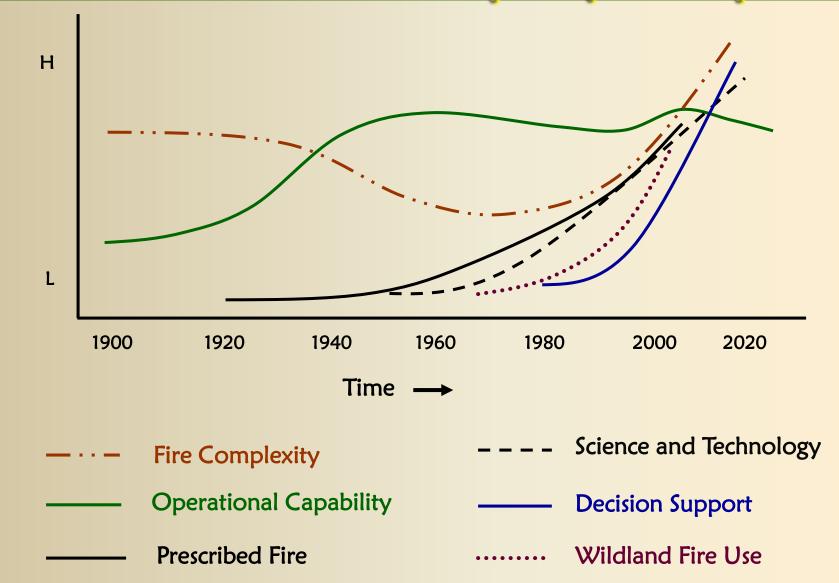
# Wildland Fire Decision Support System System Content and Element Descriptions

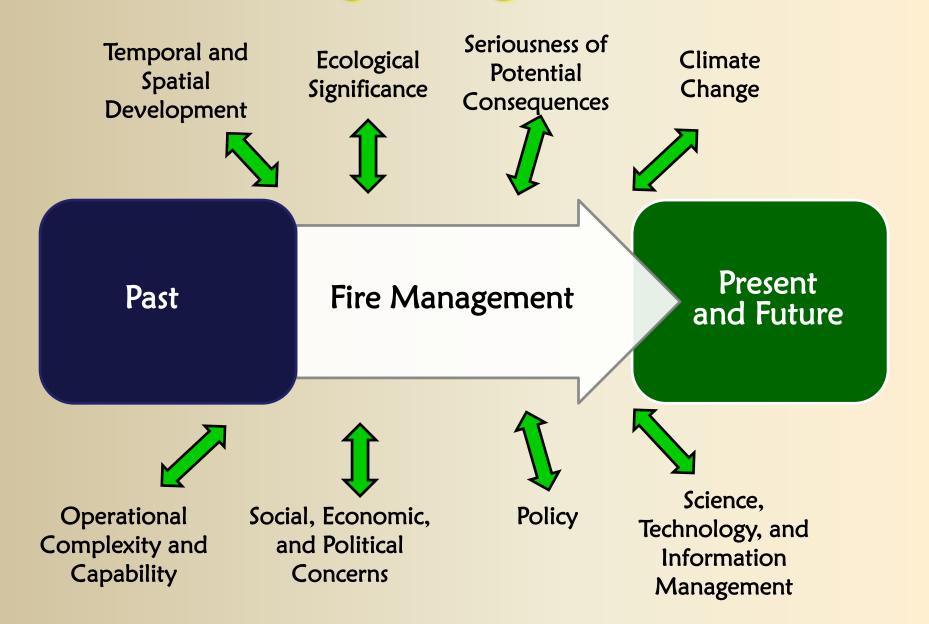
Wildland Fire Management RD&A National Interagency Fire Center Boise, Idaho

## Wildland Fire Management -

**Complexity and Capability** 



## **Factors Driving Change**





# Wildland Fire Decision Making

- Effective management is predicated upon decision making,
- Resource availability can no longer match large fire occurrence,
- Management of large fire costs becoming increasingly important,
- Smallest percentage of total wildland fires large fires, accounts for largest amount of expenditures,
- Initial strategic response decisions are most important in terms of resource commitments and expenditures.



# **Decision Support - Scale**









### Incident level (tactical)

- Short-term temporally and spatially
- Fine scale
- Incident level (strategic)
  - Broader scale
- Unit or Area level (strategic)
  - Both short- and long-term scales
- National level (strategic)
  - Long-term scale

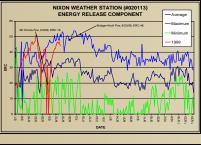


## 2009 Policy Implementation Guidance











 A wildland fire may be concurrently managed for one or more objectives and objectives can change as the fire spreads across the landscape.
 Objectives are affected by changes in fuels, weather, topography; varying social understanding and tolerance; and involvement of other governmental jurisdictions having different missions and objectives.

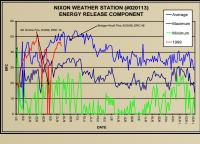


## 2009 Policy Implementation Guidance











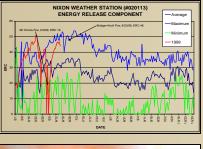
 Managers will use a decision support process to guide and document wildfire decisions. The process will provide situational assessment, analyze hazards and risk, define implementation actions, and document decisions and rationale for those decisions.



# **Principles of Decision Support**









- Decision support processes provide information used by managers <u>when</u> they are making decisions,
- Decision support does not replace decision making,
- Decision support information comes from a variety of sources, ranging from experience to quantitative analysis procedures,
- Decision support information has applications across a range of scales and concentrations.



# Wildland Fire Documentation

Analysis and decision documentation of wildland fires is directed in the following situations:

- Wildland fires are no longer following the initial action defined by the Fire Management Plan, or
- Wildland fires are being managed for multiple objectives, or
- Prescribed fires exceed prescriptions and are declared wildfires.

Consider publishing a decision when a fire continues to actively spread beyond a few burning periods, increases in complexity or cost, or has a high relative risk.

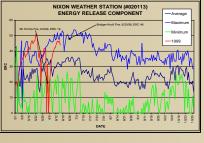


# What is WFDSS?











A web-based system that provides:
•risk and decision sharing simply and efficiently,

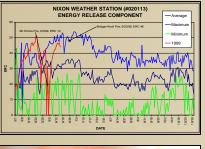
- •strategic decision documentation,
- decision support analysis utilizing appropriate fire behavior modeling, economic principles, and information technology,
- •information for completion of an operational plan.













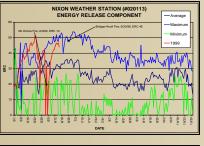
- •A system that assembles, consolidates, and presents information to decision makers.
- •An analytic deliberative process that is an iterative, information-goal directed process.
- •Is linear, scalable, progressive, and responsive to fire complexity,
- •Is spatially oriented, graphically displayed, with no reliance on large text input requirements,













•A system that presents a risk characterization to support wildland fire decision making.

•A flexible system that matches different types and levels of analysis and deliberation with varying risk characterization and decisions.

•A system consistent with accepted riskinformed decision models making risk characterization intuitive, logical, relevant, understandable, and accessible.

## Wildland Fire Decision Support System - Attributes

Primary Role
--------------

Strategic Objectives

Management Action Focus

**Temporal Scale** 

**Spatial Scale** 

Cost

**Revision/Update** 

**Tactical Responses** 

Documents strategic decisions, facilitates long-term risk assessment - decision support, and allows completion of an operational plan, commensurate with fire complexity

**Resource Benefits and Protection** 

**Strategic and Tactical** 

Short to long

**Incident or Complex** 

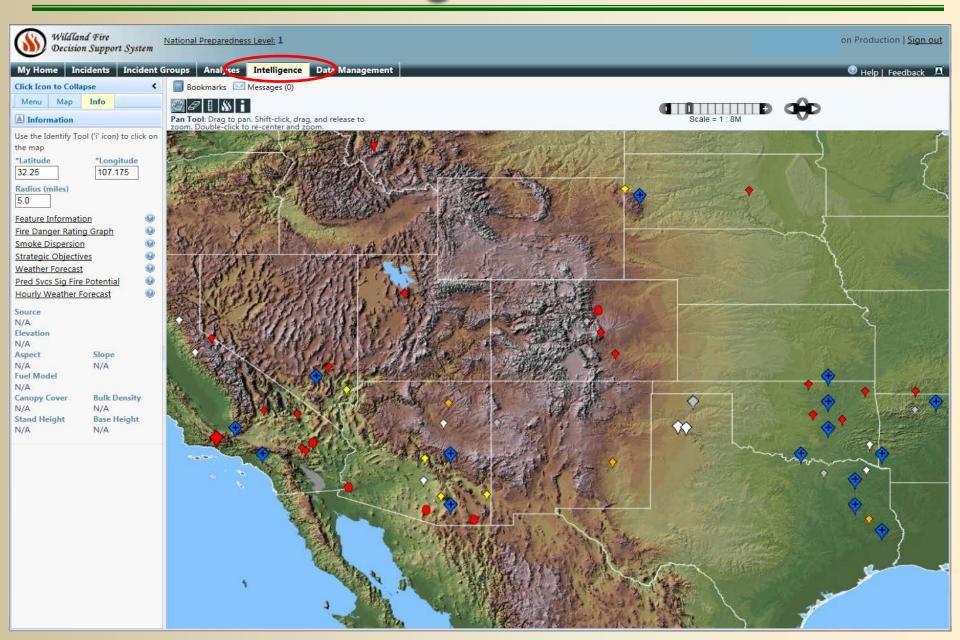
**Defined Frequency** 

Continually in response to conditions

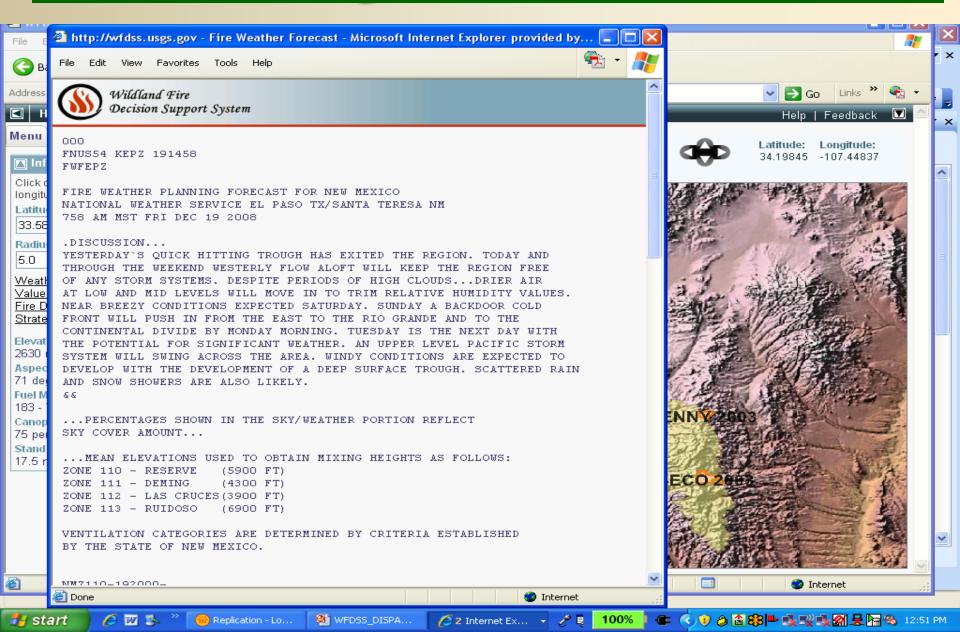
Full range of tactical responses available and built into Course of Action

Acquisition	<ul> <li>Geospatial data,</li> <li>Land and resource management plans,</li> <li>Weather, fire danger</li> </ul>	Information Objectives
Analysis	<ul> <li>Software analysis tools</li> <li>Fire behavior, fire economics, smoke dispersal, fire spread probability</li> </ul>	Situation Assessment
Application	<ul> <li>Decision documentation</li> <li>Decision rationale</li> <li>Periodic Assessment</li> </ul>	Decisions, Courses of Action, Cost Periodic Assessment
Archival	<ul> <li>Published decisions</li> <li>Electronic system of record</li> <li>Fire perimeters</li> <li>Reports</li> </ul>	Records, Reports

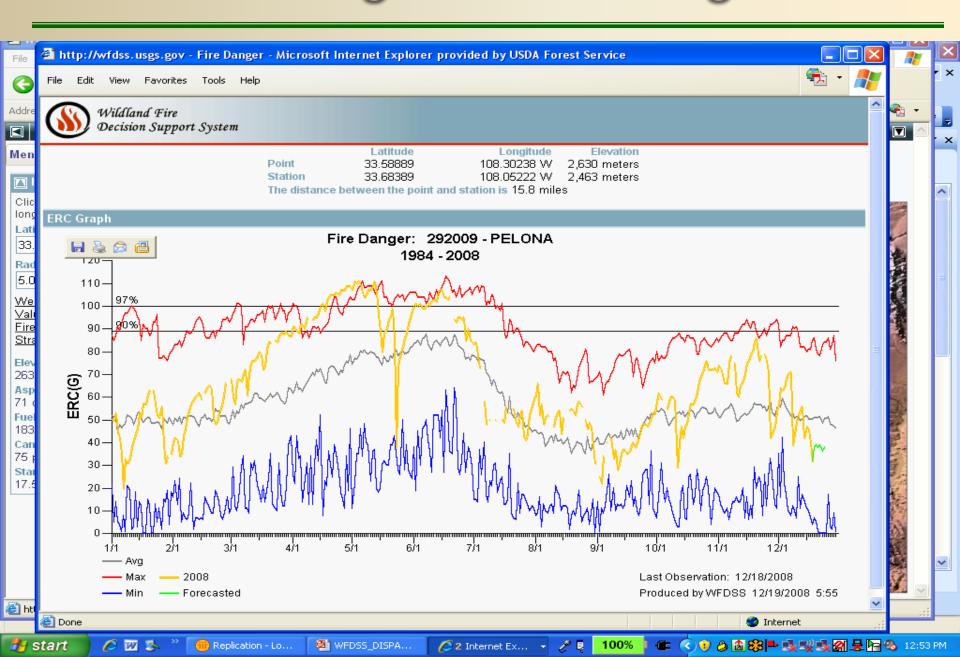
## **WFDSS** - Intelligence



## WFDSS - Intelligence – Fire Weather



## WFDSS - Intelligence – Fire Danger





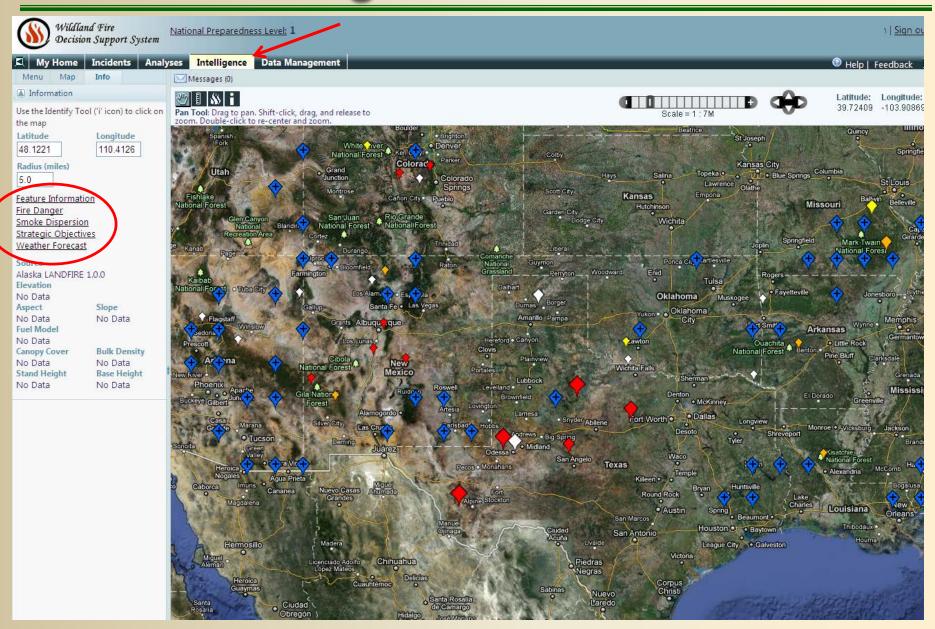
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Wildland Fire Decision Suppor	t System	
Home About WFDSS What's New In WFDSS	Welcome!	
WFDSS Training	Wildland Fire Decision Support System	Google Search
NWCG Training WFDSS	Velcome to the Wildland Fire Decision Support System ( <u>WFDSS</u> )!	only search WFDSS Website
Courses	This system assists fire managers and analysts in making strategic and tactical decisions for fire incidents. It has replaced the WFSA (Wildland Fire Situation Analysis), Wildland Fire Implementation Plan (WFIP), and Long-Term Implementation Plan	Hot Picks
Related References	(LTIP) processes with a single process that is easier to use, more intuitive, linear, scalable, and progressively responsive to changing fire complexity.	<u>5.4 Release Video</u> <u>5.4 Release Introduces the</u>
WFDSS Help Sign In to Production	WFDSS integrates the various applications used to manage incidents into a single system, which streamlines the analysis and reporting processes.	Accessibility Mode  • WFDSS & the iRWIN Data
Sign In to Training	WFDSS provides the following advantages over previous systems:	Exchange Service: Working in Connected World
Request Account	Combines desktop applications for fire modeling into a web-based system for easier <u>data</u> acquisition.	<u>5.3 Release Video</u>
<b>FDSS Help Desk</b> <u>A-Helpdesk@fs.fed.us</u> .dd WFDSS to subject line)	<ul> <li>Combines desktop applications for fire modeling into a web-based system for easier data acquisition.</li> <li>Provides an easy way for fire managers and analysts to accurately document their decision-making process by allowing results of analyses to be attached to the decision <u>point</u> and included in the final incident report.</li> </ul>	<u>5.3 Release Introduces the</u> <u>Assessment Tab</u> <u>5.2 Release Video</u>
L 866.224.7677 or	<ul> <li>Provides one decision process and documentation system for all types of wildland fires.</li> </ul>	What You Need to Know Abo     WEDGE 2015
616-323-1667 nalysis & Decision ontent Support	<ul> <li>Is a web-based application for easier sharing of analyses and reports across all levels of the federal wildland fire organization.</li> </ul>	WFDSS - 2015 • What Fire Behavior Specialist Need to Know About WFDSS
1 208-473-8107	<ul> <li>Introduces economic principles into the fire decision process.</li> </ul>	<u>2015</u>
	Before you log into WFDSS, make sure you read and understand the system Rules of Behavior.	WFDSS - What's New in 2015     LANDFIRE 2012 Data is Now
	WFDSS follows an analytic deliberative process for decision making. The following graphic displays this process. Click here	Available to WFDSS Users

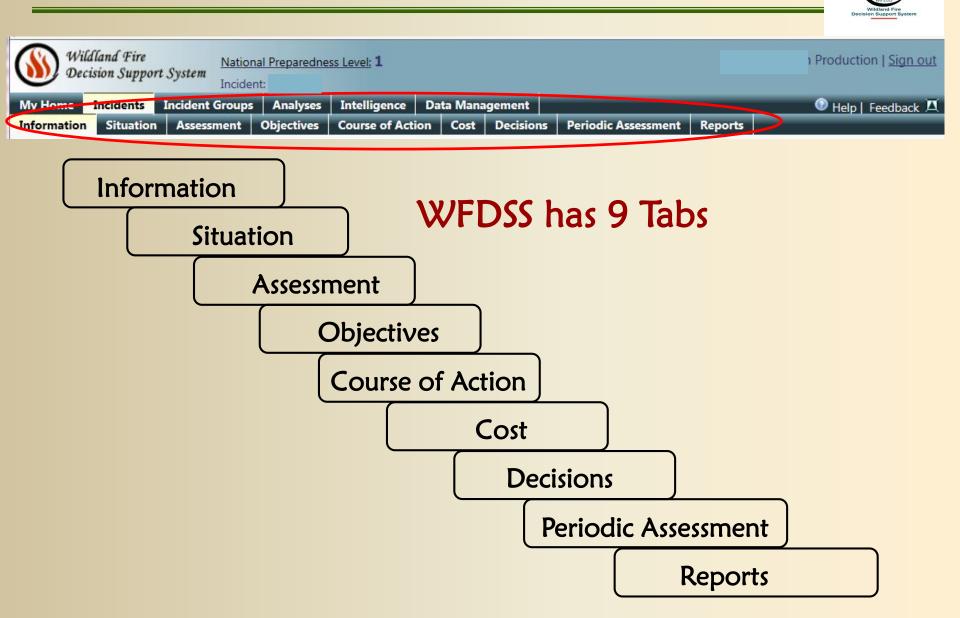
#### http://wfdss.usgs.gov/wfdss/WFDSS\_Home.shtml

## **WFDSS** - Intelligence

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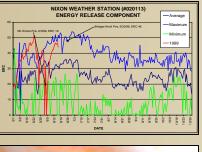
## **WFDSS Framework**













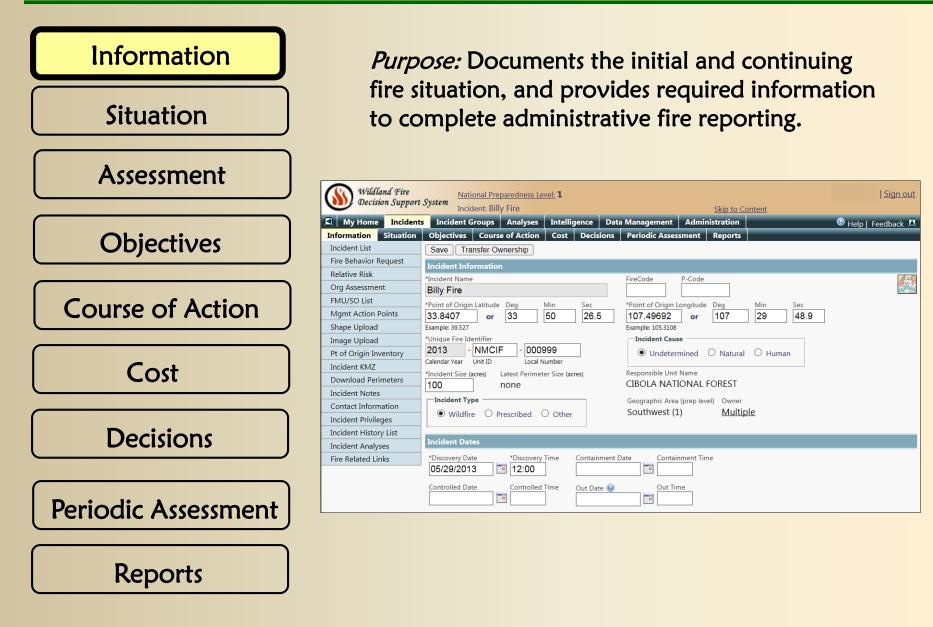
### **Decision Making:** An Analytic - Deliberative Process

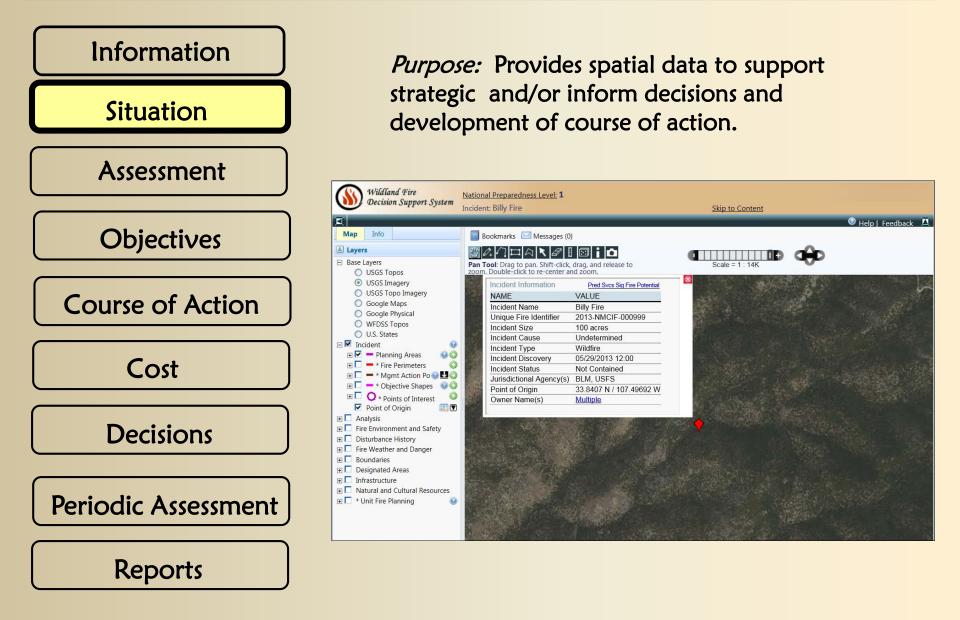


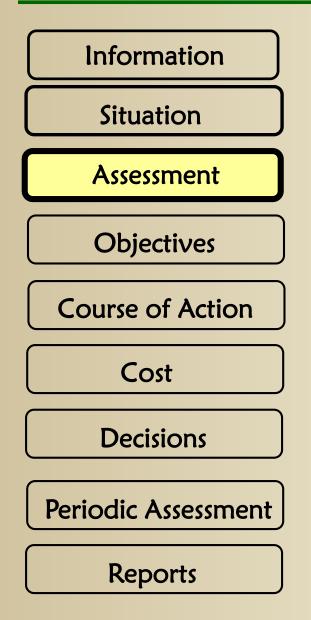
- Risk-informed decision making requires two distinct but linked processes:
  - analysis
  - deliberation.
- •Analysis:
  - rigorous, replicable methods to provide information about factual questions.
  - brings new information into the process informs deliberation.

#### Deliberation:

- discussion, reflection, and persuasion to communicate, raise, and collectively consider issues, increase understanding, and facilitate substantive decisions.
- brings new insights, questions, and problem formulations frames analysis.

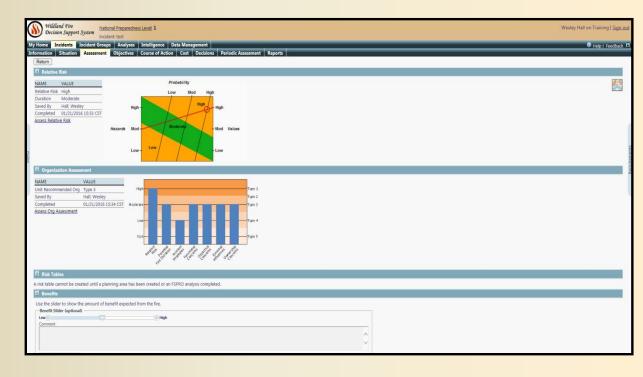


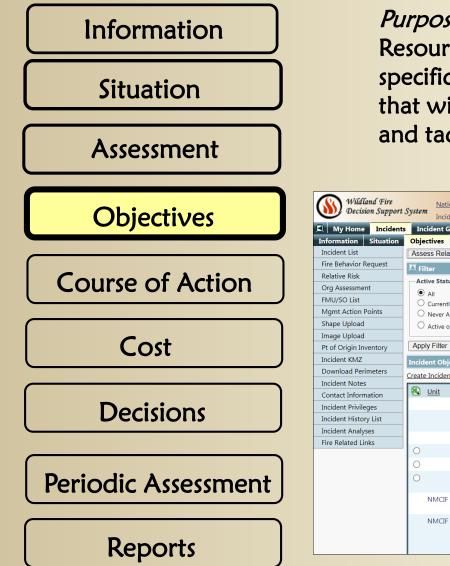




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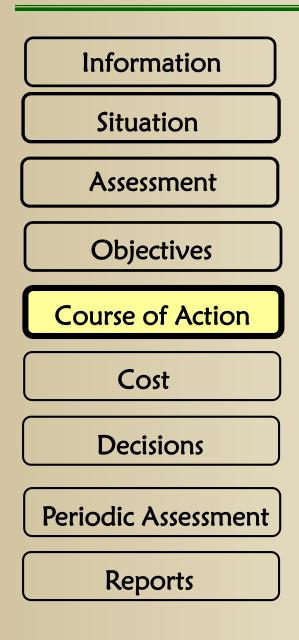
*Purpose:* Provides risk and organization assessment, as well as, potential benefits to support strategic decisions and development of course of action.





*Purpose:* Defines objectives as stated in Land, Resource, and Fire Management Plans and lists specific management and incident requirements that will frame and influence strategic decisions and tactical implementation.

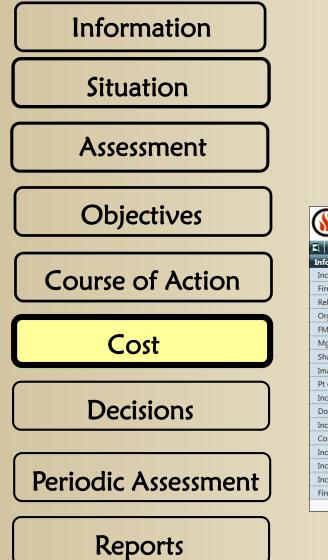
Decision Support	t System	ncident: Main					Skip to Content	
My Home Incident			alyses In	telligence	Data Manage	ment A	dministration	Help   Feedbac
Information Situation		es Course of		ost Decisio		c Assessme		
Incident List		Relative Risk						
Fire Behavior Request	Filter							
Relative Risk								
Org Assessment	Active S	itatus		Objective Typ			Next Decision	
FMU/SO List		ently Active		Incident C	1		No Filter Included	
Mgmt Action Points		er Active		Incident R	1.00		C Excluded	
Shape Upload	O Activ			Strategic (	· ·		Included or Excluded	
Image Upload				🗌 Managem	ent Requiremen	it		
Pt of Origin Inventory	Apply Fil	lter	I					
Incident KMZ	Incident (	Objectives/Requ	uirements fo	or Main				
Download Perimeters		dent Objective			ent			
Incident Notes		,		· ·				
Contact Information	🛛 🐴 Unit	<u>Shape/FMU</u>	·	Activated		Included	Objective/Requiremen	
Incident Privileges			Inc Obj		08/17/2010			sensitive cultural resources.
Incident History List Incident Analyses			Inc Obj	09/29/2009	05/25/2011		Keep public informed Kirtland Air Force Base	about fire status through joint press releases from Sandia RD a a.
Fire Related Links			Inc Obj	09/29/2009	05/25/2011		Provide for firefighter	and public safety.
The Related Links	0		Inc Obj	11/23/2009		Yes	minimize impact to cu	Itural resources.
	0		Inc Req	09/29/2009		Yes	Coordinate fire manag	ement efforts with Kirtland Air Force Base.
	0		Inc Req	09/29/2009		Yes		es must be cleared by Kirtland AFB before tactical engagement round forces can occur.
	NM	CIF	Strat Obj	10/27/2014			Implemented an appro (LRMP; pg 67-1).	opriate management strategy for all fires occurring on the Fore
	NM	CIF	Strat Obj	10/27/2014			prescriptions and pred ignitions to support re	nay be classified as prescribed fires when they meet prescribed letermined resource objectives. Use prescribed fire or plannec source management objectives. Conduct all burning projects v inmize smoke impacts on air quality. (RMP: pg 67-1).



#### Purpose:

- Defines a strategy/course of action for a specific situation. The Strategy slider bar is an optional tool to help explain the overall strategy for an incident.
- Specificity varies with fire complexity and can include a defined planning area, management actions, and resource commitments for the fire duration.
- When the current decision is no longer meeting objectives, it can include a set of actions to be used until a new decision is completed.

Wildland Fire Decision Suppor	r System National Preparedness Level: 1   Sign.or Incident: Deep River Skip to Content
My Home Inciden	ts Incident Groups Analyses Intelligence Data Management Administration 🖤 Help   Feedback
formation Situation	Objectives Course of Action Cost Decisions Periodic Assessment Reports
ncident List	四 Filter
ire Behavior Request	Active Status Next Decision
elative Risk	All No Filter
org Assessment	Currently Active
MU/SO List	O Never Active O Excluded
Igmt Action Points	O Active on Included or Excluded
hape Upload	
nage Upload	Apply Filter
t of Origin Inventory	Action Items for Deep River
cident KMZ	Strategy
ownload Perimeters	Monitor
ncident Notes	Comment
ontact Information	Comment
cident Privileges	
cident History List	
ncident Analyses	· · · · · · · · · · · · · · · · · · ·
ire Related Links	Save Strategy A strategy has not been set for this incident
	Create Action Item
	Activated Deactivated Included Item Description
	O 04/09/2014 Yes Ensure that the management team is following date smoke guidlines and producing road colsures, or assigning traffic control when needed.
	No Follow the planned initial response, the monitoring of the head of the fire and the flanks became compromised du to increased fire activity. Due to this and new course of action is needed to development
	Page 1 of 1 Rows per Page: 20 Edit Include Exclude Delete:

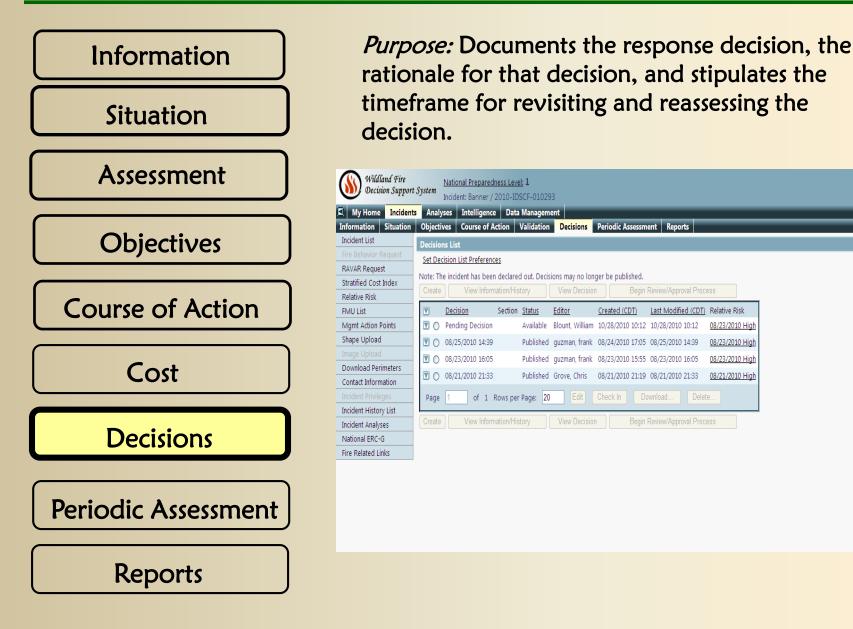


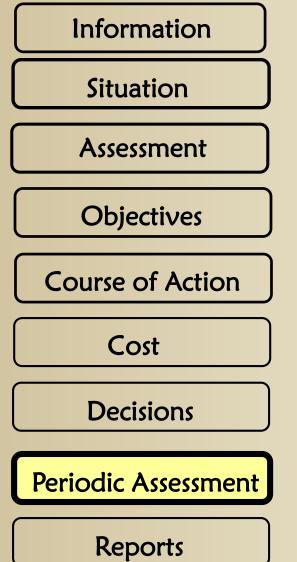
*Purpose:* Documents the Estimated Final Cost for an incident as well as providing Cost Estimation Methods and access to the Stratified Cost Index tool.

Wildland Fire Decision Support 3			paredn ain	ess Le	<u>evel:</u> 1	Skip to Content
🔇 My Home Incidents	Incident Gro	oups	Anal	yses	Intel	ligence Data Management Administration 🕐 Help   Feedback
Information Situation	Objectives	Cours	e of Ac	tion	Cost	Decisions Periodic Assessment Reports
Incident List	Incident Cost					
Fire Behavior Request	Estimated Final (	Cost	-Cort F	ctim	ation Me	*had
Relative Risk	150,000					
Org Assessment	,			CL	] Histor	ic Costs 🔲 ICARS Projection 🗌 Spreadsheet 🗌 Other
FMU/SO List	Save Cost	ĺ	Downlo	oad C	Cost Esti	imator
Mgmt Action Points						
Shape Upload	Stratified Cost					
Image Upload	Stratified Cos	st Inde	ex by P	ercer	itage	
Pt of Origin Inventory	Acres Burned	25%	50%	75%	90%	25 percent of historical fires with similar characteristics had a cost
Incident KMZ	12283	\$1	\$2	\$6	\$17	per acre less than the value displayed in the 25% column of the table.
Download Perimeters	16000	\$0	\$2	\$5	\$16	Likewise, 50, 75, and 90 percent of fires with similar characteristics
Incident Notes	25000	\$0	\$1	\$5	\$14	had a cost per acre less than the values displayed in their respective columns.
Contact Information	40000	\$0	\$1	\$4	<b>\$12</b>	columns.
Incident Privileges	Date Calculated					
Incident History List	02/02/2015					
Incident Analyses	View SCI List					
Fire Related Links						

duction | Sign out

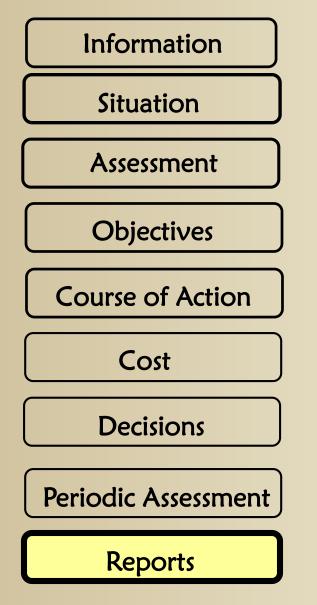
🕑 Help | Feedback 🛛 🗖





*Purpose:* Provides a process to periodically review the current decision, response, and accomplishments to evaluate effectiveness and confirm accuracy or, if needed, indicate progression to a higher response level and associated planning activities.

Wildland Fire Decision Suppor	System National Preparedness Level: 1 Incident: White Fire / 2011-NMN5S-000187	Laurie Kurth on Production   <u>Sign or</u>
🔍 My Home 🛛 Incident	s Analyses Intelligence Data Management	🕑 Help   Feedback
Information Situation	Objectives Course of Action Validation Decisions Periodic Assessment Reports	
Incident List	The current decision is valid.	
	🖾 Periodic Assessment List	
RAVAR Request	Data (CDD) Ananana Antina Community Delative Disk	
Stratified Cost Index	Date (CDT) Approver Action Comments Relative Risk	
Relative Risk	04/08/2011 21:05 Warnack, David Published <u>04/08/2011 High</u>	
FMU List	Periodic Assessment	
Mgmt Action Points	The next assessment is due on or before 04/12/2011	
Shape Upload	4 V Number of days between assessments	
	Send me an email reminder the morning the next assessment is due	
Download Perimeters	Comment (A comment must be entered when a new decision is required)	
Contact Information	Comment (a comment must be enteled when a new decision is required)	
Incident History List		
Incident Analyses	V	
National ERC-G	Are the Incident and Stratenic Objectives being satisfied with the current Course of Action? Yes No	
Fire Related Links		
	Some Things to Consider Is the fire expected to remain within the Planning Area?	
	Is the actual cost of the fire in line with the planned costs in the published decision?	
	Has there been any unexpected fire growth since the last Periodic Assessment?	
	Have additional values been threatened since the decision was published?	
	Have significant resources not identified in the Course of Action been requested?	
	View or Modify the Current Relative Risk	



*Purpose:* Query the WFDSS database to pull information from the decision document. Standard and custom reports are available. MAP report is frequently used to provide information to the field.

My Home Inciden	nts Analyses Intelligence Data Management	😟 Help   Feedbac
nformation Situation	Objectives Course of Action Validation Decisions Periodic Assessment Reports	
ncident List	Report List	
ire Behavior Request	Set Report List Preferences View Full Report	
AVAR Request		
tratified Cost Index	Create View Information/History View Report	
lelative Risk	Report Name Status Editor Owner Type Created (CDT) Last Modified (CDT)	
MU List		
Agmt Action Points	Page 0 of 0 Rows per Page: 20 Edit Check In Publish. Download. Delete.	
hape Upload	Create View Information/History View Report	
nage Upload		
ownload Perimeters		
Contact Information		
cident Privileges		
cident History List		
cident Analyses		
lational ERC-G		
Fire Related Links		



# **Decision Support – Added Value**

- How fire may burn (intensity, spread rates),
- Fuel conditions, departures from average,
- Fire dynamics,
- Fire danger and weather analysis,
- Fire history reviews, area burned, type of past fires,
- Probability of a fire reaching a planning area boundary
- Probability of season-ending event,



# **Decision Support – Added Value**

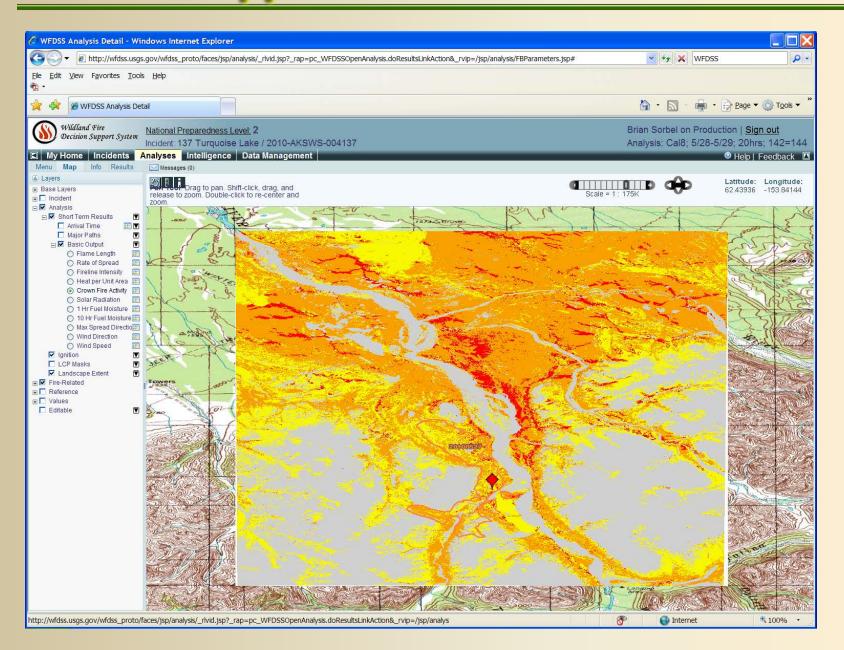
- Indications of where the fire may spread, or total area that may be burned,
- How fast the fire will travel,
- How soon the fire may reach critical locations,
- Potential fire effects,
- Fire duration,
- Probability of fire impacting sensitive areas,
- Projections of values to be protected in the fire area and identification of values,
- Probability of where the fire will spread.

## **Decision Support – Stratified Cost Index**

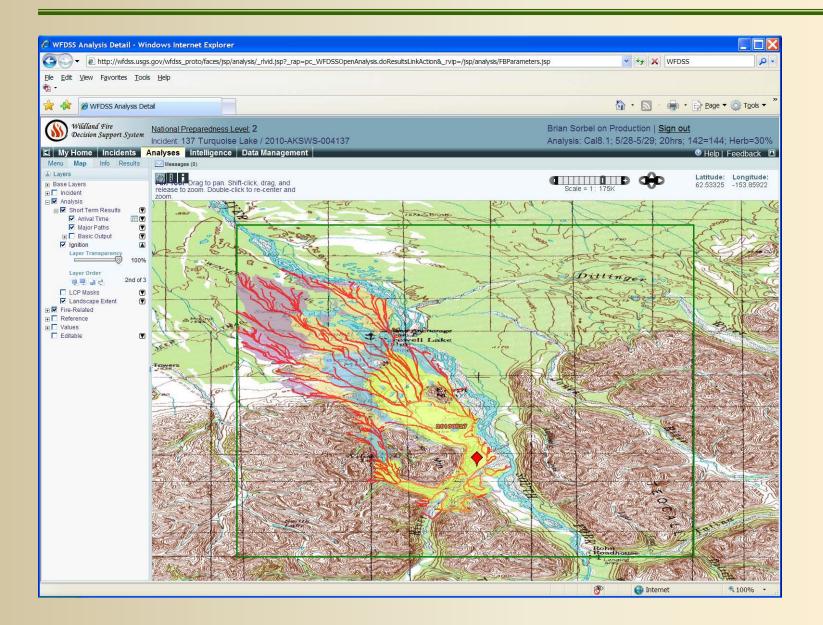
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Wildland Fire Decision Support	National Preparedness Level: 1	<u>Sign out</u>
<u> </u>	Incident: Deep River Skip to Content	
My Home Incident		💿 Help   Feedback 🗵
InformationSituationIncident ListFire Behavior RequestRelative RiskOrg AssessmentFMU/SO ListMgmt Action PointsShape UploadImage UploadPt of Origin InventoryIncident KMZDownload PerimetersIncident NotesContact Information	Objectives       Course of Action       Cost       Decisions       Periodic Assessment       Reports         Image: Sci Results       Stratified Cost Index by Percentage       25% 50% 75% 90%       4006       \$9       \$33       \$127       \$430         10000       \$7       \$27       \$103       \$347       25 percent of historical fires with similar characteristics had a cost per acre less than the value displayed in the 25% column of the table. Likewise, 50, 75, and 90 percent of fires with similar characteristics had a cost per acre less than the values displayed in their respective columns.         20000       \$6       \$23       \$87       \$294         30000       \$5       \$20       \$79       \$267         Accept       Reject       Sci Parameters       Model         test1       Model       NPS Model         Estimated Final Fire Size (acres)       NPS Model	
Incident Privileges Incident History List Incident Analyses Fire Related Links	*Estimate 1 Estimate 2 Estimate 3 Estimate 4 4,006 1000 2000 3000 SCI is NOT valid for fire sizes less than 300 acres. Model Input Parameters Latitude Longitude Ignition Date 26.1769 81.3139 02/21/2014 Aspect Elevation (meters) North $\checkmark$ 0 Fuel Model Housing Value H, R, E, P, U, or G (Timber) $\checkmark$ 1,233,286,016 Save Calculate SCI Return	

## **Decision Support – Basic Fire Behavior**

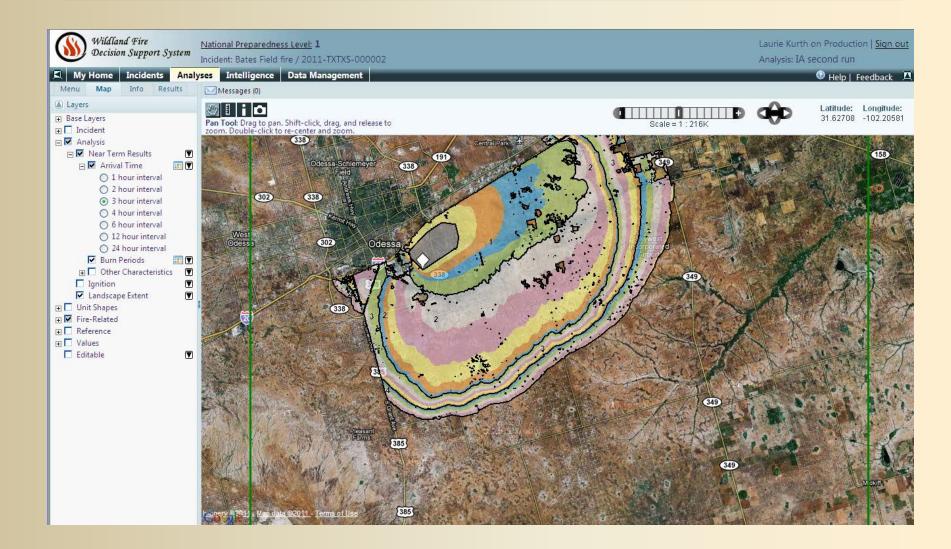


## **Decision Support – Short Term Fire Behavior**



#### **Decision Support – Near Term Fire Behavior**

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#### **Decision Support – Values Inventory**

#### Near Term Analysis Values Inventory

Wildland Fire Decision Support System

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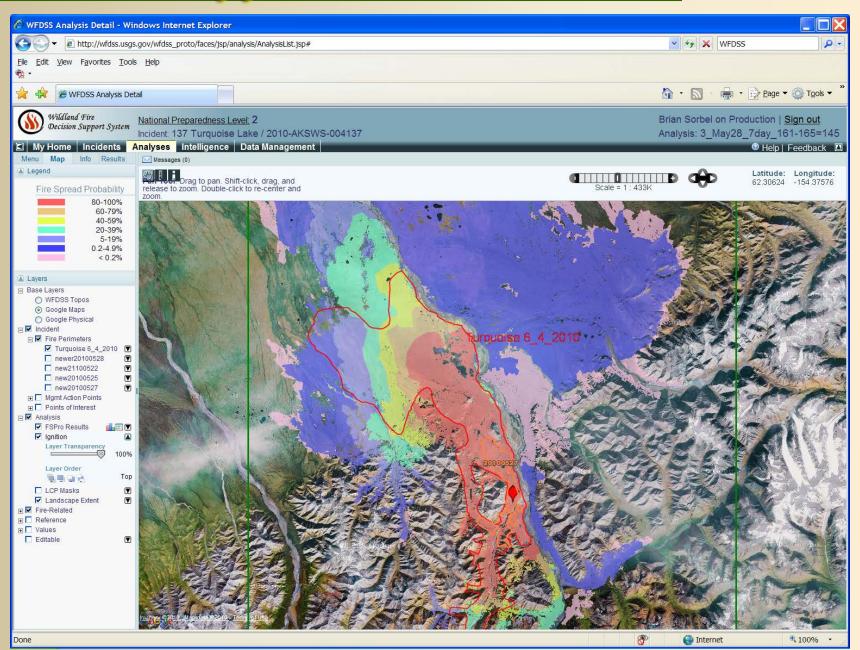
Category	Value	Data Source	Currency	Coverage
Building Clusters: Baxter	no data	US Counties / FGDC Cadastral Subcomm.		Available counties in AZ, CA, CO, ID, MT, NM, NV, OR, UT, WA, WY, No data available for Baxter
County: Baxter	254 acres	Tele Atlas North America, Inc., ESRI	05/11/2010	National
Des Areas: Leatherwood Wilderness	236 acres	FWS, BLM, USFS, Wilderness.net	05/18/2010	National
Roads	0.1 miles	ESRI Data and Maps 2010	2010	National
Surface Mgmt Agency: USFS	254 acres	Various	July 2010	National

#### Currency/Coverage of Values Queried that Produced No Results

Category	Data Source	Currency	Coverage
BLM Buildings	GeoCommunicator / Other Sources	07/21/2010	BLM Lands
BLM Horse and Burro	BLM	11/17/2010	OR, ID, MT, WY, CA, NV, UT, AZ, CO, NM
BLM Oil / Gas Leases	BLM/NOC	Unknown	Western United States
BLM Range Allotments	BLM/NOC	2007	Western United States
Class 1 Airsheds	NPS Air Resources Division	Various	National
Communication Towers	FCC	08/08/2010	National
Electric Power Plants	HSIP	02/2010	National
Electric Sub Stations	HSIP	02/2010	National
Electric Transmission Lines	HSIP	02/2010	National
Habitat	FWS Geospatial Services	01/2011	National
Mines	HSIP	02/2010	National
NPS Buildings	NPS (NISC - Resource Information Services Division)	03/04/2011	National (incomplete)
Oil and Gas Pipelines	HSIP	02/2010	National
Ozone Non-Attainment	EPA	2009	National
Particulates Non-Attainment	EPA	2009	National
Responsible Agency	USFS Region 5 GIS Clearinghouse	02/10/2010	California
Sage Grouse Key Habitat	BLM/NIFC	2009	Regional - OR, WA, ID, MT, ND, SD, NV, UT, CO, CA, WY
Sage Grouse Occupied Habitat	BLM/NOC	2008	Regional - OR, WA, ID, MT, ND, SD, NV, UT, CO, CA, WY
Trails	NPS, USFWS, USFS, appalachiantrail.org	03/08/2011	National
USFS Buildings	USFS-INFRA	02/23/2011	National

Itelp

## **Decision Support - FSPro**



#### **Decision Support – Values at Risk**

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ldress 🔄 http://wfdss.usgs.gov/wf	f 🕙 http://wfdss.usgs.gov - Values at R	tisk - Microsoft Internet Explo	rer provided by USD	A Forest Service					
Wildland Fire Decision Support System	File Edit View Favorites Tools Help								
	Wildland Fire								
Home Incidents Analys	s Decision Support System								
enu Map Info Results	Values at Risk								
] Fire Size (acres)	Values List								
verage Size 3,093	Incident Analysis	Author Analyst							
0th Percentile 6,519 0th Percentile 4,068	,								
Oth Percentile 2,411		phical Area							
th Percentile 1,228	33.3801 108.1923	Southwest							
Oth Percentile 518 argest Fire 12,195		80-100% 60-79%	40-59%	20-39%	5-19%	0.2-4.9%	T		
Histogram	Census Housing Values	\$0 \$0	\$0	\$0	\$0	\$0			
	Habitat: Mexican Spotted Owl	812 acres 878 acres	• • • • • • • • • • • • • • •	2,074 acres	2,699 acres	4,737 acres			
Analysis Details	Jurisdiction: USFS	812 acres 878 acres	s 1,307 acres	2,270 acres	2,969 acres	6,181 acres			
cident Latitude Longitude 3.3801 108.1923							_		
nalysis Start Burn Duration	Currency/Coverage Of Values Repo	orted					-		
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56 fires	Habitat:Mexican Spotted Owl			tat restricted to C					
<u>Vetails</u> <u>Values at Risk</u>	Jurisdiction Census Housing Values	Various U.S. Census Bureau		CA, CO, ID, MT, I onal coverage	NM, NV, OR, OT	, VVA, VV1			
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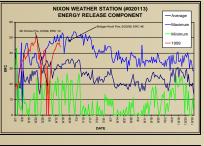


#### WFDSS – User Roles











#### Specific Roles Identified:

- Viewer
- Dispatcher
- Author
- Data Manager
- Geographic Area Editor
- National Editor
- Fire Behavior Specialist
- Help Desk
- Administrator

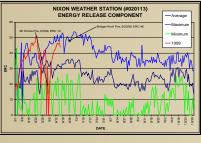


#### WFDSS – User Roles, continued











#### Viewer:

- Is the minimum level of access for all WFDSS users.
- View incident information for all WFDSS incidents and groups.
- Cannot edit.

#### **Dispatcher:**

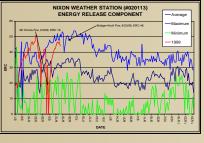
- Enter information for a new WFDSS incident.
- Edit incident information for incidents they create.
- Run simple (unsupervised) fire behavior analyses.











## WFDSS – User Roles, continued



- Enter information for a new WFDSS incident.
- Edit incident information for incidents they create.
- Grant privileges to other users for incidents they have authored.
- Run simple (unsupervised) fire behavior analyses.
- Request an analyst be assigned for fire behavior modeling
- Create a group or complex from individual incidents.

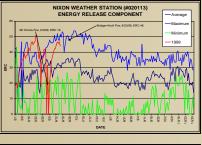














#### Data Manager:

- Enters and maintains strategic objectives / management requirements and Fire Management Unit (FMU) or Strategic Objective (SO) associations for individual agency units
- Manages the Planning Process selected for individual agency units
- Enters and maintains Unit Shapes

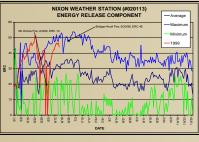












#### **Geographic Area Editor:**

- Edit WFDSS incidents within their geographic area (GACC).
- Request and cancel analyses for WFDSS incidents in their GACC.
- Prioritize analysis requests within their GACC.
- Authorize new Viewer, Author, Dispatcher, and Fire Behavior Specialist roles in their GACC.
- Does not have privileges specific to Fire Behavior Analysts or Administration.

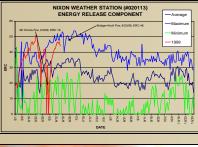














#### **National Editor:**

- Has maximum authority relative to WFDSS incident management.
- Has all the capabilities of a Regional Editor, but at a national level.
- Delete incidents.
- Does not have privileges specific to Fire Model Analysis or Administration.









- Formerly the FSPro Analyst role, but the name change reflects additional fire behavior tools available in WFDSS. Users requesting this role should have previous fire behavior modeling experience, including evaluating and modifying landscape files, historic climate, and forecasted weather.



- Conduct "supervised" fire behavior analyses and modify inputs as needed.
- Accept (or reject) the results of the fire behavior analyses.
- Grant privileges to other analysts for analyses they have created.
- Interpret fire behavior analyses for other users.

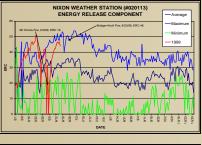


## WFDSS – User Roles











#### Super Analyst: Going Away

- Has maximum analysis authority, provides coaching and training to other analysts.
- Run, edit, and accept all types of analyses.
- Delete analyses.
- Help Desk This role is for the folks at the NIFC HELP DESK

#### Administrator –

• This role is for the system developers



### Summary









- Decision support is markedly important to fire management success and useful at all levels,
- Decision support tools provide a range of information, from subjective to quantitative long-term analyses,
- Decision support tools incorporate science and technology to reduce uncertainty, better understand complexity and risks, help develop management strategies and operational tactics, and define the situation,
- Decision support information does not make decisions, only facilitates them,





## http://wfdss.usgs.gov

# Request your user account now!!

# Questions