



IRWIN

# IRWIN Observer User Guide

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IRWIN Version	6.0

## About IRWIN Observer

IRWIN Observer is a read-only web application designed for viewing data that is being shared through the Integrated Reporting of Wildland-Fire Information (IRWIN) integration services. Access to this application is granted through the GeoPlatform ArcGIS Online Organization.

Observer provides current and transactional views of incident and resource data being shared by partners within the wildland fire community. This data provides the location of existing fires, size, conditions and several other attributes that help classify fires.

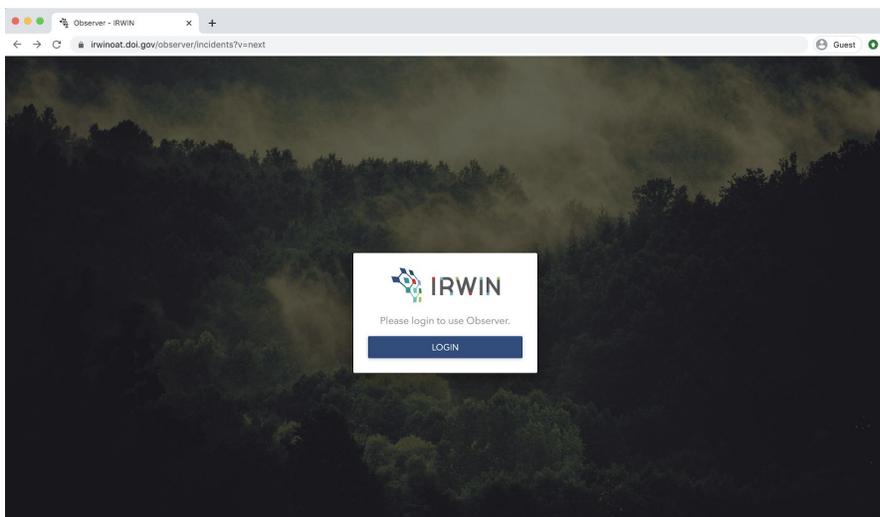
## Accessing IRWIN Observer

Steps to Log In via GeoPlatform.gov

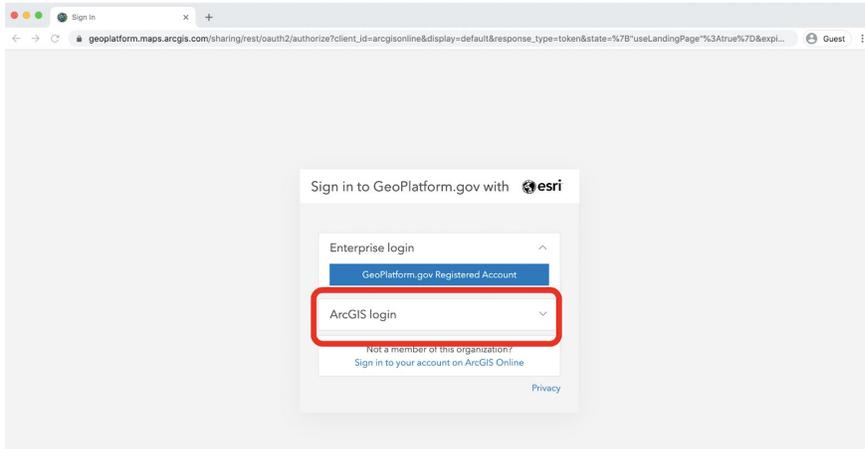
If you already have an ArcGIS account, and are a member of the GeoPlatform organization, navigate to <https://geoplatform.maps.arcgis.com> and sign in.

If you are not a member of the GeoPlatform organization or do not have an account, email the GeoPlatform Service Desk ([servicedesk@geoplatform.gov](mailto:servicedesk@geoplatform.gov)) and request an account.

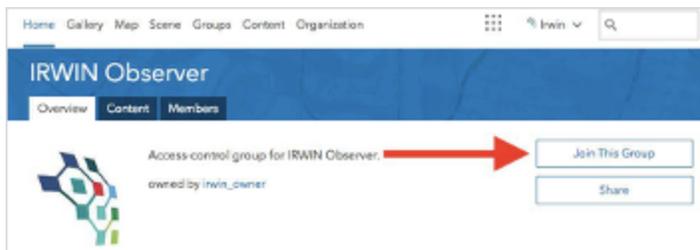
1. Once you have a GeoPlatform ArcGIS account, navigate to <https://geoplatform.maps.arcgis.com> and click LOGIN.



2. There are two options to log into the GeoPlatform account. You must select ArcGIS Login.



3. If you are not a member of the IRWIN Observer group, you must Request access:
  - a. Navigate here:  
[https://geoplatform.maps.arcgis.com/home/group.html?id=d87bb84373524bc5a753173060bcb\\_69f](https://geoplatform.maps.arcgis.com/home/group.html?id=d87bb84373524bc5a753173060bcb_69f)
  - b. Click “Join this Group”.



Observer should be accessible within 24 – 48 hours from the time of your request. You will not be notified when your request has been processed, periodically check to see if access has been granted.

Observer will point you to the “next” IRWIN API, by adding “v=next” as a URL parameter. IRWIN “Next” URL: <https://irwinoat.doi.gov/observer?v=next>. Saving this as a bookmark will provide easy access in the future.

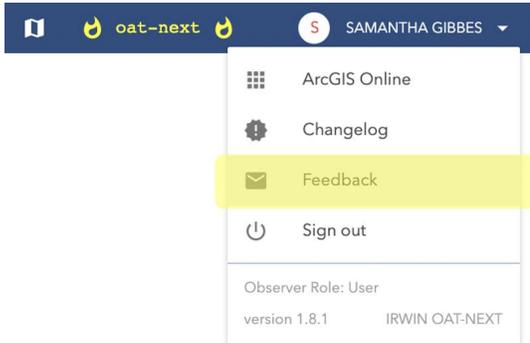
## Basic Features of IRWIN Observer

### Browser Tips

- Ensure that your browser TLS 1.2 setting is enabled as that is the security protocol used by IRWIN Observer.
- Observer performs best on Google Chrome, but is compatible with other browsers such as Internet Explorer 11.

## Provide Feedback

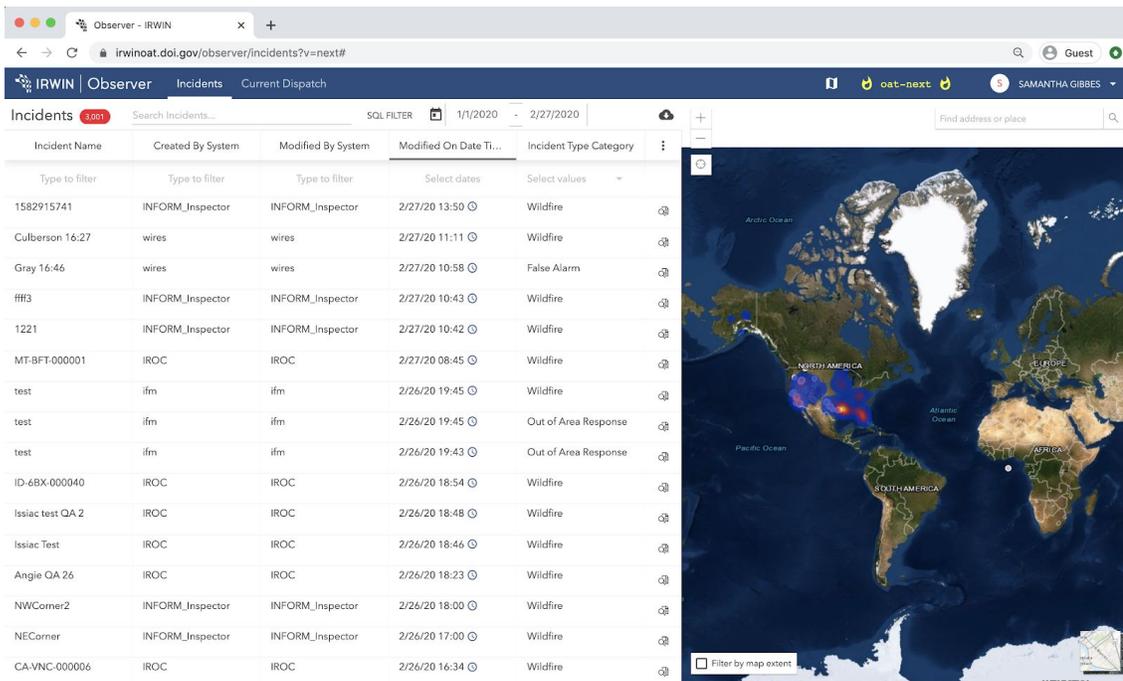
To provide feedback to the IRWIN Team, click the down arrow next to your name in the upper right-hand corner of the screen and select “Feedback”.



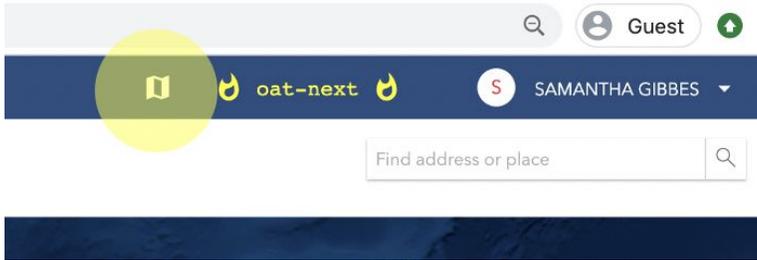
If you receive a pop-up asking if you would like the website to open a program on your computer, select “Allow”. In your email message, please be as descriptive as possible and include screenshots when applicable.

## Incidents Tab

This Incidents tab provides a grid view of the incidents being shared through the Irwin integration service. The incidents are displayed on this page along with a map showing the geographic location of the Point of Origin for each incident.



The map can be turned off by clicking the map icon on the top of the page.



## Modifying the Incidents Table View

### Sort Incidents

By default, the most recently modified incidents are displayed in descending order. You can change the display order by sorting by any of the columns— Incident Name, Created Name, Modified By, Modified On, or Incident Type.

To sort the list by column heading, click on the column heading name. To reverse the sorting, click the column heading name a second time. Observer also displays the incident geometries (as “POO Latitude” and “POO Longitude”).

### Change Time Zone

You can view any Date/Time object’s time zones. Click the clock icon to display the dates/times of an incident in various time zones.

Incidents		Current Dispatch	
incidents...	SQL FILTER	1/1/2020	2/27/2020
Created By System	Modified By System	Modified On Date	Category
Type to filter	Type to filter	Select date:	
RM_Inspector	INFORM_Inspector	2/27/20 13:50	Alaska 2/27/20 09:50 Pacific 2/27/20 10:50 Mountain 2/27/20 11:50 Central 2/27/20 12:50 Eastern 2/27/20 13:50

### Incident List Customization

Customization is also a function with the Column Chooser within the Incidents List. With this control, you can show/hide any number of columns (i.e. Data Elements) you wish. The columns you select will automatically save and will appear each time you open Observer. You will find this feature by clicking the vertical ellipsis icon to the right of the column names in the Incident Report.

SQL FILTER 1/1/2020 - 2/27/2020

Incident Name	Created By System	Modified By System	Modified On Date Time	Incident Type Category	Geographic Area Coordination
Type to filter	Type to filter	Type to filter	Select dates	Select values	Select values
1582915741	INFORM_Inspector	INFORM_Inspector	2/27/20 13:50	Wildfire	RMCC
Culberson 16:27	wires	wires	2/27/20 11:11	Wildfire	SWCC
Gray 16:46	wires	wires	2/27/20 10:58	False Alarm	SWCC

## Filtering Incidents

Filtering allows you to see the incidents that are most relevant to you. Filtered data displays only the incidents that meet criteria that you specify.

### Column Filter

The basic filter options can be found in the row below the column headings.

Observer - IRWIN

[irwinoat.doi.gov/observer/incidents?v=next#](http://irwinoat.doi.gov/observer/incidents?v=next#)

IRWIN | Observer Incidents Current Dispatch

Incidents 3,001 Search Incidents... SQL FILTER 1/1/2020 - 2/27/2020

Incident Name	Created By System	Modified By System
Type to filter	Type to filter	Type to filter
1582915741	INFORM_Inspector	INFORM_Inspector
Culberson 16:27	wires	wires

Depending on the data stored in the column, it can be filtered by typing, or by selecting from a drop down. To find an incident using the column filter, type text to filter by Incident Name, Created By, or Modified By; select a date range to filter by Modified On; or select one or more names from the drop down to filter by Incident Type.

Observer - IRWIN

[irwinoat.doi.gov/observer/incidents?v=next#](http://irwinoat.doi.gov/observer/incidents?v=next#)

IRWIN | Observer Incidents Current Dispatch

Incidents 3,001 Search Incidents... SQL FILTER 1/1/2020 - 2/27/2020

Incident Name	Created By System	Modified By System	Modified On Date Time	Incident Type Category	Geographic Area Coordination
Type to filter	Type to filter	Type to filter	Select dates	Select values	Select values
1582915741	INFORM_Inspector	INFORM_Inspector	2/27/20 13:50	Wildfire	RMCC
Culberson 16:27	wires	wires	2/27/20 11:11	Wildfire	SWCC
Gray 16:46	wires	wires	2/27/20 10:58	False Alarm	SWCC

Incident Type Category Geographic Area Coordination

- Air Accident
- Biological or Toxic Conditions
- Classroom
- Community Event
- Debris/Product Fire
- Earthquake
- Emergency Stabilization
- Explosives or Electrical Danger
- False Alarm
- Fire Rehabilitation
- Flammable Gas, Oil, and other liquids conditions
- Flooding
- Hurricane/ Typhon
- Incident Complex
- Incident/Event Support

Wildfire SACC

## SQL Filter

The SQL Query Builder allows you to use natural language expressions to filter the Incidents list. To add an SQL Filter, click the “SQL” button on the Incidents tab. The Incidents Filter dialogue box displays.

Incident Name	Created By System	Modified By System	Modif
Type to filter	Type to filter	Type to filter	
1582915741	INFORM_Inspector	INFORM_Inspector	2/27/20 13
Culberson 16:27	wires	wires	2/27/20 11

Note that the query created using the SQL Filter is applied in conjunction with (i.e. with an “AND”) any Quick Filters you may have applied. The SQL Filter also handles the “epoch” field type. The IRWIN API uses epoch number to represent CreatedOnDateTime and ModifiedOnDateTime.

## Sets vs Expressions

An **expression** is a statement that results in the data being true or false. For example: Fire Cause is Natural. A **set** is a group of expressions which are strung together using either AND or OR. For example: Fire Cause is Natural **AND** Final Acres is greater than 5. A **filter** is one or more **sets** which are strung together using either AND or OR. The example below is a filter which contains 4 expressions and 2 sets.

Incidents Filter

Filter Operator: AND OR

Set Operator: AND OR

Fire Cause is Natural

Final Acres is greater than 5

Containment Date Time is after 02/19/2020

Final Acres is greater than 2

First Set- Set operator AND Filter Operator - OR Second Set- Set operator OR

((FireCause = 'Natural') AND (FinalAcres > 5)) OR ((ContainmentDateTime > '2020-02-19') OR (FinalAcres > 2))

CANCEL SUBMIT

## How to Build an Expression

To build an expression:

1. Select a field from the drop down list.
2. Select an operator (e.g., is, is not, is greater than) from the next drop down list. The list of operators is specific to the type of field selected.
3. In the last field, select or type in a value.

The dialog box is titled "Incidents Filter" and has a "FAVORITES" dropdown in the top right. It contains a "Filter Operator" section with "AND" and "OR" buttons. Below it is a "Set Operator" section with "AND" and "OR" buttons and a "Remove Set" button. The main area has two rows: the first row has a "+ Add Expression" button, and the second row has a "+ Add Set" button. At the bottom are "CANCEL" and "SUBMIT" buttons.

As you add or modify expressions to your filter, you can see the SQL query at the bottom of the dialogue box.

The dialog box now shows an expression added to the first row: "Created By System" in a dropdown, "is" in a second dropdown, and "WildCad" in a text input field. A trash can icon is to the right of the input field. The SQL query at the bottom is highlighted in yellow: `{CreatedBySystem = 'WildCad'}`. The "Add Expression" and "Add Set" buttons are still visible below the expression.

To remove an expression, select the trash can icon.

To add expressions to your set, click Add Expression.

The dialog box is the same as the previous one, but the "+ Add Expression" button is highlighted in yellow, indicating it is the next step to click.

You can add additional sets to your filter to further refine your query.

The dialog box is the same as the previous one, but the "+ Add Set" button is highlighted in yellow, indicating it is the next step to click.

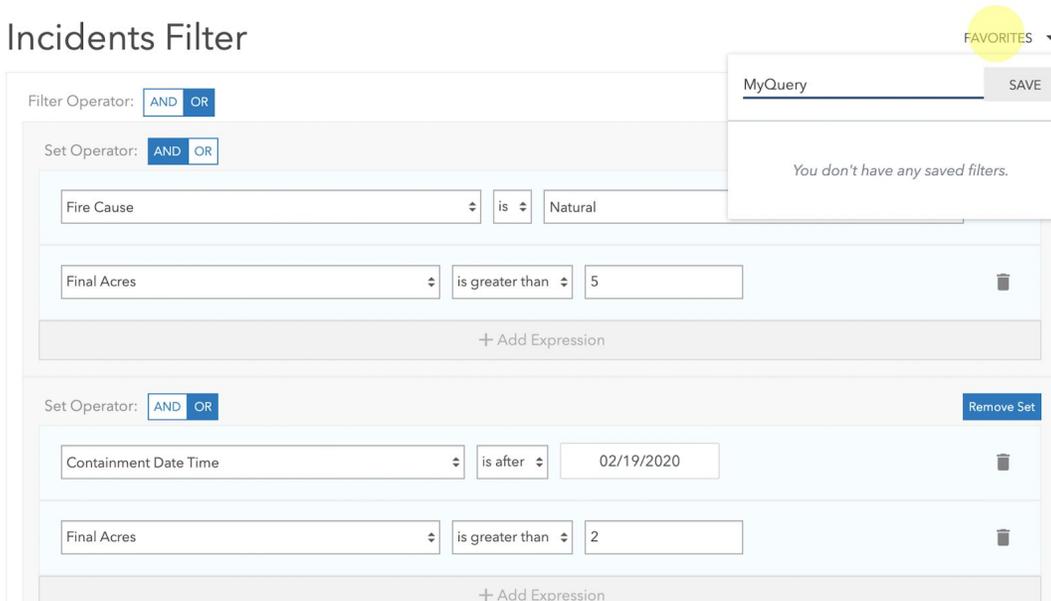
Once you have completed adding your expression(s) and set(s) to the filter, click the “Submit” button to apply the filter or click the “Cancel” button to cancel the filter. After submitting the filter, you will see a list of all the Incidents based on your criteria displayed on the Incidents tab, if any.

To clear a SQL filter, click the X to the right of the SQL Filter button.

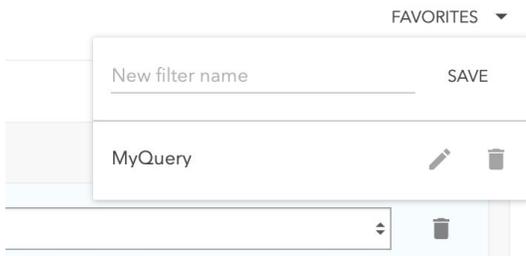


If there are queries used often, these can be saved by clicking the “FAVORITES” drop-down and typing a name for the query.

## Incidents Filter



All queries saved will show under the FAVORITES drop-down.



## Date Range Picker

To conveniently show incidents within a specific time period, click inside the date range box.

Observer - IRWIN

irwinoat.doi.gov/observer/incidents?v=next#

IRWIN | Observer Incidents Current Dispatch

Incidents 1,513 Search Incidents... SQL FILTER 1/1/2020 - 2/27/2020

Incident Name	Created By System	Modified By System
Type to filter	Type to filter	Type to filter
Culberson 16:27	wires	wires
SHELDON	INFORM_Mobile	INFORM_Mobile
SueFeb21Fire	ers	ers
SueFeb21Fire	ers	ers
Morris 21:27 h	wires	wires

## Text Search for Incidents

To search for an incident, enter the Incident Name, IRWIN ID, or FireCode in the “Search Incidents...” field.

Observer - IRWIN

irwinoat.doi.gov/observer/incidents?v=next#

IRWIN | Observer Incidents Current Dispatch

Incidents 3,001 Search Incidents... SQL FILTER 1/1/2020

Incident Name	Created By System	Modified By System
Type to filter	Type to filter	Type to filter
1582915741	INFORM_Inspector	INFORM_Inspector

The Text Search will display partial matches for all three of these fields. The results that match your search criteria will be listed and the number of results will be indicated next to the title

Observer - IRWIN

irwinoat.doi.gov/observer/incidents?v=next#

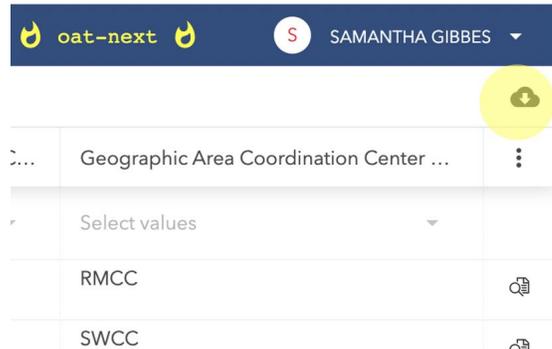
IRWIN | Observer Incidents Current Dispatch

Incidents 2 Culb SQL FILTER 1/1/2020 - 2/27/2020

Incident Name	Created By System	Modified By System	Modified By System
Type to filter	Type to filter	Type to filter	Type to filter
Culberson 16:27	wires	wires	2/27/20 1
Culberson 08:36	wires	wires	2/6/20 0

## Downloading Incidents

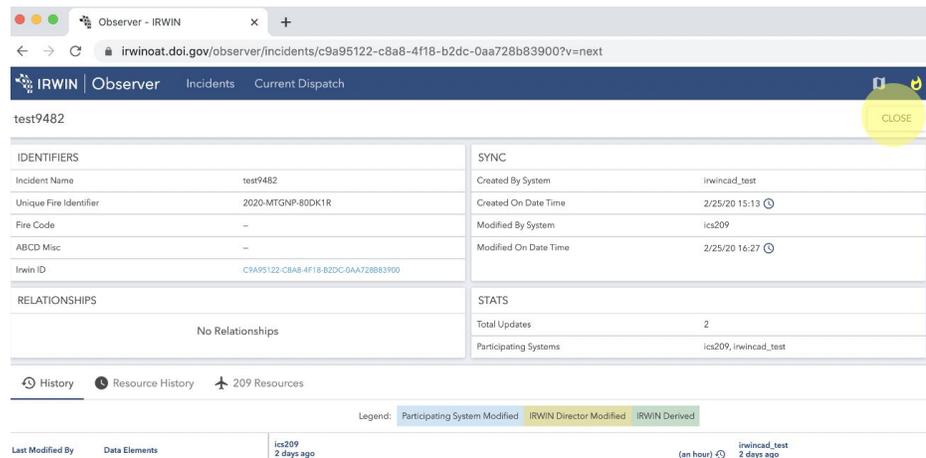
The Incidents table can be downloaded as Comma Separated Values (CSV) files. To download a list of incidents to a CSV file, click the “Download” icon from the Incidents tab. The number of incidents downloaded at once is limited to 2,000 records.



## Viewing an Incident

To view an incident, select the  icon in the far-right side of the row.

On the next page, you can see details about the incident, including its map location. Click the “Close” button to return to the Incidents tab.



The Incident page has several panels of information, some of which will be given further details below.

The screenshot shows the IRWIN Observer interface for incident test9482. The interface is divided into several sections:

- IDENTIFIERS:** Incident Name (test9482), Unique Fire Identifier (2020-MTGNP-80DK1R), Fire Code (-), ABCD Misc (-), and Irwin ID (C9A95122-C8A8-4F18-B2DC-0AA728B83900).
- SYNC:** Created By System (irwincad\_test), Created On Date Time (2/25/20 15:13), Modified By System (ics209), and Modified On Date Time (2/25/20 16:27).
- RELATIONSHIPS:** No Relationships.
- STATS:** Total Updates (4) and Participating Systems (ics209, irwincad\_test).

Below these sections are buttons for History, Resource History, and 209 Resources. A map on the right shows the incident location in North America. A table below the interface shows the last modified by information and incident details.

Last Modified By	Data Elements	ics209 2 days ago	irwincad_test 2 days ago
ics209	Modified On Date Time	2/25/20 16:27	2/25/20 15:13
<b>Incident Summary</b>			
irwincad_test	Calculated Acres	-	-
irwincad_test	Containment Date Time	-	-
irwincad_test	Control Date Time	-	-
irwincad_test	Critical Resource Needs	-	-
ics209	Daily Acres	500	-
irwincad_test	Dispatch Center ID	MTKIC	MTKIC
irwincad_test	Final Acres	-	-
irwincad_test	Fire Cause	Unknown	Unknown
irwincad_test	Fire Department ID	-	-

#### Incident Header:

- 1- Basic information identifying the incident
- 2- CreatedBy/ModifiedBy Information
- 3- Relationships, if any exist
- 4- Statistics about the incident: How many times it was updated, what systems are making changes

#### Incident Details:

- 5- The history of the incident
- 6- The history of resources, resource requests, and resource experiences associated with the incident
- 7- The 209 Resource report generated for the incident

## Relationships

The Relationships section indicates whether the incident is part of a complex, merged, or in conflict. Each type is described below.

### Complex Incidents

Complex incidents are two or more individual incidents located in the same general area which are assigned to a single incident commander or unified command. If an incident is a child record in a complex, a link to “View Parent” will be displayed in the Relationships section. If an incident is a parent record in a complex, a link to “View Details” will be displayed in the Relationships section.

## Merged Incidents

Merged incidents are two or more wildfires that burn together to form a single burned area and which, by management action, may be declared merged and managed as a single incident to improve efficiency and simplify incident management processes. If an incident is a child of a merged incident, a “View Parent” link will display in the Relationships section, which goes to the parent view incident record. If an incident is a parent of a merged incident, a “View Details” link will display in the Relationships section and a list of child incident records will display below. You can also determine whether an incident is a parent or child from the label adjacent to the Incident Name: Merged (Consumed) or Merged (Consumer).

## Conflicts

Conflicts occur when the Irwin ID of an IRWIN record conflicts with another record. If an incident is in Conflict, a link to “View Parent” or “View Details” will be displayed in the Relationships section. An incident may be quarantined, if it is potentially conflicting with another incident. A “Quarantined” label will display adjacent to the incident name.

## Incident Details

The section below the incident header is the incident details panel. The details include the Incident History, Resource History and the 209 Resources.

## Incident History

This Incident History displays the history of updates for every field on the Incident record. Updates to the incident are displayed in a “Timeline” view, flowing from left to right by most recent. Incremental time is displayed on the right side of the column header. This shows time since the previous update.

Individual cells are colored to indicate that the value of that attribute changed during the corresponding update. The legend describes what each color means.

The screenshot shows a table with a legend and a data table. The legend is highlighted in yellow and contains three items: 'Participating System Modified' (light blue), 'IRWIN Director Modified' (light green), and 'IRWIN Derived' (light purple). The data table has columns for 'Last Modified By', 'Data Elements', and two columns for update times. The first update is for 'ics209' at '2/25/20 16:27' (light blue background), and the second is for 'irwincad\_test' at '2/25/20 15:13' (light purple background). Below the data table is an 'Incident Summary' section with three rows: 'Calculated Acres', 'Containment Date Time', and 'Control Date Time', all with a '-' value.

History   Resource History   209 Resources			
Legend: Participating System Modified   IRWIN Director Modified   IRWIN Derived			
Last Modified By	Data Elements	ics209 2 days ago	irwincad_test 2 days ago
ics209	Modified On Date Time	2/25/20 16:27	2/25/20 15:13
Incident Summary			
irwincad_test	Calculated Acres	-	-
irwincad_test	Containment Date Time	-	-
irwincad_test	Control Date Time	-	-

