



IRWIN

*Data at  
dispatch  
speed.*

# Observer User Guide

Beta Version

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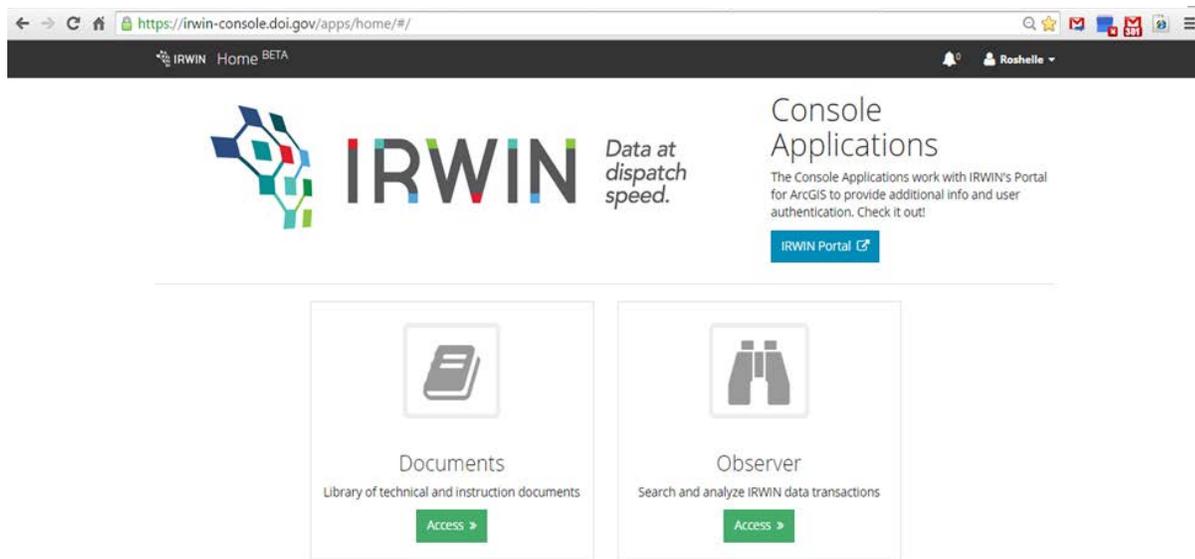
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## IRWIN CONSOLE

The IRWIN Console is a portal with applications that provide tools for users and the Extended Team developers to support the data exchange process. Please see the “Console Getting Started” in the Document application to create an account and request access to Observer.

Observer is currently being released as a beta version. This means the application will continue to mature as we receive feedback over the course of the fire season. This initial release provides a basic tool for searching for specific wildland fire incidents and viewing the data exchange transaction logs. This is particularly valuable for troubleshooting data exchange issues.

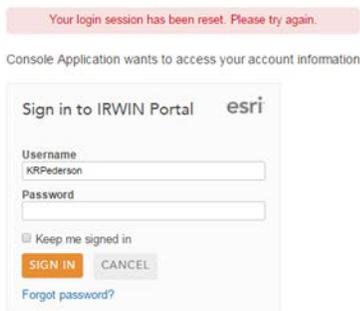
Figure 1- IRWIN Portal Home Page



Once you have created your account and received access to Observer, here are some navigation tips.

## Logging In

Figure 2 - IRWIN Log In



Currently, a user can be logged into Observer for two hours though we are hoping to extend that soon.

Tip: Sometimes when you click SIGN IN, you will get a message saying your login session was reset. Just enter your password again and you should get in. We are working to address this.

# OBSERVER

## Home Page

Observer is located at: <https://irwin-console.doi.gov/apps/observer/#/>

Once you access Observer, the Home page presents an overall picture of activity.

The Default Filter applies to the map and the incident list and shows a rolling 12 hour window based on Discovery Date/Time.

The Incident list displays the most recently modified at the top of the list. The list is restricted to 1,000 incidents.

On the map, click on a circle to zoom in on the incidents. The number in the circle is the number of incidents in the group. The polygon is a random shape based on the location of the incidents in the group.

Figure 3 - Observer Home Page

The screenshot shows the Observer Home Page interface. At the top, there is a navigation bar with the following items: IRWIN Observer BETA, HOME, FEED, SEARCH, INCIDENT DETAILS, and COMPLEX DETAILS. The user's name, Roshelle, is displayed in the top right corner. Below the navigation bar, the page title is "HOME Applied filter: Default".

On the left side, there is a table titled "Incidents 124 total". The table has the following columns: IncidentName, Created By, Last Modified By, and Last Modified On. The table lists several incidents, including Poplar, Bolgen Creek, Roosa Gap, CIRCLE, Stuart Inert 2, Stuart Inert, SQUARE, ELLISON, and MUD LAKE. Each incident row has a red flame icon and a magnifying glass icon. A red arrow points from the "Last Modified On" column to the magnifying glass icon for the "Poplar" incident.

On the right side, there is a map of the United States. A red circle with the number "14" is located in the Pacific Northwest region. A red arrow points from this circle to a zoomed-in map of Oregon. The zoomed-in map shows several incident locations marked with red circles and red flames: "RECEPTION CREEK", "BAILEY B...", "BALD SISTERS", and "SNAG CANYON". A red arrow points from the "RECEPTION CREEK" incident name in the table to its location on the zoomed-in map.

Click on the red marker with a flame to zoom to the incident on the map

Click on the incident name on the map or the flame icon in the table to open the incident record detail

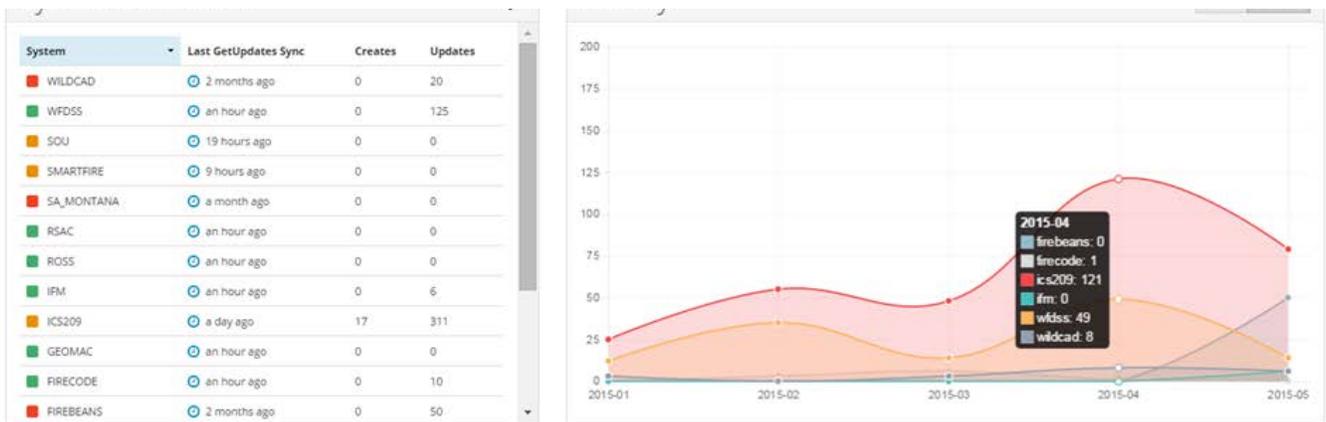
## System Stats

The System Stats provides a list of applications writing or reading data from IRWIN. The intention for this section is to provide applications and users some quick information on connectivity. For example, if an application was red, users would know there was a connectivity issue that could explain why an incident wasn't showing up as expected.

However, this is an area we need to continue to develop. The stoplight color code indicates if the application has polled IRWIN for an update recently or not. Applications poll IRWIN for updates at different rates. Some applications only get updates once a day. WildCAD only writes to IRWIN, it doesn't currently read (or get updates) so only reporting if an application called a single method doesn't get us quite where we want to be.

Expect to see this area continue to evolve or be replaced if appropriate.

Figure 4 - Observer Home Page Continued



The Activity graph shows the number of incidents created by application for the selected time frequency. Again, this is a section that is fairly conceptual. The intent is to be able to provide a sense of which applications are used most often to create incident records or the activity levels.

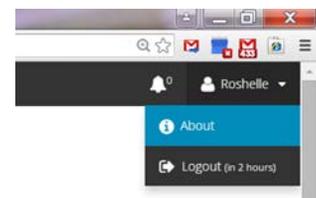
This specific example does reflect the implementation of WildCAD 6.0 as we can see the number of records created in FireCode coming down and the number of records created by WildCAD moving up.

We would really like to hear from you on the usefulness of the home page. Remember this is a beta version and we'd like this to be a good tool for you.

## About Observer

In the upper right hand corner is an Icon with your login name. If you click on the down arrow next to your name, information about Observer is made available.

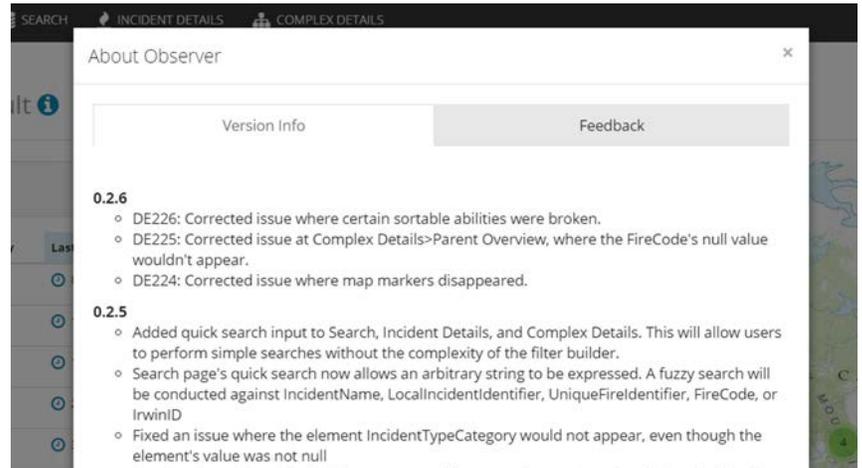
Figure 5 - About Observer Menu



## Version Information

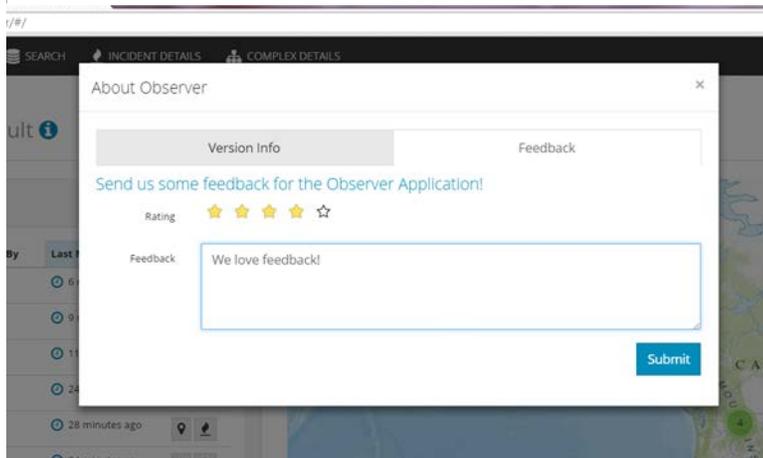
This provides a list of updates and fixes to Observer for each version release.

Figure 6 - Observer Version Log



## Feedback

Figure 7 - Feedback



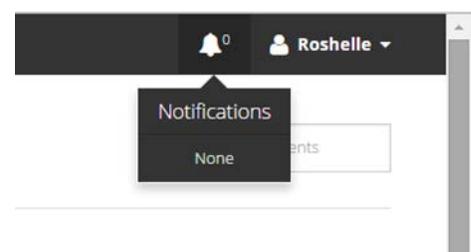
The Feedback tab allows you to provide comments or make suggestions for changes. Your feedback will be reviewed and changes considered as part of the IRWIN project management process. The Feedback tool tracks which page you are on when you submit the feedback. We may contact you if we have questions.

## Notifications

The notifications feature is used to pass information on to the user. Initially, you will only see notifications when your request for Observer Access is approved (or denied...).

We are exploring some messaging capabilities based on customizable criteria – like letting you flag incidents you are interested in and then notifying you when there is an update to the record. Again, this is pretty conceptual at this point but your feedback can help determine how actively we pursue this type of capability.

Figure 8 - Notifications



# SEARCH

## Quick Search

From the Search Page, the Quick Search feature is available in the upper right hand corner next to the Filter Icon. The Quick Search allows you to search on a variety of criteria without going through the filter tool. This is really handy when searching for a FireCode or an Incident by Name.

Figure 9 - Quick Search



Available search criteria are:

Incident Name, Local Incident Identifier, Unique Fire Identifier, FireCode or IRWIN ID

Criteria entered in the Quick Search box are filtered using a “like” criteria which means if you type in “son” you will get “Johnson Lake”, “Eielson Road”, etc. so the more specific you are the fewer records will be returned. However, this is great if you don’t know exactly how a word was spelled.

## Filter and Favorites

Observer allows you to create a filter to view incident data. If you want to use the filter more than once, you can save it as a favorite. Favorites are shared between the Home and Search tabs.

Figure 10 - Filter Page Options

The Default filter is all incidents with a Discovery Date/Time in the last 12 hours.

To create a new filter, click on the funnel icon in the upper right corner.

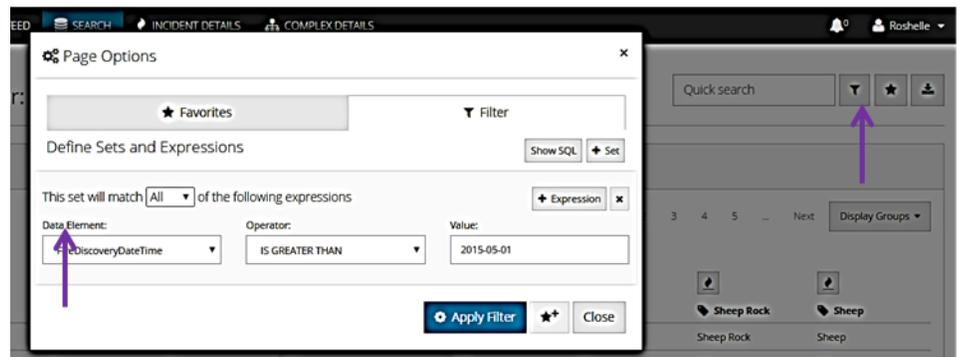
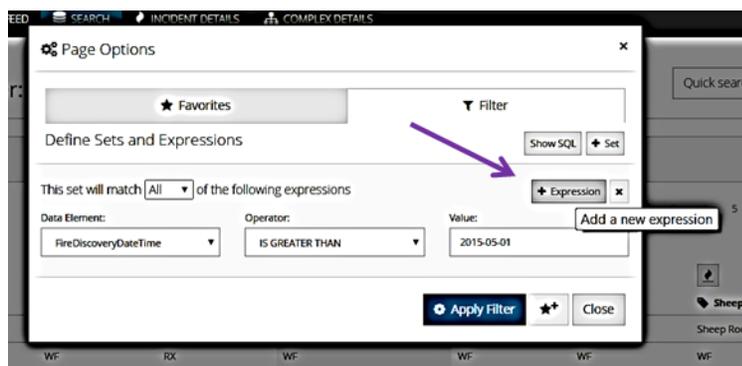


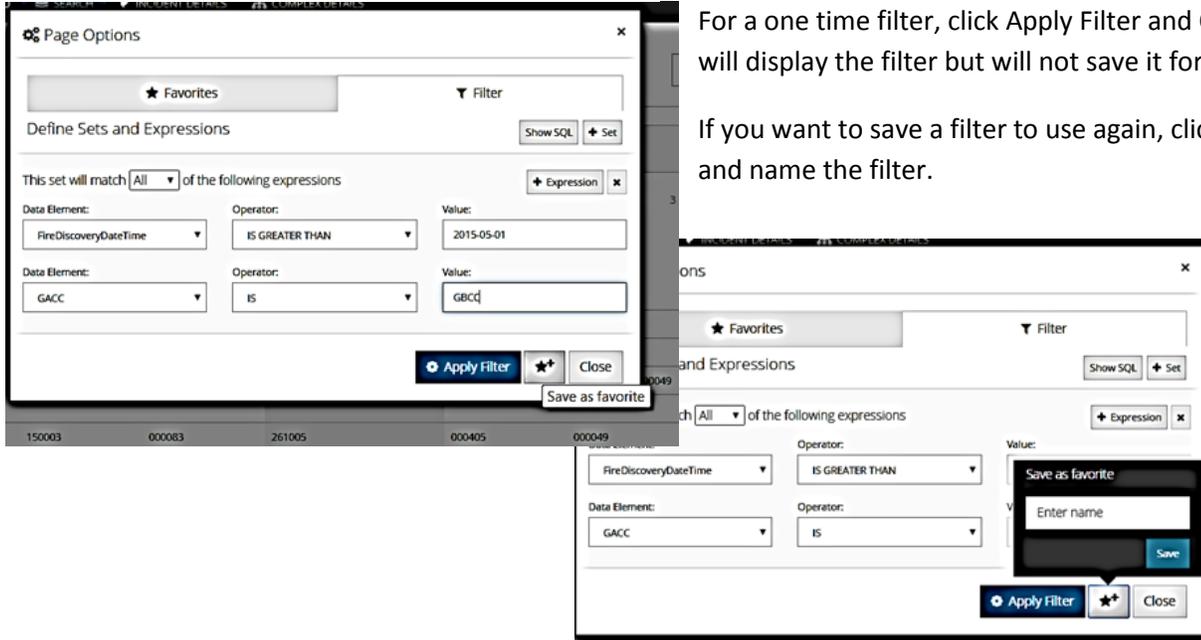
Figure 11 - Add Filter Expression

All Data Elements in IRWIN are available for filter criteria.



Select “+Expression” to add criteria to the filter.

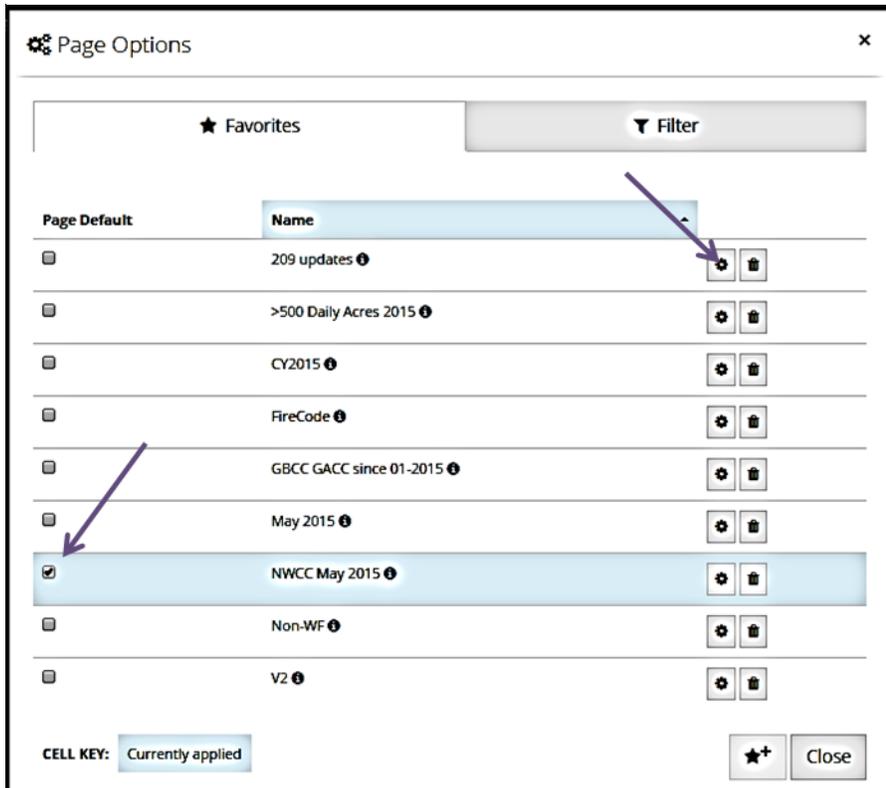
Figure 12 - Apply Filter



For a one time filter, click Apply Filter and Close. This will display the filter but will not save it for future use.

If you want to save a filter to use again, click the Star and name the filter.

Figure 13 - Favorites List



There is no limit to the number of Favorites you can have.

To move from one favorite to another, simply check the box next to the filter and click on the Gear to apply.

To return to the default, unclick a favorite, return to the Filter tab and hit Close. You might have to repeat this to get the previous filter to clear.

**TIP:** Always apply some kind of time box or you will get all incidents that meet the other criteria since IRWIN went live in May 2014.

**NOTE:** Currently there is not a way to filter on a rolling time frame, i.e.

“everything in the last 30 days”. We are working to find an easy way for users to create this.

## Display Search Results

Once a Filter or Favorite is applied, Incidents that meet the criteria will be displayed.

Figure 14 - Display Search Results




SEARCH Applied filter: May 2015 

Quick search





Incidents 698 total

Previous
1
2 3 4 5 ... Next

Display Groups 

Data Elements	 ESP	 PHISTER	 C 139 FM	 RIVER FIRE SUPPRESSION ORDER	 RL 405	 BUFFALO	 Sheep Rock	 Sheep
IncidentName	ESP	PHISTER	C 139 FM	RIVER FIRE SUPPRESSION ORDER	RL 405	BUFFALO	Sheep Rock	Sheep
IncidentTypeCategory	WF	WF	RX	WF	WF	WF	WF	WF
uniqueFireIdentifier	2015-MTCRA-000050	2015-WYBTF-150003	2015-SCFMF-000083	2015-MNMNS-261005	2015-MNRLA-000405	2015-MTCRA-000049	2015-COPSF-000469	2015-COPSF-000471
IncidentShortDescription								
localIncidentIdentifier	000050	150003	000083	261005	000405	000049	000469	000471
fireCode	JPE5	JPF0		JPHD	JPE3	JPE4		
isComplex	false	false	false	false	false	false	false	false
IncidentCommanderName			Benton					
dispatchCenterId			SCSCC 					

Depending on the Filter criteria, there may be several pages of incidents. Select the page number or Next/Previous to move between the pages of incidents displayed.

The data elements displayed are ones that have been created or edited for at least one incident in the list of incidents. Not all data is populated for all incidents so there may be null or blank fields for any individual incident.

Figure 15 - Select Incident

### Select Incident

To select an Incident from the list, click on the Flame button.

The transaction history of the incident will be displayed. Again, there may be multiple pages of transactions for the record.

Data Elements	 ESP	 PHISTER	 C 139 FM
IncidentName	ESP	PHISTER	C 139 FM
IncidentTypeCategory	WF	WF	RX
uniqueFireIdentifier	2015-MTCRA-000050	2015-WYBTF-150003	2015-SCFMF-000083
IncidentShortDescription			
localIncidentIdentifier	000050	150003	000083
fireCode	JPE5	JPF0	
isComplex	false	false	false
IncidentCommanderName			Benton
dispatchCenterId			SCSCC 

## INCIDENT DETAILS

Once an incident is selected from the Search list or Map view, the Incident Detail is displayed.

The Incident Detail is a transaction log of all data exchange that has occurred for this incident record.

Figure 16 - Incident Details Current Overview

IDENTIFIERS	
Incident Name	Getnuna Creek
Unique Fire Identifier	2015-AKSW5-504221
FireCode	JR88
ABCDMisc	---
Inwid	1F0FCSA1-65AB-47D5-90A4-883ACB02A787

SYNC	
Created By System	IFM
Created On Datetime	16 hours ago
Last Modified By System	IFM
Last Modified On Datetime	8 hours ago

STATE	
Open for updates	true
In Conflict	false
Complex Hierarchy	---

STATS	
Total Updates	7
Participating Systems	IFM, FIRECODE
Total Resource Types	0

### Current Overview

At the top of the Incident Details page, a Current Overview is provided, including a map with the location of the incident based on the latest Lat/Long provided.

#### Identifiers:

The Identifiers table shows data elements that are unique to this incident.

#### State:

Indicates the state of several factors directly related to the record.

#### Open for updates:

True indicates the record is in an active data exchange state.

False means it has been determined that this is not the correct record for this incident or that it is not a valid incident. This may be because it was an accidental duplicate.

#### In Conflict:

True indicates this record is potentially a duplicate of an existing incident record in IRWIN. Only CAD applications can edit this flag. A record is potentially a conflict if it meets the following criteria:

- 1) The Point of Origin is within ½ mile of another Point of Origin AND
- 2) The Discovery Date/Time is within 6 hours of the Discovery Date/Time of the same incident AND

3) The incident was submitted from a different dispatch center.

Criteria 1 & 2 target potential duplicates. Criteria #3 is intended to avoid creating potential duplicates in the CAD in a dispatch center when multiple ignitions occur close to one another – like a lightning bust.

Allowing CADs to indicate an incident is a potential duplicate allows the data exchange for the incident to occur, i.e. a dispatcher can get a FireCode for a duplicate. This also allows other applications to handle potential duplicates differently. While FireCode will accept a record that is a potential duplicate, WFDSS and ICS 209 will not. EGP will display it but identifies it as a potential duplicate.

There are two ways for potential duplicates to be resolved.

- 1) One center assumes “ownership” of the incident record and the other record becomes a support action record rather than a wildfire record.
- 2) It is determined that the two incidents are actually unique and both centers manage the record accordingly.

Various CADs handle the conflict resolution process differently. Please work with your CAD system’s user representative if you have questions. (See Appendix B for POCs)

### **Complex Hierarchy**

This is a place holder at this time. The intent to provide information about the incident as it relates to being a Complex Parent or an incident in a Complex.

### **Sync**

The Sync table shows the date, time and application that created and last updated the record.

### **Stats**

The Stats table displays the total number of transactions that have occurred for that incident record and the applications that have provided updates.

The Resources is a count of the types of resources by agency from the ICS 209 Resource Summary table.

### **Details**

The Details of the Incident Record is displayed like a spreadsheet.

The rows down the left indicate the Current Authoritative Data Source and the Data Element name.

Each transaction is recorded as a column in the table. In each column header, the application making the update is displayed along with two time stamps. The time on the left is how long ago the transaction occurred and changes over time. The time on the right is the elapsed time between the current transaction and the previous transaction. This time does not change.

Within the table itself, the edits or updates made in that transaction are highlighted blue or green and have an arrow indicating the change from the previous transaction record.

## Update History

Select the Update History tab in the upper right corner of the Details page to display the transactions for the Incident Record.

Figure 17 - Display Incident Transaction Details

The screenshot shows the IRWIN Observer BETA interface. At the top, there are navigation tabs: HOME, FEED, SEARCH, INCIDENT DETAILS (selected), and COMPLEX DETAILS. Below the navigation, there are filters for 'in Conflict' (false) and 'Total Resource Types' (4). The main content area is titled 'Details' and has two tabs: 'Update History (23)' (selected) and 'Resources (4)'. A 'CELL KEY' indicates 'Directly updated' (blue) and 'IRWIN calculated' (green). A timeline shows updates from 'Present' (1) to 'Past' (5). The table below shows incident data for 'Getmuna Creek' with columns for 'Current ADS', 'Data Elements', and a timeline of updates.

Current ADS	Data Elements	ICS209 2 days ago 44.5 seconds	ICS209 2 days ago 16.9 seconds	ICS209 2 days ago 3.9 hours	IFM 3 days ago 10.0 seconds	IFM 3 days ago 7.5 hours
IFM	incidentName	Getmuna Creek	Getmuna Creek	Getmuna Creek	Getmuna Creek	Getmuna Creek
IFM	incidentTypeCategory	WF	WF	WF	WF	WF
IRWIN	uniqueFireIdentifier	2015-AKSW5-504221	2015-AKSW5-504221	2015-AKSW5-504221	2015-AKSW5-504221	2015-AKSW5-504221
IFM	localIncidentIdentifier	504221	504221	504221	504221	504221
FIRECODE	fireCode	JRBB	JRBB	JRBB	JRBB	JRBB
IFM	isComplex	false	false	false	false	false
IFM	incidentCommanderName	Wolff, Jake	Wolff, Jake	Wolff, Jake	Wolff, Jake	Wolff, Jake

## Resources

Select the Resources tab in the upper right corner of the Details page to display the most recent resource summary data from the ICS 209. This data is overwritten with each update so only the latest is displayed, there is not transaction history for resource summary displayed. We do have this in our logs but have not invested a lot of time on resources pending the updates to ROSS.

## Current ADS

The Current ADS in the far left column of the Details table indicates which application has “ownership” of the data element. This is where the data can be edited or, using the ADS Matrix in Appendix A, one could identify other applications that are more authoritative and can “take ownership” of the data and edit it.

Where IRWIN is identified in the ADS, we have derived the information from an authoritative source, like the US Census data for State, County and County FIPS code or the NICC GACC Boundary Layer for the GACC. We also create the Unique Fire Identifier based on the NWCG data standard.

## Display Groups

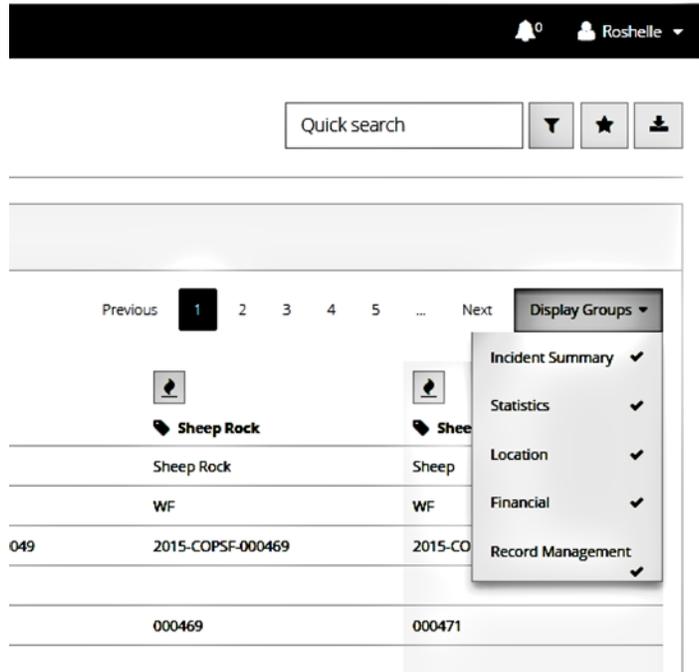
Display Groups allow users to control the data elements that are displayed. IRWIN currently collects about 80 data elements so the intent of this feature is to allow the user to reduce the list to smaller groups if they like.

Users can select one or more groups.

The selection will “stick” from session to session until the user changes it.

The Display Groups apply both to the Search list and the Incident Detail.

Figure 18 - Display Groups Feature



### Data elements in each Display Group:

#### *Incident Summary Display Group – Default*

Incident Name	POO Jurisdictional Unit
Incident Type Category	POO Incident Jurisdictional Agency
Unique Fire Identifier	POO Protecting Unit
Incident Short Description	Fire Cause
Local Incident Identifier	Fire Mgmt Complexity
FireCode	Total Incident Personnel
ABCD Misc	Daily Acres
IsComplex	Calculated Acres
Incident Commander Name	Containment Date/Time
Dispatch Center ID	Control Date/Time
GACC	Fire Out Date/Time
Fire Discovery Date/Time	Final Acres
POO Latitude	ICS209 Report Date/Time
POO Longitude	ICS209 Report Status

### *Statistics Display Group*

Discovery Acres  
Initial Fire Strategy  
Incident Management Organization  
Percent Perimeter to be Contained  
Percent Contained  
Estimated Containment Date  
Fatalities  
Injuries  
Residences Destroyed

Residence Threatened  
Other Structures Destroyed  
Significant Events  
Weather Concerns  
Projected Incident Activity  
Planned Actions  
ICS209 Remarks  
ICS 209 Report for Time Period: FROM  
ICS 209 Report for Time Period: TO

### *Location Display Group*

Initial Latitude  
Initial Longitude  
POO State  
POO County  
POO Landowner Kind  
POO FIPS  
POO City

POO Legal Desc Qrt  
POO Legal Desc Range  
POO Legal Desc Section  
POO Legal Desc Township  
POO Legal Desc Principal Meridian  
POO Primary Fuel Model

### *Financial Display Group*

FS Job Code  
FS Override Code  
IS FS Assisted  
Is Multijurisdictional

Is Trespass  
Is Reimbursable  
Estimated Cost to Date

### *Record Management Display Group*

Irwin ID  
Complex Parent Irwin ID  
Incident Type Kind  
FireCode Requested  
In Conflict  
Conflict Parent Irwin ID  
Is Active

ADS Permission State  
Unit ID Validation  
Record Source  
Created By System  
Created On Date/Time  
Modified By System  
Modified On Date/Time

## IN APP TOOLS

Observer has some features to help make better sense of the data. These primarily provide expanded or reference data for the filter or data element it is associated with.

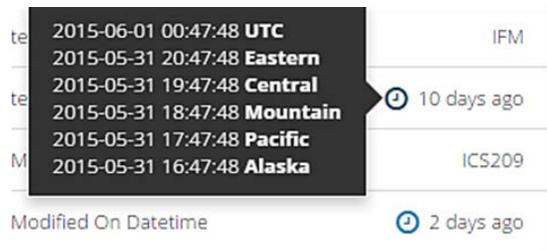
### Blue Clock

All time in IRWIN is UTC. Applications convert all time to UTC

when they give it to IRWIN and IRWIN only shares UTC time based on the NWCG data standard.

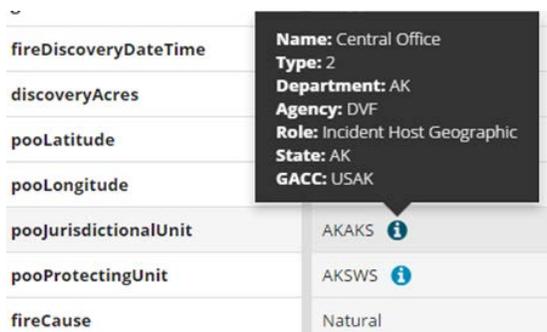
Clicking on the blue clock will display the UTC time converted to all time zones. Click on the clock again to close the time zone display.

Figure 19 - Blue Clock Feature



### Blue “i”

Figure 20 - Blue “i” Feature – Unit ID



Clicking on the Blue “i” will display different information depending on where you are. Some examples include:

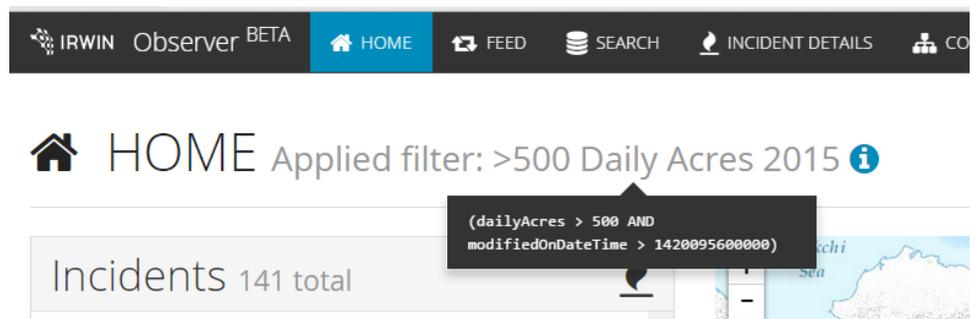
Unit IDs in IRWIN are displayed as the code itself. If you want more information, click on the Blue “i” to see additional attributes from the WFMI Unit ID database which is the System of Record for NWCG Unit IDs.

Click the Blue “i” again to close the Unit ID display.

Figure 21 - Blue “i” Feature - Applied Filter

Clicking the Blue “i” next to the filter displays the current filter criteria.

Click the Blue “i” again to close the criteria display.



## Appendix A – IRWIN ADS Matrix as of 6/10/2015

### Legend:

**Bold** – Required to create an incident record in IRWIN

**Bold Italic** – Additional data required from CADs only to create an incident record in IRWIN

R – The application is mapped to read but not edit the data element

### ADS Hierarchy:

1 – The most authoritative, no other application can overwrite the data created or updated by CADs

2-4 The lower the number, the more authoritative an application is. For Example, FireCode could create a record and, as long as no other application edits a data element, FireCode can continue to update the data element. However, once WFDSS edits a common data element (like Incident Name), WFDSS takes “ownership” of the data element and FireCode can’t edit it any more. If FireCode still “owns” the Fire Discovery Data & Time, it can be update in FireCode.

IRWIN Data Element	CAD Wildcad	CAD IFM	CAD Dispatch Tracker	CAD Fire Beans	ICS 209	WFDSS	Fire Code	EGP Read Only	ROSS Read Only	eISuite Read Only
IrwinID	R	R	R	R	R	R	R	R		R
UniqueFireIdentifier	R	R	R	R	R	R	R	R	R	R
<b>FireDiscoveryDateTime</b>	1	1	1	1	2	2	4	R	R	R
<b>POOProtectingUnit</b>	1	1	1	1	2	2	4	R	R	R
<b>LocalIncidentIdentifier</b>	1	1	1	1	2	2	4	R	R	R
<b>DispatchCenterID</b>	1	1	1	1					R	
<b>IncidentName</b>	1	1	1	1	2	2	4	R	R	R
<b>FireCause</b>	1	1	1	1	2	2		R		
<b>IncidentTypeKind</b>	1	1	1	1	2	2	4	R		
<b>IncidentTypeCategory</b>	1	1	1	1	2	2	4	R	R	R
<b>InitialLatitude</b>	1	1	1	1						
<b>InitialLongitude</b>	1	1	1	1						
DiscoveryAcres	1	1	1	1		2				
<b>POOLatitude</b>	1	1	1	1	2	2	4	R	R	
<b>POOLongitude</b>	1	1	1	1	2	2	4	R	R	
Shape	R	R	R	R	R	R	R	R		
GACC	R	R	R	R	R	R	R	R		
POOJurisdictionalUnit		1	1	1	3	2		R		
POOIncidentJurisdictionalAgency	1	1	1	1	R	R		R		
POOState		R	R	R	R	R		R		
POOCounty		R	R	R	R					
POOFips		R	R	R	R					
POOLandownerKind		1	R	1	3	2	4			

IRWIN Data Element	CAD Wildcad	CAD IFM	CAD Dispatch Tracker	CAD Fire Beans	ICS 209	WFDSS	Fire Code	EGP Read Only	ROSS Read Only	eISuite Read Only
POOLandownerCategory		1		1		2	4			
InitialResponseAcres	1	1		1				R		
InitialFireStrategy	1	1		1						
<b>FirecodeRequested</b>	1	1	1	1			1			
FireCode	R	R	R	R	R	R	1		R	R
ABCDMisc	1	1	1	1	R	R				R
FSJobCode	1		1			R			R	R
FSOverrideCode	1		1			R			R	R
IsComplex	1	1		1	1	R	1	R		R
ComplexParentIrwinID	1	1		1	1	R	1	R		R
IsFSAssisted	1	1	1	1			1			
IsMultiJurisdictional	1		1	1			1			
IsTrespass	1		1	1			1			
IsReimbursable	1	1	1	1			1			
DailyAcres	1	2	1	1	2	2		R		
CalculatedAcres		R		R	R	2		R		
TotalIncidentPersonnel		2		1	2			R		
FireMgmtComplexity		2	1	1	2			R		
IncidentCommanderName	1	2	1	1	2			R		
IncidentManagementOrganization					2			R		
Fatalities			1		2					
Injuries			1		2					
ResidencesDestroyed		2	1	1	2					
ResidencesThreatened		2	1	1	2					
OtherStructuresDestroyed		2	1		2					
OtherStructuresThreatened		2	1		2			R		
EstimatedCostToDate				1	2	R		R		
EstimatedContainmentDate			1		2			R		
PercentContained			1		2			R		
PercentPerimeterToBeContained					1			R		
IncidentShortDescription					1			R		
SignificantEvents					1			R		
POOPrimaryFuelModel					1			R		
WeatherConcerns					1			R		
ProjectedIncidentActivity					1			R		
PlannedActions					1			R		
ICS209Remarks					1			R		
ICS209ReportForTimePeriodFrom					1			R		
ICS209ReportForTimePeriodTo					1			R		
POOCity					1			R		
POOLegalDescQtrQtr					1			R		
POOLegalDescQtrQtr					1			R		

IRWIN Data Element	CAD Wildcad	CAD IFM	CAD Dispatch Tracker	CAD Fire Beans	ICS 209	WFDSS	Fire Code	EGP Read Only	ROSS Read Only	eISuite Read Only
POOLegalDescRange					1			R		
POOLegalDescSection					1			R		
POOLegalDescTownship					1			R		
POOLegalDescPrincipalMeridian					1			R		
ICS209ReportDateTime					1			R		
ICS209ReportStatus					1			R		
ContainmentDateTime	1	1	1	1		2				
ControlDateTime	1	1	1	1		2				
FireOutDateTime	1	1	1	1		2				
FinalAcres	1	1	1	1	2			R		
InConflict	1	1	1	1	R			R	R	
ConflictParentIrwinID	1	1	1	1					R	
IsActive	1	1	1	1	2	2	4	R	R	R
ADSPermissionState	1	1	1	1	R	R	R	R		
UnitIDValidation	R	R	R	R	R	R	R	R		
RecordSource	R	R	R	R	R	R	R	R	R	R
CreatedBySystem	R	R	R	R	R	R	R	R		R
CreatedOnDateTime	R	R	R	R	R	R	R	R		R
MofifiedBySystem	R	R	R	R	R	R	R	R	R	R
ModifiedOnDateTime	R	R	R	R	R	R	R	R	R	R

## Appendix B – IRWIN Extended Team Application Points of Contact

Application	POC Role	Name	E-mail	Phone
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ROSS	ROSS Business Lead Alternate	Bill Fletcher	<a href="mailto:wfletche@blm.gov">wfletche@blm.gov</a>	208-387-5400
e-ISuite	e-ISuite Technical Lead	Donna Tate	<a href="mailto:dtate@fs.fed.us">dtate@fs.fed.us</a>	530-559-1100
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### Additional IRWIN Information

IRWIN Website - <http://www.forestsandrangelands.gov/WFIT/applications/IRWIN>

“IRWIN Project” Wildland Fire Lessons Learned Site - <http://www.wildfirelessons.net/communities>