

Roads and Trails Data Dictionary

Shasta-Trinity National Forest

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Layer: Roads and Trails

The Roads and Trails layer contains the following coverage

Coverage Name: *strdstrails*

Coverage Description: The strdstrails coverage depicts the spatial location of roads and trails in and around the Shasta-Trinity National Forest Administrative Unit of Region 5, California.

Associated National Application: INFRA Travel Routes

References: FSH 7709.54-56

INFRA Web Page:

<http://pcs27.f16.r6.fs.fed.us/infra/>

Spatial Data Source: The initial spatial data source from which this coverage was derived was produced by the Geospatial Service and Technology Center (GSTC), called Cartographic Feature Files (CFF) data. CFF data was collected by digitizing line and point features shown on Forest Service Primary Base Series (PBS) maps. The PBS map from which the CFF is derived meets National Map Accuracy Standards (NMAS), which for 1:24,000-scale maps requires that 90 percent of all well-defined map features be shown within 40 feet of their true location on the ground. Refinements in accuracy and precision to these files were made by forest personnel using digital orthoganol quads (source 1993 1-meter B&W), global positioning and local knowledge of field personnel.

Routing was completed in January of 2001 for the ROAD route system. Routes are currently not present for the TRAIL route system pending further refinements of the CFF and other existing trail coverages, such as that developed for the Trinity Alps Wilderness Map. A cursory quality control and connection to Travel Routes Oracle database was made in May 2001 for the ROAD route systems.

Horizontal Accuracy: Minimally targeted to National Map Accuracy Standards (NMAS) as described above. Only the arc feature carries the source of line data, in the item called ORIGIN in the strdstrails.aat.

Projection:	Transverse Mercator	Spheroid:	Clarke 1866
Coordinate System:	UTM	Zone:	10
Units of Measure:	meters	Precision:	Single
Datum:	NAD27	Feature Type:	Route: <i>ROAD, MAJOR, TRAIL (future)</i> Arc

Route Systems: Name: ***ROAD***

Description: This route system depicts all classified roads within and in close proximity to the Shasta-Trinity National Forest and that are included in the INFRA Oracle Travel Routes Database. A road is a major travel way over 50 inches wide, unless classified and managed as a trail. A road may be classified or unclassified. Classified roads are roads within National Forest System lands planned and managed for motor vehicle access including state roads, county roads, cost-share roads, permitted roads, and Forest Service roads. Within this group, all Forest Service roads are represented in this coverage and non-Forest Service roads when necessary to gain access to Forest Service roads and/or Forest Service administrative sites. Currently, unclassified roads are not part of this route system. Unclassified roads are roads not intended to be part of, and not managed as part of the forest transportation system, such as temporary roads, and unplanned, un-engineered, unauthorized off-road vehicle tracks and abandoned travel ways.

Name: ***TRAIL***

Description: This route system will be made in the later half of 2001. The *TRAIL* route system will depict all trails within or in close proximity to the Shasta-Trinity National Forest and that are included in the INFRA Oracle Travel Routes Database. A trail is a linear feature constructed for the purpose of allowing the free movement of people, stock, or OHVs.

Comments: Route measures are currently in meters. Route direction correspond to those stored in the INFRA Oracle table RTE_BASICS, but measures are in miles. In order to use dynamic segmentation to connect the spatial coverage with the INFRA Oracle table, employ the REMEASURE command in Arc/Info or recalculate the BMP EMP fields in the tabular database from miles to meters. A view of the linear events contained in the INFRA Oracle database has been packaged in this winzip file as a dbase III file, named infra.dbf.

Arc: Name: *travel_strdstrailss.aat*

Description: The arc attribute file carries a limited number of attributes describing the rte_no, road-id, cff codes, source of data and last revision date.

INFO Attribute Tables

strdstrails.ratroad

COLUMN	ITEM NAME	WIDTH	OUTPUT	TYPE	N.DEC	ALTERNATE NAME	INDEXED?
1	ROAD#	4	5	B	-		-
5	ROAD-ID	4	5	B	-		-
9	RTE_NO	30	30	C	-		Indexed

strdstrails.aat

COLUMN	ITEM NAME	WIDTH	OUTPUT	TYPE	N.DEC	ALTERNATE NAME	INDEXED?
25	STRDSTRAILS#	4	5	B	-		-
29	STRDSTRAILS-ID	4	5	B	-		-
33	RTE_NO	30	30	C	-		Indexed
63	ORIGIN	3	3	C			
66	ROAD_ID	20	20	C	-		Indexed
86	DATE	8	8	D			
94	CFF1	10	10	I			
104	CFF2	10	10	I			
114	CFF3	10	10	I			
124	CFF4	10	10	I			
134	CFF5	10	10	I			

Domain for INFO tables, Roads and Trails Layer

Item name: Description

Valid Values

Value Description

RTE_CN: Control number generated in Oracle to uniquely identify each route across all Forest Service units. The value is brought from Oracle and used as a unique identifier for each spatial feature. It is used to join each route to the corresponding rows in the views GC_RTE_BASICS_V, GC_ROADS_V, and GC_TRAILS_V by matching with the column RTE_CN. ****Note, this field has not yet been added to the route attribute table of this spatial edition. Use RTE_NO to connect the route attribute field to the INFRA tables.

Example:

11948010395

A unique code generated by Oracle.

RTE_NO: The local route number for a route. This item identifies routes within a Forest Service unit.

Example:

40N26

A local code for this route. Corresponds to the ID column in the INFRA table RTE_BASICS and the view GC_RTE_BASICS_VW.

INFRA tables**view_rte.dbf***INFRA version 4.7*

Name	Data Type
RTE_NO	TEXT
NAME	NUMBER
LENGTH	NUMBER
LINEAR_EVE	TEXT
VALUE	TEXT
BMP	NUMBER
EMP	NUMBER

rtelinea.dbf*INFRA version 4.7*

Name	Type
RTE_CN	TEXT
BMP	NUMBER
EMP	NUMBER
VALUE	TEXT
LINEAR_EVE	TEXT
REMARKS	TEXT

rte_basi.dbf*.INFRA version 4.7*

Name	Type
CN	TEXT
OBJ_CLASS	TEXT
OBJ_TECH	TEXT
OBJ_NAME	TEXT
ID	TEXT
NAME	TEXT
BMP	NUMBER
EMP	NUMBER
BEGIN_TERM	TEXT
END_TERMIN	TEXT
COMMENTS	TEXT

Domain for Oracle tables, Roads and Trails Layer	
Item name: Description	
Valid Values	Value Description
BMP: The beginning mile post for this route or event.	
Example: 1.22	The route or event begins at milepost 1.22
EMP: The ending mile post for this route or event.	
Example: 10.53	The route or event ends at milepost 10.53
FUNCTIONAL_CLASS:	
A - ARTERIAL	Provides service to large land areas and usually connects with other arterial roads or public highways.
C - COLLECTOR	Provides service to smaller land areas than an arterial road. Usually connects forest roads to local roads.
L - LOCAL	Connects terminal facilities with forest collector roads.
ID: The local route number for the route. This is typically the unique local id for a route although some units use ID and SPUR_NO together as the unique local id for routes.	
Example: 40N26	Values are established on each unit.
JURISDICTION: Agency or organization with jurisdiction for this road.	
BIA - BUREAU OF INDIAN AFFAIRS	USDI Bureau of Indian Affairs
BLM - BUREAU OF LAND MANAGEMENT	USDI Bureau of Land Management
BOR - BUREAU OF RECLAMATION	USDI Bureau of Reclamation
C - COUNTY, PARISH, BOROUGH	County, Parish or Borough
CO - COOPERATOR	Cooperator (industrial cost share)
COE - CORPS OF ENGINEERS	COE - Corps of Engineers
CU - COMMERCIAL USER	Commercial user
DOD - DEFENSE DEPARTMENT	US Defense Department
DOE - DEPARTMENT OF ENERGY	US Department of Energy
FAA - FEDERAL AVIATION ADMINISTRATION	USDOT Federal Aviation Administration
FS - FOREST SERVICE	USDA Forest Service
FWS - FISH AND WILDLIFE SERVICE	USDI Fish and Wildlife Service
LO - LOCAL	Local
M - MUNICIPAL	Municipal Agency (City or other local civil government)

Domain for Oracle tables, Roads and Trails Layer, cont.**JURISDICTION, cont.** Agency or organization with jurisdiction for this road.

NPS - NATIONAL PARK SERVICE	USDI National Park Service
OF - OTHER FEDERAL AGENCY	Other Federal Agencies
OH - OTHER LOCAL HIGHWAY	Other Local Highway
PO - PRIVATE (OTHER)	Private other than profit
PP - PRIVATE PROFIT	Private profit
S - STATE	State Highway/Transportation Department

LENGTH: The length of this route.

Example: 9.31	This route or event is 9.31 miles long.
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NAME: The name used locally to identify the route.

Example: Bear Wallow	Values are established on each unit.
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OBJ_NAME:: Identifies the type of route..

ROAD	The route represents a road.
TRAIL	The route represents a trail.

OBJECTIVE_MAINT_LEVEL: The maintenance level at which it is planned to operate this road.

1 - BASIC CUSTODIAL CARE (CLOSED)	Assigned to intermittent service roads during the time they are closed to vehicular traffic.
2 - HIGH CLEARANCE VEHICLES	Assigned to roads operated for use by high clearance vehicles.
3 - SUITABLE FOR PASSENGER CARS	Assigned to roads operated and maintained for travel by a prudent driver in a standard passenger car.
4 - MODERATE DEGREE OF USER COMFORT	Assigned to roads that provide a moderate degree of user comfort and convenience at moderate travel speeds.
5 - HIGH DEGREE OF USER COMFORT	Assigned to roads that provide a high degree of user comfort and convenience.

OPER_MAINT_LEVEL: The maintenance level at which this road is operated.

1 - BASIC CUSTODIAL CARE (CLOSED)	Assigned to intermittent service roads during the time they are closed to vehicular traffic.
2 - HIGH CLEARANCE VEHICLES	Assigned to roads operated for use by high clearance vehicles.
3 - SUITABLE FOR PASSENGER CARS	Assigned to roads operated and maintained for travel by a prudent driver in a standard passenger car.
4 - MODERATE DEGREE OF USER COMFORT	Assigned to roads that provide a moderate degree of user comfort and convenience at moderate travel speeds.
5 - HIGH DEGREE OF USER COMFORT	Assigned to roads that provide a high degree of user comfort and convenience.

Domain for Oracle tables, Roads and Trails Layer, cont

PRIMARY_MAINTAINER: The agency responsible for maintenance of this portion of the road.

BIA - BUREAU OF INDIAN AFFAIRS	USDI Bureau of Indian Affairs
BLM - BUREAU OF LAND MANAGEMENT	USDI Bureau of Land Management
BOR - BUREAU OF RECLAMATION	USDI Bureau of Reclamation
C - COUNTY, PARISH, BOROUGH	County, Parish or Borough
CO - COOPERATOR (INDSTRL CST S)	Cooperator (industrial cost share)
COE - CORPS OF ENGINEERS	Corps of Engineers
CU - COMMERCIAL USER	Commercial user
DOD - DEFENSE DEPARTMENT	US Defense Department
DOE - DEPARTMENT OF ENERGY	US Department of Energy
FAA - FEDERAL AVIATION ADMINISTRATION	USDOT Federal Aviation Administration
FS - FOREST SERVICE	USDA Forest Service
FWS - FISH AND WILDLIFE SERVICE	USDI Fish and Wildlife Service
LO - LOCAL	Local
M - MUNICIPAL AGENCY	Municipal Agency (City or other local civil government)
NPS - NATIONAL PARK SERVICE	USDI National Park Service
OF - OTHER FEDERAL AGENCIES	Other Federal Agencies
OH - OTHER LOCAL HIGHWAY	Other Local Highway
PO - PRIVATE (OTHER)	Private other than profit
PP - PRIVATE PROFIT	Private profit
S - STATE	State Highway/Transportation Department

RTE_CN: Control number generated in Oracle to uniquely identify each route across all Forest Service units. It is used to link the spatial data to the Oracle database. It links to RTE_CN in the route attribute tables.

Example: 11948010395	A unique code generated by ORACLE.
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ROUTE_STATUS: The status of the route.

EX - EXISTING	Existing
DE - DECOMMISSIONED	Decommissioned
OB - OBLITERATED	Obliterated
OP - OPPORTUNITY	Existing road with opportunity
PL – PLANNED DECOMMISSIONED	Planned decommissioning identified in NEPA
PL - PLANNED NEPA COMPLETE	Planned route identified in NEPA

Domain for Oracle tables, Roads and Trails Layer, cont**SEG_LENGTH:** The length of this event.Example:
2.262

The event is 2.262 miles long.

SPUR_NO: The spur number for this route. This field is used by some units, along with ID, as part of the unique local id for a route.Example:
A1

Values are established on each unit.

SURFACE_TYPE: Type of surface for a road.

AC - ASPHALT

Asphalt

AGG - CRUSHED AGGREGATE OR GRAVEL

Imported, processed material (e.g. pit run. select borrow)

BIT - BITUMINOUS TRMNT EXCEPT DUST P

Bituminous treatment except dust palliative

BWALK - BOARDWALK

Boardwalk

CON - CONCRETE

Concrete

CSOIL - COMPACTED SOIL

Compacted soil

IMP - IMPROVED NATIVE MATERIAL

Improved native material

NAT - NATIVE MATERIAL

Native material

OTHER - (SPECIFY IN REMARKS)

Other - (specify in remarks)

P - PAVED

Paved

PLANK - TIMBER RUNNING PLANK

Timber running plank

PUNCH - SUBSURFACE PUNCHEON

Subsurface puncheon

SURFP - SURFACE PUNCHEON

Surface puncheon

Domain for Oracle tables, Roads and Trails Layer, cont.**SYSTEM:** The road system to which this road belongs.

BLM - BUREAU OF LAND MANAGEMENT	Bureau of Land Management
C - COUNTY, PARISH, BOROUGH	County, Parish or Borough
FDR - FOREST DEVELOPMENT ROAD	A forest road under the jurisdiction of the Forest Service FSM 7705 (23 U.S.C. 101)
FH - FOREST HIGHWAY	A designated forest road under the jurisdiction of and maintained by a public authority and open to public travel (U.S.C 101 23 CFR 660 and FSM 7740.5)
I - INTERSTATE HIGHWAY	Interstate highway
IRR - INDIAN RESERVATION ROAD	Bureau of Indian Affairs
M - MUNICIPAL AGENCY	Municipal agency
NPS - NATIONAL PARK SERVICE	National Park Service Roads and Ways
OF - OTHER FEDERAL	Other Federal Agency
OP - OTHER PUBLIC AGENCY	Other Public Agency includes townships, highway districts, better roads districts, or other legally constituted public agencies.
PO - PRIVATE (OTHER)	Private (Other)
SH - STATE HIGHWAY	State highway
UNC - UNCLASSIFIED ROAD	An existing road for which the jurisdiction and need has not been determined
US - US HIGHWAY OR ROUTE	US Highway or Route

TRAFFIC_SERVICE_LEVEL: The traffic service level for which this road was designed.

A - FREE FLOWING MIXED TRAFFIC	Free flowing mixed traffic with stable and smooth road surface. Provides service to all traffic with safety (25-35 mph)
B - CONGESTED DURING HEAVY TRAFFIC	Congested during heavy traffic with slower speeds and periodic dust.
C - FLOW INTERRUPTED - USE LIMITED	Flow interrupted by limited passing facilities. Some vehicles will have difficulty negotiating certain segments. Design speeds are generally low. May not be stable under all traffic or weather conditions.
D - SLOW FLOW OR MAY BE BLOCKED	Flow is slow and may be blocked by an activity. Two-way traffic is difficult and may require backing. Road surface is rough and irregular. Travel with low clearance vehicles is difficult. A single purpose type facility.

Domain for Oracle tables, Roads and Trails Layer, cont.	
TRAIL_CLASS: Class of this trail segment.	
1	Primitive simple trail, minimum to nonexistent constructed features.
2	Primitive simple trail, constructed features for trail resource protection.
3	Trail appears constructed.
4	Trail is obviously manmade, may be fully accessible.
5	Trail is clearly manmade, typically fully accessible.
TRAIL_STATUS: Status of this trail segment.	
EXISTING	Existing
OBLITERATE	Obliterated
PLANNED	Planned
TRAIL_TREAD_MATERIAL: Tread material of this trail segment.	
ASPHALT	Asphalt
BITUMINOUS TREATMENT	Bituminous treatment except dust palliatives
BOARDWALK	Boardwalk
COMPACTED SOIL	Compacted soil
CONCRETE	Concrete
CRUSHED AGGREGATE OR GRAVEL	Imported, processed material (e.g. pitrun, select borrow)
IMPROVED NATIVE MATERIAL	Improved native material
NATIVE MATERIAL	Native material
OTHER	Other - Specify in remarks
OTHER PAVED	Other pavement type – Specify in remarks
PAVED	Paved
PAVER BLOCKS	Paver blocks
PLANK	Timber Running Plank
SOIL STABILIZERS	Soil stabilizers
SUBSURFACE PUNCHEON	Subsurface puncheon
SURFACE PUNCHEON	Surface puncheon
TURNPIKE	Turnpike

Domain for Oracle tables, Roads and Trails Layer, cont.**TRAIL_ZONE:** The physiographic setting in which the trail occurs.

ALLUVIAL/COASTAL PLAIN	Alluvial or coastal plain
DELTA/FLOOD PLAIN	Delta or floodplain
MOUNTAINOUS-MID ELEVATION	Mid-elevation mountains
PIEDMONT-RIDGE AND VALLEY	Piedmont or ridge and valley
PLATEAUS-BASINS-GRASSLANDS	Plateaus, basins, or grasslands
SERRATED MOUNTAINS-HIGH ELEVATION	High elevation, serrated mountains
TUNDRA-ALPINE MEADOW	Tundra or alpine meadow