

Wildland Fire Resource Advisor N-9042

February 11-13, 2020

Hosted by
National Park Service
and
US Forest Service

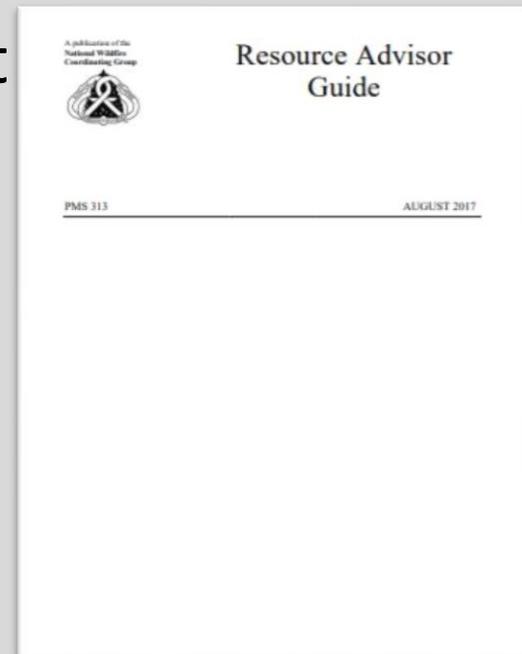


DAY 1, 1300



Role of the Resource Advisor*

- Identifies and evaluates potential impacts and benefits of fire and fire management actions on natural, cultural and Wilderness resources
- Communicates resource issues to the Incident Commander (IC) and/or Incident Management Team (IMT)
- Identifies needs for:
 - Suppression damage repair
 - Post-fire stabilization and rehabilitation
 - Long-term restoration



Who We Are...



Jun Kinoshita



Cedar Drake



Rich Schwab



Nelson Seifkin



Wylie Paxton



Missy
Forder



Your Photo Here....



CRITICAL CONCEPTS



Safety First!

2001 Federal wildland fire policy: **“Firefighter and public safety is the first priority in every fire management activity”**



Wildland Firefighters
Monument, National
Interagency Fire
Center, Boise, ID

Advisor Means Advisor

- READs are **not decision makers** about on-the-ground strategies and tactics...

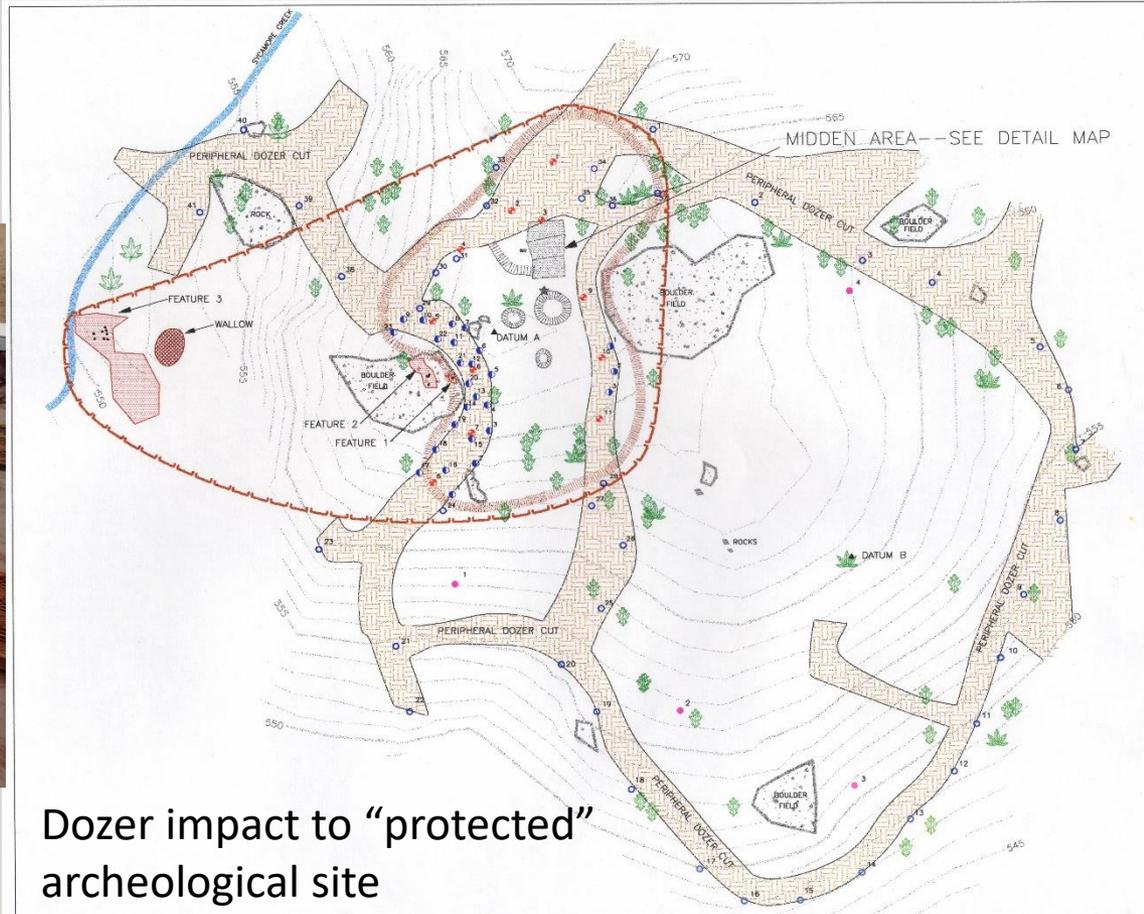


READ (left) advises
a Division
Supervisor about
values at risk

Minimize, Not Eliminate

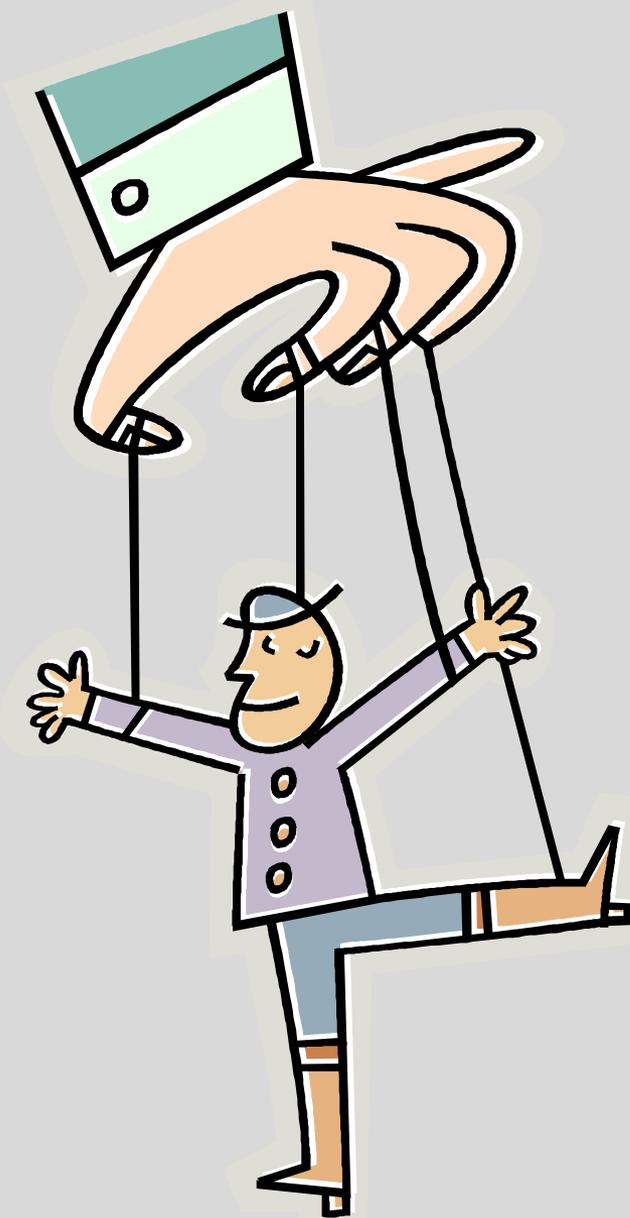
- READs input aimed at **minimizing impacts** to natural and cultural resources....%*&! happens!

Weed cleaning station in weedy field



Dozer impact to “protected” archeological site

"Social Engineering"





Why READS?

National Cohesive Wildland Fire Management Strategy



Home: National Cohesive Wildland Fire Management Strategy

Search

Forests & Rangelands Home

Wildland Fire

- Wildland Fire Leadership Council
- Cohesive Strategy
- Quadrennial Fire Review (QFR)
- Wildland Fire Information and Technology (WFIT)
- Success Stories
- Resources
- Related Links

Forest Management

- Forest Operations Catalog
- Stewardship Contracting Tools
- Woody Biomass Utilization

Rangeland Management

- Rangeland Fire Prevention, Management, and Restoration

National Cohesive Wildland Fire Management Strategy



The National Cohesive Wildland Fire Management Strategy

National Cohesive Strategy Topics

- The National Strategy
- Partner Perspectives
- National Science and Analysis Team
- Communication Resources
- Regional Strategy Committees
- Success Stories

Regional Strategy Committees

- Northeast
- Southeast
- West

Follow Us

Follow us on Twitter: @US_Wildfire

Follow the Cohesive Strategy on Facebook

Cohesive Strategy Success Stories

Visit Success Stories to see Cohesive Strategy projects and successes

Cohesive Strategy News

[Western Regional Strategy Committee eNewsletters](#)

Check out the latest and archived Western Regional Strategy Committee eNewsletters on [their website](#), as well other information related to the Western Region and the Cohesive Strategy.



[Cohesive Strategy News Archive](#)

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Last modified: Monday, 25-Jan-2016 13:24:50 CST

REVIEW AND UPDATE OF THE 1995 FEDERAL WILDLAND FIRE MANAGEMENT POLICY

JANUARY 2001

U.S. DEPARTMENT OF THE INTERIOR
Bureau of Land Management
National Park Service
U.S. Fish and Wildlife Service
Bureau of Indian Affairs
Geological Survey
Bureau of Reclamation

DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric
Administration/National
Weather Service

U.S. ENVIRONMENTAL
PROTECTION AGENCY

FEDERAL EMERGENCY
MANAGEMENT AGENCY

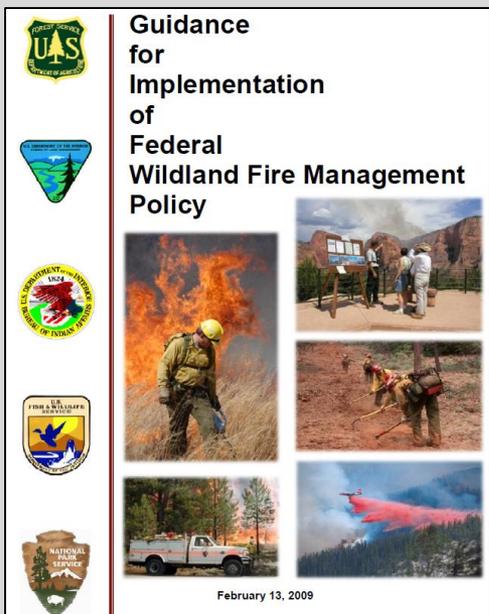
U.S. DEPARTMENT OF AGRICULTURE
U.S. Forest Service

DEPARTMENT OF ENERGY
DEPARTMENT OF DEFENSE

NATIONAL ASSOCIATION OF STATE
FORESTERS



Federal Wildland Fire Management Policy

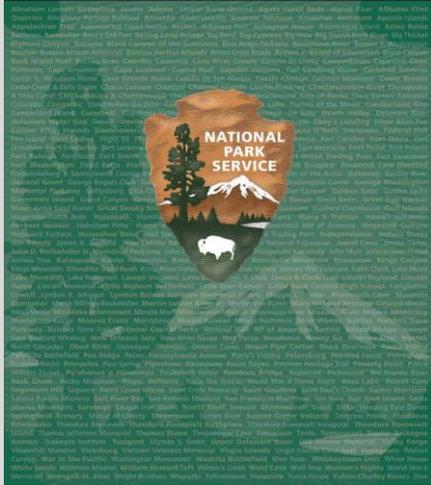


Word/Phrase	Occurrences
Ecological	8
Ecosystem	9
Land or Resource Management Plan	23
Natural and Cultural Resources	5
Resource Management Objectives	7

11. Suppression

Wildland fires are suppressed at minimum cost, considering firefighter and public safety, benefits, and values to be protected, consistent with resource objectives.

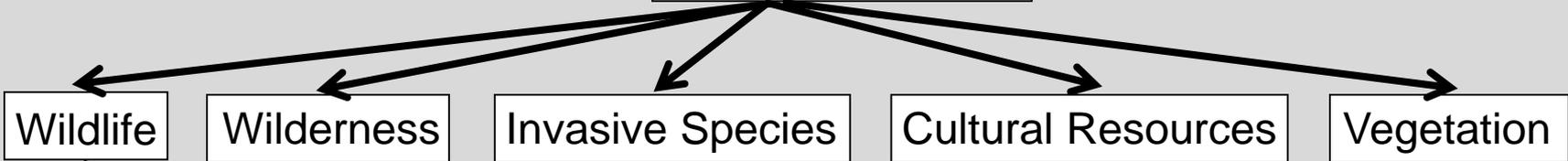
Management Policies 2006



General
Management
Plan/Resource
Stewardship Strategy



Specific
Management
Plans



Wildlife

Wilderness

Invasive Species

Cultural Resources

Vegetation

Fire
Management
Plan





United States Department of Agriculture

Draft Revised Land Management Plan for the Sierra National Forest

Fresno, Madera, and Mariposa Counties, California



Forest
Service

Pacific Southwest
Region

Sierra National
Forest

R5-MB-295

May
2016

Yosemite National Park

National Park Service
U.S. Department of the Interior



Final Yosemite Fire Management Plan

Environmental Impact Statement

March 2004

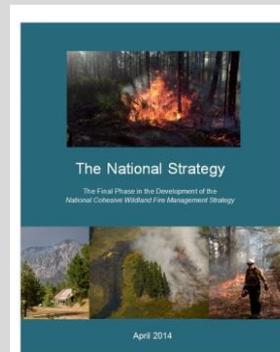


Deloid Fire, 2002
Dan Homer, NPS

National Cohesive Strategy

Cohesive Strategy vision for the next century:

*To safely and effectively extinguish fire, when needed;
use fire where allowable;
manage our natural resources;
and as a Nation, live with wildland fire.*



Cohesive Strategy goals:

- *Restore and maintain landscapes*
- *Fire-adapted communities*
- *Wildfire response*

Restore and Maintain Landscapes:

GOAL: *Landscapes across all jurisdictions are resilient to fire-related disturbances in accordance with management objectives.*

Outcome-based Performance Measure:

- Risk to landscapes is diminished.

National output-based metrics, in support of the national measure, will center on **risk to ecosystems at landscape scales.**

Origins of Wildland Fire Resource Advising

1972 Moccasin Mesa Fire: Mesa Verde National Park



Post-incident report: Park had not anticipated the potential damage to archeological resources from firefighting activities. Damage from fire suppression can be selectively controlled and in many cases avoided.

1977 La Mesa Fire: Bandelier National Monument

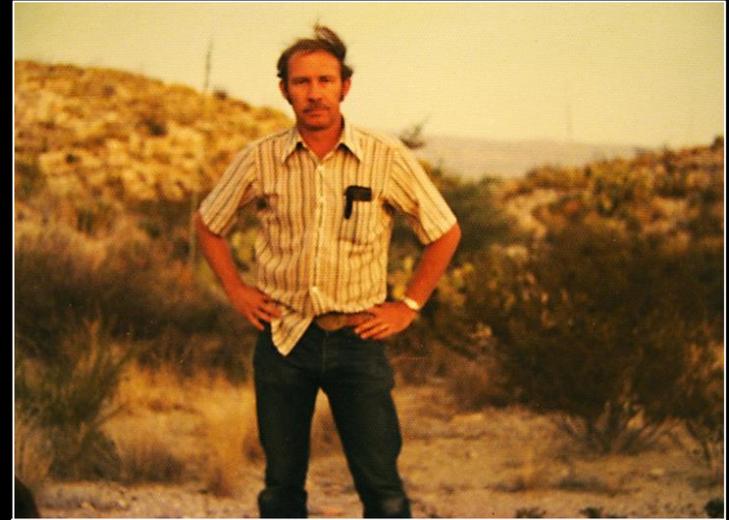


Los Alamos National Atomic Energy Laboratory



4,000 known cultural resource sites threatened

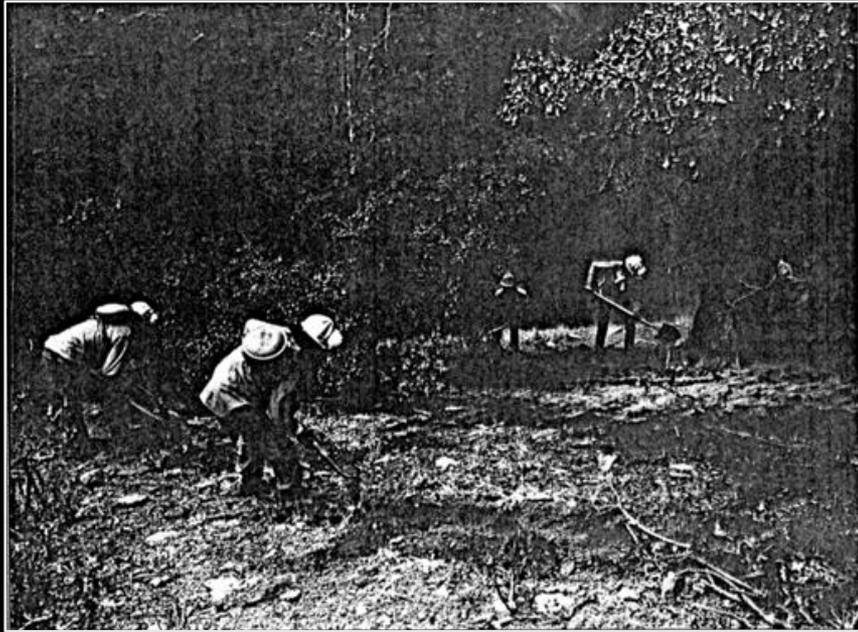
1977 La Mesa Fire: Bandelier National Monument



Dr. Milford Fletcher
NPS Regional Biologist

“Dammit, that’s enough! We need a bunch of archeologists on the fireline with the crews and equipment or else we’ll lose a helluva lot more sites.”
Milford Fletcher (per John Lissoway: Bandelier NM Resource Manager in 1972)

1977 La Mesa Fire: Bandelier National Monument



For the first time archeologists worked with fire crews and heavy equipment operators to guide them away from archeological sites during fireline construction.

La Mesa Study: An Investigation of Fire and Fire Suppression Impacts on Cultural Resources in Bandelier National Monument (NPS 1977)

Set forth recommendations for integrating archeologists into fire management in the future



THE 1977 LA MESA FIRE STUDY:

AN INVESTIGATION OF FIRE AND FIRE SUPPRESSION IMPACT
ON CULTURAL RESOURCES IN BANDELIER NATIONAL MONUMENT

Diane Traylor
Lyndi Hubbell
Nancy Wood
Barbara Fiedler

Branch of Cultural Resources Management
Division of Anthropology
National Park Service
Santa Fe, New Mexico

SOUTHWEST CULTURAL RESOURCES CENTER PROFESSIONAL PAPERS NUMBER 28

4. Under any circumstances in which cultural resources are threatened by fire (either wildfire or controlled burns), archeologists should be present to mitigate fire, fire suppression, or rehabilitation impact on those resources.

7. Each area or agency should see that interested archeologists have the opportunity to receive fire training and should form a well-trained core of archeologists from all available institutions and agencies to serve on a stand-by basis during the fire season. There are 27,000 lightning or man-caused fires annually in the western states, so the need is there (Sanderson 1976). In the event that qualified persons are unavailable for duty, archeologists from neighboring areas or trained park personnel should be present during all fire suppression and rehabilitation activities.

NPS Wildland Fire Resource Advisor Training

- First offered in 2002, with BLM
- Taught more than 30 times
- Over 2,500 participants from federal, tribal, state, local, and private land management agencies

Agenda, Course Organization & Objectives

- Scenario-based course structure...general information embedded within
- Relaxed, interactive presentation style & flexible schedule
- After this course you will:
 - have wildland fire READ or REAF qualifications
 - understand fire-related resource issues
 - understand incident management practices & the role of the READ or REAF
 - have the basis from which to develop or enhance the READ “kit” for your home unit
 - serve as a READ or REAF during the 2020 fire season

White Slides:
Grouse Fire scenario

Gray Slides:
“Teaching Moments”
outside of scenario

18 Watchouts Situations

1. Fire not scouted and sized up.
2. In country not seen in daylight.
3. Safety zones and escape routes not identified.
4. Unfamiliar with weather and local factors influencing fire behavior.
5. Uninformed on strategy, tactics, and hazards.
6. Instructions and assignments not clear.
7. No communication link with crewmembers/supervisors.
8. Constructing line without safe anchor point.
9. Building fireline downhill with fire below.
10. Attempting frontal assault on fire.
11. Unburned fuel between you and the fire.
12. Cannot see main fire, not in contact with anyone who can.
13. On a hillside where rolling material can ignite fuel below.
14. Weather is getting hotter and drier.
15. Wind increases and/or changes direction.
16. Getting frequent spot fires across line.
17. Terrain and fuels make escape to safety zones difficult.
18. Taking a nap near the fire line.



18.TAKING A NAP NEAR THE FIRELINE

READ “Watchouts”

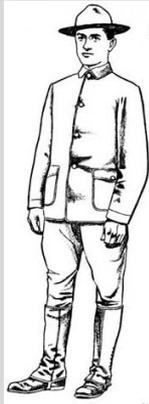
Scenario Visitors

The well-prepared Resource Advisor



The Skeptical Fire Manager

The Politician (aka, Agency Administrator)



The Well-Meaning Resource Manager

What is a Resource Advisor?

READs are designated as **Technical Specialists** by the National Wildfire Coordinating Group (NWCG) in the *Wildland Fire Qualification System Guide* (PMS 310-1)



A publication of the
National Wildfire
Coordinating Group



National Incident Management
System:
Wildland Fire Qualification
System Guide

PMS 310-1

October 2017

Page 21....

There are five position categories recognized by NWCG:

2. Incident Command System (ICS)
3. Wildland Fire
4. Incident Support
5. Associated Activities
6. **Technical Specialists**

What is a Resource Advisor?

PMS 310-1...page 22

Technical Specialists

Technical Specialists are personnel with specialized skills gained through educational degree programs or industry training of established standards. These personnel may perform the same duties during an incident that they perform in their regular job and may have supplemental training in order to use their specialized skills in the incident environment.

Although position codes have been assigned to Technical Specialist positions that can be used within the ICS, no minimum qualifications have been established by NWCG. Standards for Technical Specialist qualifications are Agency determined. Contact your agency OTC representative for further information.

Federal agencies have consolidated minimum standards and information for frequently used positions not included in this guide. A link to the *Federal Wildland Fire Qualifications Supplement* is located at https://www.nwcg.gov/sites/default/files/publications/federal-wildland-fire-qualifications-supplement_2017.pdf. For titles and position codes of identified Technical Specialists, see the IQCS website at <https://www.nifc.gov/IQCS/>.

What is a Resource Advisor?

- Subject matter expertise

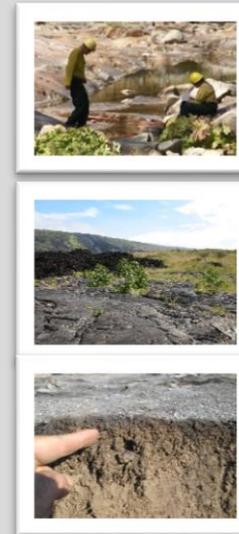
Cultural Resources



Natural Resources



Physical Resources



Wilderness



- Work environment: fireline, Incident Command Post (ICP)

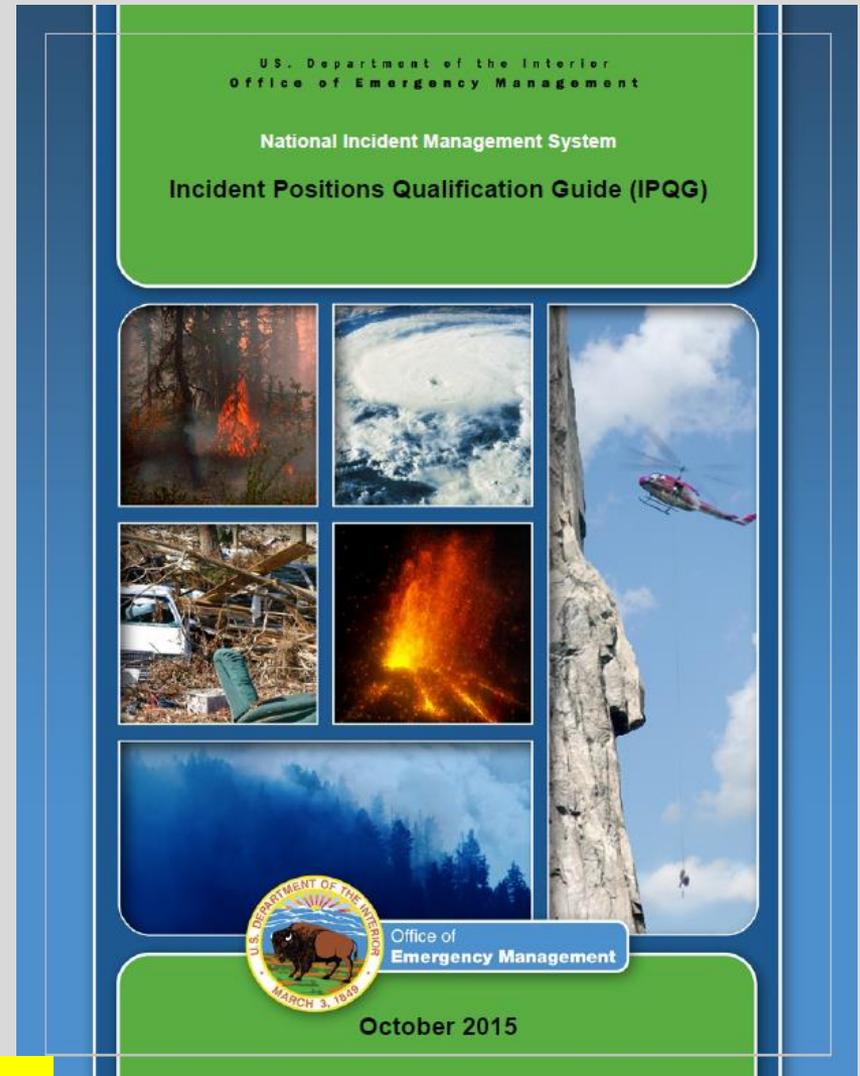


Wildland Fire.....All Hazards



FEDERAL WILDLAND FIRE QUALIFICATIONS SUPPLEMENT

January 2018



NOTE: Not an NWCG Document!



All-Hazards Incidents



2018 Hurricane Maria



2010 Deep Water Horizon Oil Spill



2010 Deep Water Horizon Oil Spill



2018 Lower Puna Eruption

All-Hazards (A-H) Incidents



Same general mechanism as wildland fire incidents:

- Obtain resource objectives from AA
- Source information from local resource specialists, management plans, guides
- Identify sensitive sites....communicate to Operations
- Develop resource protection measures (RPMs)...communicate to Operations
- Monitor, advise, problem-solve, document operational activities and impacts
- Develop, advise, problem-solve, and document repair treatments

What is a Resource Advisor?



FEDERAL WILDLAND FIRE QUALIFICATIONS SUPPLEMENT

January 2019



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RESOURCE ADVISOR (READ)

AGENCY ENDORSEMENTS:



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RESOURCE ADVISOR, FIRELINE (REAF)

AGENCY ENDORSEMENTS:



NEW!!!!

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ARCHAEOLOGIST (ARCH)

AGENCY ENDORSEMENTS:



Page 121

CULTURAL SPECIALIST (CULS)

AGENCY ENDORSEMENTS:



ARCHAEOLOGIST (ARCH)

AGENCY ENDORSEMENTS:



REQUIRED TRAINING:

National Incident Management System, An Introduction (IS-700)
Introduction to ICS (ICS-100)

REQUIRED EXPERIENCE:

Must have performed as a specialist on a unit in this function

PHYSICAL FITNESS LEVEL:

None

THESE POSITIONS MAINTAIN CURRENCY FOR ARCH:

None

ARCH MAINTAINS CURRENCY FOR THESE POSITIONS:

None

ADDITIONAL TRAINING WHICH SUPPORTS DEVELOPMENT OF KNOWLEDGE AND SKILLS:

None

AGENCY-SPECIFIC REQUIREMENTS
No additional requirements.

*If visits to the fireline/prescribed burn are required to perform assigned duties, all ARCHs must meet the requirements for non-escorted visits or be escorted by a qualified individual per the requirements contained in the [Interagency Standards for Fire and Fire Aviation Operations Guide](https://www.nifc.gov/policies/pol_ref_redbook.html) (https://www.nifc.gov/policies/pol_ref_redbook.html), Chapter 7.

Note that if you have been an archeologist for your job, you can be one on a fire. Does this mean you must meet the Secretary's standard?

Also, note the stipulation about visits to the fireline.

RESOURCE ADVISOR (READ)

AGENCY ENDORSEMENTS:



REQUIRED TRAINING:

National Incident Management System, An Introduction (IS-700)
 Introduction to ICS (ICS-100)
 Resource Advisor (N-9042)

REQUIRED EXPERIENCE:

None

PHYSICAL FITNESS LEVEL:

None

THESE POSITIONS MAINTAIN CURRENCY FOR READ:

Resource Advisor, Fireline (REAF)

READ MAINTAINS CURRENCY FOR THESE POSITIONS:

Resource Advisor, Fireline (REAF)

ADDITIONAL TRAINING WHICH SUPPORTS DEVELOPMENT OF KNOWLEDGE AND SKILLS:

None

AGENCY-SPECIFIC REQUIREMENTS	
BLM	DOI Learn course can satisfy the N-9042 course requirement
BIA	

RESOURCE ADVISOR, FIRELINE (REAF)

AGENCY ENDORSEMENTS:



REQUIRED TRAINING:

National Incident Management System, An Introduction (IS-700)
 Introduction to ICS (ICS-100)
 Basic ICS: ICS for Single Resources and Initial Action Incidents (ICS-200)
 Firefighter Training (S-130)
 Introduction to Wildland Fire Behavior (S-190)
 Human Factors in the Wildland Fire Service (L-180)
 Annual Fireline Safety Refresher (RT-130)
 Resource Advisor (N-9042)

REQUIRED EXPERIENCE:

None

PHYSICAL FITNESS LEVEL:

Moderate

THESE POSITIONS MAINTAIN CURRENCY FOR REAF:

Resource Advisor (READ)

REAF MAINTAINS CURRENCY FOR THESE POSITIONS:

Resource Advisor (READ)

ADDITIONAL TRAINING WHICH SUPPORTS DEVELOPMENT OF KNOWLEDGE AND SKILLS:

None

AGENCY-SPECIFIC REQUIREMENTS	

What is a Resource Advisor?

Interagency Standards for Fire and Fire Aviation Operations (Red Book), pg. 273

Universal Training Requirements

All personnel filling **NWCG recognized positions** on the fireline must have completed:

- S-130 Firefighter Training (including the required field exercises);
- S-190 Introduction to Wildland Fire Behavior;
- L-180 Human Factors on the Fireline;
- ICS-100 Introduction to ICS; and
- IS-700A NIMS: An Introduction (or current version).

NOT US

“Visitors” to the fireline [Red Book, Chapter 7]...

Non-Escorted Visits

Visitors must have an incident qualification with a minimum physical fitness level of “light” to visit the fireline unescorted.

- Must have adequate communications and radio training.
- Completed the following training:
 - Introduction to Fire Behavior (S-190).
 - Firefighter Training (S-130).
 - Annual Fireline Safety Refresher Training, including fire shelter training.
- Deviation from these requirements must be approved by the IC or Burn Boss.

Escorted Visits

All visitors lacking the above training and physical requirements must be escorted while on the fireline.

- Visitors must receive training in the proper use of Fireline PPE.
- Requirement for hand tool and water to be determined by escort.
- Visitors must be able to walk in mountainous terrain and be in good physical condition with no known limiting conditions.
- Escorts must be minimally qualified as Single Resource Boss.
- Deviation from these requirements must be approved by the IC or Burn Boss.

What is a Resource Advisor?

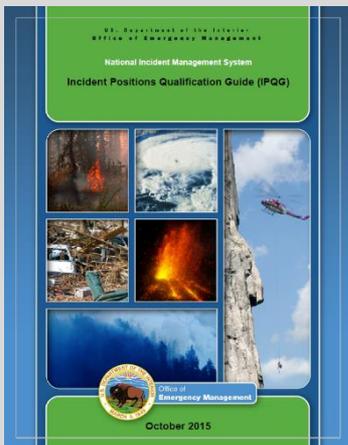
The Wildcards...DOI All-Hazard, USFS THSP

- DOI All-Hazard

- Lots of resource-specific position codes recognized...Anthropologist (ANTH), Historical Landscape Architect (LAAR), Biologist (BIOL), Botanist (BOTA), Geologist (GEOL), etc.
- Theoretically available for use on wildland fires

Individuals who are qualified for many of the positions in the IPQG may also be qualified to respond to a wildland fire in the position(s) they are qualified. Wildland fire qualification requirements are found in the Wildland Fire Qualification System Guide (PMS 310-1⁸). All personnel filling NWCG recognized positions on the fireline must meet the Universal Training Requirements found in the Interagency Standards for Fire and Fire Aviation Operations⁹.

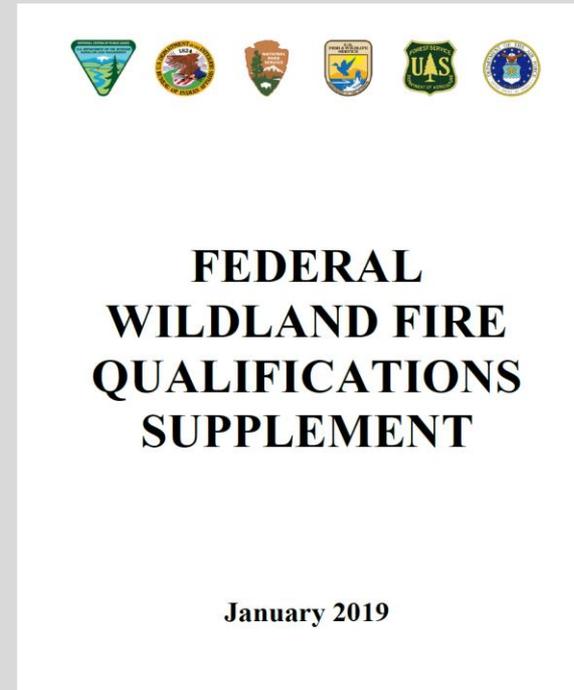
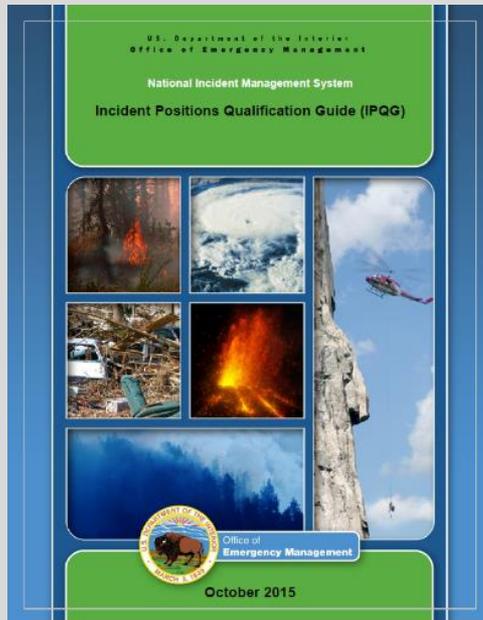
ENDORSEMENTS BY INCIDENT KIND OR DISCIPLINE
Oil or Hazardous Materials Releases (see Annex F)
Wildland Fire (see Annex F)



What is a Resource Advisor?

The Wildcards...DOI All-Hazard, USFS THSP

- DOI All-Hazard



REAC-Resource Advisor Coordinator

=

READ-Resource Advisor

READ-Resource Advisor

=

REAF-Resource Advisor, Fireline

What is a Resource Advisor?

The Wildcards...DOI All-Hazard, USFS THSP

- USFS THSP

– Technical Specialist (THSP) position liberally utilized by the USFS...not supported by guides

Incident Qualifications and Certification System (IQCS)					
Active IQCS Positions					
			Total Active Positions:	419	
			List Updated:	Jan-19-2017	
Qualification		Source Document			
Position Code	Position Description	310-1 Wildland Fire Qualification System Guide	Forest Service Fire and Aviation Qualifications Guide (FSFAQG)	Federal Wildland Fire Qualifications Supplement	DOI Incident Position Qualification Guide (IPQG)
THSP	Technical Specialist				* NWCG 310-1 Positions Recognized by DOI



READ-Resource Advisor

REAF-Resource Advisor, Fireline

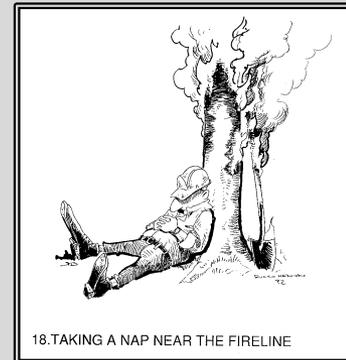
ARCH-Archeologist

CULS-Cultural Specialist

THSP-Technical Specialist

READs & REAFs

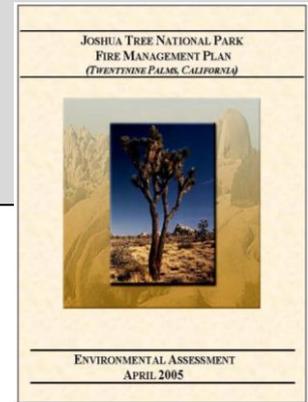
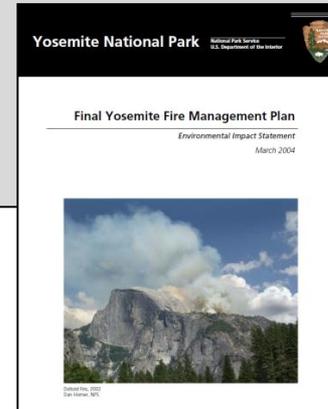
- READs interact directly with the IMT at the ICP
- REAFs interact directly with firefighting personnel on the fireline





Agency Administrator/Line Officer

- Park Superintendent, Forest Supervisor, Refuge Manager, Field Manager, etc.
- Establishes through park management documents:
 - appropriate utilization of READs and AREP
 - issues to be considered
 - proper protocols before, during and after incidents



FIRE MANAGEMENT PLAN

Shenandoah National Park

March 2006



Resource Advisor

vs.

Agency Representative (AREP)

- The AREP represents the political, social, environmental and economic issues of the Agency Administrator to the IC or IMT
- Often the AREAP is a Fire Management Officer (FMO), District Ranger, Chief Ranger, etc.
- On small or simple incidents, READ and AREP positions may be combined

Cultural Specialist (CULS)

- Often representative of local tribes
- Identification, documentation, & repair of impacted cultural sites
 - e.g. Chumash Engine/CULS crew
- Works with READs for the AREP



How do I become a Resource Advisor?

1. Take this course (or an equivalent) and other required training(s)
2. Possess or develop the appropriate skills and knowledge
3. Achieve the proper physical fitness level through the Work Capacity Test (WCT)
4. Have your Fire Management Officer (FMO) or equivalent include READ or REAF & related qualifications on your Incident Qualifications Card (“Red Card”)

How do I become a Resource Advisor? Training

RESOURCE ADVISOR (READ)

AGENCY ENDORSEMENTS:



REQUIRED TRAINING:

National Incident Management System, An Introduction (IS-700)
Introduction to ICS (ICS-100)
Resource Advisor (N-9042)

REQUIRED EXPERIENCE:

None

PHYSICAL FITNESS LEVEL:

None

THESE POSITIONS MAINTAIN CURRENCY FOR READ:

None

READ MAINTAINS CURRENCY FOR THESE POSITIONS:

None

ADDITIONAL TRAINING WHICH SUPPORTS DEVELOPMENT OF KNOWLEDGE AND SKILLS:

None

AGENCY-SPECIFIC REQUIREMENTS

BLM BIA	DOI Learn course can satisfy the N-9042 course requirement
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RESOURCE ADVISOR, FIRELINE (REAF)

AGENCY ENDORSEMENTS:



REQUIRED TRAINING:

National Incident Management System, An Introduction (IS-700)
Introduction to ICS (ICS-100)
Basic ICS: ICS for Single Resources and Initial Action Incidents (ICS-200)
Firefighter Training (S-130)
Introduction to Wildland Fire Behavior (S-190)
Human Factors in the Wildland Fire Service (L-180)
Annual Fireline Safety Refresher (RT-130)
Resource Advisor (N-9042)

REQUIRED EXPERIENCE:

None

PHYSICAL FITNESS LEVEL:

Moderate

THESE POSITIONS MAINTAIN CURRENCY FOR REAF:

None

REAF MAINTAINS CURRENCY FOR THESE POSITIONS:

None

ADDITIONAL TRAINING WHICH SUPPORTS DEVELOPMENT OF KNOWLEDGE AND SKILLS:

None

AGENCY-SPECIFIC REQUIREMENTS

BLM BIA	DOI Learn course can satisfy the N-9042 course requirement
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310-1

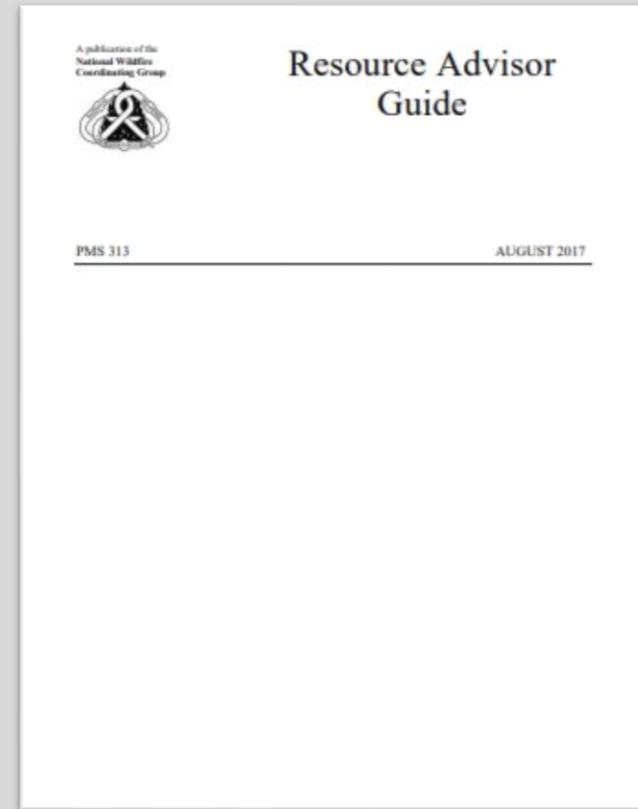
Supplement, pg. 120-121

How do I become a Resource Advisor?

Knowledge and Skills

General Roles and Responsibilities

- Ensure safety
- Be prepared
- Gather information
- Communicate
- Document
- Positive feedback



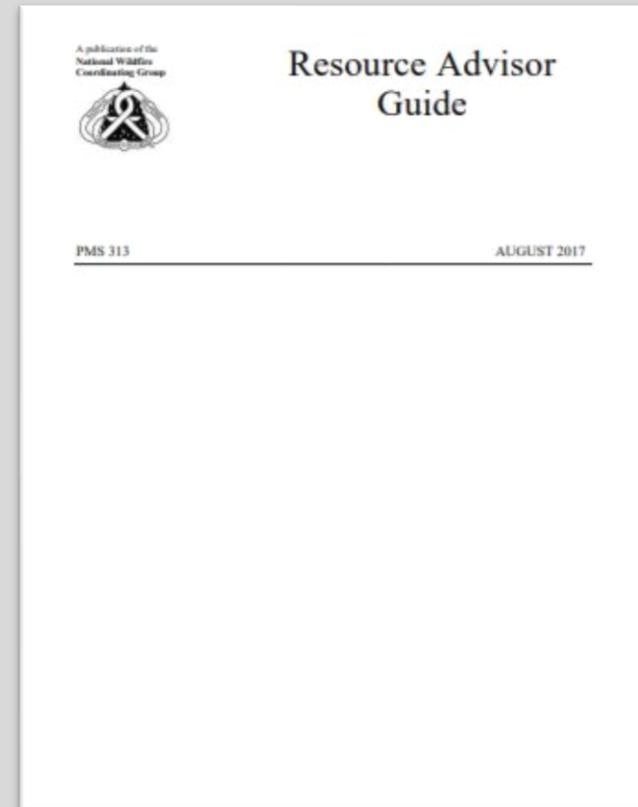
Pages 10-15

How do I become a Resource Advisor?

Knowledge and Skills

READ

- Leadership and/or supervision to coordinate a team of Resource Advisors
- Primary point of contact to the Incident Management Team (IMT)
- Knowledge of resource management to identify the appropriate subject matter expertise to address specific needs.



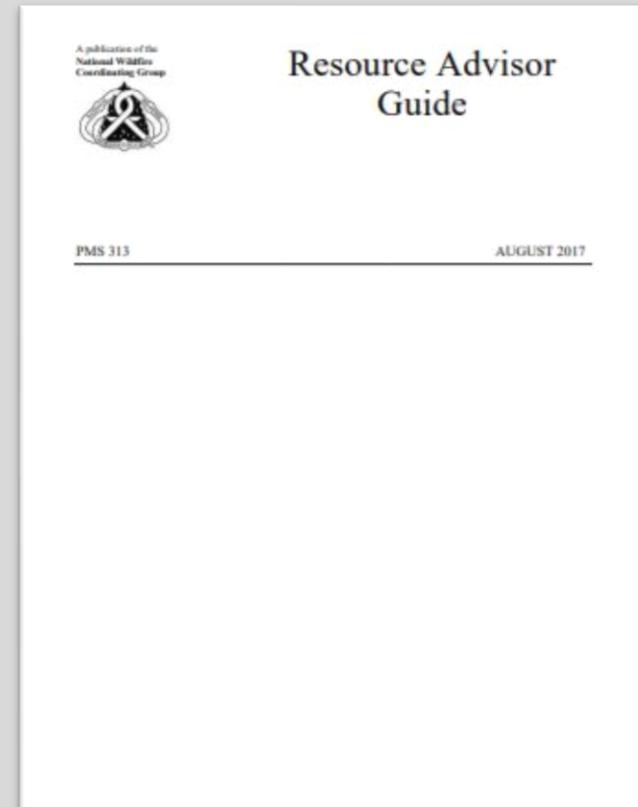
Pages 15-16

How do I become a Resource Advisor?

Knowledge and Skills

REAF

- Understand basic wildland fire management principles
- Apply “day job” and general resource management knowledge on fireline...threats, mitigations, repairs
- Effectively communicate in dynamic/fluid situations
- Exhibit adequate fitness for the conditions at hand



Pages 19-22

How do I become a Resource Advisor? Fitness

RESOURCE ADVISOR (READ)

AGENCY ENDORSEMENTS:



REQUIRED TRAINING:

National Incident Management System, An Introduction (IS-700)
Introduction to ICS (ICS-100)
Resource Advisor (N-9042)

REQUIRED EXPERIENCE:

None

PHYSICAL FITNESS LEVEL:

None

THESE POSITIONS MAINTAIN CURRENCY FOR READ:

None

READ MAINTAINS CURRENCY FOR THESE POSITIONS:

None

ADDITIONAL TRAINING WHICH SUPPORTS DEVELOPMENT OF KNOWLEDGE AND SKILLS:

None

AGENCY-SPECIFIC REQUIREMENTS

BLM BIA	DOI Learn course can satisfy the N-9042 course requirement
------------	--

RESOURCE ADVISOR, FIRELINE (REAF)

AGENCY ENDORSEMENTS:



REQUIRED TRAINING:

National Incident Management System, An Introduction (IS-700)
Introduction to ICS (ICS-100)
Basic ICS: ICS for Single Resources and Initial Action Incidents (ICS-200)
Firefighter Training (S-130)
Introduction to Wildland Fire Behavior (S-190)
Human Factors in the Wildland Fire Service (L-180)
Annual Fireline Safety Refresher (RT-130)
Resource Advisor (N-9042)

REQUIRED EXPERIENCE:

None

PHYSICAL FITNESS LEVEL:

Moderate

THESE POSITIONS MAINTAIN CURRENCY FOR REAF:

None

REAF MAINTAINS CURRENCY FOR THESE POSITIONS:

None

ADDITIONAL TRAINING WHICH SUPPORTS DEVELOPMENT OF KNOWLEDGE AND SKILLS:

None

AGENCY-SPECIFIC REQUIREMENTS

BLM BIA	DOI Learn course can satisfy the N-9042 course requirement
------------	--

How do I become a READ?

Fitness

310-1

Arduous - Duties involve field work requiring physical performance with above average endurance and superior conditioning. These duties may include an occasional demand for extraordinarily strenuous activities in emergencies under adverse environmental conditions and over extended periods of time. Requirements include running, walking, climbing, jumping, twisting, bending, and lifting more than 50 pounds; the pace of the work typically is set by the emergency conditions.

None. Duties are normally performed in a controlled environment, such as an incident command post, base or camp. For any position identified in the IPQG with a fitness level of "None" or any technical specialist positions who have the need to be on the incident, the required fitness level shall be "Light."

required for moderately strenuous activities in emergencies over long periods of time. Individuals usually set their own work pace.

Light - Duties mainly involve office type work with occasional field activity characterized by light physical exertion requiring basic good health. Activities may include climbing stairs, standing, operating a vehicle, and long hours of work, as well as some bending, stooping, or light lifting. Individuals can usually govern the extent and pace of their physical activity.

How do I become a READ?

Fitness

<u>Work Category</u>	<u>Test</u>	<u>Distance</u>	<u>Weight</u>	<u>Time</u>
Arduous	Pack	3 miles	45 lbs.	45 min.
Moderate	Field	2 miles	25 lbs.	30 min.
Light	Walk	1 mile	None	16 min.



How do I become a Resource Advisor?

FMO Designation

All Technical Specialists positions are **FMO designations**...no formal task books.

INCIDENT QUALIFICATION CARD			
Printed 06/08/18	Name Kinoshita, Jun	Employee ID 00001018400	
RT-130 Exp 06/30/19	MT-R01 Northern Regional Office (R-1)	Fitness Arduous Expires 06/29/19	
QUALIFIED POSITIONS			
Status	Position	Description	Curr Exp
Q	ARCH	Archaeologist	11/08/22
Q	READ	Resource Advisor	08/18/22
Q	REAF	Resource Advisor, Fireline	08/18/22
Q	HECM	Helicopter Crewmember	07/08/20
Q	FFT1	Firefighter Type 1	11/03/22
Fold Card Here			
Q	ICT5	Incident Commander Type 5	11/03/22
Q	RXB3	Prescribed Fire Burn Boss T3	05/02/23
Q	SMKJ	Smokejumper	06/08/21
T	CRWB	Crew Boss, Single Resource	10/06/18
T	FAL1	Advanced Faller	03/03/19
Certifying Official		Title	Date
		Rep Director R1-FAB	6/8/18

A Publication of the
**National Wildfire
Coordinating Group**

Sponsored by
United States
Department of Agriculture

United States
Department of the Interior

National Association of
State Foresters



**NATIONAL INTERAGENCY
INCIDENT MANAGEMENT SYSTEM**

TASK BOOK FOR THE POSITION OF

DIVISION/GROUP SUPERVISOR (DIVS)

**(POSITION PERFORMANCE ON A WILDLAND
OR PRESCRIBED FIRE ASSIGNMENT REQUIRED)**

PMS 311-09
NFES 2310

June 2004

TASK BOOK ASSIGNED TO:

INDIVIDUAL'S NAME, DUTY STATION, AND PHONE NUMBER

TASK BOOK INITIATED BY:

OFFICIAL'S NAME, TITLE, DUTY STATION, AND PHONE NUMBER

LOCATION AND DATE THAT TASK BOOK WAS INITIATED

The material contained in this book accurately defines the performance expected of the position for which it was developed. This task book is approved for use as a position qualification document in accordance with the instructions contained herein.

How do I become a Resource Advisor?

FMO Designation

RESOURCE ADVISOR (READ)

AGENCY ENDORSEMENTS:



REQUIRED TRAINING:

National Incident Management System, An Introduction (IS-700)
 Introduction to ICS (ICS-100)
 Resource Advisor (N-9042)

REQUIRED EXPERIENCE:

None

PHYSICAL FITNESS LEVEL:

None

THESE POSITIONS MAINTAIN CURRENCY FOR READ:

None

READ MAINTAINS CURRENCY FOR THESE POSITIONS:

None

ADDITIONAL TRAINING WHICH SUPPORTS DEVELOPMENT OF KNOWLEDGE AND SKILLS:

None

AGENCY-SPECIFIC REQUIREMENTS

BLM BIA	DOI Learn course can satisfy the N-9042 course requirement
------------	--

RESOURCE ADVISOR, FIRELINE (REAF)

AGENCY ENDORSEMENTS:



REQUIRED TRAINING:

National Incident Management System, An Introduction (IS-700)
 Introduction to ICS (ICS-100)
 Basic ICS: ICS for Single Resources and Initial Action Incidents (ICS-200)
 Firefighter Training (S-130)
 Introduction to Wildland Fire Behavior (S-190)
 Human Factors in the Wildland Fire Service (L-180)
 Annual Fireline Safety Refresher (RT-130)
 Resource Advisor (N-9042)

REQUIRED EXPERIENCE:

None

PHYSICAL FITNESS LEVEL:

Moderate

THESE POSITIONS MAINTAIN CURRENCY FOR REAF:

None

REAF MAINTAINS CURRENCY FOR THESE POSITIONS:

None

ADDITIONAL TRAINING WHICH SUPPORTS DEVELOPMENT OF KNOWLEDGE AND SKILLS:

None

AGENCY-SPECIFIC REQUIREMENTS

BLM BIA	DOI Learn course can satisfy the N-9042 course requirement
------------	--

QUALIFICATION REQUIREMENTS	READ	REAF	ARCH
Physical Fitness Minimum Standard	NONE	MODERATE	NONE
Red Card required (S-130, S-190, L-180)	NO but recommended	YES	NO but recommended
Annual fire refresher (RT-130) required?	NO but recommended	YES	NO but recommended
Resource Advisor Course (N-9042) required?	YES	YES	NO
ICS-100 required?	YES	YES	YES
IS-700 required?	YES	YES	YES
ICS-200 required?	NO	YES	NO
"THSP" on Red Card required?	NO but recommended	NO but recommended	NO but recommended
Additional required experience?	NONE	NONE	Must have performed as a specialist on a unit in this function.

Non-escorted visitors to the fireline must at a minimum:

- be red-carded
- have completed an annual fire refresher
- possess a minimal physical fitness standard of "light"
- have adequate communications and radio training

Escorted visitors to the fireline must at a minimum:

- be equipped and trained in the use of fireline PPE
- be equipped with a hand tool, water, and be able to walk in mountainous terrain with no limiting conditions
- be accompanied by firefighter minimally qualified as a single resource boss

Any deviation from these requirements must be approved by the incident commander or burn boss.

The incident commander or burn boss may choose to increase the stringency of these requirements.

How do I become a Resource Advisor? Am I a READ? REAF? Both? Neither?

“Fred”



Principle Work Area:

Fireline



REAF

“Roscoe”



Principle Work Area:

ICP



READ

“Otis”



Principle Work Area:

Fireline & ICP



REAF & READ

How do I become a Resource Advisor?

Concluding Thoughts...

- Think very carefully before adding **READ** to your Red Card

- Take “Trainee” assignments and/or work with experienced READs/REAFs



READ Trainee Positions

2011 Dollar Lake Fire: Mt. Hood National Forest



Building the Perfect REAF...

The skeptical Fire Manager...

- Personally liable for your safety
- Lots of things to think and worry about
- Doesn't like "loose ends"



Building the Perfect REAF...

Red Book,
Pg. 273

Non-Escorted Visits

Visitors must have an incident qualification with a **minimum physical fitness level of “light” to visit the fireline unescorted.**

- Must have adequate communications and radio training.
- Completed the following training:
 - **Introduction to Fire Behavior (S-190).**
 - **Firefighter Training (S-130).**
 - **Annual Fireline Safety Refresher Training,** including fire shelter training.
- Deviation from these requirements must be approved by the IC or Burn Boss.

RESOURCE ADVISOR, FIRELINE (REAF)

REQUIRED TRAINING:

National Incident Management System, An Introduction (IS-700)
Introduction to ICS (ICS-100)
Basic ICS: ICS for Single Resources and Initial Action Incidents (ICS-200)
Firefighter Training (S-130)
Introduction to Wildland Fire Behavior (S-190)
Human Factors in the Wildland Fire Service (L-180)
Annual Fireline Safety Refresher (RT-130)
Resource Advisor (N-9042)

PHYSICAL FITNESS LEVEL:
Moderate

Building the Perfect REAF...

On a typical fireline...

Arduous:

Incident Commander, Types 3-5
Division Supervisor
Task Force & Strike Team Leaders
Crew Boss
Firefighters, Types 1-2
Helicopter Crewmember
EMT, Fireline

Moderate:

Line Safety Officer
Field Observer
Fire Behavior Analyst
Fire Effects Monitor
REAF



Building the perfect REAF...

The path (of least resistance) to respectability...

Firefighter Type 2 (FFT2)

Firefighter Type 2 (FFT2) (Position Category: Wildland Fire)

REQUIRED TRAINING

Basic Firefighter Training:

Introduction to ICS (ICS-100)

Human Factors in the Wildland Fire Service (L-180)

Firefighter Training (S-130)

Introduction to Wildland Fire Behavior (S-190)

NIMS: An Introduction (IS-700)

Annual Fireline Safety Refresher (RT-130)*

REQUIRED EXPERIENCE

None

PHYSICAL FITNESS LEVEL

Arduous

A publication of the
National Wildfire
Coordinating Group



PMS 310-1

**National Incident Management System:
Wildland Fire Qualification System Guide**

October 2016

pg. 73

Note: For the Firefighter Type 2 (FFT2) position, satisfactory completion of the required training meets the position qualification requirements.

Building the Perfect REAF...

Build your skills, qualifications and rep...



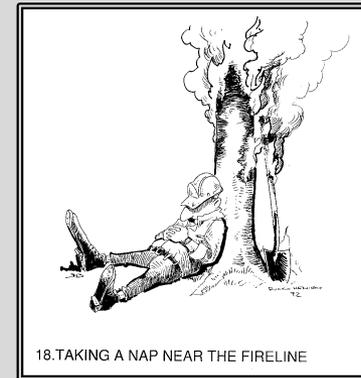
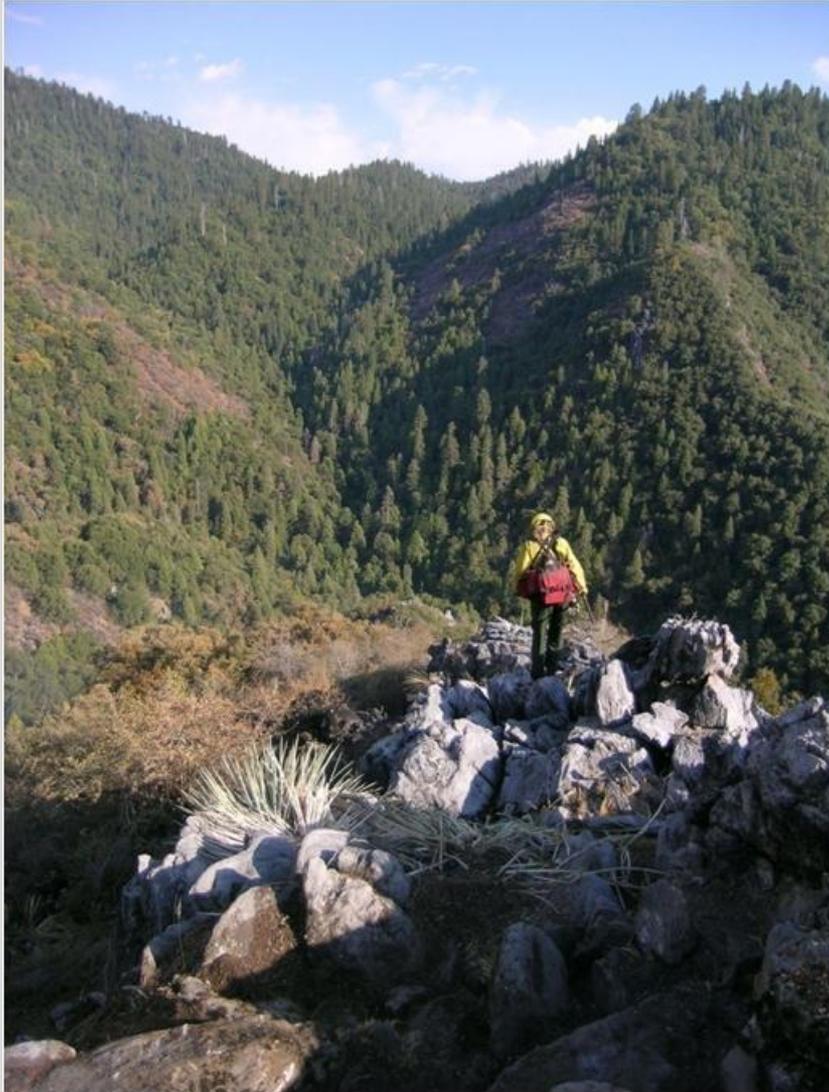
Building the Perfect READ...

ICs and DIVS...the gatekeepers



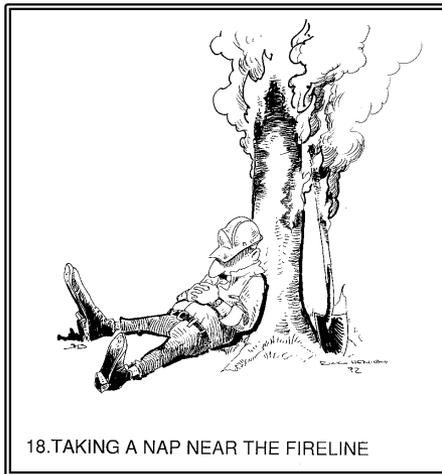
Building the Perfect READ

READs and personal responsibility...



DAY 1, 1305: What Nancy said....

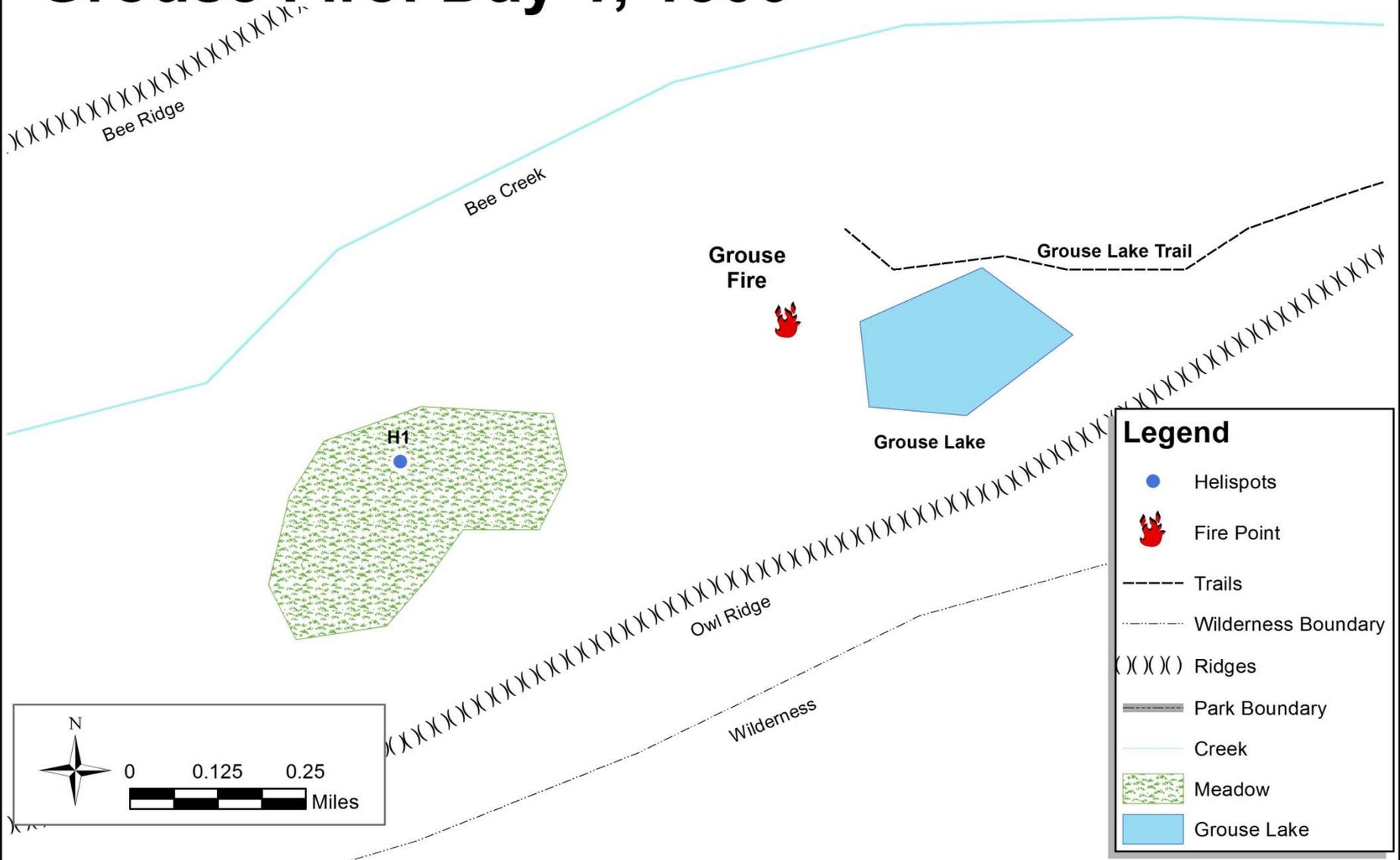
- Fire name and location
- Size-up
- Resources assigned and ordered
- Incident Commander (IC)
- Expectations for READ*



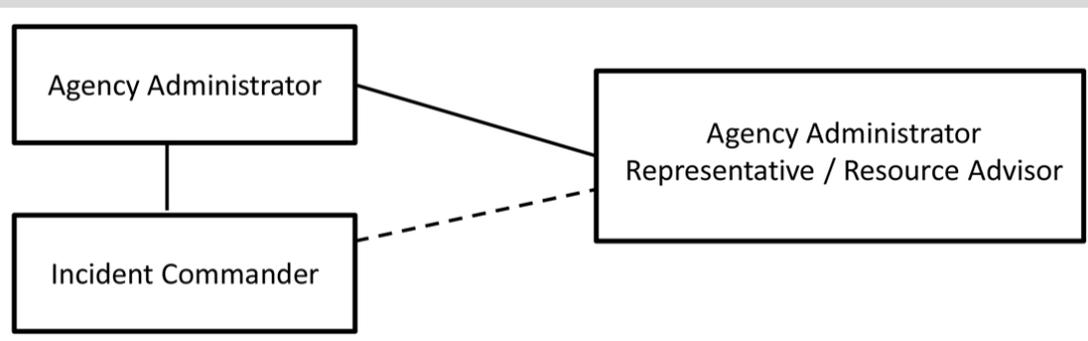
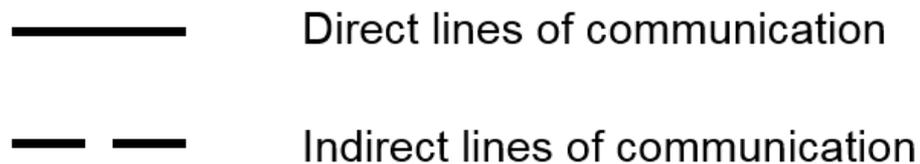
18.TAKING A NAP NEAR THE FIRELINE



Grouse Fire: Day 1, 1300



Entering the Fray: READs & Incident Command System (ICS)

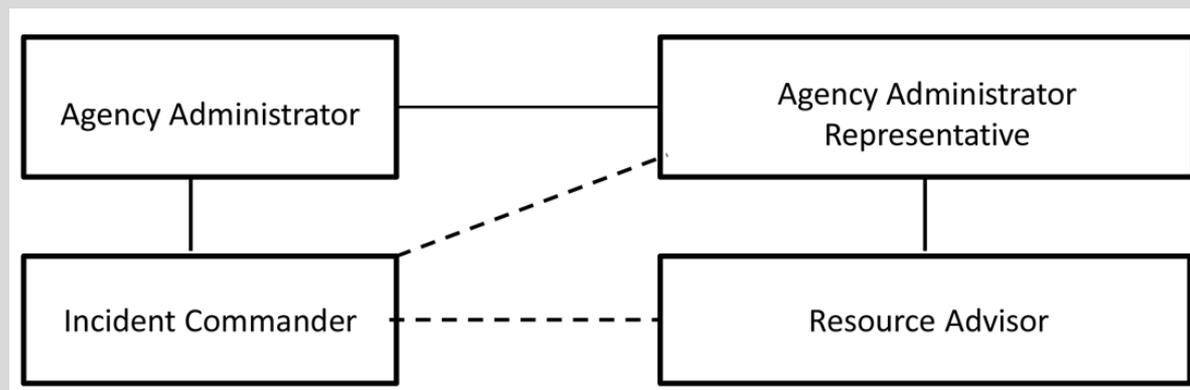


**Simple
Scenario**

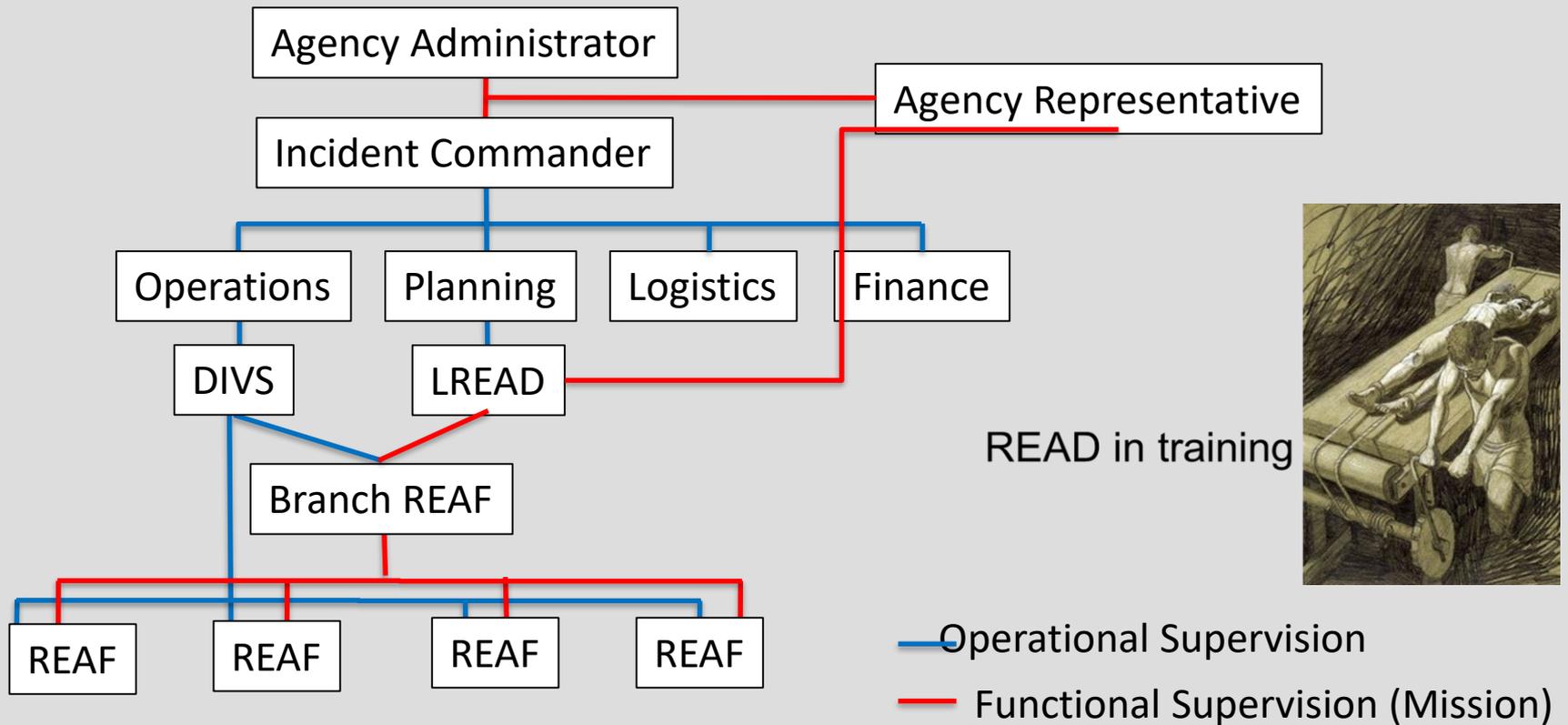


Pg. 57

**Complex
Scenario**

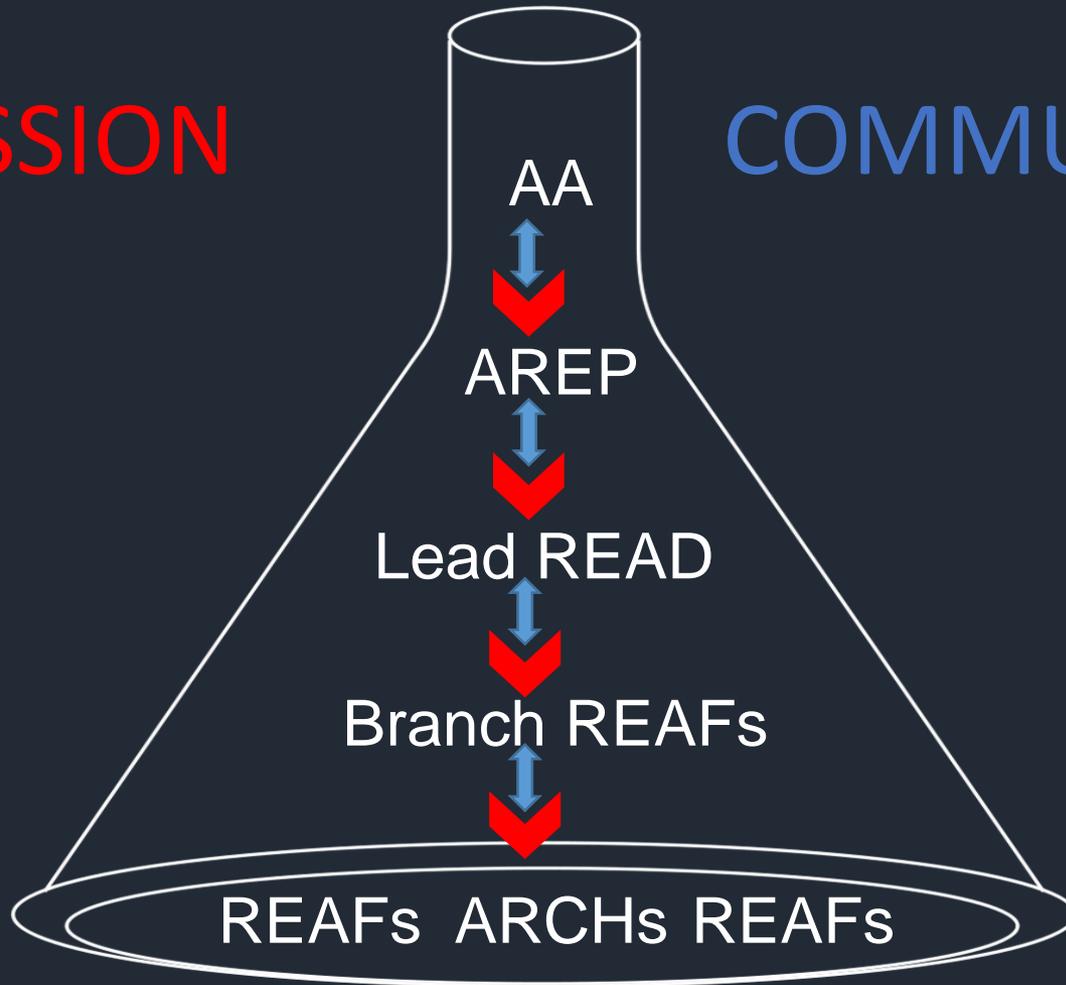


How does Resource Advising Fit into ICS ?



MISSION

COMMUNICATION



We have a fire...now what?



= Oh, #\$\$^&. Not on my watch!



= Going to get some serious OT and H-pay on this one!



= My *Copernicanicus magellanensis* research plots!



= I got this...

Fire Gear and READ “Kit”

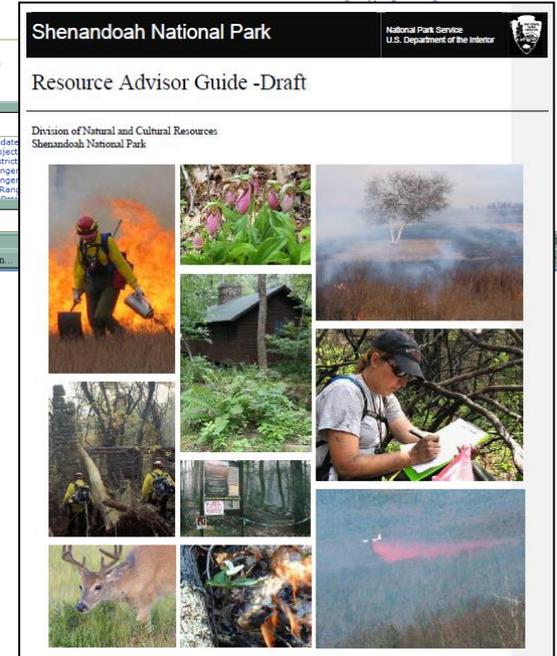
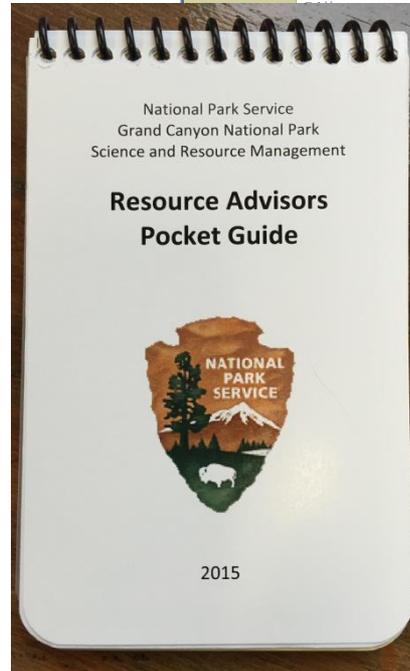
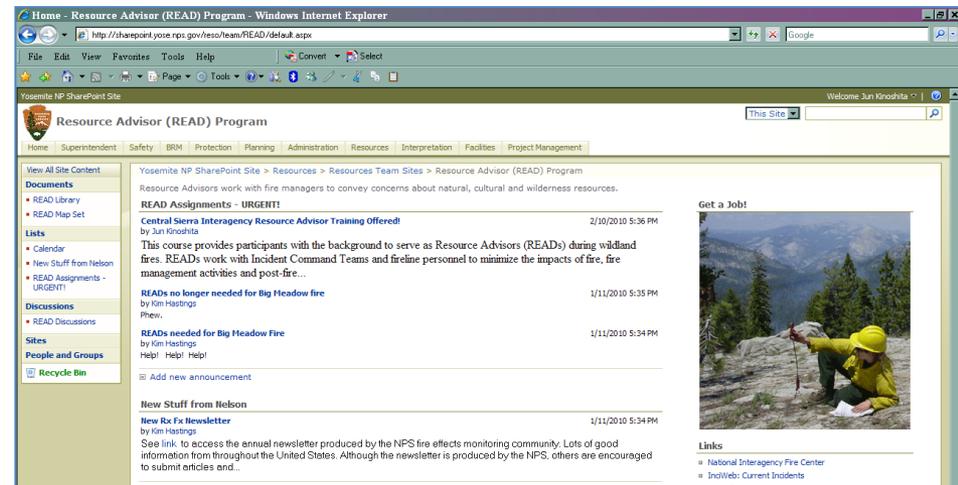




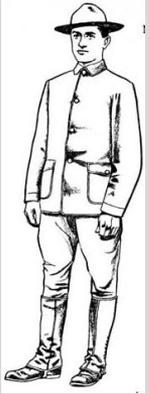
Inside Jun's
Head...

DAY 1, 1315: Initial Assessment

- Access GIS/Sharepoint “Kit”
 - Fire Management Unit
 - Fire history
 - Natural and cultural resources
 - Park infrastructure
- Upload data to GPS



Fire in Time and Space...



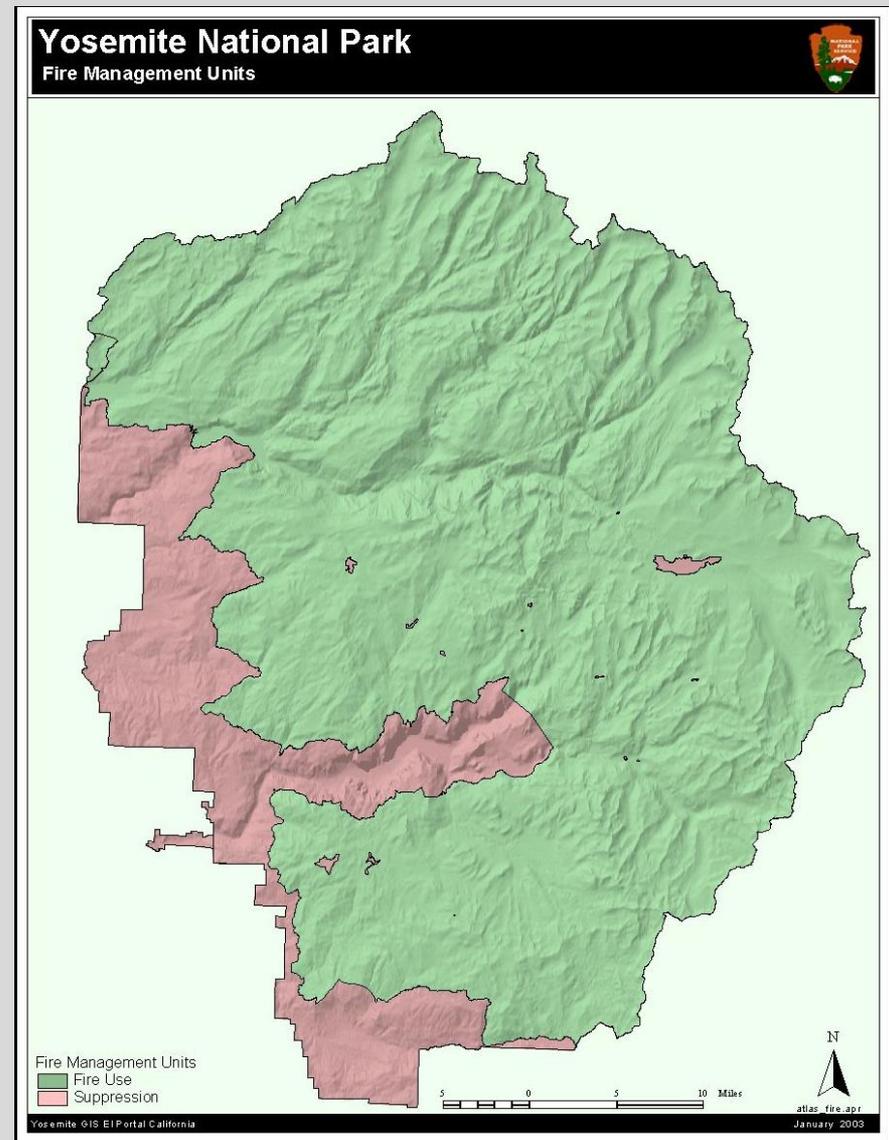
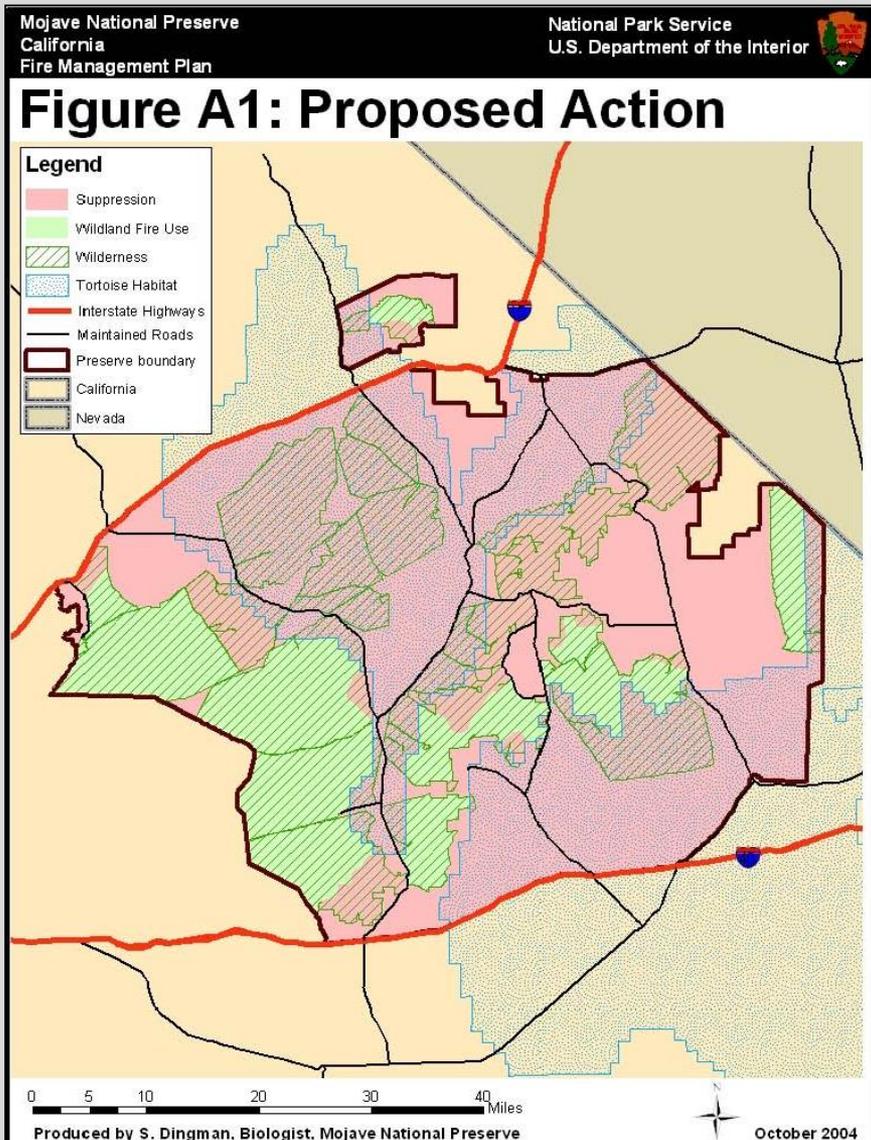
What did we say
we'd do?

FMU: Fire Management Unit

FMU-1: Suppression

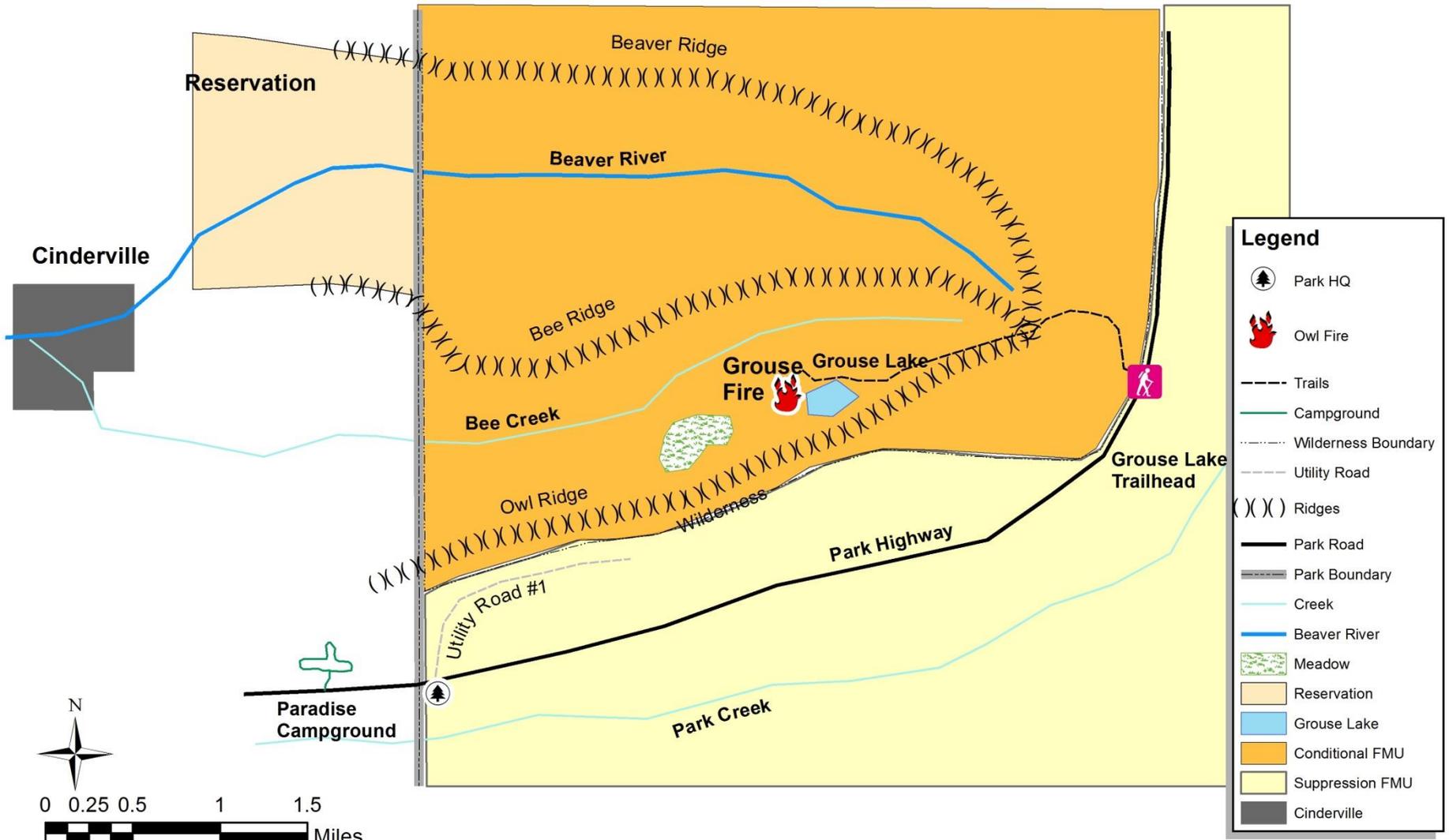
FMU-2:
Multiple
Objectives

Fire Management Units





Big Fire NP: Fire Management Units





SHENANDOAH
FIRE
NATIONAL PARK SERVICE

US Department of the Interior
National Park Service
Shenandoah National Park, Virginia
South District
Resources Map Sheet 3 of 3

Telephone Numbers

Quad Maps

Sensitive Resources

Legend

USGS 24K Quad

Trail and Road Rehabilitation Standards

Outer Line Rehabilitation Standards

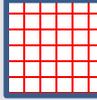
Guidelines for Resource Threat

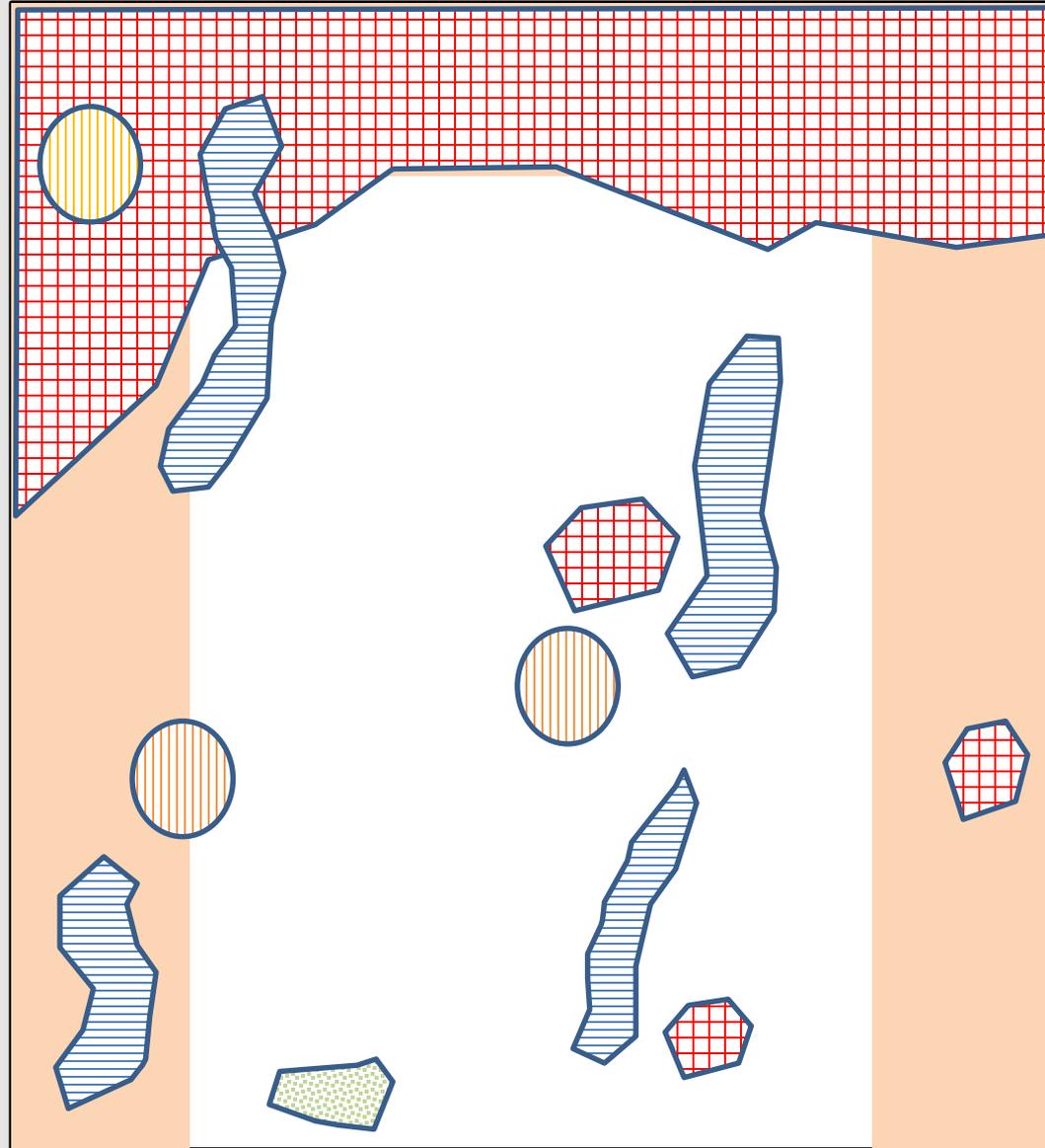
Management Requirements



Fire in Time and Space...

What can we do?
What can't we do?

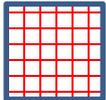
-  = No ground disturbance without Resource Advisor
-  = No retardant; no night operations
-  = No air ops (Feb-Jun)
-  = No dipping/retardant

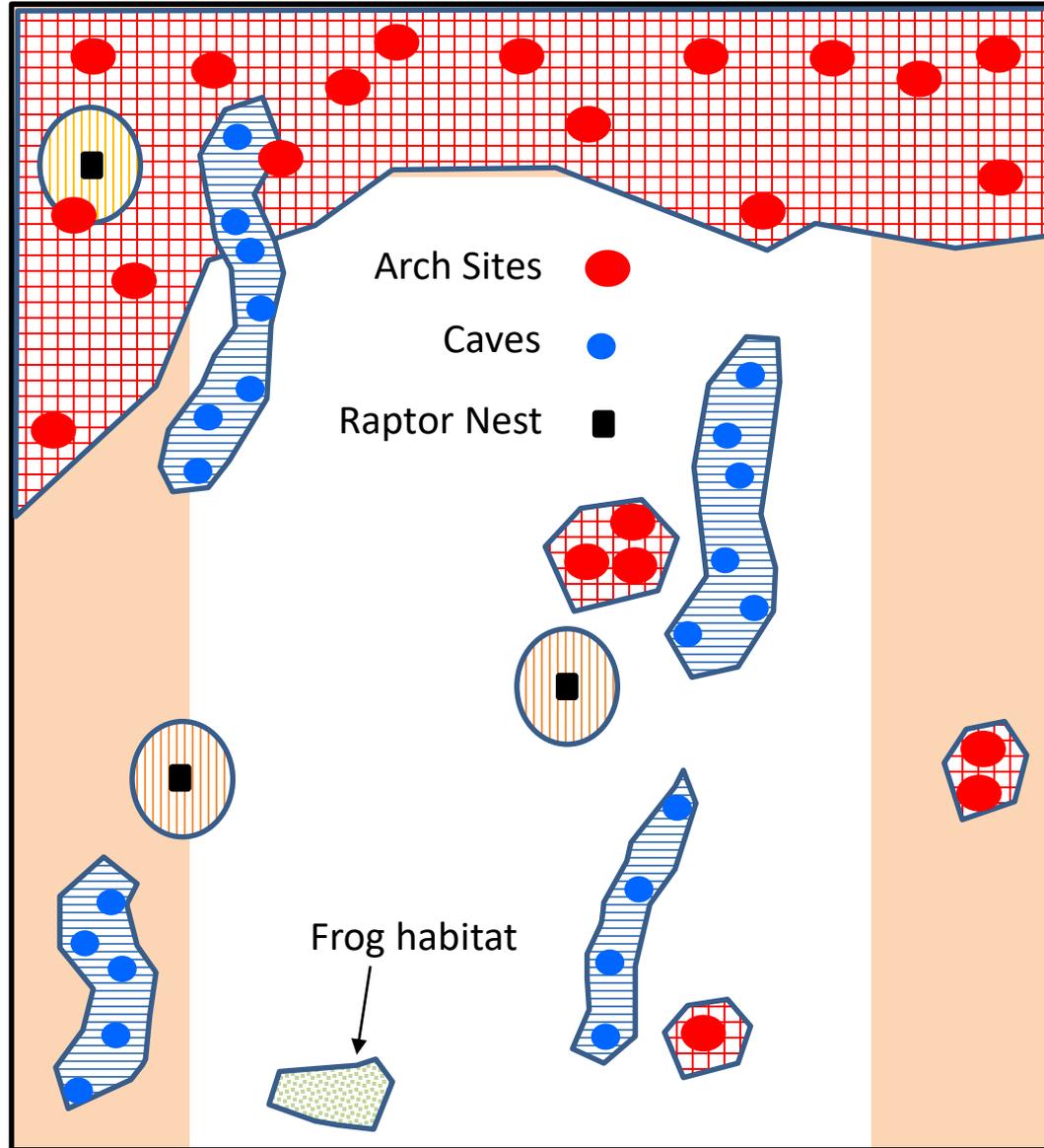




Fire in Time and Space...

Brass Tacks...

-  = No ground disturbance without Resource Advisor
-  = No retardant; no night operations
-  = No air ops (Feb-Jun)
-  = No dipping/retardant



What are YOUR Resource Concerns?

Where would you go to find out more?

What documents would you reference?



Types of Impacts

- Direct
- Operational
- Indirect



Direct Impacts

Caused by fire and/or associated byproducts like smoke



Operational Impacts

Result from fire management operations

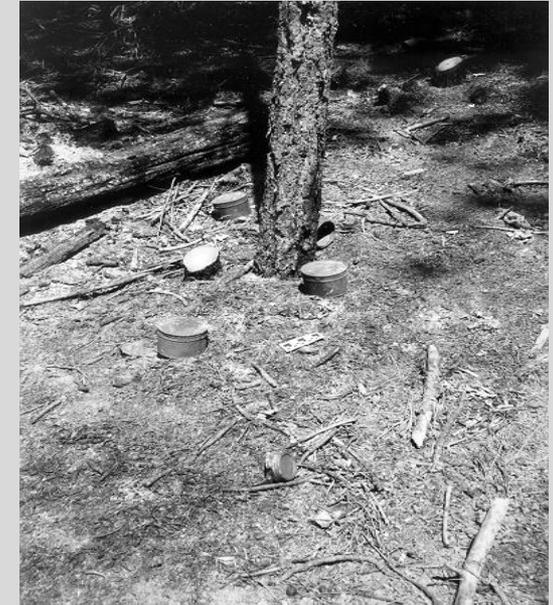


Retardant-killed fish



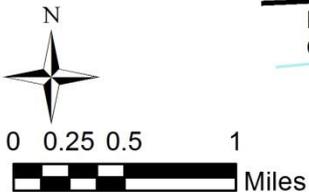
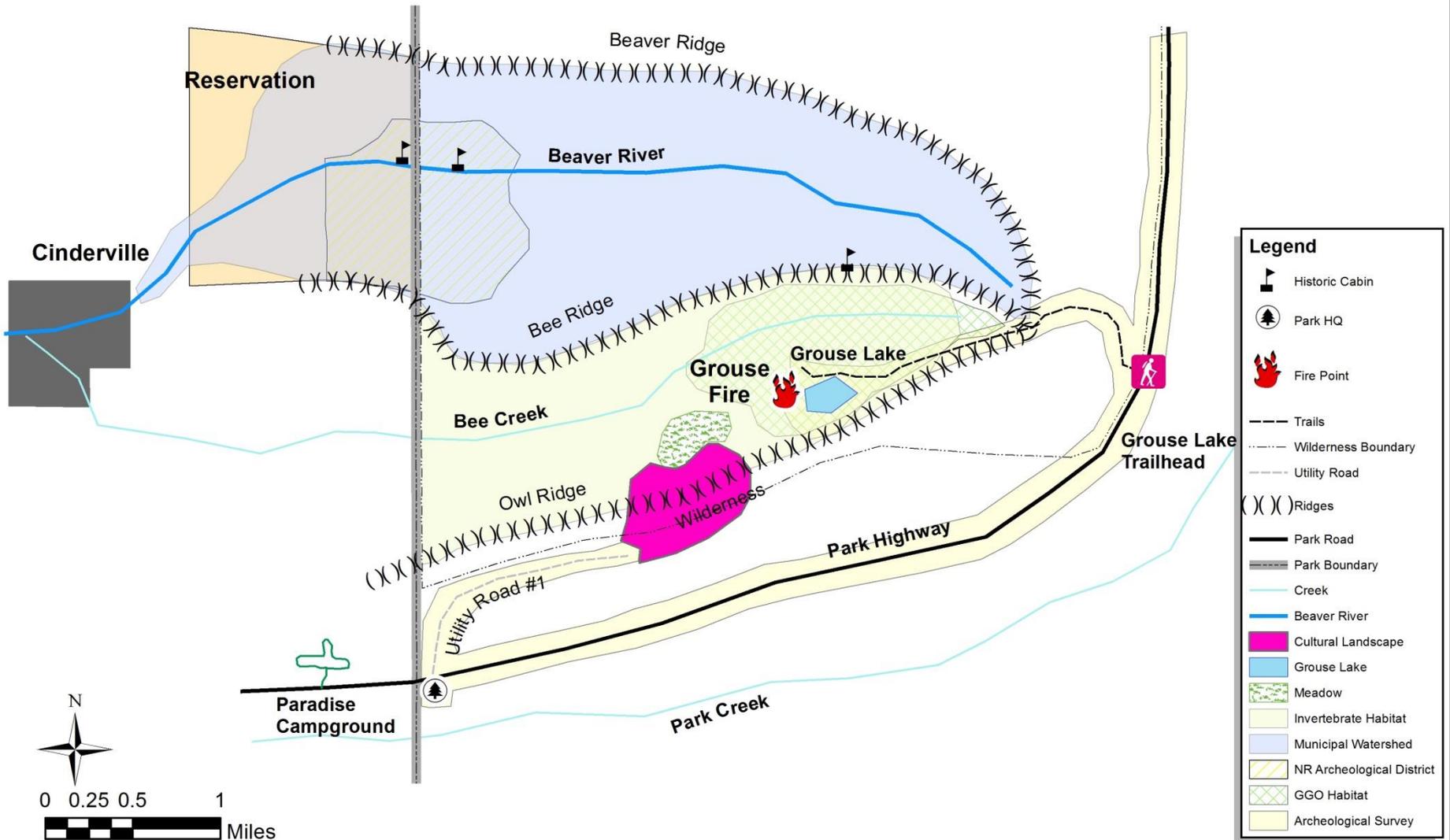
Indirect Impacts

Caused by post-fire conditions resulting from fire and/or fire management operations





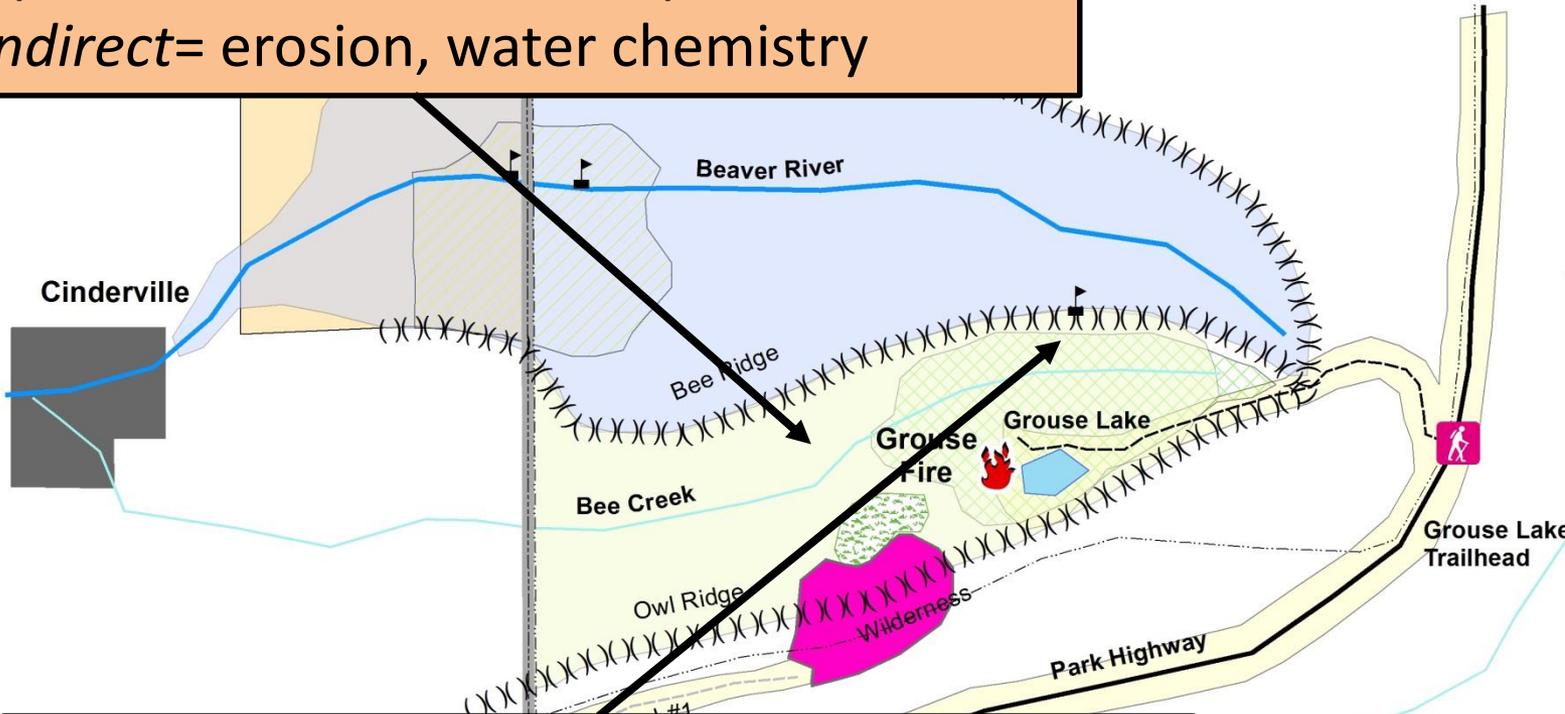
Grouse Fire: Resource Concerns



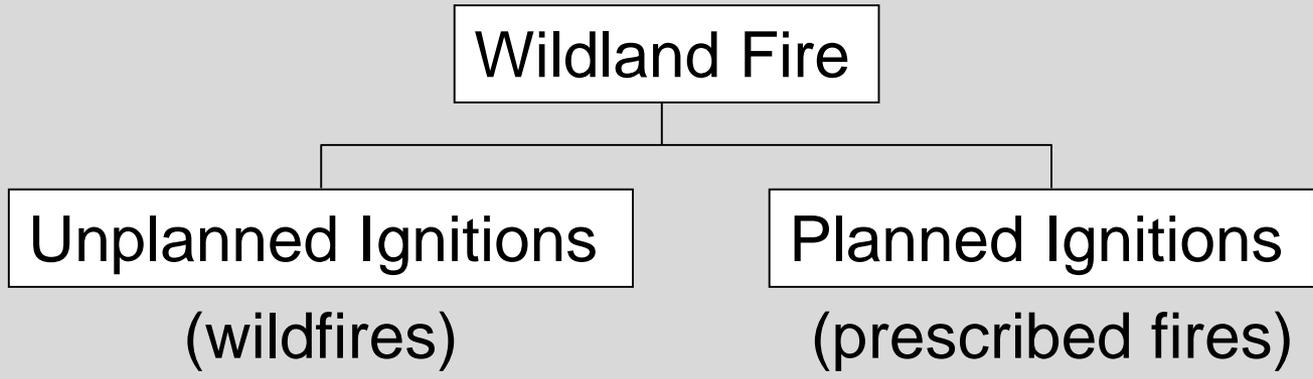
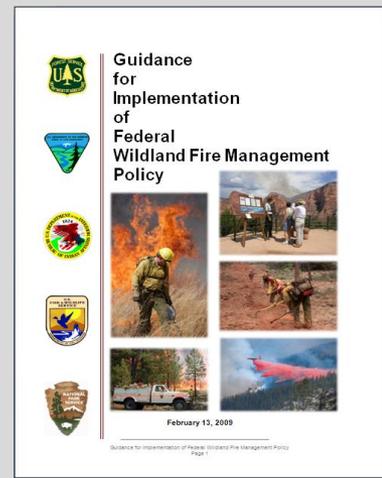


Concerns

Invertebrate Habitat:
Direct= high severity fire
Operational= retardant, aquatic invasives
Indirect= erosion, water chemistry



Historic Cabin:
Direct= consumption
Operational= retardant, vegetation removal
Indirect= treefall, looting



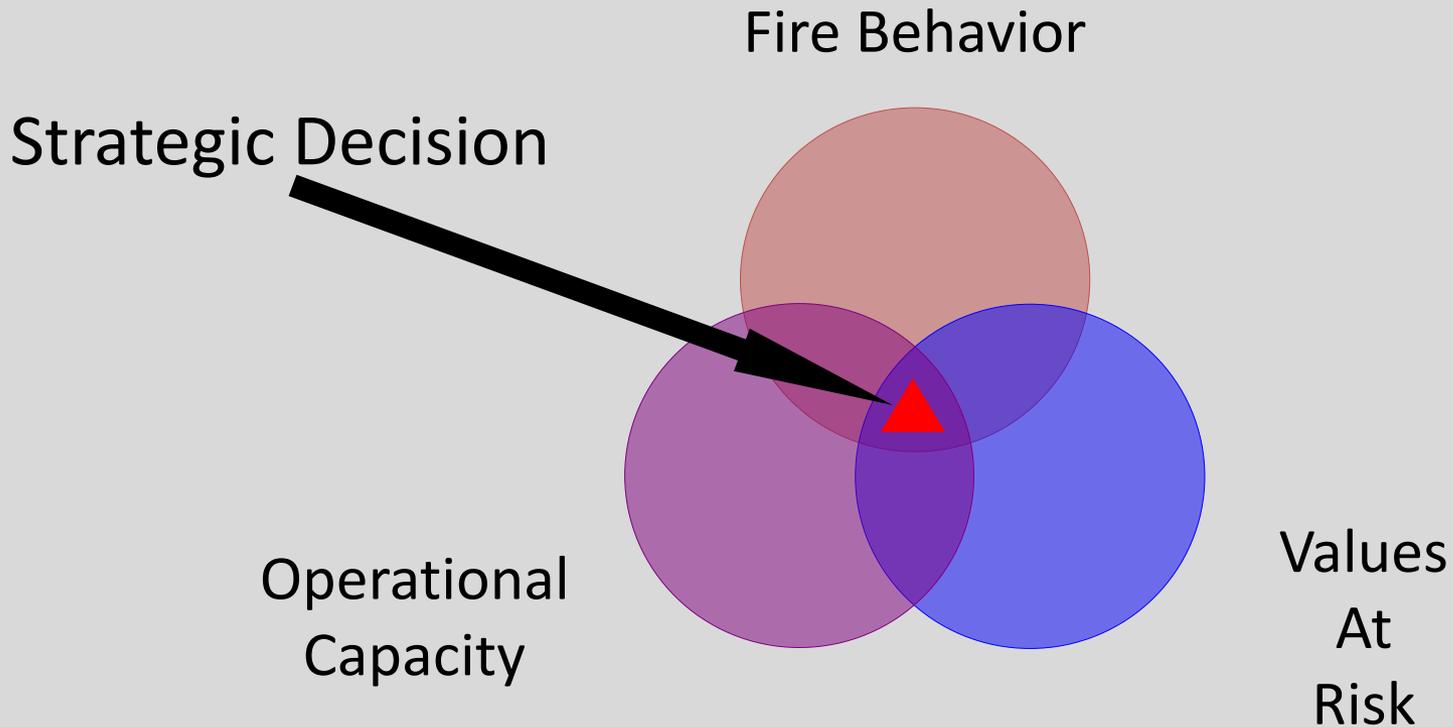
Response to Wildfire

Encompasses all response actions to manage a wildfire

The full spectrum of tactical and strategic options are available



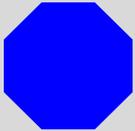
Response to Wildfires



Values at Risk



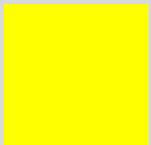
Safety



Resources—Natural, Cultural, etc.



Socio-political and Economic



Infrastructure



 Transmission Line

 Smoke

 Popular trail

Wilderness Values 

 Condor fledglings

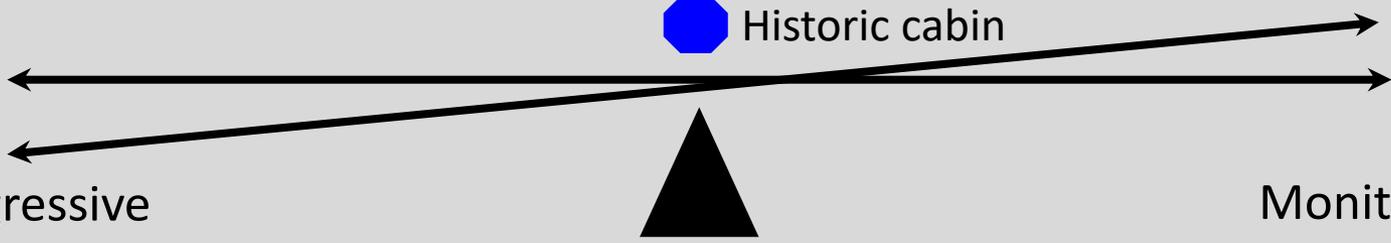
 Non-native invasive species

 Fire-vulnerable ecosystem

 Historic cabin

Full, aggressive perimeter control

Monitoring



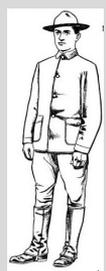
Minimal fire behavior



Wilderness



Autumn



Smoke



Popular trail

Wilderness Values



Non-native invasive species



Fire-dependent ecosystem



Historic cabin



Full, aggressive perimeter control

Monitoring

Grouse Fire Response...values at risk



- Wilderness Values
- Fire Ecology
- Invertebrate Habitat
- Owl Habitat
- Archeological District
- Cultural Landscape
- Historic Cabin

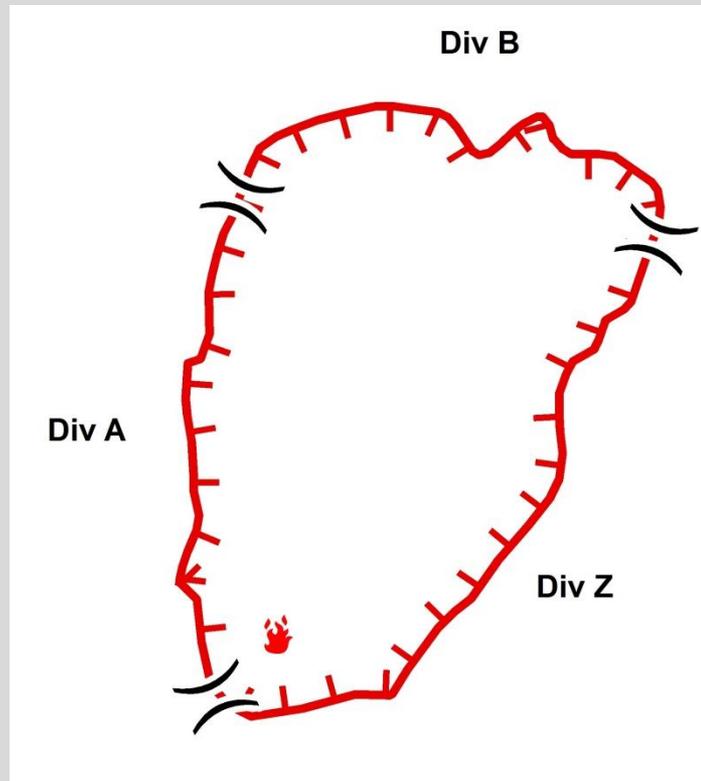
Full, aggressive
perimeter control

Monitoring

Fire Tactics

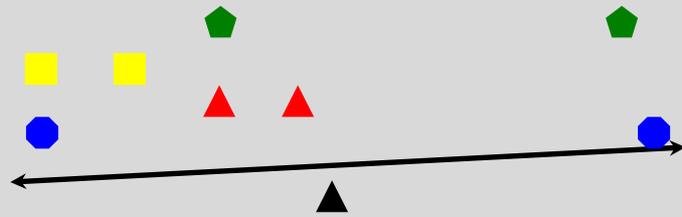


Indirect Line Construction
With burnout

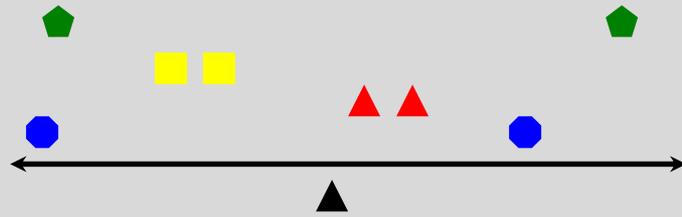


Direct Line Construction

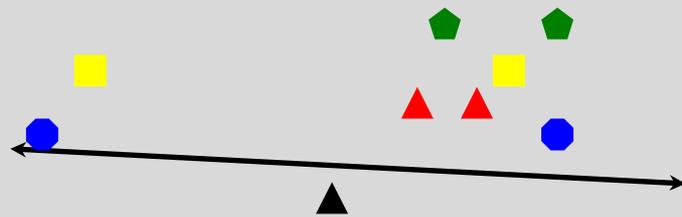




Week 1



Week 2



Week 3



DAY 1, 1530: Fly into incident

- Fly over fire...grown to about 1.5 acres
- Use Park Helispot map to find nearest helispot...minimize efforts and impacts related to construction
- One located in meadow ca. $\frac{1}{4}$ mi. from the fire
- Land and discover patch of bull thistle...inform pilot, flag with appropriate colored flagging, take waypoint



Bull thistle (*Cirsium vulgare*)

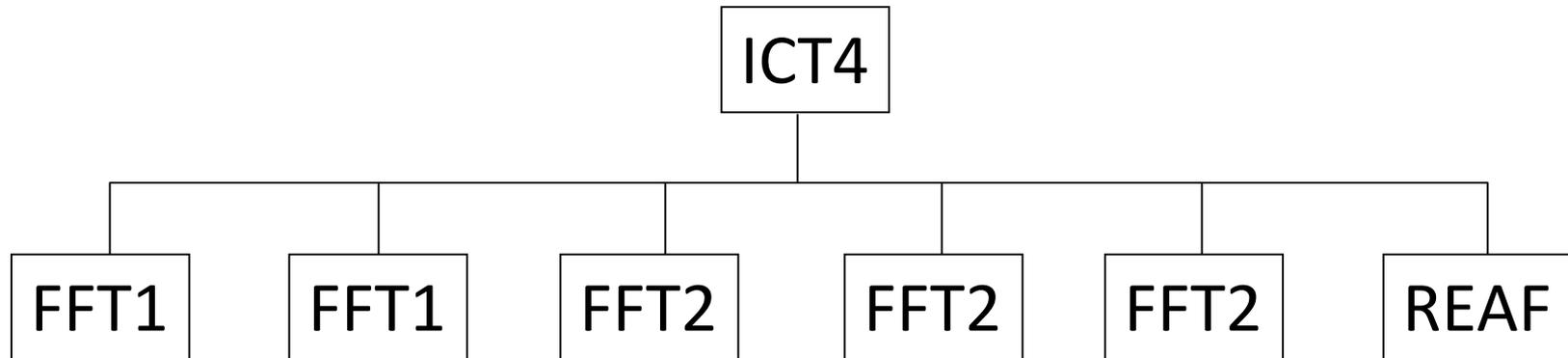
Initial Response

Two types of initial response

- Type 5= Single resource and low complexity incident
- Type 4= Multiple resources, low to moderate complexity



Grouse Fire ICS



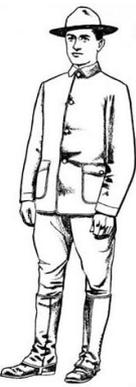
DAY 1, 1545 Hike to Incident...

- IC sizes it up...spreading in all directions, isolated tree torching.
- Surrounded by heavy, dry fuels...lots of growth potential
- IC recommends aggressive suppression action
- Radios park FMO...taking aggressive suppression action, is air support available if necessary?

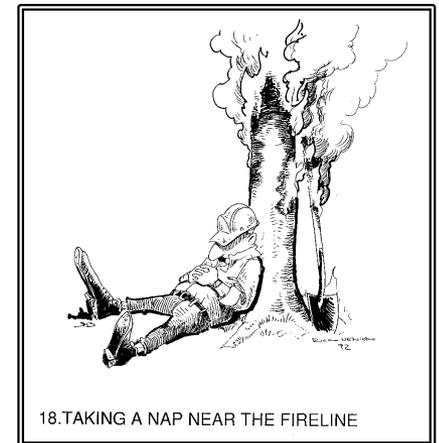
DAY 1, 1615: What's the Deal?

- FMO: Why the heavy hand? This is the conditional use zone.
- IC: This thing is going to get huge.
- FMO: What about resource benefits? Let me take this to the Superintendent.

DAY 1, 1630: The Superintendent Says ...



- What do you mean you want the fire to burn for resource benefit?
- What do you mean you want this fire to burn until winter?
- There's a hot air balloon rally this weekend, what about the smoke?
- What about the Cinderville water supply?
- Can I use fire money to fix the Tamale Ridge Road?
- Will I get my name in the paper?
- What is my risk?
- What's my reward?
- I'd rather not take the risk!



18. TAKING A NAP NEAR THE FIRELINE

Grouse Fire Response...values at risk



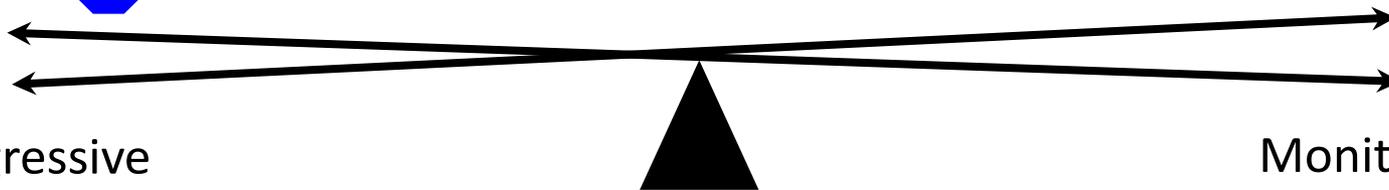
-  Municipal Watershed
-  Smoke
-  Firefighter/Public Safety
-  Wilderness Values
-  Fire Ecology
-  Invertebrate Habitat
-  Owl Habitat
-  Archeological District



-  Cultural Landscape
-  Historic Cabin

Full, aggressive
perimeter control

Monitoring



**BINGO
CANCELLED
DUE TO
MOUNTAIN FIRE**



DAY 1, 1645: Lower the Boom...

IC: Minimize fire size and time to containment (=Cost)



Incident Action Plans (IAP)

- Outlines **INCIDENT OBJECTIVES** reflecting the overall incident strategy and the specific **TACTICS** for achieving these objectives.
- Includes relevant supporting information for the current or next operational period.
 - Operational period: Period of time scheduled for execution of a given set of tactical actions as specified in the IAP. Generally ≤ 24 hours.
- Simple incident = verbal
Complex incident = written

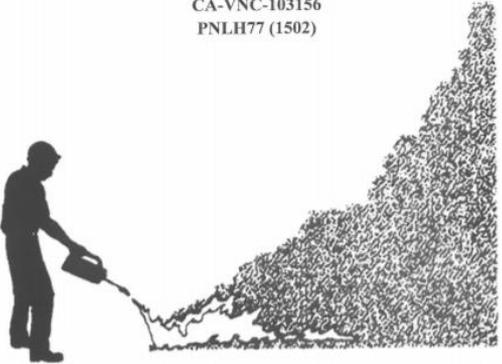
Incident Action Plan (IAP)

THOMAS INCIDENT

INCIDENT ACTION PLAN

12/26/2017 0700 - 1900

CA-VNC-103156
PNLH77 (1502)






INCIDENT OBJECTIVES	1. INCIDENT NAME Thomas Incident	2. DATE 12/25/2017	3. TIME 1900
4. OPERATIONAL PERIOD (DATE/TIME) 12/26/2017 0700-1900			
5. GENERAL CONTROL OBJECTIVES			
Management Objectives -Provide for and maintain public and first responder safety by utilizing the incident safety analysis process. -Protect critical assets at risk to include the agricultural industry, historical assets within the affected area, infrastructure and improvements, watersheds, and transmission lines. -Utilize tactics that consider protection of sensitive natural and cultural resources in the affected wilderness areas, the Sespe Wild and Scenic River, and the Sespe Condor Sanctuary. - Ensure transparent, timely, and accurate communication at all levels of the incident. - Be financially responsible for all assigned management and fire suppression tactics. - Foster and enhance community and political relationships. -All management actions and efforts will be focused on serving, safeguarding, and protecting the citizens and natural resources within Ventura County, Santa Barbara County, and Los Padres National Forest.			
Control Objectives -Hold fire within the current southern perimeter to protect life and property values in the wildland-urban interface. -Keep the fire south of the Mount Pinos Ranger District boundary to minimize impacts to the Sespe watershed, Sespe Wild and Scenic River, and the Sespe Wilderness. -Keep the fire east of Gibraltar Road and north and east of 5N16 Road to minimize exposure and duration of incident. -Hold fire within the current eastern perimeter to minimize impact to the condor sanctuary, oil fields, and wilderness.			
7. WEATHER FORECAST FOR OPERATIONAL PERIOD See attached.			
8. GENERAL SAFETY MESSAGE L.C.E.S. Utilize this tool for all of your operations I.A., mop-up, rehab, snags, driving, etc. Discuss how it can be used for any operation.			
9. Attachments <input checked="" type="checkbox"/> If attached			
<input checked="" type="checkbox"/> Organization List (ICS 203) <input checked="" type="checkbox"/> Weather Forecast <input checked="" type="checkbox"/> Fire Behavior Forecast <input checked="" type="checkbox"/> Safety Message <input checked="" type="checkbox"/> Communications Plan (ICS 206)		<input checked="" type="checkbox"/> Medical Plan (ICS 208) <input checked="" type="checkbox"/> Air Ops 220 <input type="checkbox"/> Ops Expectations/ DIVS worksheet <input checked="" type="checkbox"/> Assignment List (ICS 204) <input type="checkbox"/> Archaeologist message	
		<input type="checkbox"/> Finance <input type="checkbox"/> Training Message/ 101 <input type="checkbox"/> Demob Plan <input type="checkbox"/> Traffic Plan	
10. PREPARED BY (PLANNING SECTION CHIEF) 		11. APPROVED BY (INCIDENT COMMANDER) 	

Division/Group Assignment List (ICS 204 WF)

1. Incident Name: THOMAS		3. Branch: II		Division/Group: YY/QW		
2. Operational Period: Date/Time From: 12/26/2017 0700 TUE Date/Time To: 12/26/2017 1900 TUE						
4. Operations Personnel						
OPERATIONS CHIEF: PATRICK RUSSELL JOHN LANE		PLANNING OPS: MIKE APRLING ALEX KICELATH (T)				
BRANCH DIRECTOR: RICHARD HERRERA		DIVISION/GROUP SUPERVISOR: THOMAS C GONZALEZ				
SAFETY: JOHN STRICKLAND		AIR ATTACK SUPERVISOR: MARK BABERACKI				
5. Resources Assigned this Period						
State Team / Task Force / Resource Designator	LWD	Leader	Number Persons	Drop Off PT./Time	Pick Up PT./Time	
TFLD 0-25052	0100	WILL D BURKS	1	DP 120000	CP1900	
HC21 NAA- NAVALD SCOUTS 1 C-25028	1209	CHARLES Z SMITH	22	DP 120000	CP1900	
HC21 STF - SOUTHERN IDAHO C-26097	1209	CORTNEY M DAVIS	21	DP 120000	CP1900	
HC21 BOF BOISE REGULARS-2 C-25056	1209	JOHN F WAGNER	21	DP 120000	CP1900	
ENG3 TMU-43 E-25158	0104	PHILIP HEITZKE	5	DP 120000	CP1900	
ENG3 CWF-ENTHAT RD E-25194	0105	TIMOTHY DELPH	5	DP 120000	CP1900	
ENG3 CWF-CLE ELLUM RD E-25193	0105	DYLAN HOLM	5	DP 120000	CP1900	
ENG3 MNF -34 E-25162	0104	BRIAN COMBS	5	DP 120000	CP1900	
ENG3 BOF-30 E-25163	0105	ROMALDO NAVARRO	5	DP 120000	CP1900	
WT52 PVT -O'CONNELL E-25071		JEFF POINTS	1	DP 120000	CP1900	
WT52 PVT -JARDINE'S E-25072		PAUL HERMAN	1	DP 120000	CP1900	
READ 0-25144	0103	TOM MURPHEY	1	DP 120000	CP1900	
REAF 0-25208	1209	QUINTAN GARCIA	1	DP 120000	CP1900	
REAF 0-25198	0101	ALICIA BONSCHOWSKI	1	DP 120000	CP1900	
6. Division/Group Communication Summary						
Function	Channel	RX Frequency N/W	RX Tone/NAC	TX Frequency N/W	TX Tone/NAC	Mode
COMMAND	2	168.1000		170.4000	148.2	
TACTICAL	9	154.2875	156.7	154.2875	156.7	
AIR TO GROUND	14	150.3400	192.8	159.2400	192.8	
MEDICAL	18	156.0750	156.7	156.0750	156.7	
EMERGENCY	16	168.6250		168.6250	110.9	
8. Prepared By (Resource Unit Leader) JENNY KRUGER		Approved By (Planning Section Chief) CARRIE DENNETT 		Date 12/25/2017	Time 2100	

ICS 204 WF (1/14) FINAL Page 1 of 2

DAY 1, 1645: Grouse Fire IAP

- Marching orders: “Take aggressive suppression action” ...minimize fire size and time to containment with hand line
- What are the tactical implications?
 - Attempt direct control
 - Will need more resources...hand crews, air support



DAY 1, 1650: “So we’re going to need a helispot around here..”



MIST: Minimum Impact Strategies and Tactics

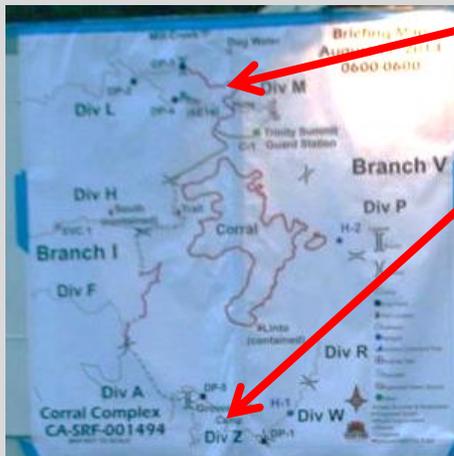
- Minimum approach necessary to **safely** and **effectively** achieve stated objectives
- Consistent with land and resource management objectives as expressed in FMP



Strategy vs. Tactic

Strategy

The general plan of action. Informed by the Incident Objectives which are determined by the Agency Administrator.



MIST

A photograph of a whiteboard with two sections of objectives. The top section is titled 'Control Objectives:' and lists four items. The bottom section is titled 'Incident Objectives:' and lists six items. A red circle highlights the sixth item in the 'Incident Objectives' list, which mentions 'utilize MIST in the Trinity Alps Wilderness'. Red arrows point from the 'MIST' text to the map and from the 'MIST' text to the circled item.

Control Objectives:

Keep the fire:

1. East & South of the Hoopa Valley Indian Reservation
2. North of Lone Pine Ridge
3. West of the defensible ridgeline running through Grizzly Camp & Trinity summit along the county line, which had contingency line built in 2009 during the Backbone Fire.
4. South of the Forest Road 8N10

Incident Objectives:

1. Provide for firefighter & public safety in all incident operations
2. Protect property & infrastructure. Control fire closest to communities
3. Keep stakeholders, the public, & cooperators informed of fire status.
4. Keep costs commensurate with identified values at risk.
5. Protect cultural & natural resources.
6. Protect wilderness value & utilize MIST in the Trinity Alps Wilderness

Strategy vs. Tactic

Tactic

The means by which a strategy is operationally executed.



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MIST

MIST / Not MIST



Bulldozer

Flapper



MIST/Not MIST



Chemical Retardant

Water



MIST/Not MIST



Felling Snags

Protecting Snags



MIST/Not MIST



Cross-Cut Saw

Chainsaw



MIST/Not MIST



Constructed Helispot

Natural Opening



MIST/Not MIST

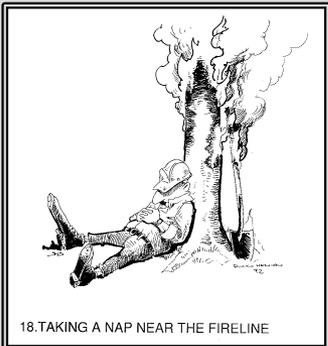


Context, Context, Context



ALL ABOUT OBJECTIVES!

Taos Pueblo, NM



DAY 1, 1650: Grouse Fire MIST Considerations

- Park has standardized MIST guidelines ...knowledgeable crew
 - Retain snags where safely possible
 - Fireline size should reflect fireline behavior

- What about specific issues?



DAY 1, 1655: MIST Recommendations

- Wilderness: Fire is in designated Wilderness
- Bears: Remind about bears and food
- Owl Habitat: Direct flights away from nest/habitat
- Dipping: Can we use Grouse Lake? Results of frog survey? Water from Park Creek invasives?

DAY 1, 1715: IC Back on Radio to FMO

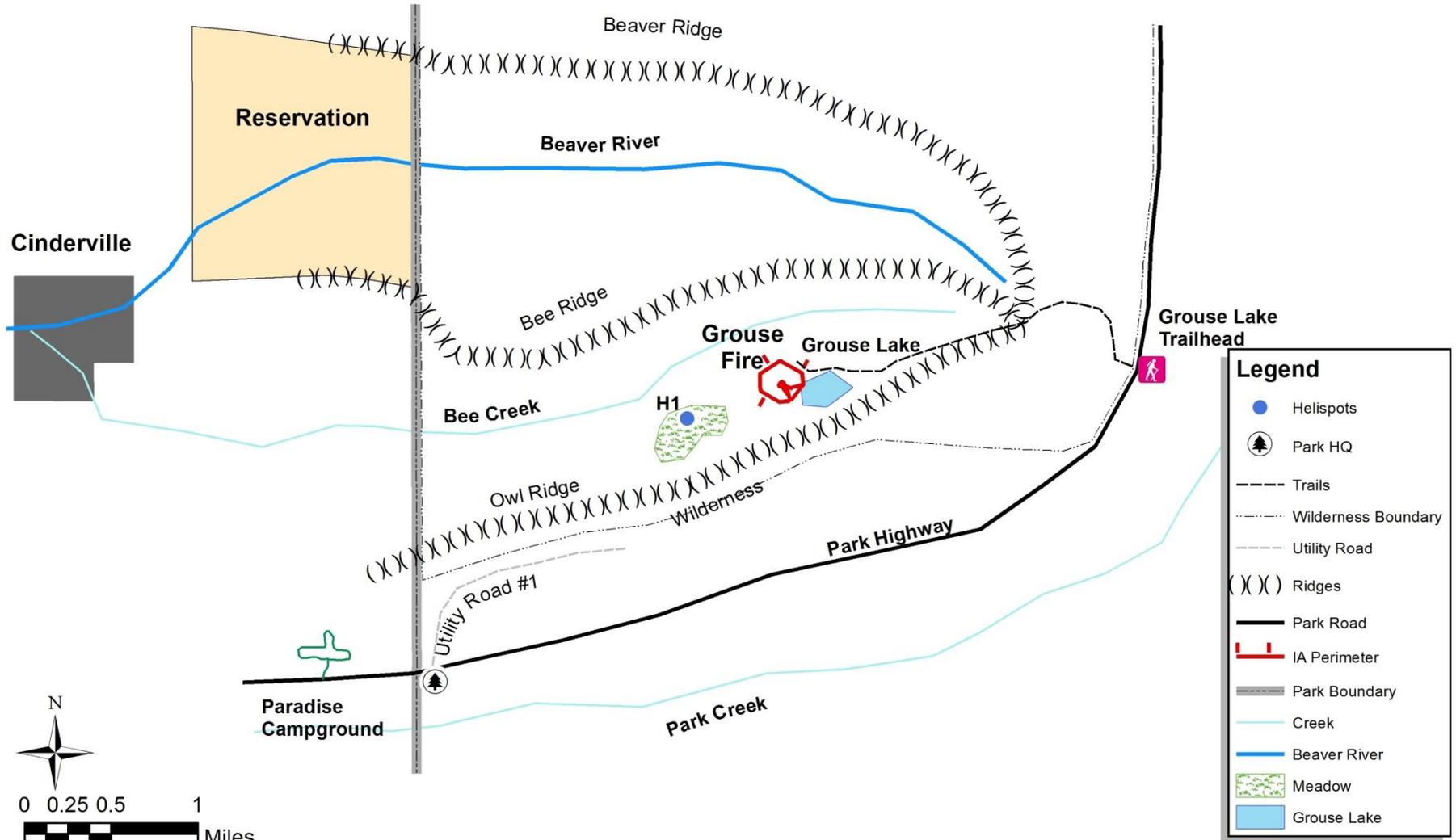
- Not able to catch fire...getting too big too fast even with help
- Bomber with retardant? No, very sensitive watershed for aquatics. Shot in the dark anyway.
- Need more ground resources, time to reevaluate objectives...probably better to back off and go indirect.

DAY 1, 1730: Updated Direction

- Battalion 31 will assume ICT3 responsibilities...send in the rest of Crew 7, Mt. Bullion...ICT4 will fill role of OSC.
- Forget about north flank...keep fire from entering Park Creek watershed...cut line along ridge, burn out if necessary.
- Do Wildland Fire Decision Support System (WFDSS)...looking like it is going to a Type 2 incident.



Grouse Fire Status: Day 1, 1730



DAY 1, 1730: Updated Direction cont.

- Jun will need to come out to help with WFDSS
- Need REAF on incident...contact dispatch...Echo Davenport is available. Will fly out with Crew 7 at 1900.
- Jun will brief her and fly out to HQ

DAY 1, 1735



“In case of
emergency,
Dial 911”



DAY 1, 1735: “Things don’t look so good”

- Jun briefs Cedar on the fire—current status, short and long-term prognosis
- Cedar asks lots of questions:
 - What are your issues?
 - What is the availability of local resources?
 - Do you need me to come up there?
 - Is there someone I can tie in with locally?
 - Do you think we’ll need a BAER team?
 - What is the account number?
 - Is there anything I can do for you right now?

Crunching the Numbers

- Cedar and Jun work on potential numbers of REAFs/READs needed
 - Three READs to work in ICP, including Cedar
 - Two REAFs per division to work on fireline, plus Jun...assume three divisions
- The park's capacity is limited. Only Jun and Echo for the immediate future.
- Cedar will line up five REAFs and two READs to work in ICP...look for experienced people
- Jun will notify IC...will let Cedar know if we want to pull the trigger

Local vs. Non-Local Resource Advisors

- Locals

- Pro

- Local knowledge and connections
- Access to equipment and information

- Con

- Distracted by day job, personal stuff

- Non-Locals

- Pro

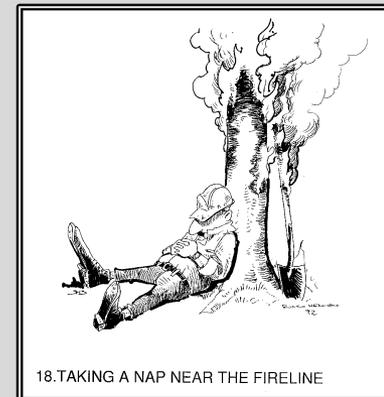
- Undivided attention

- Con

- Learning curve

Best Scenario....

- Mix of local and non-local personnel
- Lots of local personnel available



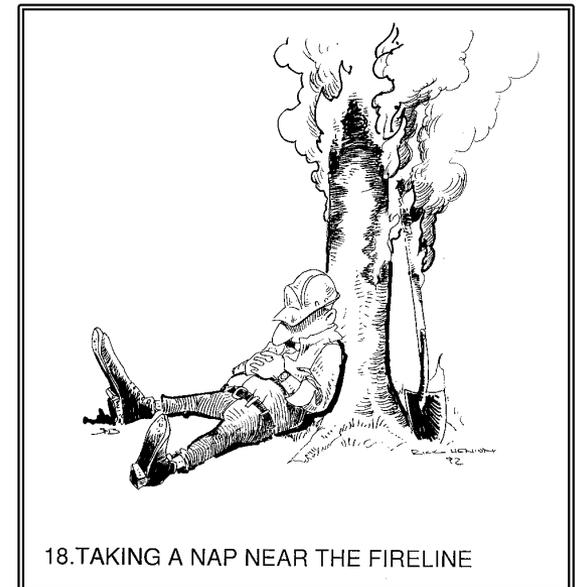
What Division should Resource Advisors come from?

DAY 1, 1745: “Tell dispatch to give me a call”

- Jun confirms with IC to order Cedar for the incident
- Dispatch calls Cedar by telephone...
 - “What do you want to be ordered as?”
 - “When are you planning to arrive?”

DAY 1, 1800: Resource Order

- Park Dispatch places the Resource Order through the Puget Sound Interagency Coordination Center (aka PSC)...Cedar's home dispatcher
- Ordered as a **“Name Request”**

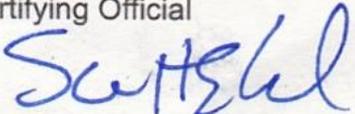


INCIDENT QUALIFICATION CARD

Printed 06/27/19	Name Drake, Cedar	Employee ID 00001001566
RT-130 Exp 06/05/20	WA-NCP North Cascades National Park	Fitness Arduous Expires 06/05/20

QUALIFIED POSITIONS

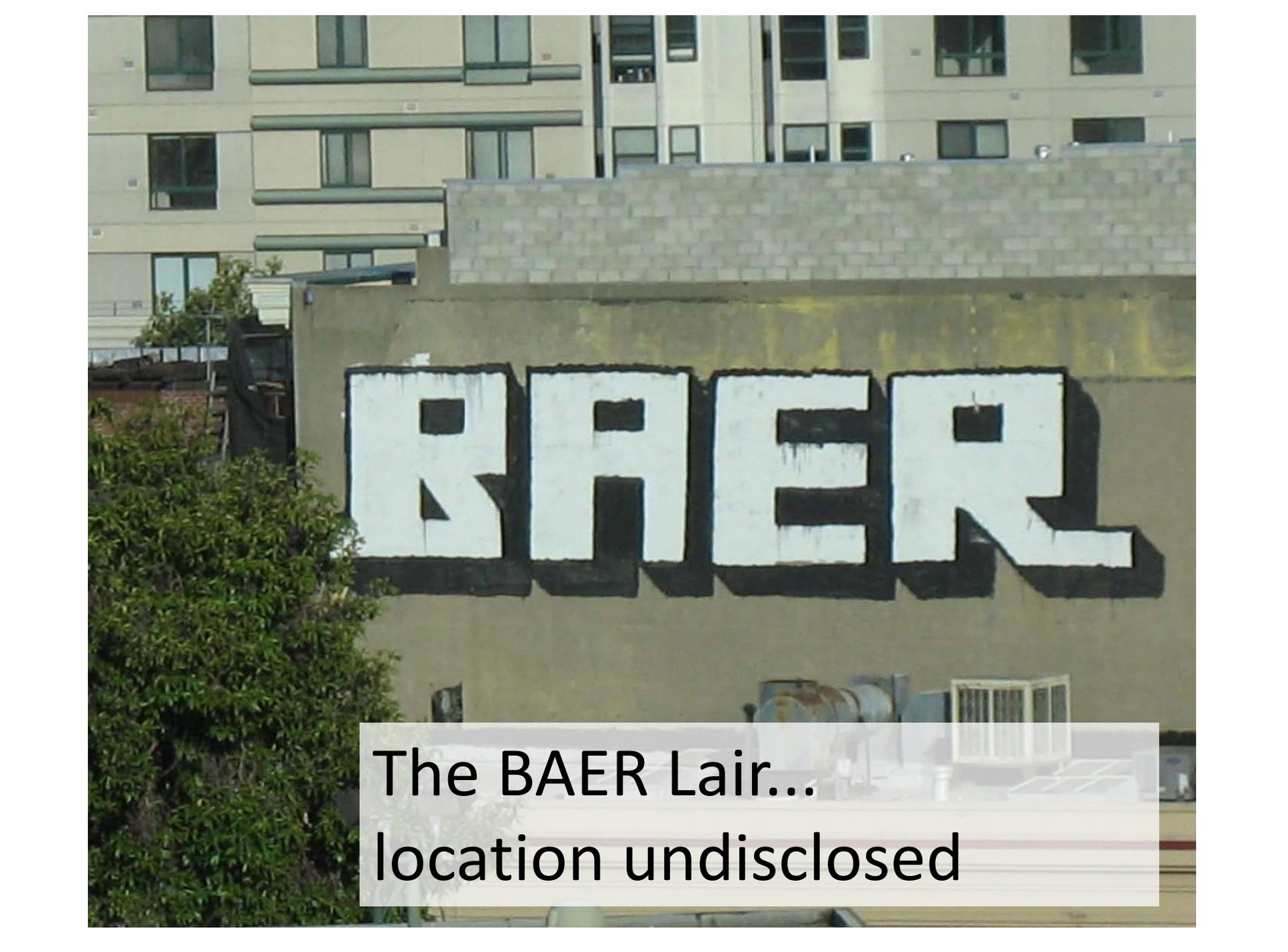
Status	Position	Description	Curr Exp
Q	FFT2	Firefighter Type 2	05/03/24
Q	READ	Resource Advisor	08/08/23
Q	THSP	Technical Specialist	
Q	FEMO	Fire Effects Monitor	05/03/24
Q	FFT1	Firefighter Type 1	05/03/24
Fold Card Here			
Q	HECM	Helicopter Crewmember	07/30/21
Q	BOTA	Botanist	06/05/23
Q	REAF	Resource Advisor, Fireline	08/08/23
T	FAL3	Basic Faller	08/02/18
T	FIRB	Firing Boss, Single Resource	06/27/22

Certifying Official 	Title FMO	Date 6/27/19
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DAY 1, 1815: Waiting for the call...

- Ready line gear and red bag
- Ready READ/BAER “Box” and contact numbers
- Make travel arrangements (assume full 14-day assignment)...authorization, rental vehicle, etc.
- Start making telephone calls
 - Jun....what do I need to know?
 - READs with needed specialties across region...are they available and willing?
 - National BAER Coordinator (Rich)





BAER

The BAER Lair...
location undisclosed

