATC 810 Multi-Engine Fixed Wing



# ATC 920M King Air 90





P-3 Orion

Grumman S2-T

C-130 (MAFFS)

King Air 90

Aero Commander

Air Tractor SEAT

T-6

DC-3 Smokejumper

Lockheed P-2V



# ATC 112HM Helicopter





Bell 212 tank/bucket/rappel

Bell 206 tank/bucket

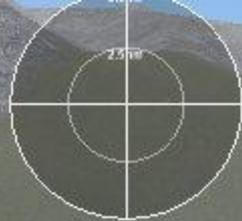
S-64 Skycrane

Chinook

Cobra Firewatch



GEAR



# Ground Vehicles

- Dozers
- Engines
- People (rappel, smokejumper, etc)
  
- Allows for individual placement and movement (dozers)

# 3 Terrain Environments

- Alpine
- Desert
- Heavy Timber

# Scenario/Terrain Manipulation

- Winds
- Fire Location/Size/Spread
- Urban Interface
- Communications
  - Headsets
  - Multi-channel

# Briefing area with real-time scenario observation and recording/playback capability



DVD scenario recording capability allows each student/instructor to have copy of their training simulation for future reference



# Future Development

- 2 additional SEAT simulators
- Additional FAA cert
- Ground Ops Immersion Simulation
- Continual graphics and display upgrades
- Most current avionics package (radios/GPS)

# Future Development



- Next gen graphics
- Added Terrain (Urban Interface)

- Ground Vehicle Training





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**QUESTIONS?**





# USFS Aviation Simulation Program



- For program or training information, contact:

Eric Shambora

916-640-1055

[eshambora@fs.fed.us](mailto:eshambora@fs.fed.us)

[www.fs.fed.us/r5/fire/mcclellan](http://www.fs.fed.us/r5/fire/mcclellan)