# TED InsurED

### **TEXFIRS** program

October 11, 2022

# TDI Objectives

- Texas Fire Incident Reporting System (TEXFIRS) / National Fire Incident Reporting System (NFIRS)
- 2021 Data
- Documenting a complete incident
- Data quality
- Data use
- Reporting in NFIRS
- Online tools and resources

# TDI TEXFIRS program

- Texas State Fire Marshal's Office
- Texas Government Code Section 417.0052
- Compiles statistical data from NFIRS

# TDI TEXFIRS program

### Reporting to NFIRS is reporting to TEXFIRS

- State-level representatives for NFIRS.
- Ensure data quality.
- Provide training.
- Upload incident reports to the NFIRS database.

# TDI NFIRS

- NFIRS is the world's largest, national database of fire incident information.
- Every U.S. state and the District of Columbia report NFIRS data.
- NFIRS comprises about 70% of all reported fires that occur annually.
- 24,000 fire departments reported 30 million incidents, including 1.2 million fires in NFIRS.

### TDI Texas reported incident facts

There are over 1,800 Texas fire departments. Less than 50% reported.

877

Fire departments reported

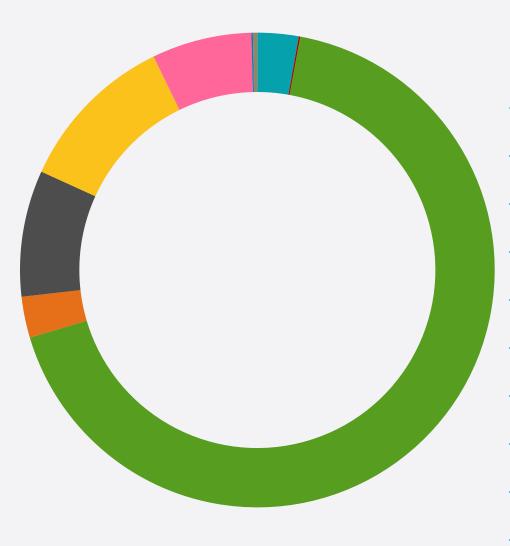
84,751

**Fires** 

2.6 million<br/>Incidents

\$769.5 million
Fire loss

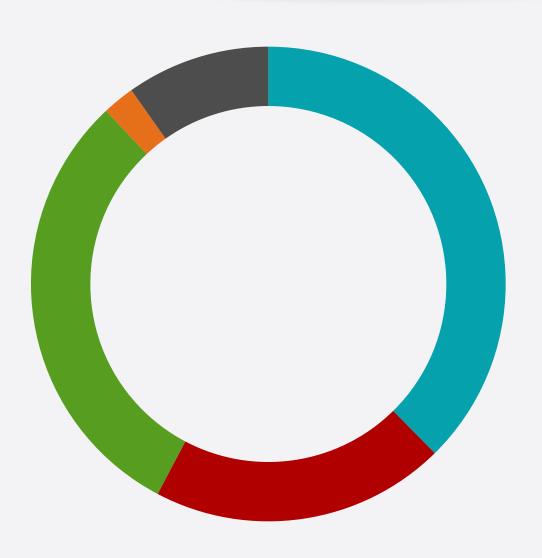
# TDI NFIRS Texas call data



### 2021 calls by category

Fires	Percent of all fires
84,751	3.3%
2,688	0.1%
1,720,316	67.5%
72,366	2.8%
218,326	8.6%
293,941	11.0%
172,357	6.8%
1,736	0.1%
8,035	0.3%
	84,751 2,688 1,720,316 72,366 218,326 293,941 172,357 1,736

# TDI NFIRS Texas fire data



### 2021 reported fires

Туре	Fires	Percent of all fires
Structure	26,631	32%
Vehicle	14,218	17%
Natural vegetation	21,422	25%
Outdoor rubbish	15,551	18%
Other	6,929	8%

# TDI How is your fire department reporting?

- Is your department reporting?
- Are all calls documented?
- Are reports accurate?
- Is all known information provided?
- Do you review reports?
- Do you misuse "unknown", "undetermined"?
- Are reports updated?
- Is your data reliable?

### TDI A complete incident report

### **Facts**

Cause of ignition:

- Heat source
- Contributing factors
- Area of origin
- Contributing equipment
- Dollar loss

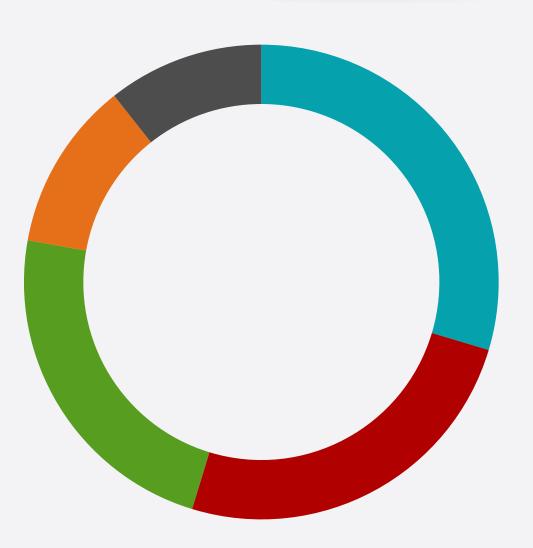
### **Updates**

- Good data requires updates.
- Update the incident report even after it is submitted.

### **TDI** Good data is...

- Timely: Entered soon after the fire incident occurs.
- Accurate: Accurate as possible. Update as information becomes available.
- Reliable: Incident types are added using the same codes, terms, and according to NFIRS coding guides.
- Complete:
  - All required fields.
  - All fields needed to report the incident details and response.

# TDI | NFIRS Texas fire data



### 2021 unresolved fires

Туре	Fires	Percent of all fires
Structure	3,921	63%
Vehicle	3,320	5%
Natural vegetation	3,058	1%
Outdoor rubbish	1,528	8%
Other	1,408	23%

## TDI Why is reporting incidents important?

- Illustrates the magnitude of the fire problem.
- Indicates fire severity.
- Targets fire prevention programs.
- Evaluates the cost effectiveness.
- Determines the amount of money that should be spent.
- Better data reduces fires, which reduces risk to firefighters.

### **TDI** Dollar loss estimate

- Dollar loss is an estimation.
- Include contents damaged by fire, smoke, water, and overhaul.
- Don't include indirect loss, such as business interruption.
- Leave fields blank when the value is unknown.
- Use the International Code Council's building valuation data formula.

### TDI Texas loss statistics

In 2021, there were 84,751 reported fires.



**\$562.4 million** in property loss



\$239.9 million in contents loss



\$802.3 million in total loss

### **TDI** Data quality

- Adopt a standard operating procedure.
- Designate a "data champion" to ensure quality control.
- Be diligent in entering complete and accurate data and correcting any errors that come up.

# TDI Valid vs. invalid incidents

Incident Valid Status	Total	Percent
No Activity	155	N/A
Valid	2,513,238	98%
Invalid	61,465	2%
Grand Total	2,574,703	100%

### TDI Data use

Incident data supports justifications for a fire department's resources and training needs, such as:

- Plan station relocations
- Train personnel
- Funding program requirements
- Justify budgets
- Fire prevention programs
- Legislation

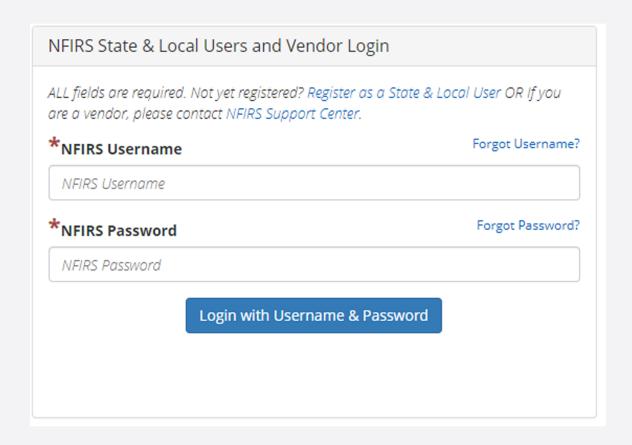
### TDI Who uses this data?

- Even if you don't personally use data directly, somebody is still looking at numbers, still
  working on a product, still trying to quantify the fire problem.
- Decisions are made based on the information that is and that is NOT in the reporting system.
- Federal programs
- Private industry organizations
- National associations for home appliance product manufacturers
- Hotel and motel industry
- Insurance companies, attorneys, and many others

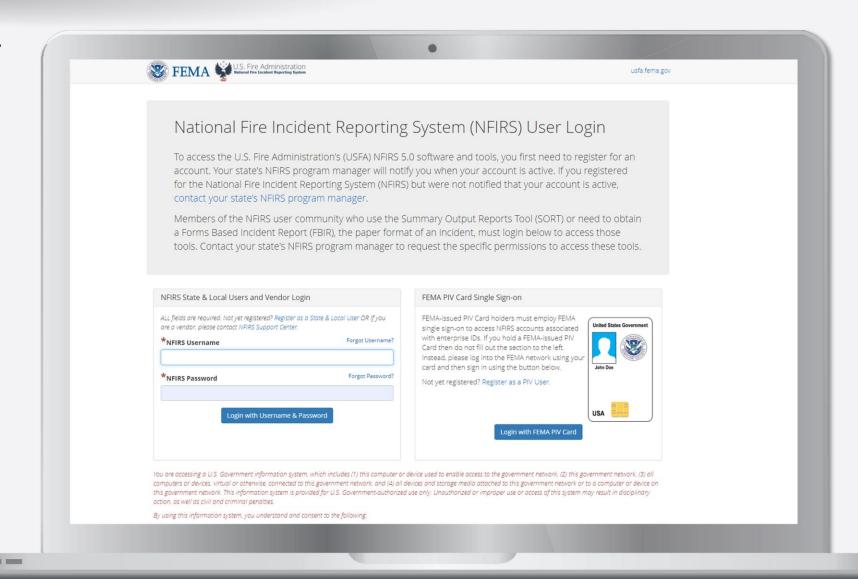
### TDI How to register for a NFIRS user ID

### Visit the FEMA NFIRS website:

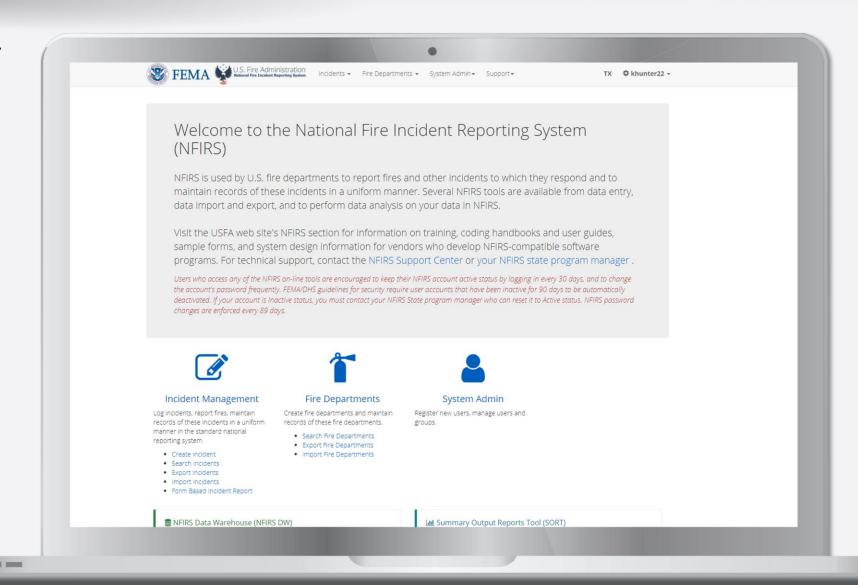
- Select Register as a State or Local User.
- Enter your information and submit.
- You will receive an email from TEXFIRS to complete your registration.



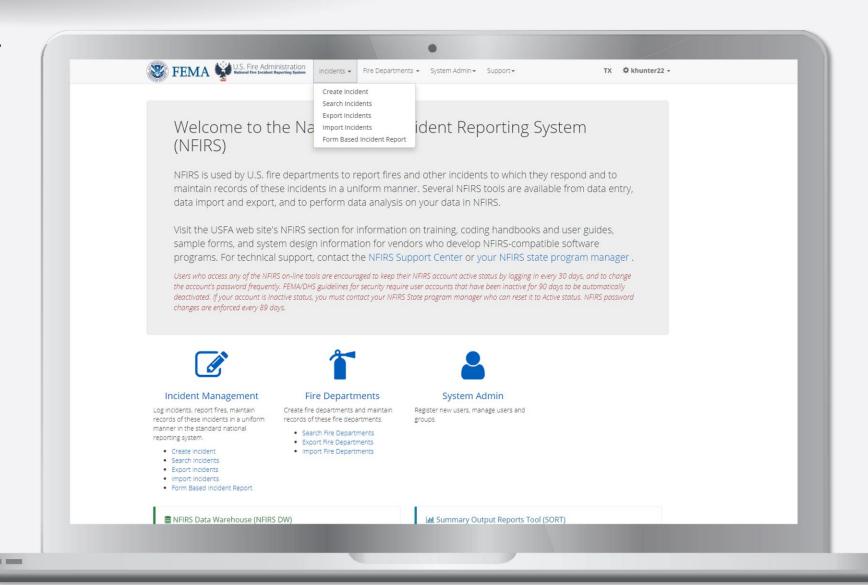
- Log in to eNFIRS
- Click on Incidents.
- Create incident.



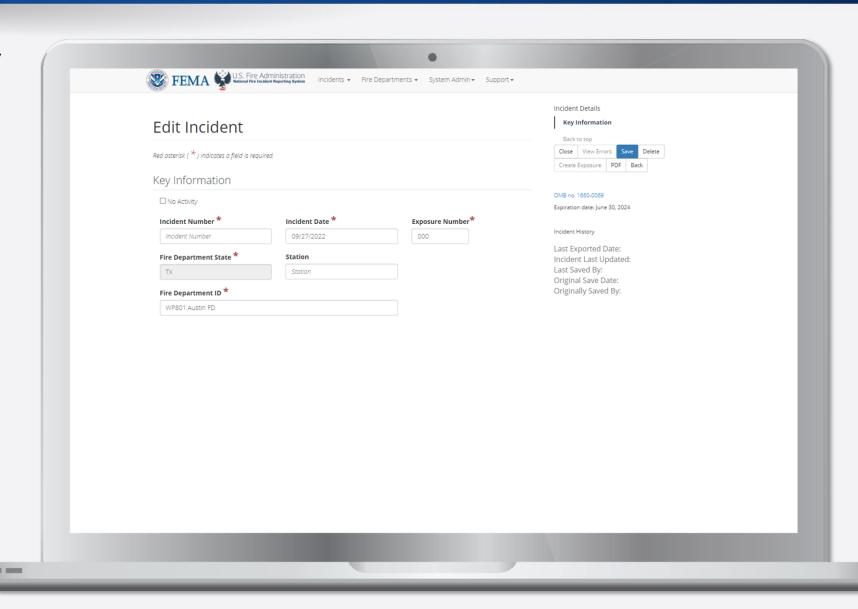
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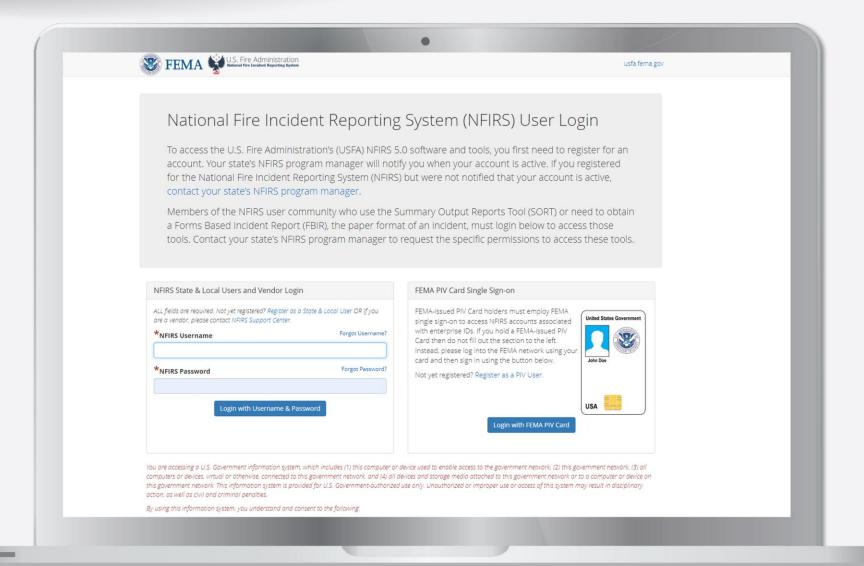
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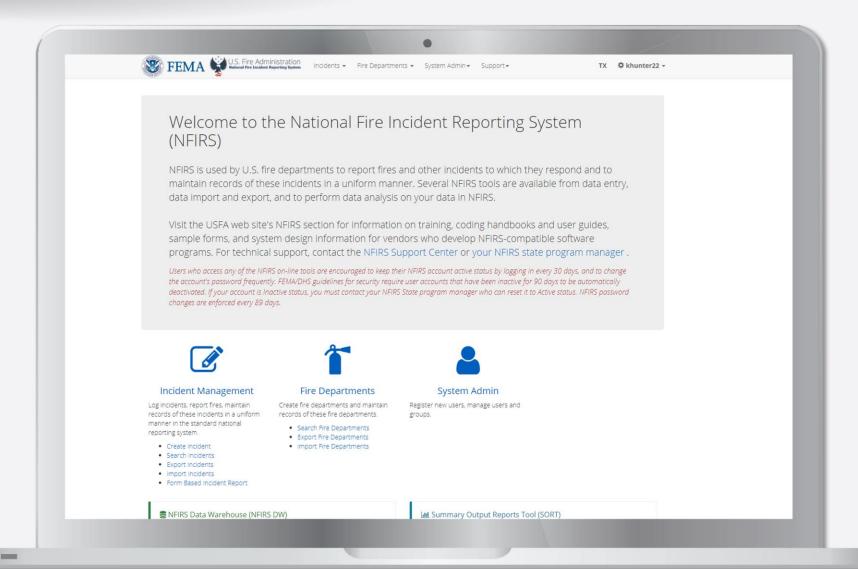
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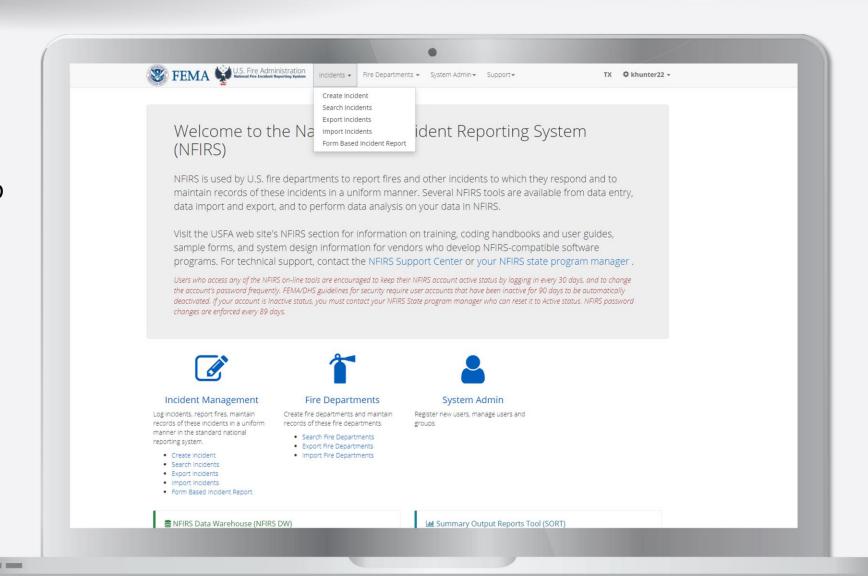
- Log in to eNFIRS
- Click on Incidents drop down.
- Import incidents.
- Choose up to 3 files.
- Import files.



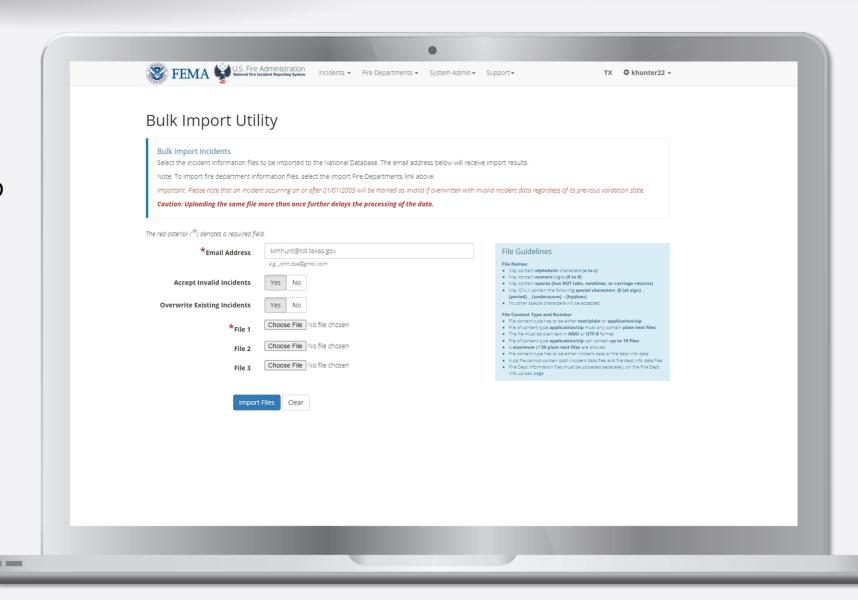
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### TDI |

- Incidents
- Fire Departments
- System Admin
- Reports Tools
- Links to NFIRS training and code guides



records of these fire departments.

Search Fire Departments
 Export Fire Departments
 Import Fire Departments

NFIRS Data Warehouse (NFIRS DW)

records of these incidents in a uniform

manner in the standard national

Create Incident
 Search Incidents
 Export Incidents
 Import Incidents
 Form Based Incident Report

Lill Summary Output Reports Tool (SORT)

### TDI

- Incidents
- Fire Departments
- System Admin
- Reports Tools
- Links to NFIRS training and code guides



#### Incident Management

Log incidents, report fires, maintain records of these incidents in a uniform manner in the standard national reporting system.

- Create Incident
- Search Incidents
- Export Incidents
- Import Incidents
- . Form Based Incident Report



#### Fire Departments

Create fire departments and maintain records of these fire departments.

- Create Fire Department
- Search Fire Departments Export Fire Departments
- Import Fire Departments

### Register new users, manage users and

System Admin

- New User Registration User Search
- Approve Users

.

- Bulk Import Report
- Bulk Release Incidents Bulk Unrelease Incidents
- Manage Groups
- Create Special Study
- Create Plus One Code
- View Log

#### NFIRS Data Warehouse (NFIRS DW)

Generate reports on NFIRS data in the NFIRS DW. Contact your state program manager to request permissions to use the NRRS DW.

Access NFIRS Data Warehouse

#### M Summary Output Reports Tool (SORT)

Generate standard output reports on NFIRS data after entering report parameters and filters. NOTE: In order to view sample reports in PDF form you must have a PDF viewer installed. Contact your state program manager to request permissions to use the SORT.

Access SORT

#### NFIRS Documentation

The following includes information on training, technical support, and information for vendors who develop NFIRS-compatible software programs. Visitors to this site may also download coding handbooks, sample forms, and a system documentation manual.

#### NFIRS Users

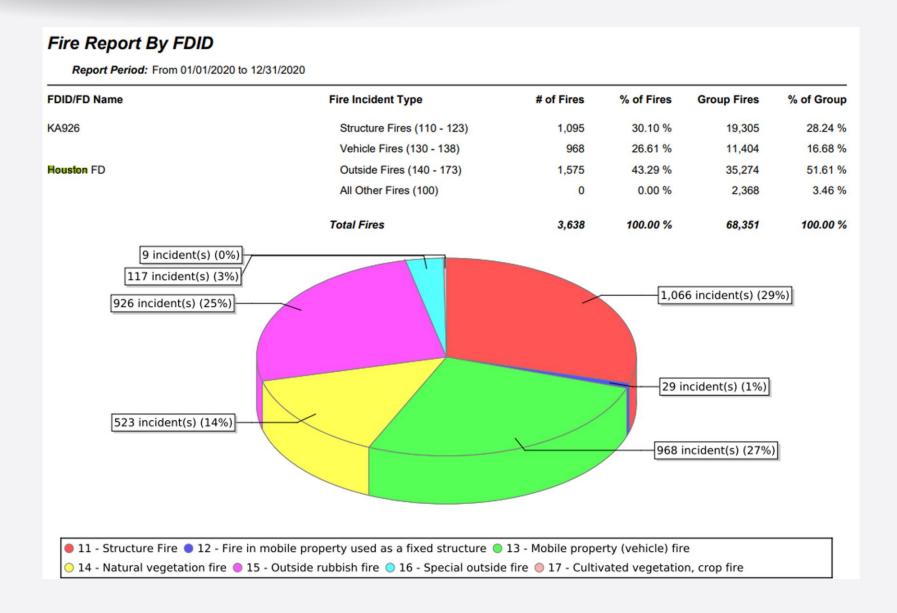
- . NFIRS user manual for the re-designed Web-based Tools and USFA software
- NFIRS 5.0 Complete Reference Guide
- Coding Questions Guide
- · Training and coding help, NFIRSgrams
- · Reporting guidelines for states and departments
- Active status Vendors list
- NFIRS training videos

# TDI Summary output reports tool (SORT)

In order to view sample reports in PDF form you must first have a PDF viewer installed. Such a viewer is available from Adobe

-Available Reports-		
Report Name	Report Description Report Category	Sample Report
<u>Civilian Casualties</u>	The Civilian Casualties report summarizes the user's choice of either injuries or fatalites involving civilians. The report breaks down the numbers into five graphs: by property use, by incident type, total injuries, fire incidents, Casualty Reports and non-fire incidents. The last three graphs are grouped using a user-chosen time period including the day of the week, day of the month, the hour of the day, month of the year, quarter of the year, week of the month, or week of the year.	<b>2</b>
Data Inventory By FDID	The Data Inventory by FDID report summarizes incident data within a given alarm date range by presenting a table for each selected fire department that provides counts of various incident modules broken down by incident Fire Reports validity, original incident data version, and incident publication state.	乜
Data Quality	The Data Quality report quantifies the quality of reported incidents as a total number and percentage of the presence of key fields on various modules such as the Basic Module, Fire Module, and Apparatus Module. Management Reports	私
Detailed Selected Statistics	The Detailed Selected Statistics report summarizes incidents by the presence and frequency of a particular coded field as chosen by the user (such as the Cause of Ignition field on the Fire Module). Additionally, the user may  Management Reports add ad hoc filters to further narrow the incidents included. The results include the frequency, frequency percentage, number of exposures, average number of EMS and supression personnel and apparatus, average man hours, total man hours, and average response time.	<b>₹</b>
FDID Incident Type Summary	The FDID Incident Type Summary report summarizes counts of incidents by incident type (incident type in the 100s, 200s, 300s, etc., U [Undetermined - 4.1 conversion], or none) and total incidents for each FDID chosen by Incident by FDID Reports the user. A total for all FDIDs included is given at the end of the report.	₹3
Fire Department Information	The Fire Department Information report provides counts of fire service personel, incidents, exposures, aid given, and casualties at a per-fire department level. The report additionally quantifies the number of matching fire  Incident by FDID Reports departments that have and have not reported matching incidents within the specified period.	₹
Fire Report by FDID	The Fire Report by FDID report creates a summary of fire activity for each FDID selected by the user. The summary is presented as one page per FDID and includes a table by four major fire incident types (structure fires, vehicle fires, outside fires and other) and a pie chart including the top five fire types for that FDID. The table includes the counts and percentages for both that FDID and the FDID within the group of FDIDs begin reported upon.	<b>7</b> 2
Fire Service Casualties	The Fire Service Casualties report summarizes the user's choice of either injuries or fatalites involving fire service professionals. The report breaks down the numbers into five graphs: by property use, by incident type, total  Casualty Reports injuries, fire incidents, and non-fire incidents. The last three graphs are grouped using a user-chosen time period including the day of the week, day of the month, the hour of the day, month of the year, quarter of the year, week of the month, or week of the year. Unlike the Civilian Casualties report, this report includes all types of mutual aid (including mutual aid given and automatic aid given).	<b>B</b>
Fires Under Investigation	The Fires Under Investigation report lists fires that were under investigation at the time they were reported to the national database. The details of the report include the FDID, station ID, incident date, incident number, incident type, property use, mutual aid given or received, and property address. The selection criteria includes choosing FDID(s), a date range, a validity status (e.g., Valid), release status (e.g., Released) and data version (e.g., 5.0), The report can be sorted by FDID or Incident Date.	包
Incident Counts	The Incident Counts report is a one-page summary of totals for a user-defined list of FDIDs over a user-defined time period. The totals are broken down by Validity Status (e.g., Valid), Release Status (e.g., Released), Version Incident Reports Number (e.g., 5.0), Exposure Type (Primary vs. Exposure), Mutual Aid Flag (summarized by Given, Received and None) and Incident Type (only by Fires, EMS and "other"). The totals are given as both numbers and percentages.	包
Incident Listing	The Incident Listing report lists the five key fields required for every incident: FDID, FDID state, Incident Date, Incident Number and Exposure Number for every incident in the selection criteria. The selection criteria includes  Incident Reports  Such things as which FDIDs and the date range of incidents should be included (among many others). Additionally, the current Validity Status (e.g., Valid), Release Status (e.g., Released). Station Number, Mutual Aid Flag,  Incident Type, Last Updated Date, and Last Updated By name are given. The report is sorted by FDID. Caution should be exercised when choosing the selection criteria for this report as the size of the output grows directly with the number of incidents chosen.	乜
Incidents By Time Series	The Incidents By Time Series summarizes incidents by total number of incidents, fire incidents, EMS incidents, false call incidents, and other incidents. These are grouped using a user-chosen time period including the day of Incident Reports the week, day of the month, the hour of the day, month of the year, quarter of the year, week of the month, or week of the year. The results are displayed graphically using bar charts.	₹.
Monthly Incident Counts	The Monthly Incident Counts gives raw counts of primary incidents, exposure incidents, and aid given incidents for a chosen set of fire departments (FDIDs) broken down by month for a full calendar year. The numbers for each Incident by FDID Reports fire department are grouped individually and a grand total for all the fire departments chosen is given in the report summary.	₹
Mutual Aid Given Unmatched Departments	The Mutual Aid Given, Unmatched Departments report creates a list of mutual aid given incidents where the matching mutual aid received incident cannot be found. Each line of the list includes the aiding FDID and state as well as date, incident and exposure number, the aided FDID, state and incident number. The report ends with the total number of unmatched mutual aid given incidents.	乜
Mutual Aid Incidents	The Mutual Aid Incidents report creates a list of mutual aid incidents that match the type chosen by the user. The choices include: aid given only, aid receieved only, other aid only, aid none only and all aid types. The user can Mutual Aid Reports also choose whether to sort the results initially by FDID or Incident Date (and next by Incident Date or FDID then incident number and exposure). Other selection criteria include the FDIDs to include, the date range, data version, incident validity and release status. For each reported incident, the FDID, FDID state, incident date, incident number, exposure number, assisted/ing FDID, assisted/ing FDID state, and assisted/ing incident number. The report ends with the total number of mutual aid incidents.	₺

### TDI Sample report by fire department ID



### TDI Online tools and resources

### **NFIRS training**

#### ■ Watch more NFIRS videos on YouTube

#### **Getting started**

#### eNFIRS: support and resources

An overview of the resources available to provide help with eNFIRS and general NFIRS questions.

#### eNFIRS: how to register as a user ☑

The Single Sign-on (SSO) is a feature new to eNFIRS, that places all NFIRS tools in one location, requiring just one login.

#### Data entry

#### eNFIRS: quick tour

Watch this video for an overview of the eNFIRS application.

This video will guide your through the process to self-manage your username and/or password.

eNFIRS: forgot username and

#### eNFIRS: how to create an incident

From key information through the Basic Module, this video shows you how to create an incident with eNFIRS.

### eNFIRS: how to search for an incident ☑

Already have an incident in the NFIRS system? Need to find it again? This video will show you how to search for an existing incident using the eNFIRS interface.

#### eNFIRS: exposure incidents ☑ How to create an exposure incident from

How to create an exposure incident from another incident in NFIRS.

#### eNFIRS: edit and save basic incident details ☑

Learn how to edit and save basic incident details for NFIRS records.

#### **Exporting**

password 2

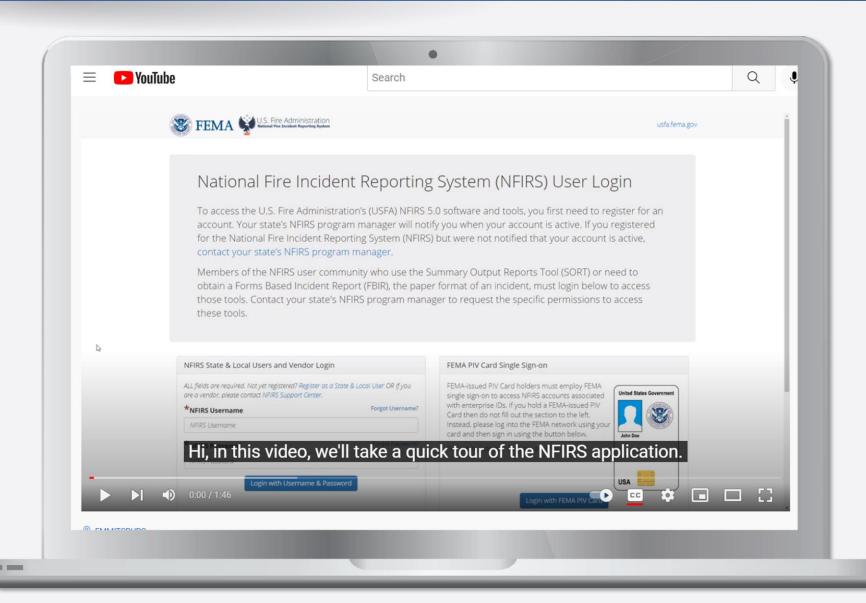
#### eNFIRS: export fire departments [2]

Instructions on how to export fire departments as text files.

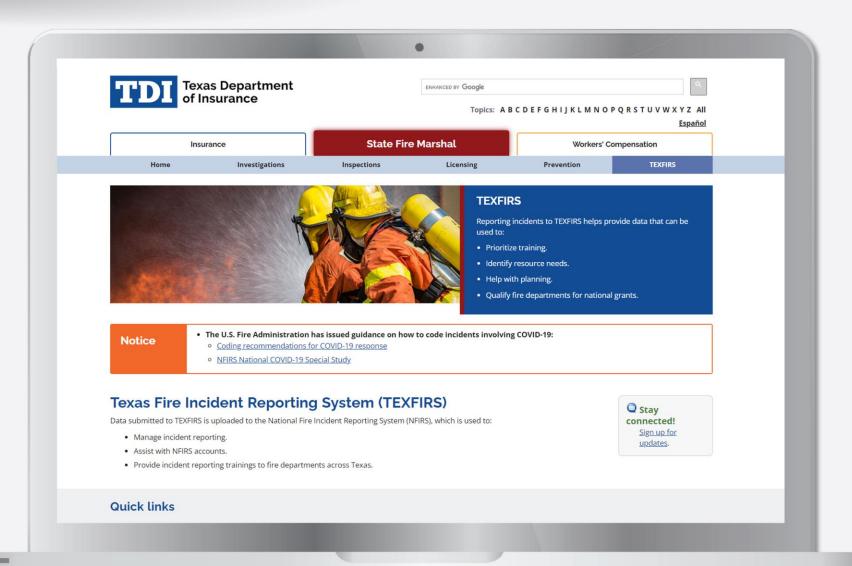
#### eNFIRS: exporting incidents ☑

This video provides instruction on how to export incidents from NFIRS as raw text files.

# TDI NFIRS login walk-through



- TEXFIRS webpage
- Fire department reporting status
- Summary reports
- <u>Fires under</u> <u>investigation</u>



- TEXFIRS webpage
- <u>Fire department</u> reporting status
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#### Quick links

• Create an NFIRS account or log in

U.S. Fire Administration's National Fire Incident Reporting System user login and registration.

· Reporting software and tools

Tips and links for the NFIRS reporting software and tools used by TEXFIRS.

National grants

FEMA's Assistance to Firefighters Grants Program.

• NFIRS fire department IDs (FDID)

Texas fire department FDID numbers, listed by county.

• Fire department ID (FDID) number request form

Application to request an FDID from SFMO.

TEXFIRS FAQ

Frequently asked questions about the TEXFIR system.

#### How to begin reporting incident data

Reporting incident data in the NFIRS Fire Incident Reporting System can be accomplished in three simple steps.

#### 1. Create NFIRS user account

To self-report incident data to NFIRS or to use the free NFIRS Incident Reporting System, fire departments must create an NFIRS user account (new user registration).

#### 2. Download Incident Reporting Software

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Browse available NFIRS-compliant software or log in to use the free <u>NFIRS Incident</u>
<u>Reporting System</u>.

- <u>Approved reporting software (active vendors)</u>
- <u>Learn more about reporting software</u> and tools

#### 3. Learn how to enter your incident data

Information on NFIRS handbooks, forms, and trainings are provided in the links below.

- NFIRS training
- Reporting guidelines and report requests

Top reasons to report incident data

- TEXFIRS webpage
- <u>Fire department</u> reporting status
- Summary reports
- <u>Fires under</u> <u>investigation</u>

#### Top reasons to report incident data

Incident reporting in Texas is not mandatory; however, data provided helps:

- Justify fire department budget requests and provide a basis for resource allocation.
- · Generate statistical reports (see "Statistical data" section below).
- · Assess department activity on a national scale, including Emergency Medical Services, department apparatus, wildland fires, and personnel activities.

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- · Summarize annual incident activities.
- Answer questions about the nature and causes of injuries, deaths, and property loss resulting from fires.
- · Determine needed improvements within the department (e.g. response time, training).
- · Predict fire-related problems within your community.
- · Measure the success of fire prevention and safety programs.
- · Qualify for national Assistance to Firefighters grants.

#### Statistical data

#### Incident summaries

#### Fire department incident summaries

- 2020 PDF | Excel
- 2019 PDF | Excel
- 2018 PDF | Excel

#### Statewide incident summaries

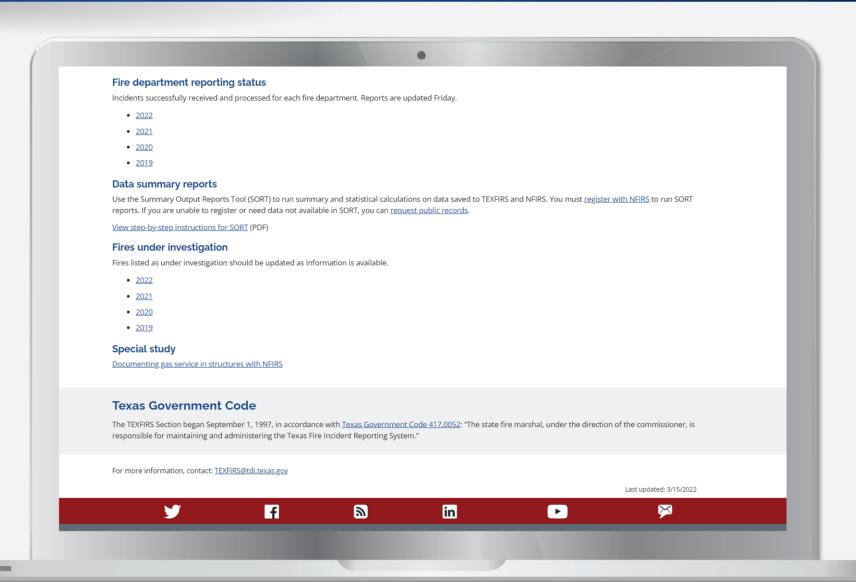
- 2020 PDF | Excel
- 2019 PDF | Excel
- 2018 PDF | Excel

#### Fire department reporting status

Incidents successfully received and processed for each fire department. Reports are updated Friday.

- 2022
- 2021
- 2020
- 2040

- TEXFIRS webpage
- <u>Fire department</u> reporting status
- Summary reports
- <u>Fires under</u> <u>investigation</u>



### TDI Fire department reporting status report

### Monthly Participation Report

Report Year: 2022

State	FDID	Fire Department	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Grand Total	Reported Months	Missing Months
TX	AA205	Slocum VFD	4	2	3	0	0	0	0	0	0	0	0	0	9	3	9
TX	AA207	Tucker VFD	2	0	0	0	0	0	0	0	0	0	0	0	2	1	11
TX	AA309	Palestine Southside VFD	13	19	6	0	0	0	0	0	0	0	0	0	38	3	9
TX	AA310	79 East VFD	0	1	0	0	0	0	0	0	0	0	0	0	-1	1	11
TX	AA401	Westside VFD	3	5	0	0	0	0	0	0	0	0	0	0	8	2	10
TX	AA402	Frankston FD	15	11	0	0	0	0	0	0	0	0	0	0	26	2	10
TX	AA404	Neches VFD	0	0	1	0	0	0	0	0	0	0	0	0	1	1	11
TX	AA604	Palestine FD	110	92	89	0	0	0	0	0	0	0	0	0	291	3	9
TX	AC409	Huntington FD, City of	11	20	30	4	0	0	0	0	0	0	0	0	65	4	8
TX	AC608	Lufkin FD	271	240	0	0	0	0	0	0	0	0	0	0	511	2	10
TX	AD404	Lamar VFD	10	9	20	4	0	0	0	0	0	0	0	0	43	4	8
TX	AD505	Rockport VFD	31	0	0	0	0	0	0	0	0	0	0	0	31	1	11
TX	AG202	Washburn VFD	2	2	0	0	0	0	0	0	0	0	0	0	4	2	10

# TDI Fire department ID summary sample

### **FDID Summary By Incident Type**

**Texas** 

Report Period: 1/1/20 to 12/31/20

#### AP304 Medina Lake VFD

	Call By Incident Type	Frequency	Percent of Total Calls	Mutual Aid None	Mutual Aid Given	Mutual Aid Received	Other Aid Given	Invalid Aid Flag	Exposures	Total Incidents
	Building Fires (110-118, 120-123)	6	0.00%	6	3	0	0	0	0	9
FIRES	Vehicle Fires (130-138)	4	0.00%	3	0	1	0	0	0	4
FIRES	Other Fires (100, 140-173)	16	0.00%	12	3	4	0	0	0	19
	Total Fires	26	0.00%	21	6	5	0	0	0	32
Pressure Ruptures,	Explosion, Overheat (200-251)	0	0.00%	0	0	0	0	0	0	0
	Emergency Medical Treatment (300-323)	139	0.01%	139	0	0	0	0	0	139
RESCUE CALLS	All Others (331-381)	3	0.00%	3	1	0	0	0	0	4
	Total Rescue Calls	142	0.01%	142	1	0	0	0	0	143
Hazardous Condition	on Calls (400-482)	18	0.00%	18	1	0	0	0	0	19
Service Calls (500-5	71)	30	0.00%	30	0	0	0	0	0	30
Good Intent Calls (6	600-671)	40	0.00%	40	3	0	0	0	0	43
Severe Weather or National Disaster Calls (800-815)		0	0.00%	0	0	0	0	0	0	0
Special Incident Calls (900-911)		0	0.00%	0	0	0	0	0	0	0
Unknown Incident Type (UUU)		0	0.00%	0	0	0	0	0	0	0
	0	0.00%	0	0	0	0	0	0	0	

### TDI Online tools and resources

- NFIRS training webpage
- Guidance to running eNFIRS statistical reports
- How to use the Bulk import utility tool
- NFIRS 5.0 guide
- Understanding Your Role in Fire Incident Data
- eNFIRS training videos
- NFIRSGrams

# TDI Resources

- Texas Fire Marshal's Office
- Training
- Systems support
- Ad-hoc data reports
- Coding assistance

# TDI NFIRS study courses

### **SFMO - TEXFIRS**

Introduction to NFIRS version 5.0: 8-hour introductory course.

### NFIRS courses offered thru USFA - National Fire Academy

- Online self-study course: Serves as an introduction
- NFIRS program manager's course: six-day, on campus
- Introduction to NFIRS: two-day course, offered on / off campus.

### **TDI** | TEXFIRS contact information

### Cecilia Munoz

NFIRS State Program Manager

512-676-6787

### **Nubia Flores**

NFIRS State Program Specialist (Spanish)

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**TEXFIRS** homepage

# TDI Questions