

NIFSIP

Data Dictionary



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National Interagency Fire Statistics Information Project

NIFSIP Data Dictionary

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Entities

Reference Entity: Authorization Type

The class of authorization for a burn.

Attribute: Authorization Type Code

The type of authorization. Examples include Air Quality Permit, Burn Permit, Burn Plan.

Base type/Size: INTEGER

Domain: Authorization Type

The class of authorization for a burn.

Value	Description
0	Not Applicable
1	Burn Permit
2	Prescribed Fire Plan
3	Air Quality Permit
4	Fire Management Plan

Integrity Constraint: Fire Cause/Objective

Business Rule: Only fires with Ignition Statistical Cause = 4 (Debris Burning) may be associated with a Burn Objective.

Reference Entity: Burn Objective

The objective of the burn, whether managed ignition, prescribed natural fire, or by private party via a burn permit.

Attribute: Burn Objective Code

The objective of a management ignited fire. Examples include Historical Site Maintenance, Hazard Reduction, Species Control.

Base type/Size: INTEGER

Domain: Burn Objective

The objective of the burn, whether managed ignition, prescribed natural fire, or by private party via a burn permit.

Value	Description
1	Historical Site Maintenance
2	Other Cultural Site or Scene Maintenance
3	Species Control
4	Habitat Maintenance
5	Research
6	Ecosystem Management
7	Fuel Reduction
9	Structure Removal
10	Boundary Protection
11	Fuel Break Maintenance
12	Debris Removal
13	Vista Maintenance
14	Health (e.g. Insect Control)
15	Right-of-Way Maintenance
16	Enhance Wildlife
17	Exotic Species Management
98	Burn Objective not in list

Reference Entity: Complexity Level

The complexity level assigned to a natural or managed ignition fire.

Attribute: Complexity Level Code

The complexity level of a fire. Examples include Wildland: Type 1, Prescribed.

Base type/Size: INTEGER

Domain: Complexity Level

The complexity level assigned to a natural or managed ignition fire.

Value	Description
1-1	Suppression: Type 1 Fire
1-2	Suppression: Type 2 Fire
1-3	Suppression: Type 3 Fire
1-4	Suppression: Type 4 Fire
1-5	Suppression: Type 5 Fire
2-1	Prescribed

Reference Entity: Contributing Party Age Class

The category of age for a human.

Attribute: Contributing Party Age Class Code

The type of person(s) or party contributing to the cause of a fire. Examples include 0-13 years old, 13 to 18 years old, over 18 years old.

Base type/Size: INTEGER/2

Domain: Human Age Class

The age of humans divided into three age categories: children, adolescents, adults.

Value	Description
0	Unknown
1	Less than 13 years old
2	13-18 years old
3	over 18 years old
99	Unknown Age

Reference Entity: **Contributing Party Type**

The type of person(s) or party who contributed to the cause of a fire.

Attribute: **Contributing Party Type Code**

The type of person or parties who contributed to the cause or spread of a fire. Examples include Tourist, Transient.

Base type/Size: INTEGER/2

Domain: Contributing Party

The type of person(s) or party who contributed to the cause of a fire.

Value	Description
1	Permanent Resident
2	Seasonal Resident
3	Tourist
4	Transient
5	Illegal Immigrant
6	Fire Owner Agency's Employee
7	Cooperator Employee
8	Other Government Employee
9	Contractor Employee
10	Other Private Sector Employee
11	Volunteer
12	Permittee
98	Contributing Party not in list

Reference Entity: Environmental Condition

The weather, land, or other environmental condition that influences the fire.

Attribute: Environmental Condition Code

The environmental condition that contributed to the spread of the fire. Examples include wind, high temperature, low humidity, earthquake.

Base type/Size: INTEGER

Domain: Environmental Condition

The weather, land, or other environmental condition that influences the fire.

Value	Description
0	Not applicable
1	Weather: high wind
2	Weather: high temperature
3	Weather: low humidity
4	Weather: hurricane
5	Weather: tornado
6	Weather: lightning
7	Land: earthquake
8	Land: lava
9	Water: flooding
10	Weather: low temperature
11	Weather: drought
12	Weather: high humidity
13	Weather: light wind
14	Weather: foehn wind
98	Other Environmental Condition
99	Unknown Environmental Condition

Reference Entity: Equipment Fault

The component or condition of failure, fault, defect, or malfunction of a piece of equipment or machinery that contributed to the cause or spread of an equipment-caused fire.

Attribute: Equipment Fault Code

A fault, failure or malfunction of a piece of equipment that contributed to the cause of a fire. Examples include brakes, electrical system failure, electrical appliance.

Base type/Size: INTEGER

Domain: Equipment Fault Type

The component or condition of failure, fault, defect, or malfunction of a piece of equipment or machinery that contributed to the cause or spread of an equipment-caused fire.

Value	Description
00	Not applicable
01	Brakes
02	Friction
03	spark arrester (failed, unmaintained, missing ...)
04	exhaust system: backfire
05	exhaust system: catalytic converter (heat, malfunction...)
06	exhaust system: other failure
07	electrical system (failed, malfunction, ...)
08	electrical appliance (washer, dryer, stove, frig...)
09	Hydraulic system (rupture, hot pump ...)
10	Gas/oil line failure
11	Gas/oil produciton
12	gas appliance (dryer, stove, frig...)
13	storage tank failure
98	Other Equipment Failure
99	Unknown Equipment Failure

Reference Entity: Financial Management Code

An agency-specific accounting code for tracking fire cost.

Attribute: Financial Management Code

An agency-specific accounting code for tracking fire cost. An example includes P6000-1 for USFS.

Base type/Size: CHARACTER

Domain: Alphanumeric Code

A data element represented by an alpha-numeric value.

Data Entity: Fire

Information on reportable Wildland Fires.

Attribute: Fire ID

A unique numeric identifier for a specific reportable fire.

Base type/Size: /10

Domain: Identifier

An attribute that uniquely identifies an entity or relationship.

Attribute: Fire Name

The name assigned to a specific fire.

Base type/Size: CHARACTER/20

Domain: Name

A name for a given item.

Attribute: Fire Discovery Method

The organization or person who discovered the fire. Examples include Agency Lookout, Agency Patrol, Infrared Detection.

Base type/Size: NUMBER

Domain: Discovering Party or Method

The fire detection source or method.

Value	Description
1	Visitor or Other Public
2	Permittee
3	Agency Lookout
4	Agency Patrol
5	Cooperator Lookout
6	Cooperator Patrol (other agency, local law enforcement, ...)
7	Agency Aerial Observer
8	Cooperator Aerial Observer
9	Other Aircraft
10	Remote Sensed
11	Infrared Detection
12	Building or Property Resident/Occupant
13	Watchman, Guard for Property
14	Other Agency Employee
15	Law Enforcement Agency Employee
16	Anonymous Caller
17	Contractor
98	Other Discovering Party not in list
99	Unknown

Attribute: Fire Discovery Date/Time

The date and time of the fire discovery or confirmation.

Base type/Size: DATE

Domain: Date/Time

Attribute: Fire Cause Investigation Status

The current status of a Fire Cause Investigation. Examples include Under Investigation, Determined, Not Investigated.

Base type/Size: **VARCHAR2**

Domain: Cause Investigation Status

The status of investigation of a fire.

Base type/Size:

Value	Description
1	not determined; not investigated
2	not determined; under investigation
3	not determined; after investigation
4	estimated; not investigated
5	estimated; under investigation
6	estimated; after investigation
7	determined by investigation

Attribute: Fire Public Injury Count

The number of injuries the public sustained due to the fire and from any fire response activities. Fire Public Injury Count does not specify any type of injury or its severity.

Base type/Size: /5

Domain: Quantity

A number indicating a quantity or size of something.

Attribute: Fire Public Fatality Count

The number of fatalities the public sustained due to the fire and from any fire response activities.

Base type/Size: /5

Domain: Quantity

A number indicating a quantity or size of something.

Attribute: Fire Resource Injury Count

The number of injuries fire resources sustained due to the fire and from any fire response activities. Fire Resource Injury Count does not specify any type of injury or its severity.

Base type/Size: /3

Domain: Quantity

A number indicating a quantity or size of something.

Attribute: Fire Resource Fatality Count

The number of fatalities that fire resources sustained due to the fire and from any fire response activities.

Base type/Size: /3

Domain: Quantity

A number indicating a quantity or size of something.

Attribute: Fire Effects Monitoring Data Available?

A Yes/No value signifying that fire effects monitoring data is available from an external source.

Base type/Size:

Domain: Boolean

A (Y)es or (N)o value.

Value	Description
N	no
Y	yes

Integrity Constraint: Reportable Fire

Business Rule: A *Reportable Fire* includes the following:

1. Wildland fire on agency lands suppressed by owning agency (fire is owned and reported by land owner).
2. Wildland fire on agency lands suppressed by another federal agency under an agreement (fire is owned and reported by the land owner; other agencies' contributions are documented via resource assignment).
3. Wildland fire on agency lands suppressed by a non-federal agency under an agreement (fire is owned and reported by the landowner; other agencies' contributions are documented via resource assignment).
4. Wildland fire on agency lands suppressed by a non-federal entity without an agreement (fire is owned and reported by the land owner; if available, other entity's contributions may be documented via resource assignment).
5. Wildland fire on adjacent land and threatens to spread to agency owned land and action is taken (fire is owned and reported by first responding agency; other agencies' contributions are documented via resource assignment).
6. Wildland fire on agency lands, action is taken but fire is extinguished by weather before suppression forces arrive (Natural Out) (fire is owned and reported by the land owner).
7. Burn scars from reported or unreported fires on agency lands confirmed by agency personnel (Natural Out) (fire is owned and reported by the land owner).
8. Wildland fire report on or off agency lands where action is taken but no fire is found (False Alarm) (fire is owned and reported by the land owner).
9. Management ignited prescribed fire on agency land (fire is owned and reported by the land owner).
10. Prescribed Natural Fire on agency land (fire is owned and reported by the land owner).

Not Reportable Fires include the following:

1. Wildland fire on State or Private land that does not threaten agency land. We are not requested to assist and we initial attack.
2. Wildland fire on State or Private land that does not threaten agency land, we are requested to assist with no agreement and we assist.

Data Entity: Fire Behavior

The general description of fire behavior at a given date and time.

Fire Behavior is identified for each shift in strategy for any area relevant to the decision. Fire Behavior is observed at a particular location within the fire area.

Attribute: (Fire Behavior) Observation Date/Time

The date and time of the observed Fire Behavior.

Base type/Size: DATE

Domain: Date/Time

Attribute: Fire Behavior Anatomy Feature

A description for a specific location of the fire. Examples include Head, Flank.

Base type/Size: INTEGER

Domain: Fire Anatomy

The specific location of the fire where the fire behavior occurred.

Value	Description
1	head
2	flank
3	anchor
4	heel
5	origin
6	interior
7	spot fire
8	finger
9	perimeter
10	island

Attribute: (Fire Behavior Observation) Location

The location of the feature where the fire behavior is measured. Examples include NW, SW, E, W.

Base type/Size: VARCHAR2

Domain: Cardinal Direction

The compass direction.

Value	Description
E	East
N	North
NE	Northeast
NW	Northwest
S	South
SE	Southeast
SW	Southwest
W	West

Attribute: Fire Behavior Flame Length

The average length of observed flames, typically measured in number of feet.

Base type/Size: NUMBER/3

Domain: Quantity

Attribute: Fire Behavior Rate-of-Spread

The amount of forward rate of fire spread. Examples include 10 chains/hour, 15 feet/minute.

Base type/Size: NUMBER/3

Domain: Quantity

Reference Entity: Fire Behavior Characteristic

The movement the fire may exhibit.

Attribute: Fire Behavior Characteristic Name

A characteristic of fire behavior. Examples include Running, Creeping, Crowning, Torching.

Base type/Size: INTEGER

Domain: Fire Behavior Characteristic

The type of movement a fire may exhibit.

Value	Description
1	Creeping
2	Crowning
3	Spotting
4	Smoldering
5	Torching
6	Running
7	Backing

Data Entity: Fire Complex

A grouping of separate fire occurrences for management convenience, based on fire behavior, geographic conditions, resource dispatching conditions, or other fiscal purposes.

A complex may be created when:

- multiple fires burn together
- multiple individual fires are managed as a group
- one fire is very large or very complex and requires multiple management teams.

Attribute: Fire Complex ID

The complex where one or more fires reside.

Base type/Size: /10

Domain: Identifier

A non-intelligent integer used to uniquely identify an entity or relationship. An identifier may be system-generated.

Attribute: Fire Complex Name

The name of the complex where one or more fires reside.

Base type/Size: VARCHAR2/20

Domain: Name

A name for a given item.

Data Entity: Fire Danger

The components that describe the relative fire danger for an area using the National Fire Danger Rating System (NFDRS).

Attribute: (Fire Danger) Observation Date/Time

The date the Fire Danger index value was observed.

Base type/Size: DATE

Domain: Date/Time

Attribute: Fire Danger Adjective Class Code

A general description of the Fire Danger. Examples include Low, Moderate, High, Very High, Extreme.

Base type/Size:

Domain: Fire Danger Adjective Class

The NFDRS adjective class fire danger rating for a particular date and location.

Value	Description
1	Low
2	Moderate
3	High
4	Very High
5	Extreme

Attribute: Fire Danger Index Code

The selected Index Measurement approach used at the time the fire was reported. Examples include Burning Index, Energy Release Component, Haines Index.

Base type/Size:

Domain: Fire Danger Index

The reference index used to determine the fire danger on the day the fire is reported.

Value	Description
1	National Fire Danger Rating System
2	Palmer Drought
3	Keetch-Byram
4	Haines Index
5	Canadian Forest Fire Danger Rating System

Attribute: Fire Danger Index Value

A value that describes the severity of potential burning conditions.

Base type/Size:

Domain: Quantity

Reference Entity: Fire Management Strategy

The strategy employed for managing either a prescribed fire (natural or management ignited) or a wildfire.

Attribute: Fire Management Strategy Code

The code that designates the particular strategy employed to manage the fire. Examples include contain, confine, control, prescribed fire, structure.

Base type/Size: INTEGER

Domain: Fire Management Strategy

The strategy employed for managing either a prescribed fire (natural or management ignited) or a wildfire.

Value	Description
1-1	contain
1-2	confine
1-3	control
3-1	prescribed fire
5-1	structure strategy

Data Entity: Fire Resource Sub-Type

The type of resource used on a fire.

Attribute: Fire Resource Sub-Type Code

The code used to identify a particular resource type.

Base type/Size: VARCHAR2/4

Domain: Fire Resource Sub-Type

The capability class of the equipment resource (ICS type) that is used to manager the fire, the equipment used in direct suppression operations on a fire, or the sub-type of fire resource type.

Value	Description
A1-1	Airtanker- Type 1
A1-2	Airtanker - Type 2
A1-3	Airtanker - Type 3
A1-4	Airtanker - Type 4
A2-1	Helicopter - Type 1
A2-2	Helicopter - Type 2
A2-3	Helicopter - Type 3
A2-4	Helicopter - Type 4
A3-1	Helitanker - Type 1
A3-2	Helitanker - Type 2
A3-3	Helitanker - Type 3
A3-4	Helitanker - Type 4
A4-1	Fixed Wing - Light
A4-2	Fixed Wing - Medium
A4-3	Fixed Wing - Heavy
A98	Aircraft not in list
C1	Crew (Type 1)
C2	Crew (Type 2)
E1-1	Dozer - Type 1
E1-2	Dozer - Type 2
E1-3	Dozer - Type 3 (backhoe or light)
E2-1	Engine - Type 1
E2-2	Engine - Type 2

Value	Description
E2-3	Engine - Type 3
E2-4	Engine - Type 4
E2-5	Engine - Type 5
E2-6	Engine - Type 6
E2-7	Engine - Type 7
E3-1	Tracked (General Purpose)
E4-1	Tractor Plow
E4-2	Motor Grader
E5-1	Fire Boat
E6-1	Unimogs
E7-1	Water Tender - Type 1
E7-2	Water Tender - Type 2
E7-3	Water Tender - Type 3
E98	Fire Equipment not in list
ICT1	Incident Commander Type 1
ICT2	Incident Commander Type 2
ICT3	Incident Commander Type 3
ICT4	Incident Commander Type 4
ICT5	Incident Commander Type 5
RXB1	Prescribed Fire Burn Boss Type 1
RXB2	Prescribed Fire Burn Boss Type 2
RXB3	Prescribed Fire Burn Boss Type 3
RXB4	Prescribed Fire Burn Boss Type 4
S98	Other Overhead Resource (support, logistics)
S99	Other Overhead Resource (fire operations)

Reference Entity: Fire Resource Type

The type of hand crews used on a fire and describes the capability of the particular resource (ICS Type I, Type II).

Attribute: Fire Resource Type Code

The type of hand crews used on a fire and describes the capability of the particular resource (ICS Type I, Type II). Examples include Type 1, Type 2.

Base type/Size: INTEGER/1

Domain: Fire Resource Type

The type of resource used on a fire.

Value	Description
1	Equipment
2	Aircraft
3	Supervision

Reference Entity: Fire Stage

A description of the stages a fire can go through.

Attribute: Fire Stage Code

The code describing the phase or progress benchmark of the fire. Examples include Ignition, report, initial action, fire out.

Base type/Size: INTEGER/2

Domain: Fire Stage

A description of the stages a fire can go through.

Value	Description
0	false alarm
1	ignition
2	report
3	initial action
4	fire out

Reference Entity: Fire Type

The categories of reportable fires as defined by Wildland Fire Management Terminology.

Attribute: Fire Type Code

The code describing the management response to the fire. Example includes a Natural Out fire (a Wildland Fire declared out with no Fire Resource Usage).

Base type/Size: INTEGER/1

Domain: Fire Type

Categories of reportable fires as defined by Wildland Fire Management Terminology.

Value	Description
1	Wildland Fire
2	Prescribed Fire
3	Structure Fire

Reference Entity: Human Activity

A human activity associated with or contributing to the cause of a fire.

Attribute: Human Activity Code

A human activity associated with or contributing the cause of a fire. Examples include Logging/Timber Harvest, Hunting.

Base type/Size: INTEGER/2

Domain: Human Activity

A human activity associated with or contributing to the cause of a fire. Previously referred to as "General Cause."

Value	Description
00	Not Applicable
01	Logging/Timber Harvest
02	Land Management Activities (forest, range, wildlife, archaeological, trail, ...)
03	Permitted harvest (does not include illegal materials.)
05	Harvest illegal material
05	Non-Permitted harvest
06	Social Gathering (party, wedding, ...)
07	Construction, Maintenance
08	Social Gathering (party, wedding, ...)
09	Hunting
10	Fishing
11	Camping
12	Picnicking
13	Other non-motorized recreation (hiking, kayaking, cycling ...)
14	Target Practice
15	Fireworks Use
16	Motorized recreations, on road (motorcycle, automobile riding)
17	Motorized recreation, off-road vehicle use
18	Product transportation (does not include harvest activities)
19	Subsistence
20	Farming

Value	Description
21	Livestock Grazing
22	Religious or Ceremonial Activity
23	Mining, mineral extraction
24	Oil/Gas Production
25	Blasting
26	Military Operations
27	Construction, maintenance
97	Multiple human activities
98	Human Activity not in list
99	Not applicable, no human activity

Reference Entity: Human Fault

A human act that contributed to the cause of a fire.

Attribute: Human Fault Code

A failure or fault by a human that contributed to the cause of a fire. Examples include falling asleep, inattention, abandonment.

Base type/Size: INTEGER/2

Domain: Human Fault Type

A human act that contributed to the cause of a fire.

Value	Description
00	Not applicable, no human activity
01	Failure to maintain equipment
02	Improper operation/use
03	Equipment overload
04	Improper storage or transport of flammable materials
05	Collision
06	Inattention
07	Falling asleep
08	Abandonment
09	Impairment
10	Failure to completely extinguish legitimate fire
11	Failure to manage existing fire
98	Other human fault
99	Unknown human fault

Reference Entity: Ignition Cause (General)

The highest level of fire classification. This value is considered to be the official statistical cause of the fire.

Attribute: (General) Ignition Cause Code

The highest level of fire classification. Examples include Natural, Equipment Use, Smoking.

Base type/Size: INTEGER/1

Domain: Ignition Cause (General)

The highest level of fire classification.

Value	Description
0	Undetermined-temporary code usable for an agency-defined period until cause is known
1	Natural-ignition from natural means including lightning, volcanic activity, combustion, or solar heat
2	Equipment Use-ignition attributable to vehicles, portable or static devices
3	Smoking-ignition from open flame, sparks, or other material associated with smoking
4	Open or Outdoor Fire-ignition from open flame such as a campfire that burns beyond source area
5	Debris/Vegetation Burn-ignition from fire intended to remove or reduce debris or residue
6	Structure-ignition from a permanent structure to wildland fuels. Does not include wildland fires that subsequently burn a structure
7	Incendiary- deliberately set ignition with malicious intent
8	Misuse of Fire -ignition from misused flame or burning materials, such as playing with matches, fireworks, and explosives
9	Other Causes-ignition sources not identified above

Reference Entity: Ignition Cause (Specific)

The specific cause of a fire ignition. *For 2-07 Logging Equipment, only appropriate to identify actual equipment used in the logging activity and not to identify logging equipment in transit.*

Attribute: (Specific) Ignition Cause Code

The specific cause of a fire ignition.

Base type/Size: VARCHAR2/4

Domain: Ignition Cause (Specific)

The specific cause of a fire ignition. The first number identifies the Ignition Cause (General). The second number identifies Ignition Cause (Specific).

Value	Description
0-00	Not reported
0-98	Undetermined cause not on list
0-99	Unknown undetermined cause
1-01	Lightning
1-02	Volcanic and geothermal action
1-03	Spontaneous Combustion (peat bog, dung...)
1-04	Sun's heat (usually magnification through glass bottles, jars...)
1-98	Natural cause not in list
1-99	Unknown Natural Cause
2-01	Passenger Vehicle (autos, pickups, and other passenger vehicles)
2-02	Recreational Vehicle (5th wheeler, motor home, travel trailer, camper ...)
2-03	Freight/Large Transport Vehicle (semi-truck/trailer, logging truck)
2-04	Off-Road Vehicle (4-wheeler, jeep, motorbike, snowmobile...)
2-05	Motorcycle
2-06	Construction Equipment (front-end loader, dozer ...)
2-07	Home/garden vehicle
2-08	Logging Equipment (log line, tail block, feller/grappler, tower, splitter ...)
2-09	Farming Equipment (tractor, baler, chemical applicators ...)

Value	Description
2-10	Aquatic Craft (boat, boat motor, house boat, jetski ...)
2-11	Railroad rolling stock (non-powered)
2-12	Railroad Equipment (locomotive, rail car, hot box, braking system ...)
2-13	Industrial vehicle
2-14	Firearm
2-15	Camping and outdoor recreation equipment
2-16	Welding Equipment (arc welding rods, torch...)
2-17	Power Tool (Electric Drill ...)
2-18	Chainsaw
2-19	Fireplace, chimney, flue
2-20	Appliance
2-21	Small Engine (internal combustion)
2-22	Electric Production/Transmission/Distribution Equipment (transformer, wire, circuit breaker ...)
2-23	Gas Production/Transmission/Distribution (pipeline, main, conduit...)
2-24	Oil Production/Transmission/Distribution (pipeline, main, conduit...)
2-25	Flammable liquid handling, transportation equipment
2-26	Aircraft (rotor and fixed wing, hang glider, ultra-lite ...)
2-98	Equipment Cause not in list
2-99	Unknown Equipment Cause
3-01	Cigarette lighter
3-02	Match
3-03	Burning material
3-98	Smoking cause not in list
3-99	Unknown smoking cause
4-01	Warming (fire primarily ignited to provide warmth)
4-02	Cooking (fire primarily ignited to cook food)
4-03	Signal
4-04	Religious or Ceremonial
4-05	Smoke-out (insects, game, predators ...)
4-06	Protection (repel animals)
4-98	Open Fire Cause not in list
4-99	Unknown Open Fire Cause

Value	Description
5-01	Trash (material not confined by barrel or similar appliance)
5-02	Barrel
5-03	Dump
5-04	Pile (hand, tractor, landing, windrow)
5-05	Field or Land Clearing
5-06	Wildland Activity-Generated Residue (slash) not in piles
5-07	Naturally Occurring Residue (accumulated fuels)
5-08	Industrial Generated Residue (tire, landfill, dump ...)
5-98	Debris/vegetation disposal cause not in list
5-99	Unknown debris/vegetation cause
6-01	Electrical Wiring
6-02	Appliance
6-03	Smoking within structure
6-04	Flue or chimney
6-05	Chemical
6-98	Structure Cause not in list
6-99	Unknown Structure Cause
7-01	Pyromania (irresistible urge to set fire)
7-02	Arson: Job Hunting
7-03	Arson: Grudge Fire
7-97	Other Arson not in list
7-98	Other Incendiary not in list
7-99	Unknown Incendiary Cause
8-01	Fire Starter (matches, lighter, mirror, flint ...)
8-02	Aerosol Can
8-03	Fireworks
8-98	Misuse Cause not in list
8-99	Unknown Misuse Cause
9-01	Chemical/Mineral (coal dust, sulphur, magnesium, paint, fertilizer)
9-02	Backfire (if a backfire gets away and a new fire report is opened)
9-03	Spot from existing Fire (new fire report is opened)
9-04	Explosive (all types other than fireworks)
9-05	Illegal Substance Production
9-98	Other Cause not in list

Value	Description
9-99	Unknown other cause

Integrity Constraint: **Fire Specific Cause**

Business Rule: A Specific Cause may only be used with the appropriate Statistical Cause to which it is related.

Data Entity: Legal Description

A legal (Public Land Survey System) description of a location point, including township, range, section, quarter-section, quarter-quarter-section, principal meridian.

Attribute: Legal Description Township

The North/South reference of a township from the principal meridian.

Base type/Size: CHARACTER/20

Domain: Name

A name for a given item.

Attribute: Legal Description Range

The East/West reference of a township from the principal meridian.

Base type/Size: CHARACTER/20

Domain: Name

A name for a given item.

Attribute: Legal Description Section

The sub-measurement of a Township (1 of usually 36 - 640 acres).

Base type/Size: CHARACTER/20

Domain: Name

A name for a given item.

Attribute: Legal Description Quarter-Section

The sub-measurement of a section (160 acres).

Base type/Size: CHARACTER/20

Domain: Name

A name for a given item.

Attribute: Legal Description Quarter-Quarter-Section

The sub-measurement of the section (40 acres).

Base type/Size: CHARACTER/20

Domain: Name

A name for a given item.

Attribute: Legal Description Principal-Meridian

The principal meridian that forms the basis of the survey using the Public Lands Survey System (PLSS). Examples include 1st Principal, Boise, Ute, Willamette.

Base type/Size: INTEGER/2

Domain: Principal Meridian

The principal meridian that represents the survey bounds as determined by the Public Lands Survey System (PLSS).

Value	Description
01	1st Principal
02	2nd Principal
03	3rd Principal
04	4th Principal
05	5th Principal
06	6th Principal
07	Black Hills
08	Boise
09	Chickasaw
10	Choctaw
11	Cimarron
12	Copper River
13	Fairbanks
14	Gila and Salt River
15	Humbolt
16	Huntsville
17	Indian
18	Louisiana

Value	Description
19	Michigan
20	Principal
21	Mt. Diablo
22	Navajo
23	New Mexico
24	St. Helena
25	St. Stephens
26	Salt Lake
27	San Bernadino
28	Seward
29	Tallahassee
30	Uintah
31	Ute
32	Washington
33	Willamette
34	Wind River
35	Ohio
36	Great Miami River
37	Muskingum River
38	Ohio River
39	1st Scioto River
40	2nd Scioto River
41	3rd Scioto River
42	Ellicotts Line
43	12 Mile Square
44	Kateel River
45	Umiat

Data Entity: Location Area

The physical and geographic boundaries of a fire location area.

Attribute: Location Area ID

The unique numeric identifier for a specific location.

Base type/Size: /10

Domain: Identifier

An attribute that uniquely identifies an entity or relationship.

Attribute: Location Area Size

The size in a unit of measure for the area.

Base type/Size:

Domain: Quantity

A number indicating a quantity or size of something.

Attribute: (Area) Location Area Unit Measure

The unit of measure for the area. Examples include Acres, Hectares.

Base type/Size: INTEGER/1

Domain: Unit of Measure (Area)

A description of measurement for an area. Examples include acres, hectares, square miles.

Value	Description
1	acres
2	hectares
3	square miles
4	square chains

Attribute: Location Area Measurement Method

The method used to obtain the fire area size.

Base type/Size: INTEGER/2

Domain: Measure Method

The method used to document a location's area. Examples include GPS, ocular, remote sensed.

Value	Description
1	GPS, AC Loran
2	ocular
3	remote sensed (photo points ...)
4	paced perimeter
5	survey transects
6	map overlay (dot grid, planimeter ...)

Attribute: Location Area Digital Polygon Available?

A Yes/No response that determines whether a digital polygon is available from an external GIS system.

Base type/Size: BOOLEAN/1

Domain: Boolean

A (Y)es or (N)o value.

Value	4
N	
Y	

Integrity Constraint: Area Fuel Model

Data Rule: There must be at least one active relationship to an Area Fuel Model for a particular Location Area.

Data Entity: Location Point

A topographic description for a point location on the fire.

Attribute: Location Point Latitude/Longitude

The latitude and longitude location of the fire's origin point specified in degrees, minutes, and seconds. An example includes 120 degrees, 40 minutes, 5 seconds.

Base type/Size: **VARCHAR2/20**

Domain: **Latitude/Longitude**

An expression of a point location in terms of latitude and longitude.

Attribute: Location Point Lay Land

A description of the general lay of the land at the point of origin.

Base type/Size: **INTEGER/1**

Domain: **Lay of the Land**

A description of the general lay of the land. Examples include Ridgetop, Flat, Saddle, Bench.

Value	Description
1	Ridgetop
2	Flat
3	Saddle
4	Canyon
5	Chimney
6	Bench
7	Valley
8	Mesa
9	Plateau

Attribute: Location Point Elevation

The elevation of a specific point. An example includes 2000 ft.

Base type/Size: NUMBER

Domain: Quantity

The distance from mean sea level, measured in feet.

Attribute: Location Point Slope

The slope at the point of origin calculated as rise distance over run distance, expressed as a percent.

Base type/Size DECIMAL/3

Domain: Percent

A method of measuring slope or degree of angle.

Attribute: Location Point Aspect

The aspect of a slope. Examples include NW, SW, SE, SW, E, W, N, S.

Base type/Size: INTEGER

Domain: Aspect

The general direction that a given slope faces.

Value	Description
0	Flat
1	North
2	Northeast
3	East
4	Southeast
5	South
6	Southwest
7	West
8	Northwest

Attribute: Location Point Position Slope

A description of the point of origin on the slope. Examples include Lower Slope, Mid Slope, Upper Slope.

Base type/Size **INTEGER/1**

Domain: **Position on Slope**

Indicates a point location's relative position on a slope.

Value	Description
1	Lower Slope
2	Mid Slope
3	Upper Slope

Integrity Constraint: Location Point Fuel Model

Business Rule: For a given point, only one fuel model system may be used at a time.

Integrity Constraint: Origin State Designation

Business Rule: For each Fire Origin Location Point, a link to a State type Special Area **MUST** be documented.

Data Entity: Lookout

A fixed or temporary structure or vehicle that serves as an observation post to detect fires.

Attribute: Lookout ID

A unique identifier for a temporary or permanent lookout tower.

Base type/Size: INTEGER/10

Domain: Identifier

An attribute that uniquely identifies an entity or relationship.

Attribute: Lookout Name

A locally-defined name for a temporary or permanent lookout tower.

Base type/Size: VARCHAR2/20

Domain: Name

A name for a given item.

Attribute: Lookout Temporary ?

A Yes/No response that identifies the lookout tower as temporary.

Base type/Size: BOOLEAN/1

Domain: Boolean

A (Y)es or (N)o value.

Value	Description
N	no
Y	yes

Reference Entity: NFDRS Fuel Model

A fuel model identified by the National Fire Danger Rating System.

Attribute: NFDRS Fuel Model ID

A fuel model identified by the National Fire Danger Rating System. An example includes Western Annuals.

Base type/Size: VARCHAR2/1

Domain: NFDRS Fuel Model

A fuel model identified by the National Fire Danger Rating System.

Value	Description
A	Western Annuals
B	Mature Brush (6 ft)
C	Open Pine/Grass
D	Southern Rough
E	Hardwood Litter/Fall
F	Intermountain West Brush
G	West Coast conifers; close, heavy down materials
H	Short needle conifers; normal, down woody materials
I	Heavy slash, clearcut conifers (> 25 tons/acre)
J	Medium slash, heavily thinned conifers (> 25 tons/acre)
K	Light slash (< 15 tons/acre)
L	Perennial grasses
N	Saw grass, marsh needle-like grass
O	High pocosin
P	Southern long-needle pine
Q	Alaska black spruce
R	Hardwood litter (summer)
S	Tundra
T	Sagebrush with grass
U	Western long-needled pine

Data Entity: NFIRS Cause

The NFIRS (NFPA-901) fire cause coding system for fires, for structure fires only. Information includes Area of Fire Origin Code, Heat source Code, Item First Ignited Code, Type of Material First Ignited Code, Cause of Ignition Code. *See also NFPA - 901 Standard Classifications for Incident Reporting and Fire Protection Data - 1995 Edition).*

Attribute: (NFIRS Area Fire) Origin Code

The code that identifies the room, area, or portion of a room where the fire originated, used only when the Ignition Cause (General) is specified as "Structure."

Base type/Size:

Domain: NFIRS Area of Fire Origin

The code that identifies the room, area, or portion of a room where the fire originated.

Value	Description
0	Means of Egress
0-01	Hallway, corridor, mall
0-02	Exterior stairway
0-03	Interior stairway
0-04	Escalator way
0-05	Lobby, entrance way
0-09	Means of Egress not listed
1	Assembly, Sales Areas (groups of people)
1-11	Large assembly area with fixed seats (100 or more persons)

Attribute: NFIRS Heat Source Code

The heat source that ignited the fire, used only when the Ignition Cause (General) is specified as "Structure."

Base type/Size:

Domain: NFIRS Heat Source

The heat source that ignited the fire.

Value	Description
0	Heat, Sparks, Ember, or Flames from Outside, Open Fires
0-01	Outside open fire for debris or waste disposal
0-02	Outside open fire for warming
0-03	Outside open fire for cooking
0-04	Outside open bonfire
0-05	Agricultural burns, land management burns

Attribute: NFIRS Item First Ignited Code

The first item ignited that contributed to most of the smoke or flame development. Examples include Structural Component, Finish.

Base type/Size:

Domain: NFIRS Item First Ignited

The first item ignited that contributed to most of the smoke or flame development.

Value	Description
1	Structural Component, Finish
1-11	Exterior roof covering, surface, finish
1-12	Exterior sidewall covering, surface, finish
1-13	Exterior trim, appurtenances
1-14	Floor covering, surface
1-15	Interior wall covering

Attribute: NFIRS Type Material First Ignited Code

The type of material first ignited in its raw form. Examples include grass, duff, peat.

Base type/Size:

Domain: NFIRS Type of Material First Ignited

The type of material first ignited in its raw form.

Value	Description
0	Wood, Cellulose-Naturally Occurring
0-01	Grass
0-02	Leaves, needles, litter (vegetative)
0-03	Duff
0-04	Peat
0-05	Live tree, brush

Attribute: NFIRS Cause Ignition Code

The general cause of the structure fire, used only when the Ignition Cause (General) is specified as "Structure." Examples include Intentional, Act of Nature.

Base type/Size:

Domain: NFIRS Cause of Ignition

The code that identifies the room, area, or portion of a room where the fire originated.

Value	Description
1	Intentional
2	Unintentional
3	Failure of equipment or heat source
4	Act of nature
5	Cause under investigation
6	Cause undetermined after investigation

Reference Entity: NFIRS Factors Contributing to Ignition

NFIRS Factors that contributed to the ignition. Codes are collected from the NFPA-901 Contributing Factors standard. *See also NFPA - 901 Standard Classifications for Incident Reporting and Fire Protection Data - 1995 Edition*).

Attribute: NFIRS Factor Contributing-to-Ignition Code

Any reported incident information not captured by other data elements but has a contributing factor on ignition, fire or smoke spread, incident complexity, or the existence of hazardous conditions, used only when the Ignition Cause (General) is specified as "Structure." Examples include Build Construction or Design Factors.

Base type/Size:

Domain: NFIRS Factors Contributing to Ignition

Any reported incident information not captured by other data elements but has a contributing factor on ignition, fire or smoke spread, incident complexity, or the existence of hazardous conditions.

Value	Description
1	Building Construction or Design Factors
1-111	Panelled Roof
1-112	Roof collapse
1-113	Roof assembly combustible
1-114	Roof covering
1-121	Ceiling collapse

Data Entity: **Organization**

An internal or external group of people organized for a specific purpose.

Attribute: **Organization ID**

The unique identifier of an organization.

Base type/Size: CHARACTER/20

Domain: Alphanumeric Code

Attribute: **Organization Type Code**

The general type of organization. Examples include Federal, Military, State.

Base type/Size INTEGER/2

Domain: Organization Type

The classification of an organization, agency, or sub-unit.

Value	Description
1	Federal
2	State
3	Private
4	Foreign
5	Non-Profit (environmental trust lands, nature conservancy ...)
7	City
8	County
9	Military
10	Tribal
11	Native Corporation (Alaska ...)
98	Organization Type not in list

Attribute: Organization Name

The name of the organization. Examples include Willamette National Forest Yosemite National Part, private.

Base type/Size: CHARACTER/20

Domain: Name

A name for a given item.

Reference Entity: Prescribed Burn Type

A description of the type of burn that occurred.

Attribute: Prescribed Burn Type Code

The general type of prescribed burn. Examples include Broadcast, Pile, Right of Way, Spot.

Base type/Size: INTEGER/1

Domain: Prescribed Burn Type

A description of the type of burn that occurred.

Value	Description
1	Broadcast
2	Pile
3	Right of Way
4	Spot

Reference Entity: Protection Agreement Type

The type of agreement that applies to the protection method for a location area.

Attribute: Protection Agreement Type Code

The type of agreement that applies to the protection method for a location area. Examples include Mutual Aid, Reciprocal Agreement, Contract, Cooperative Agreement.

Base type/Size: INTEGER/1

Domain: Protection Agreement Type

The type of agreement that applies to the protection method for a location area.

Value	Description
0	No Agreement
1	Reciprocal Agreement
2	Mutual Aid
3	Compact
4	Contract
5	Cooperative Agreement
6	Memorandum of Understanding (MOU)

Reference Entity: **Special Area Type**

An area of significant administrative concern, requires special consideration, or is officially designated or legislated. It is often designated on a map.

Attribute: **Special Area Type Code**

An area of significant administrative concern, requires special consideration, or is officially designated or legislated. It is often designated on a map. Examples include Wilderness, Fire Protection District, State, Primitive Area.

Base type/Size: INTEGER/2

Domain: Special Area Type

An area of significant administrative concern, requires special consideration, or is officially designated or legislated. It is often designated on a map.

Value	Description
1	Federal Congressional District (House, Senate)
2	County, Borough, Parish, Township
3	Fire Management Zone/Unit (FMZ)
4	Wilderness
5	Fire Protection Districts
6	Primitive Area
7	Research Natural Areas
8	Late Successional Reserve (LSR)
9	Wilderness Study Area
10	Endangered Species Critical Habitat
11	Tribal Allotment
12	Municipal Watershed
13	State
14	Nuclear Reservation
15	Roadless Area
16	Religious/Ceremonial Area (e.g. Blue Lake, Medicine Wheel)
18	Recreation Area
19	Military Operations Area
20	Range Allotment
21	Urban/Wildland Interface
26	Native Allotment (AK Native Claims Settlement Act Lands)

Value	Description
27	Wild and Scenic River Corridor
98	Administrative Area not in list

Reference Entity: Special Condition Type

Temporary conditions that affect a fire's management strategy other than physical (topographic), weather and fire behavior conditions.

Attribute: Special Condition Type Code

The code that describes the special condition. Examples include fire restriction, parade, road closure

Base type/Size: INTEGER/2

Domain: Special Condition Type

Temporary conditions that affect a fire's management strategy other than physical (topographic), weather and fire behavior conditions.

Value	Description
1	threatened and endangered species
3	timber sale activity
5	fire restriction
11	construction site
12	hazardous materials
13	road closure
14	air space restriction
16	military activity
17	special event or holiday
18	fireworks display
19	organization picnic
23	county fair
24	training event
25	parade
26	public gathering
27	historic disturbance - flood
28	historic disturbance - insect infestation
29	historic disturbance - windthrow/blowdown
98	Special Condition not in list

Reference Entity: Specific Cause Detail

A sub-classification of Ignition Cause (Specific) that further identifies a specific ignition cause.

Attribute: Specific Cause Detail Code

A sub-classification of Ignition Cause (Specific) that further identifies a specific ignition cause. Examples include Powersaw: bar friction.

Base type/Size: INTEGER/2

Domain: Specific Cause Detail

A sub-classification of Ignition Cause (Specific) that further identifies a specific ignition cause.

Reference Entity: Strategy Shift Reason

The reason for a shift in strategy.

Attribute: Strategy Shift Reason Code

The reason for a shift in strategy. Examples include weather changed, political conditions, smoke intrusion.

Base type/Size: INTEGER/2

Domain: Fire Strategy Shift Reason

The reason for a shift in strategy.

Value	Description
1	declared out
2	exceeded Maximum Manageable Area (MMA)
3	met EFSA threshold
4	weather change
5	hazard mitigation
6	political conditions
7	objective achieved
9	over allocation of resources
10	failed to meet EFSA threshold
11	Established EFSA
12	reached burn plan trigger point
13	established FSA
14	encountered cost constraint
15	smoke intrusion
16	potential negative public health impact
17	public safety
18	objective(s) not met
19	firefighter safety
20	under allocation of resources
21	actual negative public health impact
22	nearing burn plan trigger point
23	complexed
24	consolidated
25	Red Flag warning issued

Value	Description
26	Red Flag watch issued
27	Red Flag warning cancelled
28	Red Flag watch cancelled
29	change in Planning Level
30	Line Officer's constraints
31	Management override (national, statewide, regional)
98	Strategy Shift Reason not in list

Reference Entity: Structure Type

The type of structure to further define Fire Cause and Values at Risk.

Attribute: Structure Type Code

The type of structure. Examples include House or Apartment, Barn, Shed, Lookout.

Base type/Size: INTEGER/2

Domain: Structure Type

The type of structure to further define Fire Cause and Values at Risk.

Value	Description
00	Not applicable
01	Residence (house or apartment) Structure used full or part-time
02	Mobile Home-a structure built on a chassis and designed to be pulled
03	Garage/Shop
04	Out House-structure used primarily as a sanitary facility
05	Shed/Shack-small storage structure primarily for small equipment
06	Barn-large structure primarily used to store farm equipment or house
07	Visitor Center/Museum-facility primarily designed or used for public displays
08	Government Building (non-residential)
09	Lookout-permanent structure designed to detect fires
10	Manufacturing facility-structure where physical or chemical materials are combined into new products. includes assembly of components
11	Commercial use
12	Open platform
98	Other structure not in list
99	Unknown

Attribute: Structure Status

The occupancy status of a structure. Examples include Occupied, Unoccupied.

Base type/Size: INTEGER/1

Domain: Structure Status

The occupancy status of a structure.

Value	Description
1	Vacant
2	Occupied
99	Unknown

Attribute: Historical Register?

A Yes/No response that identifies the structure as registered as a historical landmark.

Base type/Size: BOOLEAN//1

Domain: Boolean

A (Y)es or (N)o value.

Value	Description
N	no
Y	yes

Reference Entity: Value at Risk Sub-Type

A specific type of value at risk that may be threatened or affected by a fire.

Attribute: Value at Risk Sub-Type Code

The specific type of value that may be threatened or affected by fire.

Base type/Size: VARCHAR2/20

Domain: Value at Risk Sub-Type

The specific type of value that may be threatened or affected by fire.

Value	Description
Cultural-1	Archeological, Prehistoric, Artifact
Cultural-2	Cultural Landscape
Cultural-3	Designated Historic Building/Site
Cultural-4	Sacred/Religious Grounds
Equipment-1	Pipeline
Equipment-2	Communication
Equipment-3	Oil Well
Equipment-4	Vehicle
Equipment-5	Aircraft
Equipment-6	Powerline
Equipment-7	Radio Transmission And Antenna
Equipment-8	Pump Station
Equipment-9	Flammable Liquid Storage
Equipment-98	Equipment not in list
Natural-1	Airshed
Natural-2	Fish
Natural-3	Threatened And Endangered Species Habitat
Natural-4	Timber
Natural-5	Water
Structure-1	House or Apartment
Structure-2	Mobile Home
Structure-3	Garage/Shop
Structure-4	Out House
Structure-5	Shed/Shack
Structure-6	Barn

Value	Description
Structure-7	Abandoned Structure
Structure-8	Visitor Center/Museum
Structure-9	Government Building (non-residential)
Structure-10	Lookout
Structure-11	Historical Structure (>50 yrs old)
Structure-12	Factory
Structure-98	Structure not in list
Structure-99	Unknown Structure

Reference Entity: Value at Risk Type

A specific type of value at risk that may be threatened or affected by a fire.

Attribute: Value at Risk Type Code

The broadest classification of an item of value either threatened or affected by fire. Examples include structure, cultural resource, commodity resource.

Base type/Size: INTEGER/1

Domain: Value at Risk Type

The broadest classification of an item of value that is threatened or affected by fire.

Value	Description
1	structure
2	cultural resource
3	natural resource
4	commodity resource
5	improvement
6	equipment value at risk

Reference Entity: Vegetation Classification

The method used to classify cover type for a location area.

Attribute: Vegetation Classification Scheme Code

The scheme or classification system used to identify the cover type. Examples include SAF cover type codes, Kuchlers Natural Vegetation Potential.

Base type/Size: INTEGER/2

Domain: Vegetation Classification Scheme

The method used to classify cover type for a location area.

Value	Description
1	SAF Cover Type
2	Kuchlers Natural Vegetation Potential
3	Ecotype
4	Vierick
5	Walker
98	Vegetation Classification Scheme not in list

Attribute: Vegetation Classification Type ID

A unique identifier for a classification of vegetation.

Base type/Size: CHARACTER/10

Domain: Alphanumeric Code

A data element represented by an alpha-numeric value.

Data Entity: Weather Station

A piece of equipment used to measure weather conditions at a specific point or within an area.

Attribute: Weather Station ID

The unique identifier for a particular station where weather measurements are taken.

Base type/Size: INTEGER/10

Domain: Identifier

An attribute that uniquely identifies an entity or relationship.

Attribute: Weather Station Type Code

The type of weather station equipment. Examples include Automatic Weather Station (RAWS), Manual Weather Station.

Base type/Size: INTEGER/2

Domain: Weather Station Type

The classification of a weather station.

Value	Description
1	Automatic Weather Station (RAWS, FTS,...)
2	National Weather Service
3	Manual Weather Station
98	Weather Station Type not in list

Relationships

Relationship: Area Designation

Attribute: Special Area ID

A unique identifier for a special area.

Base type/Size: INTEGER/10

Domain: Identifier

An attribute that uniquely identifies an entity or relationship.

Relationship: Area Ownership

Attribute: Ownership Area Size

The size of a particular owned area.

Base type/Size:

Domain: Quantity

A number indicating a quantity or size of something.

Attribute: Ownership Area Unit Measure

The type of measurement used to determine the size of an area.

Base type/Size: INTEGER/1

Domain: Unit of Measure (Area)

A description of measurement for an area. Examples include acres, hectares, square miles.

Value	Description
1	acres
2	hectares
3	square miles
4	square chains

Attribute: Ownership Area Digital Polygon Available?

A Yes/No response that identifies whether a digital area polygon exists in a GIS for an area.

Base type/Size: BOOLEAN/1

Domain: Boolean

A (Y)es or (N)o value.

Value	Description
N	no
Y	yes

Relationship: Cover Type

Attribute: Cover Type Area Digital Polygon Available?

A Yes/No response to indicate whether there is a corresponding digital polygon for cover type available in a GIS system.

Base type/Size: BOOLEAN//1

Domain: Boolean

A (Y)es or (N)o value.

Value	Description
N	no
Y	yes

Relationship: Debris or Vegetation Burn Authorization

Attribute: Authorization ID

A unique numeric identifier for a specific Debris or Vegetation Burn Authorization.

Base type/Size: INTEGER/10

Domain: Identifier

An attribute that uniquely identifies an entity or relationship.

Attribute: Issuing Authority

Base type/Size:

Domain: To be determined

Relationship: Fire Complexity

Attribute: Fire Complexity Date/Time

The date and time a change in the complexity of the fire occurred.

Base type/Size: DATE

Domain: Date/Time

Relationship: Fire Cost

Attribute: Fire Cost Amount

A dollar amount for a particular cost category in a particular Agency's Financial Management Code for a fire.

Base type/Size: DECIMAL

Domain: Amount

A decimal number expressing a quantity of something.

Attribute: Fire Cost Category

A sub-class of costs for a fire. Examples include Aircraft, Overhead.

Base type/Size:

Domain: Fire Cost Category

The cost category used to detail fire cost.

Value	Description
1	Personnel
2	Supply
3	Aviation
4	Equipment
5	General

Relationship: Fire Management Strategy Evaluation

Attribute: Fire Management Strategy Evaluation Date/Time

The date/time an evaluation of a fire management strategy occurred.

Base type/Size: DATE

Domain: Date/Time

Attribute: Fire Management Strategy Evaluation Percent Achieved

An evaluation of the level of achievement of the selected strategy.

Base type/Size: DECIMAL/3.2

Domain: Percent

A method to designate ratios used during arithmetic calculations.

Attribute: Fire Management Strategy Evaluation Percent Perimeter

The portion of the fire perimeter being evaluated for achievement of the fire management strategy.

Base type/Size: DECIMAL/3.2

Domain: Percent

A method to designate ratios used during arithmetic calculations.

Relationship: Fire Resource Inventory

Attribute: Fire Resource Inventory Quantity

The number of a particular resource assigned to a fire.

Base type/Size:

Domain: Quantity

A number indicating a quantity or size of something.

Attribute: Fire Resource Inventory Date

The date and time that the inventory (count) of a given resource was taken.

Base type/Size: DATE

Domain: Date

Relationship: Fire Resource Usage (Initial Attack)

Attribute: (Initial Attack) Fire Resource Usage Quantity

The quantity of a particular fire resource assigned to a fire during initial attack.

Base type/Size:

Domain: Quantity

A number indicating a quantity or size of something.

Attribute: (Initial Attack) Fire Resource Arrival Date/Time

The date and time that a fire resource arrives at a fire.

Base type/Size: DATE

Domain: Date/Time

Relationship: Fire Size Within Perimeter

Attribute: Fire Size Within Perimeter Date/Time

The date and time the fire size within the line perimeter (actual burned) was recorded.

Base type/Size: DATE

Domain: Date/Time

Relationship: Fire Stage Determination

Attribute: Fire Stage Determination Date/Time

The date and time the fire phase or progress benchmark is recorded.

Base type/Size: DATE

Domain: Date/Time

Relationship: Fire Type Determination

Attribute: Fire Type Determination Date/Time

The date and time the fire type determination occurred.

Base type/Size: DATE

Domain: Date/Time

Integrity Constraint: Default Fire Type

Business Rule: Fire Type defaults to “Suppression” unless the reported location is within a PNF Zone, in which case the default Fire Type is “Candidate PNF.”

Relationship: Fuel Loading

Attribute: Fuel Loading Date/Time

The date and time a fuel loading measurement was taken.

Base type/Size: DATE

Domain: Date/Time

Attribute: Fuel Loading Size Class Code

A description of the fuel size class of the fuel loading measurement.

Base type/Size: INTEGER/1

Domain: Fuel Loading Size Class

The class of fuel loading measurement.

Value	Description
1	1 hr 0-1/4" diameter
2	10hr 1/4-1" diameter
3	100hr 1-3" diameter
4	1000hr 3"+

Attribute: Fuel Loading Value

A measurement of the number of tons per acre of a given size class of fuel.

Base type/Size:

Domain: Quantity

A number indicating a quantity or size of something.

Attribute: Fuel Loading Measurement Method

The measurement method used to determine fuel loading.

Base type/Size: INTEGER/2

Domain: Fuel Loading Measurement Method

The fire effects monitoring protocol used for the sample.

Value	Description
1	ocular
2	photo series
3	planar intersect
98	Fuel Measurement Method no in list

Relationship: Management Strategy

Attribute: Management Strategy Selection Date/Time

The date/time a fire management strategy was selected.

Base type/Size: DATE

Domain: Date/Time

Attribute: Management Strategy Percent Perimeter Targeted

The portion of the fire perimeter being targeted for achievement of the fire management strategy.

Base type/Size: DECIMAL/3.2

Domain: Percent

A method to designate ratios used during arithmetic calculations.

Attribute: Tactic

The tactic employed to implement a fire management strategy. For initial attack, it is used to interpret the functional use of an assigned resource.

Base type/Size: INTEGER/2

Domain: Suppression Tactic

Value	Description
1	wet line (water drop, hose, foam, ...)
2	hand line
3	machine produced line
4	retardant line
5	explosive
6	monitoring
7	surveillance
98	suppression tactic not in list

Integrity Constraint: Shift in Strategy Required Reporting

Business Rule: When a shift in strategy occurs, the following must be determined:

- Fire Management Strategy Evaluation (relationship)
- Fire Size (relationship).

Relationship: Protection Agreement

Attribute: Protection Agreement ID

A unique identifier for a protection agreement.

Base type/Size: INTEGER/10

Domain: Identifier

An attribute that uniquely identifies an entity or relationship.

Relationship: Strategy Shift for Special Condition

Attribute: Strategy Shift Special Condition Date/Time

The date and time a given fire management strategy changed due to Special Conditions.

Base type/Size: DATE

Domain: Date/Time

Relationship: Value Change

Attribute: Value Change Quantity

The measure of the value change in a quantitative unit.

Base type/Size:

Domain: Quantity

A number indicating a quantity or size of something.

Attribute: Value Change Unit Measure

The unit of measure of the specific value at risk.

Base type/Size: INTEGER/1

Domain: Unit of Measure

Value	Description
1	each
2	hectares
3	square miles
4	square chains

Glossary and acronym list

A

AC Loran. Navigating System.

AKMAC. Alaska Management Area Command.

ALP. Automated Lands Project.

AMIS. Aviation Management Information System. A comprehensive ORACLE relational database system for aircraft use information for contract aircraft. AMIS replaced the ACUSE system.

AMS. Asset Management System.

ARS. Automated Record System.

attribute. A descriptive item attached to an entity. Each occurrence of an entity can have one and only one value of an associated attribute.

AWSS. Agency-Wide Strategy Study. A report documenting the baseline condition that represents the current USDA Forest Service business and information environment, to help the Forest Service meet the changes brought about by ecosystem-based management and multicultural diversity.

AWC. Available Water Capacity.

B

BEHAVE. Fire Behavior Prediction System. A computer program that uses weather forecasts and historical weather data for projecting fire behavior.

BIA. USDI Bureau of Indian Affairs.

BLM. USDI Bureau of Land Management.

BPM. Business Process Model.

C

CASE. Computer Aided/Assisted Software Engineering. A package of software tools, incorporating a structured methodology, used to assist the analysis, design, construction, and maintenance of high quality systems for data processing. Such tools include graphics, dictionary, code generator, and project management.

CFFDRS. Canadian Forest Fire Danger Rating System.

CMS. Contact Management System.

CIO. Chief Information Officer.

CIRS. Criminal/Case Incident Reporting System.

CMS. Contact Management System/STRUCTURE.

complex. Two or more individual incidents located in the same general area which are assigned to a single Incident commander or to Unified Command.

Core Team. The primary group of people assigned the task of conducting the NIFSIP analysis and design.

COTS. Commercial Off The Shelf software.

CRUD. Create, Read, Update, Delete.

CSDS. Common Survey Data Structure. The field survey and sampling level (plot data) of the IRI and IDS. The process of integrating the field sample data into and developing a structure to house and manipulate this data within the IDS.

CSF. Critical Success Factor.

D

DBA. Database Administrator. A person or persons assigned to oversee the management and administration of the computer database.

deliverables. Specific products of NIFSIP, which include the Information Analysis Work Plan, the Analysis Phase Report, the General Design Phase document, and the Detailed Design document.

DoD. Department of Defense.

DOI. U.S. Department of the Interior (USDI).

DPD. District Production Database

E

ECA. Ecological Characterization and Analysis.

EGBCC. Eastern Great Basin Coordination Center.

EFSA. Escaped Fire Situation Analysis.

EM. Ecosystem Management.

EMCT. Ecosystem Management Corporate Team.

entity. A person, place, or thing or event of significance to the business, for which the business desires information.

Entity/Relationship. Graphic illustration of entities, business relationships between them, and the attributes used to describe them. Synonyms include Entity Model, Entity/Relationship Model, E/R Model, E/R Diagram, and Conceptual Data Model.

EUI. Ecological Unit Inventory.

F

FA. False Alarm.

FAM. Fire and Aviation Management. Generally refers to the Forest Service Washington Office staff responsible for the management of fire and aviation activities nationally. This is often generically used to refer to regional and forest staffs with similar responsibilities.

FARSIGHT. Fire Area Simulator.

FEIS. Fire Effects Information System.

FIA. Forest Inventory and Analysis program

FIRDAT/pcFIRDAT. A routine of the FIREFAMILY set of computer programs that combines historical weather records with NFDRS equations to produce frequency distributions of NFDRS indices and components.

FFALC. Federal Fire and Aviation Leadership Council.

FGDC. Federal Geographic Data Committee

FIPS. Federal Information Processing Standard. A system of uniform codes accepted by the federal government that identifies state and county names and codes.

FIREFAMILY. A computer program that uses historical weather data in conjunction with the 1978 NFDRS fuel models for fire planning. Its three major routines are FIRDAT, SEASON, and FIRINF.

FIRESTAT. Agency fire report system (NIFSIP).

FMO. Fire Management Officer.

FMZ. Fire Management Zone.

FOIA. Freedom Of Information Act.

FS. USDA Forest Service.

FSA. Fire Situation Analysis.

functional model. A graphical illustration of the functional decomposition of a business to the most elementary level of detail. The result is a hierarchical arrangement by business function, rather than business organization. Definitions associated with these functions are stored in a dictionary.

FVS. Forest Vegetation Simulator .

FWS. US Fish and Wildlife Service (DOI).

G

GACC. Geographic Area Coordination Center.

GIS. Geographic Information System.

GPS. Global Positioning System.

GSA. General Services Administration.

H

Haines. Drought index .

HOTSHOTS. Type 1 firefighting hand crews.

I

IA. Initial Attack.

IACC. Initial Attack Coordination Center.

IC. Incident Commander.

ICS. Incident Command System. A standardized on-scene emergency management concept specifically designed to allow its user(s) to adopt an integrated organizational structure equal to the complexity and demands of single or multiple incidents, without being hindered by jurisdictional boundaries.

ICS-209. Incident Status Summary report. A form routinely used by **ICS**.

IDS. Integrated Data Solutions; USFS - R2. An integrated data structure to house basic resource information. It stores attribute data associated with IRI points, lines, and polygons.

IFSA. Initial Fire Suppression Assessment.

IIAA. Interagency Initial Attack Assessment

incident. An occurrence either human caused or by natural phenomenon that requires action by emergency service personnel to prevent or minimize loss of life or damage to property and/or natural resources.

INFRA. Infrastructure; USFS WO.

IRI. Integrated Resource Inventory. A system that spatially locates, integrates, and describes water, land, and vegetation data in an electronic environment.

IRM. Information Resource Management.

K

KBDI. Keetch-Byram Drought Index.

Kuchlers Natural Vegetation Potential Vegetation classification system.

L

LE. Law Enforcement.

logical data model. A normalized model of the data elements associated with a business domain. This model will identify data elements, their associations and logical groups, associations between logical data groups, and the business rules about these components. The model components and rules are generally stored in a dictionary and graphically illustrated in diagrams.

LSR. Late Successional Reserve.

M

MAC. Multi-agency Coordination. Generalized term describing the functions and activities of representatives of involved agencies and/or jurisdictions who come together to make decisions regarding the prioritizing of incidents, and the sharing and use of critical resources. The MAC organization is not a part of on-scene ICS and is not involved in developing incident strategy or tactics.

MACS. Multi-agency Coordination System. Personnel, facilities, equipment, procedures, and communications integrated into a common system. Responsible for coordinating agency resources and support in a multi-agency or multijurisdictional environment.

MIRPS. Multi Agency Incident Resource Processing System.

MMA. Maximum Manageable Area. The limits of acceptable burned area for a prescribed natural fire or prescription control strategy, based on either land and resource management constrains or the fire management organization's capability and representing a reasonable defensible location for fire management.

MFA. Money Focus Area.

MOU. Memorandum of Understanding.

N

NASF. National Association of State Foresters.

NFC. National Fire Council.

NFDRS. National Fire Danger Rating System. A uniform fire danger rating system that focuses on the environmental factors that control the moisture content of fuels.

NFFL. Northern Forest Fire Laboratory.

NFIRS. National Fire Information Reporting System.

NFMAS. National Fire Management Analysis System. An application used to assess fire management options, based upon historical fire and weather data and various analytic parameters.

NFPA. National Fire Planning Association.

NFSPUF. Prescribed Fire Smoke Dispersion Model.

NIBRS. National Incident Based Reporting Systems.

NICC. National Interagency Coordination Center.

NIFMID. National Interagency Fire Management Integrated Database. An ORACLE database that contains wildland fire report and weather data.

NIFSIP. National Interagency Fire Statistics Information Project

NIIMS. National Interagency Incident Management System.

normalization. A process of data decomposition into structures in which each attribute of an entity is totally dependent upon the primary key of that entity. Each occurrence of an entity is then uniquely identifiable and accessible.

NPS. USDI National Park Service.

NRCS. Natural Resource Conservation Service.

NRIS. Natural Resource Information Strategy.

NVC. Net Value Change.

NWCG. National Wildfire Coordinating Group. Formed by direction of the Secretaries of the Interior and Agriculture to improve coordination and effectiveness of wildland fire activities and provide a forum to discuss, recommend appropriate action, or resolve issues and problems.

O, P

Palmer Drought. drought index.

PCHA. Personal Computer Historical Analysis.

PNF. Prescribed Natural Fire. A fire resulting from a natural ignition that is designated and managed as a prescribed fire.

PPA. Principal Project Advisors.

PUFF. Smoke model software.

Q, R

RAWS. Remote Automatic Weather Station. A WIMS satellite station that automatically tracks and stores weather information.

relationship. A significant way an entity is associated with itself or another entity.

RFD. Rural Fire Department.

RL. representative location.

RMCC. Rocky Mountain Coordination Center.

ROS. Rate of Spread. The actual or calculated spread of a fire, usually in chains per hour. ROS.

ROSS. Resource Order and Status System.

Rx fire. Prescribed Fire. A wildland fire burning under preplanned, specified conditions to accomplish specific planned objectives. It may result from either a planned or unplanned ignition.

S

SACS. Shared Application Computer System.

SAF . Society of American Foresters.

SAR. Search and Rescue.

SASEM. Simple Approach Smoke Estimation Model.

SEASON/pcSEASON. A routine of FIREFAMILY tat uses FIRDAT's (or pcFIRDAT's) results to tabulate and graph one NFDRS index, component, or fuel moisture at a time to show seasonal weather patterns.

SPF. State and Private Forestry.

T

T and E. Threatened and Endangered.

U

UOM. Unit of Measurement.

USDA. United States Department of Agriculture.

USDI. United States Department of the Interior.

USFS. USDA Forest Service.

USGS. United States Geological Survey.

UTM. Universal Transmercator Measurement.

V

VFD. Volunteer Fire Department.

Vierick. Vegetation classification scheme.

W

Walker. Vegetation classification scheme.

WESTAR. Western Air Resources.

WFAS. Wildland Fire Assessment Program.

WIMS. Weather Information Management System. A comprehensive system that manages fire weather information. WIMS replaced the AFFIRMS system.

WO. Washington Office.

WUI. Wildland/Urban Interface.

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