



# **FSVeg**

## **DATA DICTIONARY**

### **SECTION II: REFERENCE TABLES**

**February 2014**

# TABLE OF CONTENTS

<b><u>Reference Tables</u></b>	<b><u>Page</u></b>
NRV_COUNTIES.....	DD/RT-3
NRV_COVER_LAYERS.....	DD/RT-31
NRV_COVER_REFERENCES .....	DD/RT-32
NRV_DATUM_CODES .....	DD/RT-41
NRV_DISTURBANCE_AGENTS.....	DD/RT-42
NRV_DISTURBANCE_CATEGORIES.....	DD/RT-60
NRV_EV_COVER_TYPES .....	DD/RT-61
NRV_EXAM_PURPOSE_CODES.....	DD/RT-94
NRV_FUEL_MODELS.....	DD/RT-96
NRV_FUEL_PHOTOS .....	DD/RT-100
NRV_FUEL_PHOTO_REF .....	DD/RT-107
NRV_FVS_VARIANTS.....	DD/RT-108
NRV_HISTORY_CODES.....	DD/RT-113
NRV_LIFEFORM_CLASSES .....	DD/RT-115
NRV_LIFEFORM_MODIFIERS.....	DD/RT-117
NRV_MEASUREMENT_STANDARDS.....	DD/RT-121
NRV_OWNER_AGENCY_CODES.....	DD/RT-146
NRV_PERM_MD_ALIAS.....	DD/RT-148
NRV_PHYSICAL_EFFECTS.....	DD/RT-149
NRV_PHYSIOGRAPHIC_CLASSES.....	DD/RT-151
NRV_PRINCIPAL_MERIDIANS .....	DD/RT-152
NRV_PV_COVER_TYPES .....	DD/RT-153
NRV_SEVERITY_RATINGS.....	DD/RT-398
NRV_SITE_INDEX_REF_CODES.....	DD/RT-404
NRV_STATES.....	DD/RT-470
NRV_SURFACE_COVER_TYPES.....	DD/RT-471
NRV_TREE_PART_CODES.....	DD/RT-473

## NRV\_COUNTIES

Stores the largest territorial divisions of local governments within a state.

Name	Type	Description
COUNTY_CODE <i>Required</i>	VC(3)	County code.
STATE <i>Required</i>	VC(2)	State code. This column is constrained by Nrv_states
CREATED_BY <i>Required</i>	VC(30)	The name of the person who created the record.
CREATED_DATE <i>Required</i>	DATE	The date the record was created.
CREATED_IN_INSTANCE <i>Required</i>	N(6)	The database ID where the record was created.
COUNTY_ABBR	VC(5)	County abbreviation.
COUNTY_NAME	VC(30)	County name.
MODIFIED_BY	VC(30)	The name of the person who modified the record.
MODIFIED_DATE	DATE	The date the record was modified.
MODIFIED_IN_INSTANCE	N(6)	The database ID where the record was modified.

## ALABAMA

Code	Name	Code	Name	Code	Name
000	Undetermined	045	Dale	091	Marengo
001	Autauga	047	Dallas	093	Marion
003	Baldwin	049	De Kalb	095	Marshall
005	Barbour	051	Elmore	097	Mobile
007	Bibb	053	Escambia	099	Monroe
009	Blount	055	Etowah	101	Montgomery
011	Bullock	057	Fayette	103	Morgan
013	Butler	059	Franklin	105	Perry
015	Calhoun	061	Geneva	107	Pickens
017	Chambers	063	Greene	109	Pike
019	Cherokee	065	Hale	111	Randolph
021	Chilton	067	Henry	113	Russell
023	Choctaw	069	Houston	115	Saint Clair
025	Clarke	071	Jackson	117	Shelby
027	Clay	073	Jefferson	119	Sumter
029	Cleburne	075	Lamar	121	Talladega
031	Coffee	077	Lauderdale	123	Tallapoosa
033	Colbert	079	Lawrence	125	Tuscaloosa
035	Conecuh	081	Lee	127	Walker
037	Coosa	083	Limestone	129	Washington
039	Covington	085	Lowndes	131	Wilcox
041	Crenshaw	087	Macon	133	Winston
043	Cullman	089	Madison		

## NRV\_COUNTIES (cont.)

**ALASKA**

Code	Name	Code	Name	Code	Name
000	Undetermined	110	Juneau	201	Prince of Wales-Oute
013	Aleutians East	122	Kenai Penninsula	220	Sitka
016	Aleutians West	130	Ketchikan Gateway	231	Skagway-Yakutat-Ango
020	Anchorage	150	Kodiak Island	240	Southeast Fairbanks
050	Bethel	164	Lake and Peninsula	261	Valdez-Cordova
060	Bristol Bay	170	Matanuska-Susitna	270	Wade Hampton
070	Dillingham	180	Nome	280	Wrangell-Petersburg
090	Fairbanks North Star	185	North Slope	290	Yukon-Koyukuk
100	Haines	188	Northwest Artic		

**ARKANSAS**

Code	Name	Code	Name	Code	Name
000	Undetermined	051	Garland	103	Ouachita
001	Arkansas	053	Grant	105	Perry
003	Ashley	055	Greene	107	Phillips
005	Baxter	057	Hempstead	109	Pike
007	Benton	059	Hot Spring	111	Poinsett
009	Boone	061	Howard	113	Polk
011	Bradley	063	Independence	115	Pope
013	Calhoun	065	Izard	117	Prairie
015	Carroll	067	Jackson	119	Pulaski
017	Chicot	069	Jefferson	121	Randolph
019	Clark	071	Johnson	123	Saint Francis
021	Clay	073	Lafayette	125	Saline
023	Cleburne	075	Lawrence	127	Scott
025	Cleveland	077	Lee	129	Searcy
027	Columbia	079	Lincoln	131	Sebastian
029	Conway	081	Little River	133	Sevier
031	Craighead	083	Logan	135	Sharp
033	Crawford	085	Lonoke	137	Stone
035	Crittenden	087	Madison	139	Union
037	Cross	089	Marion	141	Van Buren
039	Dallas	091	Miller	143	Washington
041	Desha	093	Mississippi	145	White
043	Drew	095	Monroe	147	Woodruff
045	Faulkner	097	Montgomery	149	Yell
047	Franklin	099	Nevada		
049	Fulton	101	Newton		

**AMERICAN SAMOA**

Code	Name	Code	Name	Code	Name
000	Undetermined	020	Manu'a	040	Swains Island
010	Eastern	030	Rose Island	050	Western

**NRV\_COUNTIES (cont.)****ARIZONA**

Code	Name	Code	Name	Code	Name
000	Undetermined	011	Greenlee	019	Pima
001	Apache	012	La Paz	021	Pina
003	Cochise	013	Maricopa	023	Santa Cruz
005	Coconino	015	Mohave	025	Yavapai
007	Gila	017	Navajo	027	Yuma
009	Graham				

**CALIFORNIA**

Code	Name	Code	Name	Code	Name
000	Undetermined	039	Madera	079	San Luis Obispo
001	Alameda	041	Marin	081	San Mateo
003	Alpine	043	Mariposa	083	Santa Barbara
005	Amador	045	Mendocino	085	Santa Clara
007	Butte	047	Merced	087	Santa Cruz
009	Calaveras	049	Modoc	089	Shasta
011	Colusa	051	Mono	091	Sierra
013	Contra Costa	053	Monterey	093	Siskiyou
015	Del Norte	055	Napa	095	Solano
017	El Dorado	057	Nevada	097	Sonoma
019	Fresno	059	Orange	099	Stanislaus
021	Glenn	061	Placer	101	Sutter
023	Humboldt	063	Plumas	103	Tehama
025	Imperial	065	Riverside	105	Trinity
027	Inyo	067	Sacramento	107	Tulare
029	Kern	069	San Benito	109	Tuolumne
031	Kings	071	San Bernardino	111	Ventura
033	Lake	073	San Diego	113	Yolo
035	Lassen	075	San Francisco	115	Yuba
037	Los Angeles	077	San Joaquin		

**COLORADO**

Code	Name	Code	Name	Code	Name	Code	Name
000	Undetermined	025	Crowley	051	Gunnison	077	Mesa
001	Adams	027	Custer	053	Hinsdale	079	Mineral
003	Alamosa	029	Delta	055	Huerfano	081	Moffat
005	Arapahoe	031	Denver	057	Jackson	083	Montezuma
007	Archuleta	033	Dolores	059	Jefferson	085	Montrose
009	Baca	035	Douglas	061	Kiowa	087	Morgan
011	Bent	037	Eagle	063	Kit Carson	089	Otero
013	Boulder	039	Elbert	065	Lake	091	Ouray
015	Chaffee	041	El Paso	067	La Plata	093	Park
017	Cheyenne	043	Fremont	069	Larimer	095	Phillips
019	Clear Creek	045	Garfield	071	Las Animas	097	Pitkin
021	Conejos	047	Gilpin	073	Lincoln	099	Prowers
023	Costilla	049	Grand	075	Logan	101	Pueblo

**NRV\_COUNTIES (cont.)****Colorado (cont.)**

Code	Name	Code	Name	Code	Name	Code	Name
103	Rio Blanco	109	Saguache	115	Sedgwick	121	Washington
105	Rio Grande	111	San Juan	117	Summit	123	Weld
107	Routt	113	San Miguel	119	Teller	125	Yuma

**CONNECTICUT**

Code	Name	Code	Name	Code	Name
000	Undetermined	005	Litchfield	011	New London
001	Fairfield	007	Middlesex	013	Tolland
003	Hartford	009	New Haven	015	Windham

**DIST OF COLUMBIA**

Code	Name	Code	Name
000	Undetermined	001	District of Columbia

**DELAWARE**

Code	Name	Code	Name
000	Undetermined	003	New Castle
001	Kent	005	Sussex

**FLORIDA**

Code	Name	Code	Name	Code	Name
000	Undetermined	045	Gulf	089	Nassau
001	Alachua	047	Hamilton	091	Okaloosa
003	Baker	049	Hardee	093	Okeechobee
005	Bay	051	Hendry	095	Orange
007	Bradford	053	Hernando	097	Osceola
009	Brevard	055	Highlands	099	Palm Beach
011	Broward	057	Hillsborough	101	Pasco
013	Calhoun	059	Holmes	103	Pinellas
015	Charlotte	061	Indian River	105	Polk
017	Citrus	063	Jackson	107	Putnam
019	Clay	065	Jefferson	109	Saint Johns
021	Collier	067	Lafayette	111	Saint Lucie
023	Columbia	069	Lake	113	Santa Rosa
025	Dade	071	Lee	115	Sarasota
027	De Soto	073	Leon	117	Seminole
029	Dixie	075	Levy	119	Sumter
031	Duval	077	Liberty	121	Suwannee
033	Escambia	079	Madison	123	Taylor
035	Flagler	081	Manatee	125	Union
037	Franklin	083	Marion	127	Volusia
039	Gadsden	085	Martin	129	Wakulla
041	Gilchrist	087	Monroe	131	Walton
043	Glades			133	Washington

## NRV\_COUNTIES (cont.)

**FED. ST. MICRONESIA**

Code	Name	Code	Name	Code	Name
000	Undetermined	040	Ponape	060	Yap
005	Kosrae	050	Truk		

**GEORGIA**

Code	Name	Code	Name	Code	Name	Code	Name
000	Undetermined	079	Crawford	159	Jasper	243	Randolph
001	Appling	081	Crisp	161	JeffDavis	245	Richmond
003	Atkinson	083	Dade	163	Jefferson	247	Rockdale
005	Bacon	085	Dawson	165	Jenkins	249	Schley
007	Baker	087	Decatu	167	Johnson	251	Screven
009	Baldwin	089	De Kalb	169	Jones	253	Seminole
010	Guam	091	Dodge	171	Lamar	255	Spalding
011	Banks	093	Dooly	173	Lanier	257	Stephens
013	Barrow	095	Dougherty	175	Laurens	259	Stewart
015	Bartow	097	Douglas	177	Lee	261	Sumter
017	BenHill	099	Early	179	Liberty	263	Talbot
019	Berrien	101	Echols	181	Lincoln	265	Taliaferro
021	Bibb	103	Effingham	183	Long	267	Tattnall
023	Bleckley	105	Elbert	185	Lowndes	269	Taylor
025	Brantley	107	Emanuel	187	Lumpkin	271	Telfair
027	Brooks	109	Evans	189	McDuffie	273	Terrell
029	Bryan	111	Fannin	193	Macon	275	Thomas
031	Bulloch	113	Fayette	195	Madison	277	Tift
033	Burke	115	Floyd	197	Marion	279	Toombs
035	Butts	117	Forsyth	199	Meriwether	281	Towns
037	Calhoun	119	Franklin	201	Miller	283	Treutlen
039	Camden	121	Fulton	205	Mitchell	285	Troup
043	Candler	123	Gilmer	207	Monroe	287	Turner
045	Carroll	125	Glascok	209	Montgomery	289	Twiggs
047	Catoosa	127	Glynn	211	Morgan	291	Union
049	Charlton	129	Gordon	213	Murray	293	Upson
051	Chatham	131	Grady	215	Muscogee	295	Walker
053	Chattahoochee	133	Greene	217	Newton	297	Walton
055	Chattooga	135	Gwinnett	219	Oconee	299	Ware
057	Cherokee	137	Habersham	221	Oglethorpe	301	Warren
059	Clarke	139	Hall	223	Paulding	303	Washington
061	Clay	141	Hancock	225	Peach	305	Wayne
063	Clayton	143	Haralson	227	Pickens	307	Webster
065	Clinch	145	Harris	229	Pierce	309	Wheeler
067	Cobb	147	Hart	231	Pike	311	White
069	Coffee	149	Hard	233	Polk	313	Whitfield
071	Colquitt	151	Henry	235	Pulaski	315	Wilcox
073	Columbia	153	Houston	237	Putnam	317	Wilkes
075	Cook	155	Irwin	239	Quitman	319	Wilkinson
077	Coweta	157	Jackson	241	Rabun	321	Worth

## NRV\_COUNTIES (cont.)

## GUAM

Code	Name	Code	Name
000	Undetermined	010	Guam

## HAWAII

Code	Name	Code	Name	Code	Name
000	Undetermined	003	Honolulu	007	Kauai
001	Hawaii	005	Kalawao	009	Maui

## IDAHO

Code	Name	Code	Name	Code	Name	Code	Name
000	Undetermined	023	Butte	045	Gem	067	Minidoka
001	Ada	025	Camas	047	Gooding	069	Nez Perce
003	Adams	027	Canyon	049	Idaho	071	Oneida
005	Bannock	029	Caribou	051	Jefferson	073	Owyhee
007	Bear Lake	031	Cassia	053	Jerome	075	Payette
009	Benewah	033	Clark	055	Kootenai	077	Power
011	Bingham	035	Clearwater	057	Latah	079	Shoshone
013	Blaine	037	Custer	059	Lemhi	081	Teton
015	Boise	039	Elmore	061	Lewis	083	Twin Falls
017	Bonner	041	Franklin	063	Lincoln	085	Valley
019	Bonneville	043	Fremont	065	Madison	087	Washington
021	Boundary						

## IOWA

Code	Name	Code	Name	Code	Name	Code	Name
000	Undetermined	035	Cherokee	071	Fremont	107	Keokuk
001	Adair	037	Chickasaw	073	Greene	109	Kossuth
003	Adams	039	Clarke	075	Grundy	111	Lee
005	Allamakee	041	Clay	077	Guthrie	113	Linn
007	Appanoose	043	Clayton	079	Hamilton	115	Louisa
009	Audubon	045	Clinton	081	Hancock	117	Lucas
011	Bingham	047	Crawford	083	Hardin	119	Lyon
013	Black Hawk	049	Dallas	085	Harrison	121	Madison
015	Boone	051	Davis	087	Henry	123	Mahaska
017	Bremer	053	Decatur	089	Howard	125	Marion
019	Buchanan	055	Delaware	091	Humboldt	127	Marshall
021	Buena Vista	057	Des Moines	093	Ida	129	Mills
023	Butler	059	Dickinson	095	Iowa	131	Mitchell
025	Calhoun	061	Dubuque	097	Jackson	133	Monona
027	Carroll	063	Emmet	099	Jasper	135	Monroe
029	Cass	065	Fayette	101	Jefferson	137	Montgomery
031	Cedar	067	Floyd	103	Johnson	139	Muscatine
033	Cerro Gordo	069	Franklin	105	Jones	141	O'Brien



**NRV\_COUNTIES (cont.)****Iowa (cont.)**

Code	Name	Code	Name	Code	Name	Code	Name
143	Osceola	157	Poweshiek	171	Tama	185	Wayne
145	Page	159	Ringgold	173	Taylor	187	Webster
147	Palo Alto	161	Sac	175	Unino	189	Winnebago
149	Plymouth	163	Scott	177	Van Buren	191	Winneshiek
151	Pocahontas	165	Shelby	179	Wapello	193	Woodbury
153	Polk	167	Sioux	181	Warren	195	Worth
155	Pottawattamie	169	Story	183	Washington	197	Wright

**ILLINOIS**

Code	Name	Code	Name	Code	Name
000	Undetermined	069	Hardin	137	Morgan
001	Adams	071	Henderson	139	Moultrie
003	Alexander	073	Henry	141	Ogle
005	Bond	075	Iroquois	143	Peoria
007	Boone	077	Jackson	145	Perry
009	Brown	079	Jaspe	147	Piatt
011	Bureau	081	Jefferson	149	Pike
013	Calhoun	083	Jersey	151	Pope
015	Carroll	085	Jo Daviess	153	Pulaski
017	Cass	087	Johnson	155	Putnam
019	Champaign	089	Kane	157	Randolph
021	Christian	091	Kankakee	159	Richland
023	Clark	093	Kendall	161	Rock Island
025	Clay	095	Knox	163	Saint Clair
027	Clinton	097	Lake	165	Saline
029	Coles	099	La Salle	167	Sangamon
031	Cook	101	Lawrence	169	Schuyler
033	Crawford	103	Lee	171	Scott
035	Cumberland	105	Livingston	173	Shelby
037	De Kalb	107	Logan	175	Stark
039	De Witt	109	McDonough	177	Stephenson
041	Douglas	111	McHenry	179	Tazewell
043	Du Page	113	McLean	181	Union
045	Edgar	115	Macon	183	Vermilion
047	Edwards	117	Macoupin	185	Wabas
049	Effingham	119	Madison	187	Warren
051	Fayette	121	Marion	189	Washington
053	Ford	123	Marshall	191	Wayne
055	Franklin	125	Mason	193	White
057	Fulton	127	Massac	195	Whiteside
059	Gallatin	129	Menard	197	Will
061	Greene	131	Mercer	199	Williamson
063	Grundy	133	Monroe	201	Winnebago
065	Hamilton	135	Montgomery	203	Woodford
067	Hancock				

## NRV\_COUNTIES (cont.)

**INDIANA**

Code	Name	Code	Name	Code	Name	Code	Name
000	Undetermined	049	Fulton	099	Marshall	149	Starke
001	Adams	051	Gibson	101	Martin	151	Steuben
003	Allen	053	Grant	103	Miami	153	Sullivan
005	Bartholomew	055	Greene	105	Monroe	155	Switzerland
007	Benton	057	Hamilton	107	Montgomery	157	Tippecanoe
009	Blackford	059	Hancock	109	Morgan	159	Tipton
011	Boone	061	Harrison	111	Newton	161	Union
013	Brown	063	Hendricks	113	Noble	163	Vanderburgh
015	Carroll	065	Henry	115	Ohio	165	Vermillion
017	Cass	067	Howard	117	Orange	167	Vigo
019	Clark	069	Huntington	119	Owen	169	Wabash
021	Clay	071	Jackson	121	Parke	171	Warren
023	Clinton	073	Jasper	123	Perry	173	Warrick
025	Crawford	075	Jay	125	Pike	175	Washington
027	Daviess	077	Jefferson	127	Porter	177	Wayne
029	Dearborn	079	Jennings	129	Posey	179	Wells
031	Decatur	081	Johnson	131	Pulaski	181	White
033	De Kalb	083	Knox	133	Putnam	183	Whitley
035	Delaware	085	Kosciusko	135	Randolph		
037	Dubois	087	Lagrange	137	Ripley		
039	Elkhart	089	Lake	139	Rush		
041	Fayette	091	La Porte	141	Saint Joseph		
043	Floyd	093	Lawrence	143	Scott		
045	Fountain	095	Madison	145	Shelby		
047	Franklin	097	Marion	147	Spencer		

**KANSAS**

Code	Name	Code	Name	Code	Name	Code	Name
000	Undetermined	023	Cheyenne	047	Edwards	071	Greeley
001	Allen	025	Clark	049	Elk	073	Greenwood
003	Anderson	027	Clay	051	Ellis	075	Hamilton
005	Atchison	029	Cloud	053	Elsworth	077	Harper
007	Barber	031	Coffey	055	Finney	079	Harvey
009	Barton	033	Comanche	057	Ford	081	Haskell
011	Bourbon	035	Cowley	059	Franklin	083	Hudgeman
013	Brown	037	Crawford	061	Geary	085	Jackson
015	Butler	039	Decatur	063	Gove	087	Jefferson
017	Chase	041	Dickinson	065	Graham	089	Jewell
019	Chautauqua	043	Doniphan	067	Grant	091	Johnson
021	Cherokee	045	Douglas	069	Gray	093	Kearny

**NRV\_COUNTIES (cont.)****Kansas (cont.)**

Code	Name	Code	Name	Code	Name	Code	Name
095	Kingman	125	Montgomery	155	Reno	183	Smith
097	Kiowa	127	Morris	157	Republic	185	Stafford
099	Labette	129	Morton	159	Rice	187	Stanton
101	Lane	131	Nemaha	161	Riley	189	Stevens
103	Leavenworth	133	Neosho	163	Rooks	191	Sumner
105	Lincoln	135	Ness	165	Rush	193	Thomas
107	Linn	137	Norton	167	Russell	195	Trego
109	Logan	139	Osage	169	Saline	197	Wabaunsee
111	Lyon	141	Osborne	171	Scott	199	Wallace
113	McPherson	143	Ottawa	173	Sedgwick	201	Washington
115	Marion	145	Pawnee	175	Seward	203	Wichita
117	Marshall	149	Phillips	177	Shawnee	205	Wilson
119	Meade	151	Pratt	179	Sheridan	207	Woodson
121	Miami	153	Rawlins	181	Sherman	209	Wyandotte
123	Mitchell						

**KENTUCKY**

Code	Name	Code	Name	Code	Name	Code	Name
000	Undetermined	055		111		167	Mercer
001	Adair	057		113		169	Metcalfe
003	Allen	059	Daviess	115		171	Monroe
005	Anderson	061	Edmonson	117		173	Montgomery
007	Ballard	063	Elliott	119	Knott	175	Morgan
009	Barren	065	Estill	121	Knox	177	Muhlenberg
011	Bath	067	Fayette	123	Larue	179	Nelson
013	Bell	069	Fleming	125	Laurel	181	Nicholas
015	Boone	071	Floyd	127	Lawrence	183	Ohio
017	Bourbon	073	Franklin	129	Lee	185	Oldham
019	Boyd	075	Fulton	131	Leslie	187	Owen
021	Boyle	077	Gallatin	133	Letcher	189	Owsley
023	Bracken	079	Garrard	135	Lewis	191	Pendelton
025	Breathitt	081	Grant	137	Lincoln	193	Perry
027	Breckinridge	083	Graves	139	Livingston	195	Pike
029	Bullitt	085	Grayson	141	Logan	197	Powell
031	Butler	087	Green	143	Lyon	199	Pulaski
033	Caldwell	089	Greenup	145	McCracken	201	Robertson
035	Calloway	091	Hancock	147	McCreary	203	Rockcastle
037	Campbell	093	Hardin	149	McLean	205	Rowan
039	Carlisle	095	Harlan	151	Madison	207	Russell
041	Carroll	097	Harrison	153	Magoffin	209	Scott
043	Carter	099	Hart	155	Marion	211	Shelby
045	Casey	101	Henderson	157	Marshall	213	Simpson
047	Christian	103	Henry	159	Martin	215	Spencer
049	Clark	105	Hickman	161	Mason	217	Taylor
051	Clay	107	Hopkins	163	Meade	219	Todd
053	Clinton	109	Jackson	165	Menifee	221	Trigg

**NRV\_COUNTIES (cont.)****Kentucky (cont.)**

Code	Name	Code	Name	Code	Name	Code	Name
223	Trimble	229	Washington	233	Webster	237	Wolfe
225	Union	231	Wayne	235	Whitley	239	Woodford
227	Warren						

**LOUISIANA**

Code	Name	Code	Name	Code	Name
000	Undetermined	043	Grant	087	Saint Bernard
001	Acadia	045	Iberia	089	Saint Charles
003	Allen	047	Iberville	091	Saint Helena
005	Ascension	049	Jackson	093	Saint James
007	Assumption	051	Jefferson	095	Saint John the Bapti
009	Avoyelles	053	Jefferson Davis	097	Saint Landry
011	Beauregard	055	Lafayette	099	Saint Martin
013	Bienville	057	Lafourche	101	Saint Mary
015	Bossier	059	La Salle	103	Saint Tammany
017	Caddo	061	Lincoln	105	Tangipahoa
019	Calcasieu	063	Livingston	107	Tensas
021	Caldwell	065	Madison	109	Terrebonne
023	Cameron	067	Morehouse	111	Union
025	Catahoula	069	Natchitoches	113	Vermilion
027	Claiborne	071	Orleans	115	Vernon
029	Concordia	073	Ouachita	117	Washington
031	De Soto	075	Plaquemines	119	Webster
033	East Baton Rouge	077	Pointe Coupee	121	West Baton Rouge
035	East Carroll	079	Rapides	123	West Carroll
037	East Feliciana	081	Red River	125	West Feliciana
039	Evangeline	083	Richland	127	Winn
041	Franklin	085	Sabine		

**MASSACHUSETTS**

Code	Name	Code	Name	Code	Name
000	Undetermined	009	Essex	019	Nantucket
001	Barnstable	011	Franklin	021	Norfolk
003	Berkshire	013	Hampden	023	Plymouth
005	Bristol	015	Hampshire	025	Suffolk
007	Dukes	017	Middlesex	027	Worcester

## NRV\_COUNTIES (cont.)

**MARYLAND**

Code	Name	Code	Name	Code	Name
000	Undetermined	019	Dorchester	035	Queen Annes
001	Allegany	021	Frederick	037	Saint Marys
003	Anne Arundel	023	Garrett	039	Somerset
005	Baltimore	025	Harford	041	Talbot
009	Calvert	027	Howard	043	Washington
011	Caroline	029	Kent	045	Wicomico
013	Carroll	031	Montgomery	047	Worcester
015	Cecil	033	Prince Georges	510	Baltimore City
017	Charles				

**MAINE**

Code	Name	Code	Name	Code	Name
000	Undetermined	011	Kennebec	023	Sagadahoc
001	Androscoggin	013	Knox	025	Somerset
003	Aroostook	015	Lincoln	027	Waldo
005	Cumberland	017	Oxford	029	Washington
007	Franklin	019	Penobscot	031	York
009	Hancock	021	Piscataquis		

**MARSHALL ISLANDS**

Code	Name	Code	Name	Code	Name
000	Undetermined	110	Jabat	320	Mili
007	Ailinginae	120	Jaluit	330	Namorik
010	Ailinglaplap	130	Jemo Island	340	Namu
030	Ailuk	140	Kili	350	Rongelap
040	Arno	150	Kwajalein	360	Rongrik
050	Aur	160	Lae	385	Toke
060	Bikar	170	Lib	390	Ujae
070	Bikini	180	Likiep	400	Ujelang
073	Bokak	190	Majuro	410	Utrik
080	Ebon	300	Maloelap	420	Wotho
090	Enewetak	310	Mejit	430	Wotje
100	Erikub				

**MICHIGAN**

Code	Name	Code	Name	Code	Name	Code	Name
000	Undetermined	015	Barry	031	Cheboygan	047	Emmet
001	Alcona	017	Bay	033	Chippewa	049	Genesee
003	Alger	019	Benzie	035	Clare	051	Gladwin
005	Allegan	021	Berrien	037	Clinton	053	Gogebic
007	Alpena	023	Branch	039	Crawford	055	Grand Traverse
009	Antrim	025	Calhoun	041	Delta	057	Gratiot
011	Arenac	027	Cass	043	Dickinson	059	Hillsdale
013	Baraga	029	Charlevoix	045	Eaton	061	Houghton

**NRV\_COUNTIES (cont.)****Michigan (cont.)**

Code	Name	Code	Name	Code	Name	Code	Name
063	Huron	089	Leelanau	115	Monroe	141	Presque Isle
065	Ingham	091	Lenawee	117	Montcalm	143	Roscommon
067	Ionia	093	Livingston	119	Montmorency	145	Saginaw
069	Iosco	095	Luce	121	Muskegon	147	Saint Clair
071	Iron	097	Mackinac	123	Newaygo	149	Saint Joseph
073	Isabella	099	Macomb	125	Oakland	151	Sanilac
075	Jackson	101	Manistee	127	Oceana	153	Schoolcraft
077	Kalamazoo	103	Marquette	129	Ogemaw	155	Shiawassee
079	Kalkaska	105	Mason	131	Ontonagon	157	Tuscola
081	Kent	107	Mecosta	133	Osceola	159	Van Buren
083	Keweenaw	109	Menominee	135	Oscoda	161	Washtenaw
085	Lake	111	Midland	137	Otsego	163	Wayne
087	Lapeer	113	Missaukee	139	Ottawa	165	Wexford

**MINNESOTA**

Code	Name	Code	Name	Code	Name	Code	Name
000	Undetermined	043	Faribault	087	Mahnomen	131	Rice
001	Aitkin	045	Fillmore	089	Marshall	133	Rock
003	Anoka	047	Freeborn	091	Martin	135	Roseau
005	Becker	049	Goodhue	093	Meeker	137	Saint Louis
007	Beltrami	051	Grant	095	Mille Lacs	139	Scott
009	Benton	053	Hennepin	097	Morrison	141	Sherburne
011	Big Stone	055	Houston	099	Mower	143	Sibley
013	Blue Earth	057	Hubbard	101	Murray	145	Stearns
015	Brown	059	Isanti	103	Nicollet	147	Steele
017	Carlton	061	Itasca	105	Nobles	149	Stevens
019	Carver	063	Jackson	107	Norman	151	Swift
021	Cass	065	Kanabec	109	Olmsted	153	Todd
023	Chippewa	067	Kandiyohi	111	Otter Tail	155	Traverse
025	Chisago	069	Kittson	113	Pennington	157	Wabasha
027	Clay	071	Koochiching	115	Pine	159	Wadena
029	Clearwater	073	Lac Qui Parle	117	Pipestone	161	Waseca
031	Cook	075	Lake	119	Polk	163	Washington
033	Cottonwood	077	Lake of the Woods	121	Pope	165	Watonwan
035	Crow Wing	079	Le Sueur	123	Ramsey	167	Wilkin
037	Dakota	081	Lincoln	125	Red Lake	169	Winona
039	Dodge	083	Lyon	127	Redwood	171	Wright
041	Douglas	085	McLeod	129	Renville	173	Yellow Medicine

## NRV\_COUNTIES (cont.)

**MISSOURI**

Code	Name	Code	Name	Code	Name	Code	Name
000	Undetermined	059	Dallas	119	McDonald	179	Reynolds
001	Adair	061	Daviess	121	Macon	181	Ripley
003	Andrew	063	De Kalb	123	Madison	183	Saint Charles
005	Atchison	065	Dent	125	Maries	185	Saint Clair
007	Audrain	067	Douglas	127	Marion	186	Sainte Genevieve
009	Barry	069	Dunklin	129	Mercer	187	Saint Francois
011	Barton	071	Franklin	131	Miller	189	Saint Louis
013	Bates	073	Gasconade	133	Mississippi	195	Saline
015	Benton	075	Gentry	135	Moniteau	197	Schuyler
017	Bollinger	077	Greene	137	Monroe	199	Scotland
019	Boone	079	Grundy	139	Montgomery	201	Scott
021	Buchanan	081	Harrison	141	Morgan	203	Shannon
023	Butler	083	Henry	143	New Madrid	205	Shelby
025	Caldwell	085	Hickory	145	Newton	207	Stoddard
027	Callaway	087	Holt	147	Nodaway	209	Stone
029	Camden	089	Howard	149	Oregon	211	Sullivan
031	Cape Girardeau	091	Howell	151	Osage	213	Taney
033	Carroll	093	Iron	153	Ozark	215	Texas
035	Carter	095	Jackson	155	Pemiscot	217	Vernon
037	Cass	097	Jasper	157	Perry	219	Warren
039	Cedar	099	Jefferson	159	Pettis	221	Washington
041	Chariton	101	Johnson	161	Phelps	223	Wayne
043	Christian	103	Knox	163	Pike	225	Webster
045	Clark	105	Laclede	165	Platte	227	Worth
047	Clay	107	Lafayette	167	Polk	229	Wright
049	Clinton	109	Lawrence	169	Pulaski	510	Saint Louis City
051	Cole	111	Lewis	171	Putnam		
053	Cooper	113	Lincoln	173	Ralls		
055	Crawford	115	Linn	175	Randolph		
057	Dade	117	Livingston	177	Ray		

**MISSISSIPPI**

Code	Name	Code	Name	Code	Name	Code	Name
000	Undetermined	023	Clarke	047	Harrison	071	Lafayette
001	Adams	025	Clay	049	Hinds	073	Lamar
003	Alcorn	027	Coahoma	051	Holmes	075	Lauderdale
005	Amite	029	Copiah	053	Humphreys	077	Lawrence
007	Attala	031	Covington	055	Issaquena	079	Leake
009	Benton	033	De Soto	057	Itawamba	081	Lee
011	Bolivar	035	Forrest	059	Jackson	083	Leflore
013	Calhoun	037	Franklin	061	Jasper	085	Lincoln
015	Carroll	039	George	063	Jefferson	087	Lowndes
017	Chickasaw	041	Greene	065	Jefferson Davis	089	Madison
019	Choctaw	043	Grenada	067	Jones	091	Marion
021	Claiborne	045	Hancock	069	Kemper	093	Marshall

**NRV\_COUNTIES (cont.)****Mississippi (cont.)**

Code	Name	Code	Name	Code	Name	Code	Name
095	Monroe	113	Pike	131	Stone	151	Washington
097	Montgomery	115	Pontotoc	133	Sunflower	153	Wayne
099	Neshoba	117	Prentiss	135	Tallahatchie	155	Webster
100	Rota	119	Quitman	137	Tate	157	Wilkinson
101	Newton	120	Tinian	139	Tippah	159	Winston
103	Noxubee	121	Rankin	141	Tishomingo	161	Yalobusha
105	Oktibbeha	123	Scott	143	Tunica	163	Yazoo
107	Panola	125	Sharkey	145	Union		
109	Pearl River	127	Simpson	147	Walthall		
111	Perry	129	Smith	149	Warren		

**MONTANA**

Code	Name	Code	Name	Code	Name
000	Undetermined	039	Granite	077	Powell
001	Beaverhead	041	Hill	079	Prairie
003	Big Horn	043	Jefferson	081	Ravalli
005	Blaine	045	Judith Basin	083	Richland
007	Broadwater	047	Lake	085	Roosevelt
009	Carbon	049	Lewis and Clark	087	Rosebud
011	Carter	051	Liberty	089	Sanders
013	Cascade	053	Lincoln	091	Sheridan
015	Chouteau	055	McCone	093	Silver Bow
017	Custer	057	Madison	095	Stillwater
019	Daniels	059	Meagher	097	Sweet Grass
021	Dawson	061	Mineral	099	Teton
023	Deer Lodge	063	Missoula	101	Toole
025	Fallon	065	Musselshell	103	Treasure
027	Fergus	067	Park	105	Valley
029	Flathead	069	Petroleum	107	Wheatland
031	Gallatin	071	Phillips	109	Wibaux
033	Garfield	073	Pondera	111	Yellowstone
035	Glacier	075	Powder River	113	Yellowstone Natl Park
037	Golden Valley				

**NORTH CAROLINA**

Code	Name	Code	Name	Code	Name	Code	Name
000	Undetermined	019	Brunswick	039	Cherokee	059	Davie
001	Alamance	021	Buncombe	041	Chowan	061	Duplin
003	Alexander	023	Burke	043	Clay	063	Durham
005	Alleghany	025	Cabarrus	045	Cleveland	065	Edgecombe
007	Anson	027	Caldwell	047	Columbus	067	Forsyth
009	Ashe	029	Camden	049	Craven	069	Franklin
011	Avery	031	Carteret	051	Cumberland	071	Gaston
013	Beaufort	033	Caswell	053	Currituck	073	Gates
015	Bertie	035	Catawba	055	Dare	075	Graham
017	Bladen	037	Chatham	057	Davidson	077	Granville



**NRV\_COUNTIES (cont.)****North Carolina (cont.)**

Code	Name	Code	Name	Code	Name	Code	Name
079	Greene	111	McDowell	141	Pender	171	Surry
081	Guilford	113	Macon	143	Perquimans	173	Swain
083	Halifax	115	Madison	145	Person	175	Transylvania
085	Harnett	117	Martin	147	Pitt	177	Tyrrell
087	Haywood	119	Mecklenburg	149	Polk	179	Union
089	Henderson	121	Mitchell	151	Randolph	181	Vance
091	Hertford	123	Montgomery	153	Richmond	183	Wake
093	Hoke	125	Moore	155	Robeson	185	Warren
095	Hyde	127	Nash	157	Rockingham	187	Washington
097	Iredell	129	New Hanover	159	Rowan	189	Watauga
099	Jackson	131	Northampton	161	Rutherford	191	Wayne
101	Johnston	133	Onslow	163	Sampson	193	Wilkes
103	Jones	135	Orange	165	Scotland	195	Wilson
105	Lee	137	Pamlico	167	Stanly	197	Yadkin
107	Lenoir	139	Pasquotank	169	Stokes	199	Yancey
109	Lincoln						

**NORTH DAKOTA**

Code	Name	Code	Name	Code	Name
000	Undetermined	035	Grand Forks	071	Ramsey
001	Adams	037	Grant	073	Ransom
003	Barnes	039	Griggs	075	Renville
005	Benson	041	Hettinger	077	Richland
007	Billings	043	Kidder	079	Rolette
009	Bottineau	045	La Moure	081	Sargent
011	Bowman	047	Logan	083	Sheridan
013	Burke	049	McHenry	085	Sioux
015	Burleigh	051	McIntosh	087	Slope
017	Cass	053	McKenzie	089	Stark
019	Cavalier	055	McLean	091	Steele
021	Dickey	057	Mercer	093	Stutsman
023	Divide	059	Morton	095	Towner
025	Dunn	061	Mountrail	097	Traill
027	Eddy	063	Nelson	099	Walsh
029	Emmons	065	Oliver	101	Ward
031	Foster	067	Pembina	103	Wells
033	Golden Valley	069	Pierce	105	Williams

## NRV\_COUNTIES (cont.)

**NEBRASKA**

Code	Name	Code	Name	Code	Name
000	Undetermined	063	Frontier	125	Nance
001	Adams	065	Furnas	127	Nemaha
003	Antelope	067	Gage	129	Nuckolls
005	Arthur	069	Garden	131	Otoe
007	Banner	071	Garfield	133	Pawnee
009	Blaine	073	Gosper	135	Perkins
011	Boone	075	Grant	137	Phelps
013	Box Butte	077	Greeley	139	Pierce
015	Boyd	079	Hall	141	Platte
017	Brown	081	Hamilton	143	Polk
019	Buffalo	083	Harlan	145	Red Willow
021	Burt	085	Hayes	147	Richardson
023	Butler	087	Hitchcock	149	Rock
025	Cass	089	Holt	151	Saline
027	Cedar	091	Hooker	153	Sarpy
029	Chase	093	Howard	155	Saunders
031	Cherry	095	Jefferson	157	Scotts Bluff
033	Cheyenne	097	Johnson	159	Seward
035	Clay	099	Kearney	161	Sheridan
037	Colfax	101	Keith	163	Sherman
039	Cuming	103	Keya Paha	165	Sioux
041	Custer	105	Kimball	167	Stanton
043	Dakota	107	Knox	169	Thayer
045	Dawes	109	Lancaster	171	Thomas
047	Dawson	111	Lincoln	173	Thurston
049	Deuel	113	Logan	175	Valley
051	Dixon	115	Loup	177	Washington
053	Dodge	117	McPherson	179	Wayne
055	Douglas	119	Madison	181	Webster
057	Dundy	121	Merrick	183	Wheeler
059	Fillmore	123	Morrill	185	York
061	Franklin				

**NEW HAMPSHIRE**

Code	Name	Code	Name	Code	Name
000	Undetermined	007	Coos	015	Rockingham
001	Belknap	009	Grafton	017	Strafford
003	Carroll	011	Hillsborough	019	Sullivan
005	Cheshire	013	Merrimack		

## NRV\_COUNTIES (cont.)

**NEW JERSEY**

Code	Name	Code	Name	Code	Name
000	Undetermined	015	Gloucester	029	Ocean
001	Atlantic	017	Hudson	031	Passaic
003	Bergen	019	Hunterdon	033	Salem
005	Burlington	021	Mercer	035	Somerset
007	Camden	023	Middlesex	037	Sussex
009	Cape May	025	Monmouth	039	Union
011	Cumberland	027	Morris	041	Warren
013	Essex				

**NEW MEXICO**

Code	Name	Code	Name	Code	Name
000	Undetermined	021	Harding	041	Roosevelt
001	Bernalillo	023	Hidalgo	043	Sandoval
003	Catron	025	Lea	045	San Juan
005	Chaves	027	Lincoln	047	San Miguel
006	Cibola	028	Los Alamos	049	Santa Fe
007	Colfax	029	Luna	051	Sierra
009	Curry	031	McKinley	053	Socorro
011	De Baca	033	Mora	055	Taos
013	Dona Ana	035	Otero	057	Torrance
015	Eddy	037	Quay	059	Union
017	Grant	039	Rio Arriba	061	Valencia
019	Guadalupe				

**NEVADA**

Code	Name	Code	Name	Code	Name
000	Undetermined	011	Eureka	023	Nye
001	Churchill	013	Humboldt	027	Pershing
003	Clark	015	Lander	029	Storey
005	Douglas	017	Lincoln	031	Washoe
007	Elko	019	Lyon	033	White Pine
009	Esmeralda	021	Mineral	510	Carson City

**NEW YORK**

Code	Name	Code	Name	Code	Name
000	Undetermined	011	Cayuga	023	Cortland
001	Albany	013	Chautauqua	025	Delaware
003	Allegany	015	Chemung	027	Dutchess
005	Bronx	017	Chenango	029	Erie
007	Broome	019	Clinton	031	Essex
009	Cattaraugus	021	Columbia	033	Franklin

**NRV\_COUNTIES (cont.)****New York (cont.)**

Code	Name	Code	Name	Code	Name
035	Fulton	065	Oneida	095	Schoharie
037	Genesee	067	Onondaga	097	Schuyler
039	Greene	069	Ontario	099	Seneca
041	Hamilton	071	Orange	101	Steuben
043	Herkimer	073	Orleans	103	Suffolk
045	Jefferson	075	Oswego	105	Sullivan
047	Kings	077	Otsego	107	Tioga
049	Lewis	079	Putnam	109	Tompkins
051	Livingston	081	Queens	111	Ulster
053	Madison	083	Rensselaer	113	Warren
055	Monroe	085	Richmond	115	Washington
057	Montgomery	087	Rockland	117	Wayne
059	Nassau	089	Saint Lawrence	119	Westchester
061	New York	091	Saratoga	121	Wyoming
063	Niagara	093	Schenectady	123	Yates

**NORTHERN MARIANA ISL**

Code	Name	Code	Name	Code	Name
000	Undetermined	100	Rota	120	Tinian
085	Northern Islands	110	Saipan		

**OHIO**

Code	Name	Code	Name	Code	Name
000	Undetermined	045	Fairfield	091	Logan
001	Adams	047	Fayette	093	Lorain
003	Allen	049	Franklin	095	Lucas
005	Ashland	051	Fulton	097	Madison
007	Ashtabula	053	Gallia	099	Mahoning
009	Athens	055	Geauga	101	Marion
011	Auglaize	057	Greene	103	Medina
013	Belmont	059	Guernsey	105	Meigs
015	Brown	061	Hamilton	107	Mercer
017	Butler	063	Hancock	109	Miami
019	Carroll	065	Hardin	111	Monroe
021	Champaign	067	Harrison	113	Montgomery
023	Clark	069	Henry	115	Morgan
025	Clermont	071	Highland	117	Morrow
027	Clinton	073	Hocking	119	Muskingum
029	Columbiana	075	Holmes	121	Noble
031	Coshocton	077	Huron	123	Ottawa
033	Crawford	079	Jackson	125	Paulding
035	Cuyahoga	081	Jefferson	127	Perry
037	Darke	083	Knox	129	Pickaway
039	Defiance	085	Lake	131	Pike
041	Delaware	087	Lawrence	133	Portage
043	Erie	089	Licking	135	Preble

**NRV\_COUNTIES (cont.)****Ohio (cont.)**

Code	Name	Code	Name	Code	Name
137	Putnam	151	Stark	165	Warren
139	Richland	153	Summit	167	Washington
141	Ross	155	Trumbull	169	Wayne
143	Sandusky	157	Tuscarawas	171	Williams
145	Scioto	159	Union	173	Wood
147	Seneca	161	Van Wert	175	Wyandot
149	Shelby	163	Vinton		

**OKLAHOMA**

Code	Name	Code	Name	Code	Name
000	Undetermined	051	Grady	103	Noble
001	Adair	053	Grant	105	Nowata
003	Alfalfa	055	Greer	107	Okfuskee
005	Atoka	057	Harmon	109	Oklahoma
007	Beaver	059	Harper	111	Okmulgee
009	Beckham	061	Haskell	113	Osage
011	Blaine	063	Hughes	115	Ottawa
013	Bryan	065	Jackson	117	Pawnee
015	Caddo	067	Jefferson	119	Payne
017	Canadian	069	Johnston	121	Pittsburg
019	Carter	071	Kay	123	Pontotoc
021	Cherokee	073	Kingfisher	125	Pottawatomie
023	Choctaw	075	Kiowa	127	Pushmataha
025	Cimarron	077	Latimer	129	Roger Mills
027	Cleveland	079	Le Flore	131	Rogers
029	Coal	081	Lincoln	133	Seminole
031	Comanche	083	Logan	135	Sequoyah
033	Cotton	085	Love	137	Stephens
035	Craig	087	McClain	139	Texas
037	Creek	089	McCurtain	141	Tillman
039	Custer	091	McIntosh	143	Tulsa
041	Delaware	093	Major	145	Wagoner
043	Dewey	095	Marshall	147	Washington
045	Ellis	097	Mayes	149	Washita
047	Garfield	099	Murray	151	Woods
049	Garvin	101	Muskogee	153	Woodward

**OREGON**

Code	Name	Code	Name	Code	Name
000	Undetermined	013	Crook	027	Hood River
001	Baker	015	Curry	029	Jackson
003	Benton	017	Deschutes	031	Jefferson
005	Clackamas	019	Douglas	033	Josephine
007	Clatsop	021	Gilliam	035	Klamath
009	Columbia	023	Grant	037	Lake
011	Coos	025	Harney	039	Lane

**NRV\_COUNTIES (cont.)****Oregon (cont.)**

Code	Name	Code	Name	Code	Name
041	Lincoln	053	Polk	063	Wallowa
043	Linn	055	Sherman	065	Wasco
045	Malheur	057	Tillamook	067	Washington
047	Marion	059	Umatilla	069	Wheeler
049	Morrow	061	Union	071	Yamhill
051	Multnomah				

**PENNSYLVANIA**

Code	Name	Code	Name	Code	Name
000	Undetermined	045	Delaware	091	Montgomery
001	Adams	047	Elk	093	Montour
003	Allegheny	049	Erie	095	Northampton
005	Armstrong	051	Fayette	097	Northumberland
007	Beaver	053	Forest	099	Perry
009	Bedford	055	Franklin	101	Philadelphia
011	Berks	057	Fulton	103	Pike
013	Blair	059	Greene	105	Potter
015	Bradford	061	Huntingdon	107	Schuylkill
017	Bucks	063	Indiana	109	Snyder
019	Butler	065	Jefferson	111	Somerset
021	Cambria	067	Juniata	113	Sullivan
023	Cameron	069	Lackawanna	115	Susquehanna
025	Carbon	071	Lancaster	117	Tioga
027	Centre	073	Lawrence	119	Union
029	Chester	075	Lebanon	121	Venango
031	Clarion	077	Lehigh	123	Warren
033	Clearfield	079	Luzerne	125	Washington
035	Clinton	081	Lycoming	127	Wayne
037	Columbia	083	McKean	129	Westmoreland
039	Crawford	085	Mercer	131	Wyoming
041	Cumberland	087	Mifflin	133	York
043	Dauphin	089	Monroe		

**PUERTO RICO**

Code	Name	Code	Name	Code	Name
000	Undetermined	021	Bayamon	043	Coamo
001	Adjuntas	023	Cabo Rojo	045	Comerio
003	Aguada	025	Caguas	047	Corozal
005	Aguadilla	027	Camuy	049	Culebra
007	Aguas Buenas	029	Canovanas	051	Dorado
009	Aibonito	031	Carolina	053	Fajardo
011	Anasco	033	Catano	054	Florida
013	Arecibo	035	Cayey	055	Guanica
015	Arroyo	037	Ceiba	057	Guayama
017	Barceloneta	039	Ciales	059	Guayanilla
019	Barranquitas	041	Cidra	061	Guaynabo

**NRV\_COUNTIES (cont.)****Puerto Rico (cont.)**

Code	Name	Code	Name	Code	Name
063	Gurabo	095	Maunabo	125	San German
065	Hatillo	097	Mayaguez	127	San Juan
067	Hormigueros	099	Moca	129	San Lorenzo
069	Humacao	101	Morovis	131	San Sebastian
071	Isabela	103	Naguabo	133	Santa Isabel
073	Jayuya	105	Naranjito	135	Toa Alta
075	Juana Diaz	107	Orocovis	137	Toa Baja
077	Juncos	109	Patillas	139	Trujillo Alto
079	Lajas	111	Penuelas	141	Utua
081	Lares	113	Ponce	143	Vega Alta
083	Las Marias	115	Quebradillas	145	Vega Baja
085	Las Piedras	117	Rincon	147	Vieques
087	Loiza	119	Rio Grande	149	Villalba
089	Luquillo	121	Sabana Grande	151	Yabucoa
091	Manati	123	Salinas	153	Yauco
093	Maricao				

**PALAU**

Code	Name	Code	Name	Code	Name
000	Undetermined	212	Melekeiok	226	Ngchesar
002	Aimeliik	214	Ngaraard	228	Ngiwal
004	Airai	218	Ngarchelong	300	Palau Islands
010	Angaur	222	Ngardmau	350	Peleliu
100	Kayangel	223	Ngaremlengui	370	Sonsorol
150	Koror	224	Ngatpang	380	Tobi

**RHODE ISLAND**

Code	Name	Code	Name	Code	Name
000	Undetermined	003	Kent	007	Providence
001	Bristol	005	Newport	009	Washington

**SOUTH CAROLINA**

Code	Name	Code	Name	Code	Name
000	Undetermined	023	Chester	047	Greenwood
001	Abbeville	025	Chesterfield	049	Hampton
003	Aiken	027	Clarendon	051	Horry
005	Allendale	029	Colleton	053	Jasper
007	Anderson	031	Darlington	055	Kershaw
009	Bamberg	033	Dillon	057	Lancaster
011	Barnwell	035	Dorchester	059	Laurens
013	Beaufort	037	Edgefield	061	Lee
015	Berkeley	039	Fairfield	063	Lexington
017	Calhoun	041	Florence	065	McCormick
019	Charleston	043	Georgetown	067	Marion
021	Cherokee	045	Greenville	069	Marlboro

**NRV\_COUNTIES (cont.)****South Carolina (cont.)**

Code	Name	Code	Name	Code	Name
071	Newberry	079	Richland	087	Union
073	Oconee	081	Saluda	089	Williamsburg
075	Orangeburg	083	Spartanburg	091	York
077	Pickens	085	Sumter		

**SOUTH DAKOTA**

Code	Name	Code	Name	Code	Name
000	Undetermined	059	Hand	119	Sully
001	Armstrong	061	Hanson	121	Todd
003	Aurora	063	Harding	123	Tripp
005	Beadle	065	Hughes	125	Turner
007	Bennett	067	Hutchinson	127	Union
009	Bon Homme	069	Hyde	129	Walworth
011	Brookings	071	Jackson	133	Washington
013	Brown	073	Jerauld	135	Yankton
015	Brule	075	Jones	137	Ziebach
017	Buffalo	077	Kingsbury		
019	Butte	079	Lake		
021	Campbell	081	Lawrence		
023	Charles Mix	083	Lincoln		
025	Clark	085	Lyman		
027	Clay	087	McCook		
029	Codington	089	McPherson		
031	Corson	091	Marshall		
033	Custer	093	Meade		
035	Davison	095	Mellette		
037	Day	097	Miner		
039	Deuel	099	Minnehaha		
041	Dewey	101	Moody		
043	Douglas	103	Pennington		
045	Edmunds	105	Perkins		
047	Fall River	107	Potter		
049	Faulk	109	Roberts		
051	Grant	111	Sanborn		
053	Gregory	113	Shannon		
055	Haakon	115	Spink		
057	Hamlin	117	Stanley		

**TENNESSEE**

Code	Name	Code	Name	Code	Name	Code	Name
000	Undetermined	011	Bradley	023	Chester	035	Cumberland
001	Anderson	013	Campbell	025	Claiborne	037	Davidson
003	Bedford	015	Cannon	027	Clay	039	Decatur
005	Benton	017	Carroll	029	Cocke	041	De Kalb
007	Bledsoe	019	Carter	031	Coffee	043	Dickson
009	Blount	021	Cheatham	033	Crockett	045	Dyer



**NRV\_COUNTIES (cont.)****Tennessee (cont.)**

Code	Name	Code	Name	Code	Name	Code	Name
047	Fayette	083	Houston	119	Maury	155	Sevier
049	Fentress	085	Humphreys	121	Meigs	157	Shelby
051	Franklin	087	Jackson	123	Monroe	159	Smith
053	Gibson	089	Jefferson	125	Montgomery	161	Stewart
055	Giles	091	Johnson	127	Moore	163	Sullivan
057	Grainger	093	Knox	129	Morgan	165	Sumner
059	Greene	095	Lake	131	Obion	167	Tipton
061	Grundy	097	Lauderdale	133	Overton	169	Trousdale
063	Hamblen	099	Lawrence	135	Perry	171	Unicoi
065	Hamilton	101	Lewis	137	Pickett	173	Union
067	Hancock	103	Lincoln	139	Polk	175	Van Buren
069	Hardeman	105	Loudon	141	Putnam	177	Warren
071	Hardin	107	McMinn	143	Rhea	179	Washington
073	Hawkins	109	McNairy	145	Roane	181	Wayne
075	Haywood	111	Macon	147	Robertson	183	Weakley
077	Henderson	113	Madison	149	Rutherford	185	White
079	Henry	115	Marion	151	Scott	187	Williamson
081	Hickman	117	Marshall	153	Sequatchie	189	Wilson

**TEXAS**

Code	Name	Code	Name	Code	Name	Code	Name
000	Undetermined	049	Brown	099	Coryell	149	Fayette
001	Anderson	051	Burleson	101	Cottle	151	Fisher
003	Andrews	053	Burnet	103	Crane	153	Floyd
005	Angelina	055	Caldwell	105	Crockett	155	Foard
007	Aransas	057	Calhoun	107	Crosby	157	Fort Bend
009	Archer	059	Callahan	109	Culberson	159	Franklin
011	Armstrong	061	Cameron	111	Dallam	161	Freestone
013	Atascosa	063	Camp	113	Dallas	163	Frio
015	Austin	065	Carson	115	Dawson	165	Gaines
017	Bailey	067	Cass	117	Deaf Smith	167	Galveston
019	Bandera	069	Castro	119	Delta	169	Garza
021	Bastrop	071	Chambers	121	Denton	171	Gillespie
023	Baylor	073	Cherokee	123	De Witt	173	Glasscock
025	Bee	075	Childress	125	Dickens	175	Goliad
027	Bell	077	Clay	127	Dimmit	177	Gonzales
029	Bexar	079	Cochran	129	Donley	179	Gray
031	Blanco	081	Coke	131	Duval	181	Grayson
033	Borden	083	Coleman	133	Eastland	183	Gregg
035	Bosque	085	Collin	135	Ector	185	Grimes
037	Bowie	087	Collingsworth	137	Edwards	187	Guadalupe
039	Brazoria	089	Colorado	139	Ellis	189	Hale
041	Brazos	091	Comal	141	El Paso	191	Hall
043	Brewster	093	Comanche	143	Erath	193	Hamilton
045	Briscoe	095	Concho	145	Falls	195	Hansford
047	Brooks	097	Cooke	147	Fannin	197	Hardeman

**NRV\_COUNTIES (cont.)****Texas (cont.)**

Code	Name	Code	Name	Code	Name	Code	Name
199	Hardin	277	Lamar	355	Nueces	433	Stonewall
201	Harris	279	Lamb	357	Ochiltree	435	Sutton
203	Harrison	281	Lampasas	359	Oldham	437	Swisher
205	Hartley	283	La Salle	361	Orange	439	Tarrant
207	Haskell	285	Lavaca	363	Palo Pinto	441	Taylor
209	Hays	287	Lee	365	Panola	443	Terrell
211	Hemphill	289	Leon	367	Parker	445	Terry
213	Henderson	291	Liberty	369	Parmer	447	Throckmorton
215	Hidalgo	293	Limestone	371	Pecos	449	Titus
217	Hill	295	Lipscomb	373	Polk	451	Tom Green
219	Hockley	297	Live Oak	375	Potter	453	Travis
221	Hood	299	Llano	377	Presidio	455	Trinity
223	Hopkins	301	Loving	379	Rains	457	Tyler
225	Houston	303	Lubbock	381	Randall	459	Upshur
227	Howard	305	Lynn	383	Reagan	461	Upton
229	Hudspeth	307	McCulloch	385	Real	463	Uvalde
231	Hunt	309	McLennan	387	Red River	465	Val Verde
233	Hutchinson	311	McMullen	389	Reeves	467	Van Zandt
235	Irion	313	Madison	391	Refugio	469	Victoria
237	Jack	315	Marion	393	Roberts	471	Walker
239	Jackson	317	Martin	395	Robertson	473	Waller
241	Jasper	319	Mason	397	Rockwall	475	Ward
243	Jeff Davis	321	Matagorda	399	Runnels	477	Washington
245	Jefferson	323	Maverick	401	Rusk	479	Webb
247	Jim Hogg	325	Medina	403	Sabine	481	Wharton
249	Jim Wells	327	Menard	405	San Augustine	483	Wheeler
251	Johnson	329	Midland	407	San Jacinto	485	Wichita
253	Jones	331	Milam	409	San Patricio	487	Wilbarger
255	Karnes	333	Mills	411	San Saba	489	Willacy
257	Kaufman	335	Mitchell	413	Schleicher	491	Williamson
259	Kendall	337	Montague	415	Scurry	493	Wilson
261	Kenedy	339	Montgomery	417	Shackelford	495	Winkler
263	Kent	341	Moore	419	Shelby	497	Wise
265	Kerr	343	Morris	421	Sherman	499	Wood
267	Kimble	345	Motley	423	Smith	501	Yoakum
269	King	347	Nacogdoches	425	Somervell	503	Young
271	Kinney	349	Navarro	427	Starr	505	Zapata
273	Kleberg	351	Newton	429	Stephens	507	Zavala
275	Knox	353	Nolan	431	Sterling		

**U.S. MINOR OUTLYING**

Code	Name	Code	Name	Code	Name
000	Determined	200	Johnston Atoll	350	Navassa Island
050	Baker Island	250	Kingman Reef	400	Palmyra Atoll
100	Howland Island	300	Midway Islands	450	Wake Island
150	Jarvis Island				

## NRV\_COUNTIES (cont.)

## UTAH

Code	Name	Code	Name	Code	Name	Code	Name
000	Undetermined	015	Emery	031	Piute	047	Uintah
001	Beaver	017	Garfield	033	Rich	049	Utah
003	Box Elder	019	Grand	035	Salt Lake	051	Wasatch
005	Cache	021	Iron	037	San Juan	053	Washington
007	Carbon	023	Juab	039	Sanpete	055	Wayne
009	Daggett	025	Kane	041	Sevier	057	Weber
011	Davis	027	Millard	043	Summit		
013	Duchesne	029	Morgan	045	Tooele		

## VIRGINIA

Code	Name	Code	Name	Code	Name	Code	Name
000	Undetermined	065	Fluvanna	131	Northampton	199	York
001	Accomack	067	Franklin	133	Northumberland	510	Alexandria
003	Albemarle	069	Frederick	135	Nottoway	515	Bedford
005	Alleghany	071	Giles	137	Orange	520	Bristol
007	Amelia	073	Gloucester	139	Page	530	Buena Vista
009	Amherst	075	Goochland	141	Patrick	540	Charlottesville
011	Appomattox	077	Grayson	143	Pittsylvania	550	Chesapeake
013	Arlington	079	Greene	145	Powhatan	560	Clifton Forge
015	Augusta	081	Greensville	147	Prince Edward	570	Colonial Heights
017	Bath	083	Halifax	149	Prince George	580	Covington
019	Bedford	085	Hanover	153	Prince William	590	Danville
021	Bland	087	Henrico	155	Pulaski	595	Emporia
023	Botetourt	089	Henry	157	Rappahannock	600	Fairfax
025	Brunswick	091	Highland	159	Richmond	610	Falls Church
027	Buchanan	093	Isle of Wight	161	Roanoke	620	Franklin
029	Buckingham	095	James City	163	Rockbridge	630	Fredericksburg
031	Campbell	097	King and Queen	165	Rockingham	640	Galax
033	Caroline	099	King George	167	Russell	650	Hampton
035	Carroll	101	King William	169	Scott	660	Harrisonburg
036	Charles City	103	Lancaster	171	Shenandoah	670	Hopewell
037	Charlotte	105	Lee	173	Smyth	678	Lexington
041	Chesterfield	107	Loudoun	175	Southampton	680	Lynchburg
043	Clarke	109	Louisa	177	Spotsylvania	683	Manassas
045	Craig	111	Lunenburg	179	Stafford	685	Manassas Park
047	Culpeper	113	Madison	181	Surry	690	Martinsville
049	Cumberland	115	Mathews	183	Sussex	700	Newport News
051	Dickenson	117	Mecklenburg	185	Tazewell	710	Norfolk
053	Dinwiddie	119	Middlesex	187	Warren	720	Norton
057	Essex	121	Montgomery	191	Washington	730	Petersburg
059	Fairfax	123	Nansemond	193	Westmoreland	735	Poquoson
061	Fauquier	125	Nelson	195	Wise	740	Portsmouth
063	Floyd	127	New Kent	197	Wythe	750	Radford

**NRV\_COUNTIES (cont.)****Virginia (cont.)**

Code	Name	Code	Name	Code	Name	Code	Name
760	Richmond	780	South Boston	810	Virginia Beach	830	Williamsburg
770	Roanoke	790	Staunton	820	Waynesboro	840	Winchester
775	Salem	800	Suffolk				

**VIRGIN ISLANDS**

Code	Name	Code	Name	Code	Name
000	Undetermined	020	Saint John	030	Saint Thomas
010	Saint Croix				

**VERMONT**

Code	Name	Code	Name	Code	Name
000	Undetermined	009	Essex	019	Orleans
001	Addison	011	Franklin	021	Rutland
003	Bennington	013	Grand Isle	023	Washington
005	Caledonia	015	Lamoille	025	Windham
007	Chittenden	017	Orange	027	Windsor

**WASHINGTON**

Code	Name	Code	Name	Code	Name
000	Undetermined	027	Grays Harbor	053	Pierce
001	Adams	029	Island	055	San Juan
003	Asotin	031	Jefferson	057	Skagit
005	Benton	033	King	059	Skamania
007	Chelan	035	Kitsap	061	Snohomish
009	Clallam	037	Kittitas	063	Spokane
011	Clark	039	Klickitat	065	Stevens
013	Columbia	041	Lewis	067	Thurston
015	Cowlitz	043	Lincoln	069	Wahkiakum
017	Douglas	045	Mason	071	Walla Walla
019	Ferry	047	Okanogan	073	Whatcom
021	Franklin	049	Pacific	075	Whitman
023	Garfield	051	Pend Oreille	077	Yakima
025	Grant				

**WISCONSIN**

Code	Name	Code	Name	Code	Name
000	Undetermined	015	Calumet	031	Douglas
001	Adams	017	Chippewa	033	Dunn
003	Ashland	019	Clark	035	Eau Claire
005	Barron	021	Columbia	037	Florence
007	Bayfield	023	Crawford	039	Fond Du Lac
009	Brown	025	Dane	041	Forest
011	Buffalo	027	Dodge	043	Grant
013	Burnett	029	Door	045	Green

**NRV\_COUNTIES (cont.)****Wisconsin (cont.)**

Code	Name	Code	Name	Code	Name
047	Green Lake	079	Milwaukee	111	Sauk
049	Iowa	081	Monroe	113	Sawyer
051	Iron	083	Oconto	115	Shawano
053	Jackson	085	Oneida	117	Sheboygan
055	Jefferson	087	Outagamie	119	Taylor
057	Juneau	089	Ozaukee	121	Trempealeau
059	Kenosha	091	Pepin	123	Vernon
061	Kewaunee	093	Pierce	125	Vilas
063	La Crosse	095	Polk	127	Walworth
065	Lafayette	097	Portage	129	Washburn
067	Langlade	099	Price	131	Washington
069	Lincoln	101	Racine	133	Waukesha
071	Manitowoc	103	Richland	135	Waupaca
073	Marathon	105	Rock	137	Waushara
075	Marinette	107	Rusk	139	Winnebago
077	Marquette	109	Saint Croix	141	Wood
078	Menominee				

**WEST VIRGINIA**

Code	Name	Code	Name	Code	Name
000	Undetermined	037	Jefferson	075	Pocahontas
001	Barbour	039	Kanawha	077	Preston
003	Berkeley	041	Lewis	079	Putnam
005	Boone	043	Lincoln	081	Raleigh
007	Braxton	045	Logan	083	Randolph
009	Brooke	047	McDowell	085	Ritchie
011	Cabell	049	Marion	087	Roane
013	Calhoun	051	Marshall	089	Summers
015	Clay	053	Mason	091	Taylor
017	Doddridge	055	Mercer	093	Tucker
019	Fayette	057	Mineral	095	Tyler
021	Gilmer	059	Mingo	097	Upshur
023	Grant	061	Monongalia	099	Wayne
025	Greenbrier	063	Monroe	101	Webster
027	Hampshire	065	Morgan	103	Wetzel
029	Hancock	067	Nicholas	105	Wirt
031	Hardy	069	Ohio	107	Wood
033	Harrison	071	Pendleton	109	Wyoming
035	Jackson	073	Pleasants		

**WYOMING**

<b>Code</b>	<b>Name</b>	<b>Code</b>	<b>Name</b>	<b>Code</b>	<b>Name</b>
000	Undetermined	015	Goshen	031	Platte
001	Albany	017	Hot Springs	033	Sheridan
003	Big Horn	019	Johnson	035	Sublette
005	Campbell	021	Laramie	037	Sweetwater
007	Carbon	023	Lincoln	039	Teton
009	Converse	025	Natrona	041	Uinta
011	Crook	027	Niobrara	043	Washakie
013	Fremont	029	Park	045	Weston

# NRV\_COVER\_LAYERS

This table contains cover layer data used to describe different vegetation layers.

Name	Size	Description																																																																																																									
LAYER  <i>Required</i>	VC(3)	Cover layer.  <table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> <th>Use</th> </tr> </thead> <tbody> <tr><td>ES</td><td>Established seedlings</td><td>CSE</td></tr> <tr><td>MC</td><td>Main canopy: dominant and co-dominant overstory trees that receive direct sunlight from above</td><td>CSE</td></tr> <tr><td>MS</td><td>Medium shrub: &gt; 0.5 meters, but &lt; 2 meters in height</td><td>CSE</td></tr> <tr><td>NS</td><td>Non-established seedlings</td><td>CSE</td></tr> <tr><td>OV</td><td>Overstory: trees &gt; 5 meters or 16.4 feet tall</td><td>CSE</td></tr> <tr><td>RE</td><td>Regeneration: trees &lt; 5 meters or 16.4 feet tall</td><td>CSE</td></tr> <tr><td>SA</td><td>Saplings: trees &lt; 5 meters or 16.4 feet, but &gt; 4.5 feet tall</td><td>CSE</td></tr> <tr><td>SB</td><td>Subcanopy: trees overtopped and separate from main canopy, but larger than the regeneration layer</td><td>CSE</td></tr> <tr><td>SE</td><td>Seedlings: trees &lt; 4.5 feet tall</td><td>CSE</td></tr> <tr><td>SL</td><td>Shrubs &lt; 1.6 feet tall</td><td>CSE</td></tr> <tr><td>SM</td><td>Shrubs between 1.6 feet and 6.0 feet tall</td><td>CSE</td></tr> <tr><td>ST</td><td>Shrubs ≥ 6.1 feet tall</td><td>CSE</td></tr> <tr><td>SU</td><td>Supercanopy: scattered overstory trees that clearly rise above the main canopy</td><td>CSE</td></tr> <tr><td>TAL</td><td>Total algae</td><td>CSE</td></tr> <tr><td>TFU</td><td>Total Fungus</td><td>CSE</td></tr> <tr><td>TLC</td><td>Total Lichen</td><td>CSE</td></tr> <tr><td>TLI</td><td>Total Woody Liana</td><td>CSE</td></tr> <tr><td>TN</td><td>Total Nonvascular plant</td><td>SE</td></tr> <tr><td>TOF</td><td>Total forbs</td><td>CSE</td></tr> <tr><td>TOG</td><td>Total graminoids</td><td>CSE</td></tr> <tr><td>TOH</td><td>Total herbs</td><td>CSE</td></tr> <tr><td>TOS</td><td>Total shrubs</td><td>CSE</td></tr> <tr><td>TOT</td><td>Total tree</td><td>CSE</td></tr> <tr><td>TOV</td><td>Trees ≥ 6.1 feet tall</td><td>CSE</td></tr> <tr><td>TSA</td><td>Trees &lt; 6.1 feet tall</td><td>CSE</td></tr> <tr><td>TSS</td><td>Total woody shrub</td><td>CSE</td></tr> <tr><td>TUN</td><td>Total unknown</td><td>CSE</td></tr> <tr><td>TV</td><td>otal vegetation</td><td>CSE</td></tr> <tr><td>TVI</td><td>Total herbaceous vin</td><td>CSE</td></tr> <tr><td>TVP</td><td>Total vascular plants</td><td>CSE</td></tr> <tr><td>1</td><td>User defined layer</td><td>Legacy</td></tr> <tr><td>2</td><td>User defined layer</td><td>Legacy</td></tr> <tr><td>3</td><td>User defined layer</td><td>Legacy</td></tr> <tr><td>4</td><td>User defined layer</td><td>Legacy</td></tr> </tbody> </table>	Code	Description	Use	ES	Established seedlings	CSE	MC	Main canopy: dominant and co-dominant overstory trees that receive direct sunlight from above	CSE	MS	Medium shrub: > 0.5 meters, but < 2 meters in height	CSE	NS	Non-established seedlings	CSE	OV	Overstory: trees > 5 meters or 16.4 feet tall	CSE	RE	Regeneration: trees < 5 meters or 16.4 feet tall	CSE	SA	Saplings: trees < 5 meters or 16.4 feet, but > 4.5 feet tall	CSE	SB	Subcanopy: trees overtopped and separate from main canopy, but larger than the regeneration layer	CSE	SE	Seedlings: trees < 4.5 feet tall	CSE	SL	Shrubs < 1.6 feet tall	CSE	SM	Shrubs between 1.6 feet and 6.0 feet tall	CSE	ST	Shrubs ≥ 6.1 feet tall	CSE	SU	Supercanopy: scattered overstory trees that clearly rise above the main canopy	CSE	TAL	Total algae	CSE	TFU	Total Fungus	CSE	TLC	Total Lichen	CSE	TLI	Total Woody Liana	CSE	TN	Total Nonvascular plant	SE	TOF	Total forbs	CSE	TOG	Total graminoids	CSE	TOH	Total herbs	CSE	TOS	Total shrubs	CSE	TOT	Total tree	CSE	TOV	Trees ≥ 6.1 feet tall	CSE	TSA	Trees < 6.1 feet tall	CSE	TSS	Total woody shrub	CSE	TUN	Total unknown	CSE	TV	otal vegetation	CSE	TVI	Total herbaceous vin	CSE	TVP	Total vascular plants	CSE	1	User defined layer	Legacy	2	User defined layer	Legacy	3	User defined layer	Legacy	4	User defined layer	Legacy
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TVI	Total herbaceous vin	CSE																																																																																																									
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3	User defined layer	Legacy																																																																																																									
4	User defined layer	Legacy																																																																																																									

**NRV\_COVER\_LAYERS (cont.)**

Name	Size	Description												
DESCRIPTION <i>Required</i>	VC(255)	Additional information about the layer.												
CREATED_BY <i>Required</i>	VC(30)	The name of the person who created the record.												
CREATED_DATE <i>Required</i>	DATE	The date the record was created.												
CREATED_IN_INSTANCE <i>Required</i>	N(6)	The database ID where the record was created.												
DATA_USE	VC(6)	Describes which protocols use each layer code. The valid values are: <table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>ALL</td> <td>All protocols</td> </tr> <tr> <td>CSE</td> <td>Common Stand Exam protocols</td> </tr> <tr> <td>FIA</td> <td>Forest Inventory and Analysis protocols</td> </tr> <tr> <td>FIRE</td> <td>Fire protocols</td> </tr> <tr> <td>LEGACY</td> <td>Stand Exam data collected prior to CSE</td> </tr> </tbody> </table>	Code	Description	ALL	All protocols	CSE	Common Stand Exam protocols	FIA	Forest Inventory and Analysis protocols	FIRE	Fire protocols	LEGACY	Stand Exam data collected prior to CSE
Code	Description													
ALL	All protocols													
CSE	Common Stand Exam protocols													
FIA	Forest Inventory and Analysis protocols													
FIRE	Fire protocols													
LEGACY	Stand Exam data collected prior to CSE													
MODIFIED_BY	VC(30)	The name of the person who modified the record.												
MODIFIED_DATE	DATE	The date the record was modified.												
MODIFIED_IN_INSTANCE	N(6)	The database ID where the record was modified.												
ON_OFF	VC(3)	Field used only to make applicable references visible on forms.												

**NRV\_COVER\_REFERENCES**

Table containing references for existing or potential vegetation classification systems.

Name	Type	Description
COVREF_TYPE <i>Required</i>	VC(10)	The cover reference type. Valid types are "EVREF" for existing vegetation cover references, and "PVREF" for potential vegetation cover references.
CREATED_BY <i>Required</i>	VC(30)	The name of the person who created the record.
CREATED_DATE <i>Required</i>	DATE	The date the record was created.
CREATED_IN_INSTANCE <i>Required</i>	N(6)	The database ID where the record was created.
DOCUMENT_NAME <i>Required</i>	VC(200)	Official title of the cover reference.
ON_OFF <i>Required</i>	VC(3)	Flag to display (ON) or hide (OFF) individual references in the Interface pull-down lists.
REF_CODE <i>Required</i>	VC(10)	The cover reference code.
AUTHOR	VC(200)	Author(s) of the cover reference publication.
MODIFIED_BY	VC(30)	The name of the person who modified the record.
MODIFIED_DATE	DATE	The date the record was modified.
MODIFIED_IN_INSTANCE	N(6)	The database ID where the record was modified.



**NRV\_COVER\_REFERENCES (cont.)**

<b>Code</b>	<b>Type</b>	<b>Name</b>	<b>Author</b>
CAL	EVREF	<b>Forest Inventory and Analysis User Guide</b> , USDA Forest Service, Pacific Southwest Region. May 1997.	USDA Forest Service
EWDB	EVREF	Hansen, Mark H.; Frieswyk, Thomas; Glover, Joseph F; Kelly, John F. 1992. <b>The Eastwide Forest Inventory Database: Users Manual</b> . Gen. Tech. Rep. NC-151. St. Paul, MN: U.S. Department of Agriculture, Forest Service, North Central Forest Experiment Station. 48 p.	U.S. Dept. of Agriculture
FIADB	EVREF	<b>The Forest Inventory and Analysis Database: Database Description and Users Manual</b> Version 1.0. Gen. Tech. Rep. NC-218. St. Paul, MN: U.S.D.A., Forest Service, North Central Research Station. 130 pp.	Miles, Patrick D.; Brand, Gary J.; Alerich, Carol L.; Bednar, Larry F.; Woudenberg, Sharon W.; Glover, Joseph F.; Ezzell, Edward N (2001)
FSH	EVREF	<b>Forest Service Handbook</b> FSH 2409.14. Timber Management Information System Handbook Amendment No. 2409.14-92-15. Effective Nov. 3, 1992. 2409.14,81 Part 01. pp. 19-23	USDA Forest Service
FSHR8	EVREF	<b>Forest Service Handbook</b> . Atlanta, Georgia. R8 FSH 2409.26d. Silvicultural Examination and Prescription Handbook. R8 Amendment No. 2409.26d-93-1.	USDA Forest Service
FSHR9	EVREF	<b>Forest Service Handbook</b> . Milwaukee, Wisconsin. FSH 2409.21d-R9, Compartment Prescription Handbook, FSH 6/84. Amendment 20, April 1974. pp 260.2-2.	USDA Forest Service
PNW	EVREF	<b>PNW-GTR-418, Pacific Northwest Ecoclass Codes for Seral and Potential Natural Communities</b> , April 1998. A subset Reference 639. High level codes to classify existing vegetation.	
R2EVC	EVREF	Region 2 Existing Vegetation Codes	
R6F02	EVREF	Region 6 Forest 2 (Fremont-Winema) Existing Vegetation Codes	
RPA	EVREF	Resource Planning Act	
SAF	EVREF	<b>Forest Cover Types of the United States and Canada</b> .	F.H. Eyre, Editor. Society of American Foresters (1980)
SRM	EVREF	Society for Range Management	
TSMRSR1	EVREF	Region 1 TSMRS EV Codes	Region 1, Renate Bush
1001	EVREF	Region 10; Resource Information Management: Data Dictionary for the Chugach National Forest	
1003	EVREF	Yakutat Existing Veg Classification, 1995	Michael Shepard, Chatham Area Ecologist
101	PVREF	<b>Forest Habitat Types of Montana</b> ; Gen.Tech.Rep. INT-34	R.D. Pfister, B.L. Kovalchik, S.F. Arno, and R.C. Presby (1977)
102	PVREF	<b>Key to Montana Forest/Woodland Habitat Types East of the Continental Divide</b> . Developed for RMRS FIA (FIA ONLY)	Steve Cooper and Bob Pfister, 1988.
103	PVREF	<b>Grassland and Shrubland Habitat Types of Western Montana</b> ; USDA/FS Gen.Tech.Rep. INT-66	W.F. Mueggler and W.L. Stewart (1980)

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<b>Code</b>	<b>Type</b>	<b>Name</b>	<b>Author</b>
109	PVREF	<b>Native Woodland Habitat Types of Southwestern North Dakota</b> ; USDA/FS Research Paper RM-281	Michele M. Girard, Harold Goetz, Ardell J. Bjugstad (1989)
110	PVREF	<b>Forest Habitat Types of Northern Idaho: A Second Approximation</b> ; USDA/FS Gen.Tech.Rep. INT-236	Cooper, Stephen V. Kenneth E. Neiman, Robert Steele, and David W. Roberts (1991)
111	PVREF	<b>Some combination of references 101 and 110</b>	
112	PVREF	<b>Classification and Management of Montana's Riparian and Wetland sites. Misc. Pub. #54.</b> Missoula, MT: Montana Riparian Association.	Hansen, Paul L.; Boggs, Keith L.; Cook, Bradley J.; and others. 1995
113	PVREF	<b>Plant Community Classification for Alpine Vegetation on the Beaverhead National Forest, Montana.</b> INT-GTR-362. 1997. 61p.	Stephen V. Cooper, Peter Lesica, and Deborah Page-Dumroese.
114	PVREF	<b>The Vegetation of the Grand River/Cedar River, Sioux, and Ashland Districts of the Custer NF: A habitat Type Classification.</b> Gen. Tech. Rep. RM-157. T, Collins, CO: USDA FS RMFR Ex ST. 68p.	Hansen, Paul, L.; Hoffman, George R.
115	PVREF	<b>Ecological Sites and Habitat Types of Little Missouri National Grasslands and Western North Dakota</b>	Jensen, Heisner, DiBenedetto, Wessman, Phillippe
199	PVREF	<b>FSH 2409.21h R-1 Timber Management Data Handbook.</b> For a description of the vegetative characteristics please refer to Forest Habitat Types of Montana; Gen. Tech. Rep. INT-34	Pfister, Kovalchik, Arno & Presby (Ref code 101)
201	PVREF	<b>Plant Associations of Region Two: Potential Plant Communities of Wyoming, South Dakota, Nebraska, Colorado, and Kansas</b> ; Edition 4	USDA/FS Report R2-ECOL-87-2 Barry C. Johnston(1987)
202	PVREF	<b>The Black Hills Community Inventory</b> prepared by the Nature Conservancy authors, Midwest Regional Office, Minneapolis, Minnesota	Amanda G. McAdams, Don Faber-Langendoen, Diane A. Stutzman
203	PVREF	<b>Riparian and Wetland Plant Communities of the Black Hills.</b> The Nature Conservancy. 12/2000	Hollis J. Marriott and Don Faber-Langendoen
204	PVREF	<b>Forest Vegetation of the Gunnison and Parts of the Uncompahgre Natinal Forests: A Preliminary Habitat Type Classification</b> ; USDA /FS Gen.Tech.Rep. RM-163	Vera Komarkova, Robert R. Alexander, and Barry C. Johnston (1988)
205	PVREF	<b>Forest Vegetation on National Forests in the Rocky Mountain and Intermountain Regions: Habitat Types and Community Types</b> ; USDA /FS Gen.Tech.Rep. RM-162	Robert R. Alexander (1988)
206	PVREF	<b>Ecological Types of the Upper Gunnison Basin.</b> Technical Report R2-RR-2001-01, 858pp. Lakewood, CO: USDA Forest Service, Rocky Mtn. Region. May 2001.	Johnson, Barry C., Laurie Huckaby, Terry J. Hughes and Joseph Pecor
207	PVREF	<b>Forest Vegetation of the Medicine Bow National Forest in Southeast Wyoming: A Habitat Type Classification.</b> RM-271. USDA Forest Service.	Alexander, Robert R., Hoffman, George R., and Wirsing, John M. 1986.
208	PVREF	<b>Forest Vegetation of the Bighorn Mountains, Wyoming: A Habitat Type Classification.</b> RM-170. USDA Forest Service.	Hoffman, George R., and Alexander, Robert R. 1986.

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<b>Code</b>	<b>Type</b>	<b>Name</b>	<b>Author</b>
209	PVREF	<b>Forest Vegetation of the Arapaho and Roosevelt National Forests in Central Colorado: A Habitat Type Classification.</b> RM-266. 48p.	Karl Hess and Robert. R. Alexander
210	PVREF	<b>Forest Vegetation of the White River National Forest in Western Colorado: A Habitat Type Classification.</b> USDA Forest Service Research Paper RM-249, 36 p.	
301	PVREF	<b>Plant Associations of Arizona and New Mexico</b> , ed. 3, 7/1997. Vol 1: Forests, Vol 2: Woodlands (an update of the USDA Forest Serv SW Region Habitat Typing Guides. 9/1996, rev 7/1997. Contract R3-95-27)	
303	PVREF	<b>Forests and Woodland Habitat Types (plant Associations) of Arizona; South of the Mogollon Rim and Southwestern New Mexico; 2<sup>nd</sup> Edition (1987) (FIA ONLY)</b>	
401	PVREF	<b>Forest Habitat Types of Central Idaho;</b> USDA/FS Gen.Tech.Rep. INT-114	R. Steele, R.D. Pfister, R.A. Ryker, and J.A. Kittams (1981)
402	PVREF	<b>Forest Habitat Types of Eastern Idaho-Western Wyoming;</b> USDA/FS Gen.Tech.Rep INT-144	R. Steele, S.V. Cooper, D.M. Ondov, D.W. Roberts, and R.D. Pfister (1983)
403	PVREF	<b>Coniferous Forest Habitat Types of Northern Utah;</b> USDA/FS Gen.Tech.Rep. INT-170	R.L. Mauk and J.A. Henderson (1984)
404	PVREF	<b>Coniferous Forest Habitat Types of Central and Southern Utah;</b> USDA/FS Gen.Tech.Rep. INT-187	A.P. Youngblood and R.L. Mauk (1985)
405	PVREF	<b>Aspen Community Types of the Intermountain Region;</b> USDA /FS Gen.Tech.Rep. INT-250	W.F. Mueggler (1988)
406	PVREF	<b>Riparian Community Type Classification of Eastern Idaho-Western Wyoming;</b> USDA/FS Report R4-ECOL-85-01	A.P. Youngblood, W.G. Padgett, and A.H. Winward (1985)
407	PVREF	<b>Riparian Community Type Classification of Utah and Southeastern Idaho;</b> USDA/FS Report R4-ECOL-89-01	W.G. Padgett, A.P. Youngblood, and A.H. Winward (1989)
408	PVREF	<b>Sagebrush-Grass Habitat Types of Southern Idaho;</b> Forest, Wildlife, and Range Experiment Station Bulletin No. 35; Univ. of Idaho, Moscow	M. Hironaka, M.A. Fosberg, and A.H. Winward (1983)
409	PVREF	<b>Steppe Vegetation of Washington;</b> Washington Agriculture Experiment Station Tech. Bulletin No. 62	R.F. Daubenmire (1970)
410	PVREF	<b>Canyon Grasslands and Associated Shrublands of West-Central Idaho and Adjacent Areas;</b> Forest, Wildlife, and Range Experiment Station Bulletin No. 40	E.W. Tisdale (1985)
412	PVREF	Some combination of references 406 and 407.	
413	PVREF	Some combination of references 401, 403, and 404.	
414	PVREF	<b>Plant Community Classification of the Spring Mountains National Recreation Area.</b> Unpublished 1996 (FIA ONLY)	The Nature Conservancy and USDA Forest Service
415	PVREF	<b>NatureServe Explorer: An online encyclopedia of life</b> (web application). Version 1.8. <a href="http://www.natureserve.org/explorer">http://www.natureserve.org/explorer</a> 2000 (FIA ONLY)	NatureServe

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<b>Code</b>	<b>Type</b>	<b>Name</b>	<b>Author</b>
416	PVREF	<b>A Management-Oriented Classification of Pinyon-Juniper Woodlands of the Great Basin.</b> RMRS-GTR-12. USDA-FS, Rocky Mountain Research Station. Ogden, UT, 1998 (FIA ONLY)	West, N.E., R.J. Tausch, and P.T. Tueller
417	PVREF	<b>Office-generated codes for RMRS FIA to capture habitat type series and undefined types.</b> (FIA ONLY)	
418	PVREF	<b>Curleaf Mountain-Mahogany Habitat Types for Interior West Inventories;</b> from Ecology of Curleaf Mountain-Mahogany in Oregon and Adjacent areas. 1975, 162 pp. unpublished	Dealy, J. Edward
491	PVREF	Office-generated codes for RNRS FIA to capture habitat type series and undefined types. (FIA ONLY)	RMRS FIA
493	PVREF	<b>Forest Vegetation of the Medicine Bow National Forest in Southeastern Wyoming: A Habitat Type Classification.</b> Research Paper RM-271. (FIA ONLY)	Robert A. Alexander, George R. Hoffman, and John M. Wirsing. (1986)
494	PVREF	<b>Curleaf Mountain-Mahogany Habitat Types for Interior West Inventories; from Ecology of Curleaf Mountain-Mahogany in Oregon and Adjacent Areas.</b> Not published. 162 pp. (FIA ONLY)	Dealy, J. Edward, (1975)
501	PVREF	<b>Riparian Community Type Classification for Humboldt and Toiyabe National Forests, Nevada and Eastern California;</b> R4-Ecol-95-01. 1995	Mary E. Manning and Wayne G. Padgett
502	PVREF	<b>Westside Mixed Conifer Ecosystems - Plumas, Lassen, and Tahoe National Forests;</b> Zone 4	Gary Benson (1988)
503	PVREF	<b>Ecological Type Classification for California: Mixed Conifer of the Trinity Ultramafic Sheet;</b> Zone 3	Bud Adamson (1988)
504	PVREF	<b>Ecological Guide to Eastside Plant Associations; Northeastern California: Modoc, Lassen, Klamath, Shasta-Trinity, Plumas, and Tahoe National Forests.</b> 1994	Sydney Smith, S.
506	PVREF	<b>A classification of Upper Montane Forests in the Central and Southern Sierras of California. Zone 5. General Technical Report R5-ECOL-TP-003.</b>	Potter, D. (1994)
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508	PVREF	<b>CAL-VEG codes.</b> Timber management Plan Inventory Handbook, USDA Forest Service, Pacific Southwest Region. June 1995	
509	PVREF	<b>Ecological Guide to Mixed Conifer Plant Associations. Northern Sierra Nevada and Southern Cascades: Lassen, Plumas, Tahoe, and El Dorado National Forests.</b> R5-ECOL-TP-001.	Jo Ann Fites
510	PVREF	A Field Guide to Port Orford Cedar Plant Associations in Northwest California; USDA Forest Service Report R5-ECOL-TP-002	Jimerson, Thomas M. 1994
511	PVREF	<b>Ecological Guide to Southern California Chaparral Plant Series. Transverse and Pennisular Ranges; Angeles, Cleveland, and San. Bernardino National Forests.</b> USDA Forest Service Report R5-ECOL-TP-005.	Gordon, H. and T. C. White. 1994

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<b>Code</b>	<b>Type</b>	<b>Name</b>	<b>Author</b>
512	PVREF	A Field Guide to Serpentine Plant Associations and Sensitive Plants in Northwestern California; USDA Forest Service Report R5-ECOL-TP-006.	Jimerson, Thomas M. et al. 1995
513	PVREF	<b>A Field Guide to the Tanoak and the Douglas-fir Plant Associations in Northwestern California;</b> USDA Forest Service Report R5-ECOL-TP-009.	Jimerson, T. M. et al. 1996
514	PVREF	<b>Coast Redwood Ecological Types of Southern Monterey County, California.</b> USDA Forest Service, Pacific Southwest Forest and Range Experiment Station, GTR PSW -107. 1988	Mark Borchert, Daniel Segotta, and Michael D. Purser
515	PVREF	<b>Blue Oak Plant Communities of Southern San Luis Obispo and Northern Santa Barbara Counties, California.</b> USDA Forest Service, Pacific Southwest Forest and Range Experiment Station. GTR PSW-139. 1993	Mark I. Borchert, Nancy D. Cunha, Patricia C. Krosse, and Marcee L. Lawrence
602	PVREF	<b>Vegetation-Soil Units in the Central Oregon Juniper Zone.</b> Res. Pap. PNW-19. Portland, OR: USDA, Forest Service, Pac. N.W. For. & Range Exp. Stat. 60 pp.	Richard S. Driscoll, 1964
603	PVREF	<b>A Preliminary Classification of Forest Communities in the Central Portion of The Western Cascades in Oregon.</b> Bull. 4, Coniferous Forest Biome, Ecosystem Analysis Studies, US/Int. Biological Program.	Dyrness, C.T., Jerry F. Franklin, and W.H. Moir. 1974
604	PVREF	<b>Plant Communities of the Blue Mountains In Eastern Oregon and Southeastern Washington.</b> R6 Area Guide 3-1. Portland, OR: USDA, Forest Service, Pacific Northwest Region, 62 pp. illus. R6 AG 3-1.	Hall, F.C. 1973
605	PVREF	<b>Plant Associations of the Fremont National Forest.</b> R6 Ecol 79-004. Portland, OR: USDA, Forest Service, Pacific Northwest Region, 106 pp. R6 E 79-004	W.E. Hopkins, 1979
606	PVREF	<b>Plant Associations of South Chiloquin and Klamath Ranger Districts, Winema National Forest.</b> R6 Ecol 79-005. USDA, Forest Service, Pacific Northwest Region. 96 pp.	W.E. Hopkins, (1979)
607	PVREF	<b>Plant Association and Management Guide for the Pacific Silver Fir Zone, Mt. Hood And Willamette National Forests.</b> R6 Ecol 100-1982.	Hemstrom, M.A., W.H. Emmingham, N.M. Halverson, S.E. Logan, C. Topik.(1982
608	PVREF	<b>Plant Association and Management Guide for the Pacific Silver Fir Zone, Gifford Pinchot National Forest.</b> R6 Ecol 130-83. Portland, OR: USDA, Forest Service, Pacific Northwest Region. 76 pp.	Brockway, D.G., C. Topik, M.A. Hemstrom, W.H. Emmingham. 1983
609	PVREF	<b>Forested Plant Associations Of The Okanogan National Forest.</b> R6 Ecol 132-1983. Portland, OR: USDA, Forest Service, Pacific Northwest Region. 116 pp.	Williams, C.K. and T.R. Lillybridge. 1983

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<b>Code</b>	<b>Type</b>	<b>Name</b>	<b>Author</b>
610	PVREF	<b>Plant Associations of the Crooked River National Grassland, Ochoco National Forest.</b> R6 Ecol 133-1983. Portland, OR: USDA, Forest Service, Pacific Northwest Region. 98 pp.	Hopkins, W.E. and B.L. Kovalchik. 1983
611	PVREF	<b>Plant Associations of the Central Oregon Pumice Zone.</b> R6 Ecol 104-1985. Portland, OR: USDA, Forest Service, Pacific Northwest Region. 138 pp.	Volland, L.A. 1985
612	PVREF	<b>Plant Association and Management Guide, Siuslaw National Forest.</b> R6 Ecol-220-1986. Portland, OR: USDA Forest Service, Pacific Northwest Region. 121 pp.	Hemstrom, M.A. and S.E. Logan, 1986
613	PVREF	<b>Plant Association and Management Guide for the Western Hemlock Zone, Gifford Pinchot National Forest.</b> R6 Ecol 230-1986. Portland, OR: USDA, Forest Service, Pacific Northwest Region. 133 pp.	Topik, C. N.M. Halverson, and D.G. Brockway. 1986
614	PVREF	<b>Plant Association and Management Guide for the Western Hemlock Zone, Mt. Hood National Forest.</b> R6 Ecol 232-1986. Portland, OR: USDA, Forest Service, Pacific Northwest Region. 111 pp.	Halverson, N.M., C. Topik and R. VanVickle. 1986
615	PVREF	<b>Plant Associations of the Wallowa-Snake Province, Wallowa-Whitman National Forest.</b> R6 Ecol 255-1986. Portland, OR: USDA, Forest Service, Pacific Northwest Region. 513 pp.	Johnson, C.G. and S.A. Simon. 1987
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617	PVREF	<b>Riparian Zone Associations, Deschutes, Ochoco, Fremont, and Winema National Forests.</b> R6 Ecol. Tech. Paper 279-1987. Portland, OR: USDA, Forest Service, Pacific Northwest Region. 171 pp.	Kovalchik, B.L. 1987
618	PVREF	<b>Forested Plant Associations of the Olympic National Forest.</b> R6 Ecol. Tech. Paper 001-88. Portland, OR: USDA, Forest Service, Pacific Northwest Region. 502 p.	Henderson, J.A., D.H. Peter, R.D. Leshner. 1988
619	PVREF	<b>Plant Association and Management Guide for the Ponderosa Pine, Douglas Fir, and Grand Fir Zones, Mt. Hood National Forest.</b> R6 Ecol. Tech. Paper 004-88. Portland, OR: USDA Forest Service, Pacific Northwest Region. 132 p.	Topik, C., N.M. Halverson, T.High. 1988
620	PVREF	<b>Plant Association and Management Guide for the Grand Fir Zone--Gifford Pinchot National Forest.</b> R6 Ecol. Tech. Paper 006-88. Portland, OR: USDA, Forest Service, Pacific Northwest Region. 110 p.	Topik, C. and N. Halverson. 1988
621	PVREF	<b>Field Guide to the Forested Plant Associations of the Mt. Baker-Snoqualmie National Forest.</b> R6 Ecol TP 028-91. Portland, OR: USDA Forest Service, Pacific Northwest Region. 196 pp.	Henderson, J.A., R.D. Leshner, D.H. Peter and D.C. Shaw. 1992
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<b>Code</b>	<b>Type</b>	<b>Name</b>	<b>Author</b>
623	PVREF	<b>Plant Association and Management Guide for the Mountain Hemlock Zone, Gifford Pinchot and Mt. Hood National Forests.</b> R6 MTH-GP TP-08-95. Portland, OR: USDA Forest Service, Pacific Northwest Region. 101pp.	Topic, C., D. Smith, N.Diaz, and T. High. 1995
624	PVREF	<b>Mid-Montane Wetland Plant Associations of the Malheur, Umatilla, and Wallowa-Whitman National Forests.</b> R6 NR ECOL TP-22-97.	Crowe, Elisabeth A; Clausnitzer, Rodrick R. 1997
625	PVREF	<b>Riparian Ecological Types, Gifford Pinchot and Mt. Hood National Forests, Columbia River Gorge National Scenic Area.</b> R6 NR-TP-10-96. Portland, OR: USDA Forest Service, Pacific Northwest Region. 203 pp.	Diaz, Nancy M.; Mellen, T.Kim. 1996
626	PVREF	<b>Field Guide for Forested Plant Associations of the Wenatchee National Forest.</b> Gen. Tech. Rep. PNW-GTR-359. 335 pp.	Lillybridge, T.R.; Kovalchik, B.L.; Williams, C.K.; Smith, B.G 1995
627	PVREF	<b>Forested Plant Associations of the Colville National Forest.</b> Gen. Tech. Rep. PNW-GTR-360.	Williams, Clinton K.; Kelley, Brian F.; Smith, Bradley G.; Lillybridge, Terry R. 1995
628	PVREF	<b>Vegetation of Two Drainages in Eagle Cap Wilderness, Wallowa Mountains, Oregon.</b> INT-288. Ogden, UT: USDA Forest Service, Intermountain Forest and Range Experiment Station. 42 p.	Cole, David N. 1982
631	PVREF	<b>Forest habitat types of the Colville Indian Reservation. Publication No. MISC0110.</b> Pullman, WA: Washington State University, Agriculture Research Center, 110 pp. illus.	Clausnitzer, R.R., and B.A. Zamora. 1987
632	PVREF	<b>Forest Vegetation of Eastern Washington and Northern Idaho.</b> Tech. Bull. 60. Pullman, WA: Washington State University, Wash. Agr. Exp. Stat. 104 pp. illust.	Daubenmire, R. and Jean B. Daubenmire. 1968
634	PVREF	The Oregon Dunes NRA Resource Inventory, Siuslaw National Forest.	<b>Carlos Pinto, USDA Forest service. 1972</b>
635	PVREF	Plant Associations of the Commercial Forest of the Warm Springs Indian Reservation. Warm Springs, OR: Warm Springs Indian Reservation. 142 pp. illust.	Marsh, R, R. Helliwell and J. Rodgers. 1987
636	PVREF	<b>The Forest Communities of Mount Rainier National Park. Scientific Monograph Series No. 19.</b> Washington, DC: US Department of the Interior, National Park Service. 194 pp. illust.	Franklin, J.F. W.H. Moir, M.A. Hemstrom, S.E. Greene, B.A. Smith. 1988
638	PVREF	<b>Forest habitat types of the Spokane Indian Reservation. Res. Bull. XB-0936.</b> Pullman, WA: Wash. State Univ., Agr. Res. Center. 65 pp. illust.	Zamora, B.A. 1983
639	PVREF	Pacific Northwest Ecoclass Codes for Seral and Potential Natural Communities. PNW-GTR-418 (contains a combination of the codes in references 602-638)	Hall, Frederick C. (1998)

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<b>Code</b>	<b>Type</b>	<b>Name</b>	<b>Author</b>
640	PVREF	Some combination of references 604, 615, 622, and 624.	
641	PVREF	<b>Field Guide to the Forested Plant Associations of Southwestern Oregon.</b> R6-NR-ECOL-TP-17-96. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Region.	Atzet, Thomas; White, D.E.; McCrimmon, L.A.; Martinez, P.A.; Fong, P.R. and V. D. Randall 1996
642	PVREF	<b>Plant Associations of the Oregon Dunes National Recreation Area.</b> USDA Forest Service, Pacific Northwest Region R6-NR-ECOL-TP-09-98.	Christy, John A., James S. Kaga, and Alfred M. Wiedemann. (1986)
643	PVREF	<b>Major Indicator Shrubs and Herbs on National Forests of Western Oregon and Southwestern Washington.</b> USDA Forest Service, Pacific Northwest Region R6-TM-229-1986.	Halverson, Nancy M. (1986)
644	PVREF	<b>Key Species for Plant Associations on the Rogue River, Siskiyou, and Umpqua National Forests.</b> USDA Forest Service, Pacific Northwest Region R6-NR-ECOL-TP-026-97.	Seda, Anitithomas Atzet, and David Wheeler. (1989, updated 1997)
645	PVREF	<b>Major Indicator Shrubs and Herbs on National Forests of Eastern Oregon.</b> USDA Forest Service, Pacific Northwest Region R6-TM-190-1985.	Hopkins, William, and Robert Rawlins. (1988)
646	PVREF	<b>Major Indicator Shrubs and Herbs in Riparian Zones on National Forests of Central Oregon.</b> USDA Forest Service, Pacific Northwest Region R6-ECOL-TP-005-88.	Kovalchik, Bernard L., William E. Hopkins, and Steven J. Brunsfeld. (1988)
647	PVREF	<b>Field Guide to the forested plants associations of the westside central Cascades of northwest Oregon.</b> USDA Forest Service, Pacific Northwest Region R6-NR-ECOL-TP-02-02, 2002	McCain, Cindy; Diaz, Nancy
648	PVREF	<b>Field Guide to the forested plants associations of the northern Oregon Coast Range.</b> USDA Forest Service, Pacific Northwest Region R6-NR-ECOL-TP-03-02, 2002	McCain, Cindy; Diaz, Nancy
649	PVREF	<b>Some combination of references 614, 619, and 647</b>	
650	PVREF	<b>Some combination of references 642 and 648</b>	
651	PVREF	<b>Some combination of references 608, 620, and 623</b>	
652	PVREF	<b>Forest Plant Associations of the Yakima Indian Reservation</b> 1988. (FIA ONLY)	Johm, Thomas; Tart, David; Clausnitzer, Rodrick
653	PVREF	<b>Forested Plant Associations of the Oregon East Cascades.</b> USDA Forest Service, Pacific Northwest R, July, 2007egion R6-NR-ECOL-TP-03-2007	Simpson, Michael
901	PVREF	<b>Habitat Classification System Field Guide for Upper Peninsula of Michigan and Northeastern Wisconsin.</b> CRPFS; School of Forestry and Wood Products, Michigan Technological Univ, Houghton, MI 49931.	Michael S. Coffman et. al. 1984
902	PVREF	<b>Field Guide to Ecological Classification and Inventory System of the Huron-Manistee National Forests.</b> USDA Forest Service, Michigan State University, and the North Central Experiment Station	



**NRV\_COVER\_REFERENCES (cont.)**

Code	Type	Name	Author
903	PVREF	<b>Wayne National Forest Ecological Classification Handbook.</b> USDA Forest Service, Wayne National Forest.	Jeffery N. Pearcy, David M. Hix, and James R. McClenahen
904	PVREF	<b>Field Guide to the Native Plant Communities of Minnesota: the Laurentian Mixed Forest Province.</b> Minnesota Department of Natural Resources, 2003.	
905	PVREF	<b>A Guide to Forest Communities and Habitat Types of Northern Wisconsin.</b> Department of Ecology and Management, University of Wisconsin-Madison, 2002.	Kotar, John. J.A. Kovach, and T.L. Burger
906	PVREF	<b>A Guide to Forest Communities and Habitat Types of Central and Southern Wisconsin.</b> Department of Ecology and Management, University of Wisconsin-Madison, 1996.	Kotar, John. J.A. Kovach, and T.L. Burger

**NRV\_DATUM\_CODES**

Codes for each of the geographic datum domains.

Name	Type	Description
CREATED_BY <i>Required</i>	VC(30)	The name of the person who created the record.
CREATED_DATE <i>Required</i>	DATE	The date the record was created.
DATUM <i>Required</i>	VC(10)	The geographic datum code
DESCRIPTION <i>Required</i>	VC(500)	Description of the datum code
MODIFIED_BY	VC(30)	The name of the person who modified the record.
MODIFIED_DATE	DATE	The date the record was modified.
ON_OFF	VC(3)	On/Off switch to flag particular records out of the code set

Datum	Description
NAD27	Code for North American Datum of 1927. Uses the Clarke 1866 spheroid to represent the shape of the earth.
NAD83	Code for North American Datum of 1983. Almost identical to the WGS84 datum. A geodetic reference for horizontal positions, established in 1983 and based on the GRS 80 ellipsoid.
WGS84	Code for World Geodetic System of 1984. Almost identical to the NAD83 datum. A higher precision version of the GRS 80 used by the US Defense Mapping Agency in world mapping.

## NRV\_DISTURBANCE\_AGENTS

Codes that describe pests, disease or other agents that have caused a disturbance.

Name	Type	Description
AGENT_CODE <i>Required</i>	VC(3)	Disturbance Agent code.
CATEGORY_CODE <i>Required</i>	VC(2)	Disturbance category code. This column is constrained by the codes in the NRV_Disturbance_Categories table.
COMMON_NAME <i>Required</i>	VC(100)	Common or vernacular name of the disturbance agent.
CREATED_BY <i>Required</i>	VC(30)	The name of the person who created the record.
CREATED_DATE <i>Required</i>	DATE	The date the record was created.
CREATED_IN_INSTANCE <i>Required</i>	N(6)	The database ID where the record was created.
FVS_DAMAGE_CODE	VC(2)	FVS damage code that relates to the FSVeg disturbance code
MODIFIED_BY	VC(30)	The name of the person who modified the record.
MODIFIED_DATE	DATE	The date the record was modified.
MODIFIED_IN_INSTANCE	N(6)	The database ID where the record was modified.
ON_OFF	VC(3)	Flag to display (ON) or hide (OFF) individual disturbance agents in the Interface pull-down lists.
SCIENTIFIC_NAME	VC(100)	Scientific name of the disturbance agent.

Category	Agent	Common Name	Scientific Name
00	000	NONE	
10	000	<b>General Insects</b>	
10	001	Thrips	
10	002	Tip moth	
10	003	Wasp	
10	004	Chinese rose beetle	<i>Adoretus sinicus</i>
10	005	Rose beetle	<i>Adoretus versutus</i>
10	006	Coconut hispid beetle	<i>Brontispa longissima</i>
10	007	Clerid beetle	<i>Cleridae</i>
10	008	Weevil	<i>Curculionidae</i>
10	009	Green rose chafer	<i>Dichelonyx backi</i>
10	010	Allegheny mound ant	<i>Formica exsectoides</i>
10	011	Ant	<i>Formicidae</i>
10	012	Stick insect	<i>Graeffea crovanii</i>
10	013	Hulodes cranea	<i>Hulodes cranea</i>
10	014	Conifer swift moth	<i>Korsheltellus gracilis</i>
10	015	Caroline shortnosed weevil	<i>Lophothetes spp.</i>
10	016	Coconut rhinoceros beetle	<i>Oryctes rhinoceros</i>
10	017	Bagworm moth	<i>Psychidae</i>
10	018	Coconut palm weevil	<i>Rhobdoscelus asperipennis</i>
10	019	Scarab	<i>Scarabaeidae</i>
10	020	Ash white fly	<i>Siphoninus phillyreae</i>
10	021	Unknown	<i>Steremnius carinatus</i>
10	022	Pyralid moth	<i>Thliptoceras octoquittale</i>
10	023	Wood wasps	<i>Siricidae spp.</i>

**NRV\_DISTURBANCE\_AGENTS (cont.)**

Category	Agent	Common Name	Scientific Name
11	000	<b>Bark Beetles</b>	
11	001	Roundheaded pine beetle	<i>Dendroctonus adjunctus</i>
11	002	Western pine beetle	<i>Dendroctonus brevicomis</i>
11	003	Southern pine beetle	<i>Dendroctonus frontalis</i>
11	004	Jeffery pine beetle	<i>Dendroctonus jeffreyi</i>
11	005	Lodgepole pine beetle	<i>Dendroctonus murrayanae</i>
11	006	Mountain pine beetle	<i>Dendroctonus ponderosae</i>
11	007	Douglas-fir beetle	<i>Dendroctonus pseudotsugae</i>
11	008	Allegheny spruce beetle	<i>Dendroctonus punctatus</i>
11	009	Spruce beetle	<i>Dendroctonus rufipennis</i>
11	010	Eastern larch beetle	<i>Dendroctonus simplex</i>
11	011	Black turpentine beetle	<i>Dendroctonus terebrans</i>
11	012	Red turpentine beetle	<i>Dendroctonus valens</i>
11	013	Unknown	<i>Dryocoetes affaber</i>
11	014	unknown	<i>Dryocoetes autographus</i>
11	015	Western balsam bark beetle	<i>Dryocoetes confuses</i>
11	016	unknown	<i>Dryocoetes sechelti</i>
11	017	Ash bark beetles	<i>Hylesinus spp.</i>
11	018	Native elm bark beetle	<i>Hylurgopinus rufipes</i>
11	019	Pinon ips	<i>Ips confusus</i>
11	020	Small southern pine engraver	<i>Ips avulses</i>
11	021	Sixspined ips	<i>Ips calligraphus</i>
11	022	Emarginate ips	<i>Ips emarginatus</i>
11	023	Southern pine engraver beetle	<i>Ips grandicollis</i>
11	024	unknown	<i>Ips latidens</i>
11	025	Arizona five-spined ips	<i>Ips lecontei</i>
11	026	Monterey pine ips	<i>Ips mexicanus</i>
11	027	California fivespined ips	<i>Ips paraconfusus</i>
11	028	Northern spruce engraver beetle	<i>Ips perturbatus</i>
11	029	Pine engraver	<i>Ips pini</i>
11	030	Ips engraver beetles	<i>Ips spp.</i>
11	031	unknown	<i>Ips tridens</i>
11	032	Western ash bark beetle	<i>Leperisinus californicus</i>
11	033	Oregon ash bark beetle	<i>Leperisinus oregonus</i>
11	034	unknown	<i>Orthotomicus caelatus</i>
11	035	Cedar bark beetles	<i>Phloeosinus spp.</i>
11	036	Western cedar bark beetle	<i>Phloeosinus punctatus</i>
11	037	Tip beetles	<i>Pityogenes spp.</i>
11	038	Douglas-fir twig beetle	<i>Pityophthorus pseudotsugae</i>
11	039	Twig beetles	<i>Pityophthorus spp.</i>
11	040	Foureyed spruce beetle	<i>Polygraphus rufipennis</i>
11	041	Fir root bark beetle	<i>Pseudohylesinum granulates</i>
11	042	unknown	<i>Pseudohylesinus dispar</i>
11	043	Douglas-fir pole beetle	<i>Pseudohylesinus nebulosus</i>
11	044	Silver fir beetle	<i>Pseudohylesinus sericeus</i>
11	045	Small European elm bark beetle	<i>Scolytus multistriatus</i>
11	046	Spruce engraver	<i>Scolytus piceae</i>
11	047	Hickory bark beetle	<i>Scolytus quadrispinosus</i>
11	048	True fir bark beetles	<i>Scolytus spp.</i>
11	049	Douglas-fir engraver	<i>Scolytus unispinosus</i>

**NRV\_DISTURBANCE\_AGENTS (cont.)**

Category	Agent	Common Name	Scientific Name
11	050	Fir engraver	<i>Scolytus ventralis</i>
11	051	Striped ambrosia beetle	<i>Tryachykele lineatum</i>
11	052	Sitka spruce engraver beetle	<i>Ips conncinnus</i>
11	053	Four-eyed bark beetle	<i>Polygraphus spp.</i>
11	054	Hemlock beetle	<i>Pseudohylesinus tsugae</i>
11	055	Sruce ips	<i>Ips pilifrons</i>
11	056	Mexican pine beetle	<i>Dendroctonus mexicanus</i>
<b>12</b>	<b>000</b>	<b>Defoliators</b>	
12	001	Casebearer	
12	002	Leaftier	
12	003	Looper	
12	004	Needleminer	
12	005	Sawfly	
12	006	Skeletonizer	
12	007	Larger elm leaf beetle	<i>Monocesta coryli</i>
12	008	Spanworm	
12	009	Webworm	
12	010	Pine false webworm	<i>Acantholyda erythrocephala</i>
12	011	Western blackheaded budworm	<i>Acleris gloverana</i>
12	012	Eastern blackheaded budworm	<i>Acleris variana</i>
12	013	Whitefly	<i>Aleyrodoidae</i>
12	014	Fall cankerworm	<i>Alsophila pometaria</i>
12	015	Alder flea beetle	<i>Altica ambiens</i>
12	016	Mountain mahogany looper	<i>Anacamptodes clivinaria profanata</i>
12	017	Birch leaffolder	<i>Ancylis disigerana</i>
12	018	Oak worms	<i>Anisota spp.</i>
12	019	Orange-striped oakworm	<i>Anisota senatoria</i>
12	020	Western larch sawfly	<i>Anoplonyx occidens</i>
12	021	Fruit tree leafroller	<i>Archips argyrospila</i>
12	022	Uglynest caterpillar	<i>Archips cerasivorana</i>
12	023	Boxelder defoliator	<i>Archips negundanus</i>
12	024	Oak leafroller	<i>Archips semiferana</i>
12	025	Birch sawfly	<i>Arge pectoralis</i>
12	026	Arborvitae leafminer	<i>Argyresthia thuiella</i>
12	027	Coconut scale	<i>Aspidiotus destructor</i>
12	028	Texas leafcutting ant	<i>Atta texana</i>
12	029	Oak skeletonizer	<i>Bucculatrix ainsliella</i>
12	030	Pear sawfly	<i>Caliroa cerasi</i>
12	031	Scarlet oak sawfly	<i>Caliroa quercuscoccineae</i>
12	032	Elm calligrapha	<i>Calligrapha scalaris</i>
12	033	Boxelder leafroller	<i>Caloptilia negundella</i>
12	034	Maple petiole borer	<i>Caulocampus acericaulis</i>
12	035	Spruce webspinning sawfly	<i>Cephalcia fascipennis</i>
12	036	Two-year budworm	<i>Choristoneura biennis</i>
12	037	Large aspen tortrix	<i>Choristoneura conflictana</i>
12	038	Spruce budworm	<i>Choristoneura fumiferana</i>
12	039	Sugar pine tortrix	<i>Choristoneura lambertiana</i>
12	040	Western spruce budworm	<i>Choristoneura occidentalis</i>
12	041	Jack pine budworm	<i>Choristoneura pinus</i>
12	042	Modoc budworm	<i>Choristoneura retiniana</i>

**NRV\_DISTURBANCE\_AGENTS (cont.)**

Category	Agent	Common Name	Scientific Name
12	043	Aspen leaf beetle	<i>Chrysomela crotchi</i>
12	044	Cottonwood leaf beetle	<i>Chrysomela scripta</i>
12	045	Leafhopper	<i>Cicadellidae</i>
12	046	Poplar tentmaker	<i>Clostera inclusa</i>
12	047	Larch casebearer	<i>Coleophora laricella</i>
12	048	Birch casebearer	<i>Coleophora serratella</i>
12	049	Lodgepole needleminer	<i>Coleotechnites milleri</i>
12	050	Ponderosa needleminer	<i>Coleotechnites spp.</i>
12	051	Black Hills pandora moth	<i>Coloradia doris</i>
12	052	Pandora moth	<i>Coloradia pandora</i>
12	053	Sycamore lace bug	<i>Corythucha ciliata</i>
12	054	Lace bugs	<i>Corythucha spp.</i>
12	055	Oak leaftier	<i>Croesia semipurpurana</i>
12	056	Dusky birch sawfly	<i>Croesus latitarsus</i>
12	057	Walnut caterpillar	<i>Datana integerrima</i>
12	058	Yellownecked caterpillar	<i>Datana ministra</i>
12	059	Walkingstick	<i>Diaperomera femorata</i>
12	060	Spruce coneworm	<i>Dioryctria reniculelloides</i>
12	061	Introduced pine sawfly	<i>Diprion similis</i>
12	062	Greenstriped mapleworm	<i>Dryocampa rubicunda</i>
12	063	Spruce needleminer (east)	<i>Endothenia albolineana</i>
12	064	Elm spanworm	<i>Ennomos subsignaris</i>
12	065	Maple trumpet skeletonizer	<i>Epinotia aceriella</i>
12	066	White fir needleminer	<i>Epinotia meritana</i>
12	067	Linden looper	<i>Erannis tiliaria</i>
12	068	Browntail moth	<i>Euproctis chrysorrhoea</i>
12	069	Pine needleminer	<i>Exoteleia pinifoliella</i>
12	070	Birch leafminer	<i>Fenusa pusilla</i>
12	071	Elm leafminer	<i>Fenusa ulmi</i>
12	072	Geometrid moth	<i>Geometridae</i>
12	073	Leafblotch miner	<i>Gracillariidae</i>
12	074	Spotted tussock moth	<i>Halisidota maculata</i>
12	075	Pale tussock moth	<i>Halisidota tessellaris</i>
12	076	Hesperiid moth	<i>Hasora choromus</i>
12	077	Brown day moth	<i>Hemileuca eglanterina</i>
12	078	Buck moth	<i>Hemileuca maia</i>
12	079	Saddled prominent	<i>Heterocampa guttivitta</i>
12	080	Variable oakleaf caterpillar	<i>Heterocampa manteo</i>
12	081	Cherry scallop shell moth	<i>Hydria prunivorata</i>
12	082	Fall webworm	<i>Hyphantria cunea</i>
12	083	Hemlock looper	<i>Lambdina fiscellaria</i>
12	084	unknown	<i>Lambdina punctat</i>
12	085	Tent caterpillar moth	<i>Lasiocampidae</i>
12	086	Satin moth	<i>Leucoma salicis</i>
12	087	Willow leafblotch miner	<i>Lithocolletis spp.</i>
12	088	Aspen blotchminer	<i>Lithocolletis tremuloidiella</i>
12	089	Gypsy moth	<i>Lymantria dispar</i>
12	090	Cottonwood leafminers	<i>Lyonetia spp.</i>
12	091	Dogwood sawfly	<i>Macremphytus tarsatus</i>
12	092	Rose chafer	<i>Macroductylus subspinosus</i>

**NRV\_DISTURBANCE\_AGENTS (cont.)**

Category	Agent	Common Name	Scientific Name
12	093	Eastern tent caterpillar	<i>Malacosoma americanum</i>
12	094	Western tent caterpillar	<i>Malacosoma californicum</i>
12	095	Pacific tent caterpillar	<i>Malacosoma constrictum</i>
12	096	Forest tent caterpillar	<i>Malacosoma disstria</i>
12	097	Southwestern tent caterpillar	<i>Malacosoma incurvum</i>
12	098	Leafcutting bees	<i>Megachilidae</i>
12	099	Blister beetle	<i>Meloidae</i>
12	100	Early birch leaf edgeminer	<i>Messa nana</i>
12	101	Juniper sawfly	<i>Monoctenus fulvus</i>
12	102	Willow sawfly	<i>Nematus spp.</i>
12	103	Balsam fir sawfly	<i>Neodiprion abietis</i>
12	104	Lodgepole sawfly	<i>Neodiprion burkei</i>
12	105	Blackheaded pine sawfly	<i>Neodiprion excitans</i>
12	106	Pine infesting sawflies	<i>Neodiprion fulviceps</i>
12	107	Redheaded pine sawfly	<i>Neodiprion lecontei</i>
12	109	Ponderosa pine sawfly	<i>Neodiprion mundus</i>
12	110	White pine sawfly	<i>Neodiprion pinetum</i>
12	111	Jack pine sawfly	<i>Neodiprion pratti banksianae</i>
12	112	Virginia pine sawfly	<i>Neodiprion pratti pratti</i>
12	113	European pine sawfly	<i>Neodiprion sertifer</i>
12	114	Loblolly pine sawfly	<i>Neodiprion taedae linearis</i>
12	115	Hemlock sawfly	<i>Neodiprion tsugae</i>
12	116	Pine butterfly	<i>Neophasia menapia</i>
12	117	False hemlock looper	<i>Nepytia canosaria</i>
12	118	California tortoiseshell	<i>Nymphalis californica</i>
12	119	Locust leafminer	<i>Odontota dorsalis</i>
12	120	Bruce spanworm	<i>Operophtera bruceata</i>
12	121	Rusty tussock moth	<i>Orgyia antiqua</i>
12	122	Whitemarked tussock moth	<i>Orgyia leucostigma</i>
12	123	Douglas-fir tussock moth	<i>Orgyia pseudotsugata</i>
12	124	Western tussock moth	<i>Orgyia vetusta</i>
12	125	Spring cankerworm	<i>Paleacrita vernata</i>
12	126	Black citrus swallowtail butterfly	<i>Papilio polytes</i>
12	127	Maple leafcutter	<i>Paraclemensia acerifoliella</i>
12	128	Pine tussock moth	<i>Parorgyia grisefacta</i>
12	129	Poinciana looper	<i>Pericyma cruegeri</i>
12	130	Half-wing geometer	<i>Phigalia titea</i>
12	131	Phoberia moth	<i>Phoberia atomaris</i>
12	132	California oakworm	<i>Phryganidia californica</i>
12	133	European snout beetle	<i>Phyllobius oblongus</i>
12	134	Citrus leafminer	<i>Phyllocnistis citrella</i>
12	135	Aspen leafminer	<i>Phyllocnistis populiella</i>
12	136	Yellowheaded spruce sawfly	<i>Pikonema alaskensis</i>
12	137	Tenlined June beetle	<i>Polyphylla decemlineata</i>
12	138	Japanese beetle	<i>Popillia japonica</i>
12	139	Larch sawfly	<i>Pristiphora erichsonii</i>
12	140	Mountain-ash sawfly	<i>Pristiphora geniculata</i>
12	141	Elm leaf beetle	<i>Pyrrhalta luteola</i>
12	142	Spearmarked black moth	<i>Rheumaptera hastata</i>
12	143	Giant silkworm moth	<i>Saturniidae</i>

**NRV\_DISTURBANCE\_AGENTS (cont.)**

<b>Category</b>	<b>Agent</b>	<b>Common Name</b>	<b>Scientific Name</b>
12	144	Redhumped caterpillar	<i>Schizura concinna</i>
12	145	Redbanded thrips	<i>Selenothrips rubrocinctus</i>
12	146	Larch looper	<i>Semiothisa sexmaculata</i>
12	147	Maple leafroller	<i>Sparganothis acerivorana</i>
12	148	Redhumped oakworm	<i>Symmerista canicosta</i>
12	149	Orangehumped mapleworm	<i>Symmerista leucitys</i>
12	150	Spruce needleminer (west)	<i>Taniva albolineana</i>
12	151	Maple webworm	<i>Tetralopha asperatella</i>
12	152	Pine webworm	<i>Tetralopha robustella</i>
12	153	Imported basswood thrips	<i>Thrips calcaratus</i>
12	154	Bagworm	<i>Thyridopteryx ephemeraeformis</i>
12	155	Leafroller/seed moth	<i>Tortricidae</i>
12	156	Willow defoliation	<i>Tortricidae</i>
12	157	Euonymus caterpillar	<i>Yponomeuta spp.</i>
12	158	Spruce bud moth	<i>Zeiraphera canadensis</i>
12	159	Larch bud moth	<i>Zeiraphera improbana</i>
12	160	Pine needle sheathminer	<i>Zelleria haimbachi</i>
12	161	Cypress looper	<i>Anacamptodes pergracilis</i>
12	162	Cottonwood leaf beetle	<i>Chrysomela spp.</i>
12	163	Pine colaspis	<i>Colaspis pini</i>
12	164	Saddle-backed looper	<i>Ectropis crepuscularia</i>
12	165	Leaf roller	<i>Epinotia solandriana</i>
12	166	New Mexico fir looper	<i>Gelenara cansimillis</i>
12	167	Striped alder sawfly	<i>Hemichroa crocea</i>
12	168	Green-striped looper	<i>Melanoplophia imitata</i>
12	169	Willow leaf blotchminer	<i>Micrurapteryx salicifoliella</i>
12	170	unknown	<i>Neodiprion autmnalis</i>
12	171	Pinon sawfly	<i>Neodiprion edulicolus</i>
12	172	unknown	<i>Neodiprion gilletti</i>
12	173	unknown	<i>Neodiprion ventralis</i>
12	174	Pine looper	<i>Phaeoura mexicanaria</i>
12	175	unknown	<i>Zadiprion rohweri</i>
12	176	unknown	<i>Zadiprion townsendi</i>
12	177	Douglas-fir budmoth	<i>Zeiraphera hesperiana</i>
12	178	Western oak looper	<i>Lambdina fiscellaria somniaria</i>
12	179	Phantom hemlock looper	<i>Nepytia phantasmaria</i>
12	180	Tent caterpillar	<i>Malacosoma spp.</i>
12	181	Abbot's sawfly	<i>Neodiprion abbotii</i>
12	182	Slash pine sawfly	<i>Neodiprion merkel1</i>
12	183	Sand pine sawfly	<i>Neodiprion pratti</i>
12	184	Melalueca leaf weevil	<i>Oxyops vitiosa</i>
12	185	Cypress leaf beetle	<i>Systema marginalis</i>
12	186	Unknown	<i>Nepytia janetae</i>
12	187	Agromyzid fly	<i>Agromyza viridula</i>
12	188	Elm sawfly	<i>Cimbex americana</i>
12	189	June beetle	<i>Phyllophaga spp.</i>
12	190	Hickory tussock moth	<i>Halisidota caryae</i>
12	191	Pin oak sawfly	<i>Caliroa lineata</i>
12	192	Palmerworm	<i>Dichomeris ligulella</i>
12	193	Pitch pine looper	<i>Lambdina athasaria pellucidaria</i>

**NRV\_DISTURBANCE\_AGENTS (cont.)**

Category	Agent	Common Name	Scientific Name
12	194	Red pine sawfly	<i>Neodiprion nanulus nanulus</i>
12	195	Pine tip moth	<i>Argyrotaenia pinatubana</i>
12	196	Baldcypress leafroller	<i>Archips goyerana</i>
12	197	Winter moth	<i>Operophtera brumata</i>
12	198	Basswood thrips	<i>Neohydatothrips tiliae</i>
12	199	Noctuid moth	<i>xylomyges simplex (walker)</i>
12	200	Pyralid moth	<i>Palpita magniferalis</i>
12	201	Pacific silver fir budmoth	<i>Zeiraphera sp. Destitutana</i>
<b>13</b>	<b>000</b>	<b>Chewing Insects</b>	
13	001	Grasshopper	
13	002	Shorthorn grasshoppers	<i>Acrididae</i>
13	003	Black cutworm	<i>Agrotis ipsilon</i>
13	004	Palau coconut beetle	<i>Brontispa palauensis</i>
13	005	Clearwinged grasshopper	<i>Camnula pellucid</i>
13	006	Cicadas	<i>Cicadidae</i>
13	007	Eurytomids	<i>Eurytoma spp.</i>
13	008	Cutworms	<i>Euxoa excellens</i>
13	009	Whitefringed beetles	<i>Graphognathus spp.</i>
13	010	Pales weevil	<i>Hylobius pales</i>
13	011	Vegetable weevil	<i>Listroderes difficilis</i>
13	012	Periodical cicada	<i>Magicicada septendecim</i>
13	013	Migratory grasshopper	<i>Melanoplus sanguinipes</i>
13	014	Valley grasshopper	<i>Oedaleonotus enigma</i>
13	015	Strawberry root weevil	<i>Otioryhchus ovatus</i>
13	016	Black vine weevil	<i>Otioryhynchus sulcatus</i>
13	017	Pandanus beetle	<i>Oxycephala pandani</i>
13	018	Spaeth pandanus	<i>Oxycephala spaethi</i>
13	019	Agamemnon butterfly	<i>Papilio agememnon</i>
13	020	Northern pitch twig moth	<i>Petrova albicapitana</i>
13	021	Ponderosa pine tip moth	<i>Rhyacionia zozana</i>
13	022	Pine needle weevil	<i>Scythropus spp.</i>
13	023	Coconut longhorned grasshopper	<i>Segestes unicolor</i>
13	024	Clover root curculio	<i>Sitona hispidulus</i>
13	025	Unknown	<i>Thrips madronii</i>
13	026	Ash plant bug	<i>Tropidosteptes amoenus</i>
13	027	Shorthorned grasshopper	<i>Valanga nigricornis</i>
13	028	Pitch-eating weevil	<i>Pachylobius picivorus</i>
13	029	Deodar weevil	<i>Pissodes nemorensis</i>
13	030	Adana tip moth	<i>Rhyacionia adana</i>
<b>14</b>	<b>000</b>	<b>Sucking Insects</b>	
14	001	Scale insect	
14	002	Western larch woolly aphid	<i>Adelges oregonensis</i>
14	003	Balsam woolly adelgid	<i>Adelges piceae</i>
14	004	Hemlock woolly adelgid	<i>Adelges tsugae</i>
14	005	Spiraling whitefly	<i>Aleurodicus dispersus</i>
14	006	Aphid	<i>Aphididae</i>
14	007	Pine spittlebug	<i>Aphrophora parallela</i>
14	008	Western pine spittlebug	<i>Aphrophora permutata</i>
14	009	Saratoga spittlebug	<i>Aphrophora saratogensis</i>



**NRV\_DISTURBANCE\_AGENTS (cont.)**

<b>Category</b>	<b>Agent</b>	<b>Common Name</b>	<b>Scientific Name</b>
14	010	Spittlebug	<i>Cercopidae</i>
14	011	Wax scale	<i>Ceroplastes spp.</i>
14	012	Pine needle scale	<i>Chionaspis pinifoliae</i>
14	014	Giant conifer aphids	<i>Cinara spp.</i>
14	015	White pine aphid	<i>Cinara strobi</i>
14	016	Beech scale	<i>Cryptococcus fagisuga</i>
14	017	Spruce aphid	<i>Elatobium abietinum</i>
14	018	Woolly apple aphid	<i>Eriosoma lanigerum</i>
14	019	Striped mealybug	<i>Ferrisia vergata</i>
14	020	Elongate hemlock scale	<i>Fiorinia externa</i>
14	021	Coconut red scale	<i>Furcaspis oceanica</i>
14	022	Pine thrips	<i>Gnophothrips spp.</i>
14	023	Leucaena psyllid	<i>Heteropsylla cubana</i>
14	024	Honeysuckle aphids	<i>Hyadaphis tataricae</i>
14	025	Egyptian fluted scale	<i>Icerya aegyptiaca</i>
14	026	Lecanium scale	<i>Lecanium spp.</i>
14	027	Common falsepit scale	<i>Lecanodiaspis prosopidis</i>
14	028	Oystershell scale	<i>Lepidosaphes ulmi</i>
14	029	Pinyon needle scale	<i>Matsucoccus acalyptus</i>
14	030	Ponderosa pine twig scale	<i>Matsucoccus bisetosus</i>
14	031	Pine twig scale	<i>Matsucoccus californicus</i>
14	032	Ponderosa pine scale	<i>Matsucoccus degeneratus</i>
14	033	Red pine scale	<i>Matsucoccus resinosae</i>
14	034	Prescott scale	<i>Matsucoccus vexillorum</i>
14	035	Treehoopers	<i>Membracidae</i>
14	036	Hibiscus psyllid	<i>Mesohomotoma hibisci</i>
14	037	Balsam twig aphid	<i>Mindarus abietinus</i>
14	038	Hibiscus mealybug	<i>Nipaecoccus vastator</i>
14	039	Black pineleaf scale	<i>Nuculaspis californica</i>
14	040	Spruce spider mite	<i>Oligonychus ununquus</i>
14	041	Twig girdler	<i>Oncideres cingulata</i>
14	042	Woolly alder aphid	<i>Paraprociophilus tessellatus</i>
14	043	Maple aphids	<i>Periphyllus spp.</i>
14	044	Spruce bud scale	<i>Physokermes piceae</i>
14	045	Red pine adelgid	<i>Pineus borneri</i>
14	046	Pine leaf adelgid	<i>Pineus pinifoliae</i>
14	047	White pine adelgid	<i>Pineus spp.</i>
14	048	Pine bark adelgid	<i>Pineus strobi</i>
14	049	Root aphid	<i>Prociphilus americanus</i>
14	050	Mealybug	<i>Pseudococcidae</i>
14	051	Cottony maple scale	<i>Pulvinaria innumerabilis</i>
14	052	Fir mealybug	<i>Puto cupressi</i>
14	053	Douglas-fir mealybug	<i>Puto profusus</i>
14	054	Spruce mealybug	<i>Puto sandini</i>
14	055	Hemispherical scale	<i>Saissetia coffeae</i>
14	056	Woolly pine needle aphid	<i>Schizolachnus piniradiatae</i>
14	057	Steatococcus scale	<i>Steatococcus samaraius</i>
14	058	Pear thrips	<i>Taeniothrips inconsequens</i>
14	059	Mulberry whitefly	<i>Tetraleurodes mori</i>
14	060	Tuliptree scale	<i>Toumeyella liriodendri</i>

**NRV\_DISTURBANCE\_AGENTS (cont.)**

Category	Agent	Common Name	Scientific Name
14	061	Pine tortoise scale	<i>Toumeyella parvicornis</i>
14	062	Citrus snow scale	<i>Unaspis citri</i>
14	063	Birch aphid	<i>Euceraphis betulae</i>
14	064	Kermes scale	<i>Allokermes spp.</i>
14	065	Casuarina spittlebug	<i>Clasoptera undulata</i>
14	066	Giant bark aphid	<i>Longistigma caryae</i>
14	067	Woolly pine scale	<i>Pseudophilippia quaintancii</i>
14	068	European elm scale	<i>Gossyparia spuria</i>
14	069	Elm scurfy scale	<i>Chionaspis americana</i>
14	070	Magnolia scale	<i>Neolecanium cornuparvum</i>
14	071	Beech blight aphid	<i>Grylloprociphilus imbricator</i>
14	072	Beech woolly aphid	<i>Phyllaphis fagi</i>
<b>15</b>	<b>000</b>	<b>Boring Insects</b>	
15	001	Shoot borer	
15	002	Termite	
15	003	Ponderosa pine bark borer	<i>Acanthocinus princeps</i>
15	004	Bronze birch borer	<i>Agrilus anxius</i>
15	005	Twolined chestnut borers	<i>Agrilus bilineatus</i>
15	006	Bronze poplar borer	<i>Agrilus liragus</i>
15	007	Carpenter bees	<i>Apidae</i>
15	008	Flatheaded borer	<i>Buprestidae</i>
15	009	Golden buprestid	<i>Buprestis aurulenta</i>
15	010	Carpenter ants	<i>Camponotus spp.</i>
15	011	Gouty pitch midge	<i>Cecidomyia piniinopis</i>
15	012	Shootboring sawflies	<i>Cephidae</i>
15	013	Roundheaded borer	<i>Cerambycidae</i>
15	014	Flatheaded apple tree borer	<i>Chrysobothris femorata</i>
15	015	Cranberry girdler	<i>Chrysoteuchia topiaria</i>
15	016	Columbian timber beetle	<i>Corthylus columbianus</i>
15	017	Pitted ambrosia beetle	<i>Corthylus punctatissimus</i>
15	018	Carpenterworm moths	<i>Cossidae</i>
15	019	Poplar and willow borer	<i>Cryptorhynchus lapathi</i>
15	020	Pine reproduction weevil	<i>Cylindrocopturus eatoni</i>
15	021	Douglas-fir twig weevil	<i>Cylindrocopturus furnissi</i>
15	022	Zimmerman pine moth	<i>Dioryctria zimmermani</i>
15	023	Oak twig pruners	<i>Elaphidionoides spp.</i>
15	024	Twig pruner	<i>Elaphidionoides villosus</i>
15	025	Lesser cornstalk borer	<i>Elasmopalpus lignosellus</i>
15	026	Red oak borer	<i>Enaphalodes rufulus</i>
15	027	Ponderous borer	<i>Ergates spiculatus</i>
15	028	Eastern pine shoot borer	<i>Eucosma gloriola</i>
15	029	Western pine shoot borer	<i>Eucosma sonomana</i>
15	030	Eucosma species	<i>Eucosma spp.</i>
15	031	Sugar maple borer	<i>Glycobius speciosus</i>
15	032	Goes borers	<i>Goes spp.</i>
15	033	Pine root collar weevil	<i>Hylobius radialis</i>
15	034	Warren's collar weevil	<i>Hylobius warreni</i>
15	035	Powderpost beetle	<i>Lyctidae</i>
15	036	Tarnished plant bug	<i>Lygus lineolaris</i>
15	037	unknown	<i>Magdalis spp.</i>

**NRV\_DISTURBANCE\_AGENTS (cont.)**

Category	Agent	Common Name	Scientific Name
15	038	White pine bark miner	<i>Marmara fasciella</i>
15	039	Locust borer	<i>Megacyllene robiniae</i>
15	040	California flathead borer	<i>Melanophila californica</i>
15	041	Flatheaded fir borer	<i>Melanophila drummondi</i>
15	042	Whitespotted sawyer	<i>Monochamus scutellatus</i>
15	043	Redheaded ash borer	<i>Neoclytus acuminatus</i>
15	044	Western ash borer	<i>Neoclytus conjunctus</i>
15	045	Oberea shoot borers	<i>Oberea spp.</i>
15	046	Eucalyptus longhorned borer	<i>Phoracantha semipunctata</i>
15	047	Northern pine weevil	<i>Pissodes approximatus</i>
15	048	unknown	<i>Pissodes dubius</i>
15	049	Monterey pine weevil	<i>Pissodes radiatae</i>
15	050	White pine weevil	<i>Pissodes strobi</i>
15	051	Lodgepole terminal weevil	<i>Pissodes terminalis</i>
15	052	Ambrosia beetles	<i>Platypus spp.</i>
15	053	Cottonwood borer	<i>Plectrodera scalator</i>
15	054	Balsam shootboring sawfly	<i>Pleroneura brunneicornis</i>
15	055	Pine gall weevil	<i>Podapion gallicola</i>
15	056	Ash borer	<i>Podesesia syringae fraxini</i>
15	057	Lilac borer	<i>Podesesia syringae</i>
15	058	Carpenterworm	<i>Prionoxystus robiniae</i>
15	059	Maple shoot borers	<i>Proterteras spp.</i>
15	060	Western subterranean termite	<i>Reticulitermes hesperus</i>
15	061	Coconut trunk weevil	<i>Rhabdoscelus asperipennis</i>
15	062	New Guinea sugarcane weevil	<i>Rhabdoscelus obscurus</i>
15	063	European pine shoot moth	<i>Rhyacionia buoliana</i>
15	064	Western pine tip moth	<i>Rhyacionia bushnelli</i>
15	065	Nantucket pine tip moth	<i>Rhyacionia frustrana</i>
15	066	Lodgepole pine tip moth	<i>Rhyacionia montana</i>
15	067	Southwestern pine tip moth	<i>Rhyacionia neomexicana</i>
15	068	Poplar borer	<i>Saperda calcarata</i>
15	069	Roundheaded appletree borer	<i>Saperda candida</i>
15	070	Saperda shoot borer	<i>Saperda spp.</i>
15	071	Clearwing moths	<i>Sesiidae</i>
15	072	Dogwood borer	<i>Synanthedon scitula</i>
15	073	Roundheaded fir borer	<i>Tetropium abietis</i>
15	074	Western larch borer	<i>Tetropium velutinum</i>
15	075	Western cedar borer	<i>Trachykele blondeli</i>
15	076	Douglas-fir pitch moth	<i>Vespamima novaroensis</i>
15	077	Sequoia pitch moth	<i>Vespamima sequoia</i>
15	078	Black twig borer	<i>Xylosandrus compactus</i>
15	079	Pacific dampwood termite	<i>Zootermopsis angusticollis</i>
15	080	Subtropical pine tip moth	<i>Rhyacionia subtropica</i>
15	081	Asian ambrosia beetle	<i>Xylosandrus crassiusculus</i>
15	082	Asian longhorned beetle	<i>Anoplophora glabripennis</i>
15	083	Cottonwood twig borer	<i>Gypsonoma haimbachiana</i>
15	084	Southern pine sawyer	<i>Monochamus titillator</i>
15	085	Banded ash borer	<i>Neoclytus capraea</i>
15	086	Sitka spruce weevil	<i>Pissodes sitchensis</i>
15	087	Emerald ash borer	<i>Agilus planipennis</i>

**NRV\_DISTURBANCE\_AGENTS (cont.)**

Category	Agent	Common Name	Scientific Name
15	088	Hemlock borer	<i>Melanophila fulvoguttata</i>
<b>16</b>	<b>000</b>	<b>Seed/Cone/Flower/Fruit Insects</b>	
16	001	Douglas-fir cone moth	<i>Barbara colfaxiana</i>
16	002	Lodgepole cone beetle	<i>Conophthorus contortae</i>
16	003	Limber pine cone beetle	<i>Conophthorus flexilis</i>
16	004	Mountain pine cone beetle	<i>Conophthorus monticolae</i>
16	005	Ponderosa pine cone beetle	<i>Conophthorus ponderosae</i>
16	006	Monterey pine cone beetle	<i>Conophthorus radiatae</i>
16	007	Red pine cone beetle	<i>Conophthorus resinosa</i>
16	008	White pine cone beetle	<i>Conophthorus coniperda</i>
16	009	Black walnut curculio	<i>Conotrachelus retentus</i>
16	010	Douglas-fir cone midge	<i>Contarinia oregonensis</i>
16	011	Cone scale midge	<i>Contarinia washingtonensis</i>
16	012	Pecan	<i>Curculio spp.</i>
16	013	Caroline fruitfly	<i>Dacus frauenfeldi</i>
16	014	Spruce bud midge	<i>Dasineura swaini</i>
16	015	Fir coneworm	<i>Dioryctria abietivorella</i>
16	016	Southern pine cone worm	<i>Dioryctria amatella</i>
16	017	Pine coneworm	<i>Dioryctria auranticella</i>
16	018	Loblolly pine cone worm	<i>Dioryctria merkei</i>
16	019	Ponderosa twig moth	<i>Dioryctria ponderosae</i>
16	020	unknown	<i>Dioryctria pseudotsugella</i>
16	021	Dioryctria moths	<i>Dioryctria spp.</i>
16	022	Lodgepole cone moth	<i>Eucosma rescissoriana</i>
16	023	Seed chalcid	<i>Eurytomidae</i>
16	024	Slash pine flower thrips	<i>Gnophothrips fuscus</i>
16	025	Cone maggot	<i>Hylemya anthracina</i>
16	026	Longleaf pine seed worm/moth	<i>Laspeyresia ingens</i>
16	027	Ponderosa pine seed worm/moth	<i>Laspeyresia piperana</i>
16	028	Spruce seed moth	<i>Laspeyresia youngana</i>
16	029	Boxelder bug	<i>Leptocoris trivittatus</i>
16	030	Leaffooted pine seed bug	<i>Leptoglossus corculus</i>
16	031	Western conifer seed bug	<i>Leptoglossus occidentalis</i>
16	032	Hollyhock thrips	<i>Liothrips varicornis</i>
16	033	unknown	<i>Magastigmus lasiocarpae</i>
16	034	Spruce seed chalcid	<i>Magastigmus piceae</i>
16	035	Ponderosa pine seed chalcid	<i>Megastigmus albifrons</i>
16	036	Fir seed chalcid	<i>Megastigmus pinus</i>
16	037	Douglas-fir seed chalcid	<i>Megastigmus spermotrophs</i>
16	038	Yellow poplar weevil	<i>Odontopus calceatus</i>
16	039	Fruitpiercing moth	<i>Othreis fullonia</i>
16	040	Roundheaded cone borer	<i>Paratimia conicola</i>
16	041	Mango shoot caterpillar	<i>Penicillaria jocosatrix</i>
16	042	Coneworm	<i>Phycitidae</i>
16	043	Harvester ants	<i>Pogonomyrmex spp.</i>
16	044	Citrus flower moth	<i>Prays citri</i>
16	045	Fir cone maggot	<i>Strobilomyia abietis</i>
16	046	Spruce cone maggot	<i>Strobilomyia anthracina</i>
16	047	Shieldbacked pine seed bug	<i>Tetyra bipunctata</i>
16	048	Coneworm	<i>Hylemia spp.</i>

**NRV\_DISTURBANCE\_AGENTS (cont.)**

Category	Agent	Common Name	Scientific Name
16	049	Prairie tent caterpillar	<i>Malacosoma lutescens</i>
16	050	Jack pine tip beetle	<i>Conophthorus banksianae</i>
<b>17</b>	<b>000</b>	<b>Gallmaker Insects</b>	
17	001	Birch budgall mite	<i>Aceria rudis</i>
17	002	Eastern spruce gall adelgid	<i>Adelges abietis</i>
17	003	Cooley spruce gall adelgid	<i>Adelges cooleyi</i>
17	004	Horned oak gall	<i>Callirhytis cornigera</i>
17	005	Gouty oak gall	<i>Callirhytis quercuspunctata</i>
17	006	Gall midge	<i>Cecidomyiidae</i>
17	007	Douglas-fir needle gall midge	<i>Contarinia pseudotsugae</i>
17	008	Gall mite	<i>Eriophyidae</i>
17	009	Spruce gall midge	<i>Mayetiola piceae</i>
17	010	Hackberry nipplegall maker	<i>Pachypsylla celtidismamma</i>
17	011	Balsam gall midge	<i>Paradiplosis tumifex</i>
17	012	Leaf stem gall adelgid	<i>Phylloxera caryaecaulis</i>
17	013	Gall aphid	<i>Phylloxeridae</i>
17	014	Alder gall mite	<i>Phytoptus laevis</i>
17	015	Psyllid	<i>Psyllidae</i>
17	016	Sugarberry psyllid	<i>Tetragonocephela flava</i>
17	017	Mountain apple psyllid	<i>Trioza vitiensis</i>
17	018	Gouty pitch midge	<i>Cecidomyia piniinopsis</i>
17	019	Spider mites	<i>Oligonychus spp.</i>
17	020	Cypress gall midges	<i>Taxodiomyia spp.</i>
17	021	Jumping oak gall wasp	<i>Neuroterus saltatorius</i>
<b>18</b>	<b>000</b>	<b>Insect Predators</b>	
18	001	Lacewing	
18	002	Blackbellied clerid	<i>Enoclerus lecontei</i>
18	003	Redbellied clerid	<i>Enoclerus sphegeus</i>
18	004	unknown	<i>Formica rufa</i>
18	005	Western yellowjacket	<i>Vespula pennsylvanica</i>
<b>19</b>	<b>000</b>	<b>General Diseases</b>	
<b>20</b>	<b>000</b>	<b>Biotic Damage</b>	
20	001	Damping off	
20	002	Gray mold	<i>Botrytis cinerea</i>
20	003	Cassytha	<i>Cassytha filiformis</i>
20	004	Hemlock fluting	
<b>21</b>	<b>000</b>	<b>Root/Butt Diseases</b>	
21	001	Armillaria root disease	<i>Armillaria spp.</i>
21	002	Yellow stringy rot	<i>Corticium galactimum</i>
21	003	Cylindrocladium root disease	<i>Cylindrocladium spp.</i>
21	004	Brown crumbly rot	<i>Fomitopsis pinicola</i>
21	005	Black root rot of pine	<i>Fusarium oxysporum</i>
21	006	Fusarium root rot	<i>Fusarium spp.</i>
21	007	White mottled rot	<i>Ganoderma applanatum</i>
21	008	Ganoderma rot of hardwoods	<i>Ganoderma lucidum</i>
21	009	Ganoderma rot of conifers	<i>Ganoderma tsugae</i>
21	010	Annosus root disease	<i>Heterobasidion annosum</i>
21	011	Circinatus root rot	<i>Inonotus circinatus</i>
21	012	Tomentosus root disease	<i>Inonotus tomentosus</i>
21	013	Charcoal root rot	<i>Macrophomina phaseolina</i>

**NRV\_DISTURBANCE\_AGENTS (cont.)**

Category	Agent	Common Name	Scientific Name
21	014	Black stain root disease	<i>Ophiostoma wagneri</i>
21	015	Schweinitzii butt rot	<i>Phaeolus schweinitzii</i>
21	016	Flame tree root disease	<i>Phellinus noxious</i>
21	017	Laminated root rot	<i>Phellinus weirii</i>
21	018	Phytophthora root rot	<i>Phytophthora cinnamomi</i>
21	019	Littleleaf disease	<i>Phytophthora cinnamomi</i> / <i>Pythium</i>
21	020	Port-Orford-Cedar root disease	<i>Phytophthora lateralis</i>
21	022	Pythium root rot	<i>Pythium spp.</i>
21	023	Procera root disease of conifers	<i>Verticicladiella procera</i>
21	024	Crown gall	<i>Agrobacterium tumefaciens</i>
21	025	Borealis conk	<i>Climacocystis borealis</i>
21	026	Yellow pitted rot	<i>Hericium abietis</i>
21	027	Brown cubical rot	<i>Laetiporus sulphureus</i>
21	028	Sudden oak death	<i>Phytophthora ramorum</i>
<b>22</b>	<b>000</b>	<b>Stem Decays/Cankers</b>	
22	001	Heart rot	
22	002	Stem rot	
22	003	Sap rot	
22	004	Slime flux	
22	005	Virus	
22	006	Black knot of cherry	<i>Apiosporina morbosa</i>
22	007	Atropellis canker	<i>Atropellis piniphila</i>
22	008	Siberian elm canker	<i>Botryodiplodia hypodermia</i>
22	009	Botryosphaeria canker	<i>Botryosphaeria ribis</i>
22	010	Black rot fungus	<i>Botryosphaeria stevensii</i>
22	011	Caliciopsis canker	<i>Caliciopsis pinea</i>
22	012	Black canker of aspen	<i>Ceratocystis fimbriata</i>
22	013	Sycamore canker stain	<i>Ceratocystis fimbriata f.sp. platani</i>
22	023	Chestnut blight	<i>Cryphonectria parasitica</i>
22	024	Gray-brown saprot	<i>Cryptoporus volvatus</i>
22	025	Cryptosphaeria canker of aspen	<i>Cryptosphaeria populina</i>
22	026	Cytospora canker of fir	<i>Cytospora abietis</i>
22	027	Western red rot	<i>Dichomitus squalens</i>
22	028	Rust-red stringy rot	<i>Echinodontium tinctorium</i>
22	029	Sooty-bark canker	<i>Encoelia pruinosa</i>
22	030	Eutypella canker	<i>Eutypella parasitica</i>
22	031	Fusarium cortical stem rot	<i>Fusarium avenaceum</i>
22	032	Pitch canker	<i>Fusarium subglutinans</i>
22	033	Fusicoccum canker	<i>Fusicoccum spp.</i>
22	034	Scleroderris canke	<i>Gremmeniella abietina</i>
22	035	Amelanchier rust	<i>Gymnosporangium harknessianum</i>
22	036	Cedar apple rust	<i>Gymnosporangium juniperi-virginianae</i>
22	037	Hypoxylon canker of oak	<i>Hypoxylon atopunctatum</i>
22	038	Hypoxylon canker of aspen	<i>Hypoxylon mammatum</i>
22	039	Canker rot of oak	<i>Inonotus hispidus</i>
22	040	Sterile conk trunk rot of birch	<i>Inonotus obliquus</i>
22	041	European larch canker	<i>Lachnellula willkommii</i>
22	042	Beech bark disease	<i>Nectria coccinea</i>
22	043	Nectria canker	<i>Nectria galligena</i>
22	044	Ash heart rot	<i>Pereniporia fraxinophila</i>

**NRV\_DISTURBANCE\_AGENTS (cont.)**

<b>Category</b>	<b>Agent</b>	<b>Common Name</b>	<b>Scientific Name</b>
22	047	Red ring rot	<i>Phellinus pini</i>
22	048	Aspen trunk rot	<i>Phellinus tremulae</i>
22	049	Stem decay of black walnut	<i>Phellinus weirianus</i>
22	050	Phomopsis canker	<i>Phomopsis occulta</i>
22	051	Phomopsis canker	<i>Phomopsis spp.</i>
22	052	Leyland cypress canker	<i>Seiridium cardinale</i>
22	053	Butternut canker	<i>Sirococcus clavigignenti-jugl.</i>
22	054	Maple canker	<i>Steganosporium spp.</i>
22	055	Thyronectria canker	<i>Thyronectria austro-americana</i>
22	056	Citrus canker	<i>Xanthomonas citri</i>
22	057	Cytospora canker of aspen	<i>Cytospora chrysosperma</i>
22	058	Dothichiza canker	<i>Dothichiza populae</i>
22	059	Red belt fungus	<i>Fomitopsis pinicola</i>
22	060	Leucocytospora canker of spruce	<i>Leucocytospora kunzei</i>
22	061	Sooty bark canker	<i>Phibalis singular</i>
22	062	Brown heartrot	<i>Fomitopsis Officinalis</i>
22	063	Unknown	<i>Coniophora puteana</i>
22	064	Tinder fungus	<i>Fomes fomentarius</i>
22	065	Purple conk	<i>Hirschioporus abietinus</i>
22	066	Pinyon black stain	<i>Leptographium wagnerii</i>
22	067	Unknown	<i>Phellinus hartigii</i>
22	068	False tinder fungus	<i>Phellinus igniarius</i>
22	069	Robustus conk	<i>Phellinus robustus</i>
22	070	Yellow cap fungus	<i>Pholiota spp.</i>
22	071	Oyster mushroom	<i>Pleurotus ostreatus</i>
22	072	White ring rot	<i>Poria albipellucida</i>
22	073	Hemlock canker	<i>Xenomeris abietis</i>
22	074	Cedar brown pocket rot	<i>Poria sericeomollis</i>
22	075	Lachnellula canker	<i>Lachnellula flavovirens</i>
22	076	Strumella canker	<i>Strumella coryneoidea</i>
22	077	Phomopsis blight	<i>Phomopsis juniperovora</i>
22	078	Fusarium canker of yellow poplar	<i>Fusarium solani</i>
22	079	Sterile conk of maple and beech	<i>Inonotus glomeratus</i>
22	080	Canker of spruce	<i>Aleurodiscus spp.</i>
22	081	Birch conk	<i>Piptoporus betulinusai</i>
22	082	Canker	<i>Discocainia treleasei</i>
<b>23</b>	<b>000</b>	<b>Parasitic/Epiphytic Plants</b>	
23	001	Mistletoe	
23	002	Parasitic plants	
23	003	Vine damage	
23	005	White fir dwarf mistletoe	<i>Arceuthobium abietinum f. sp. concoloris</i>
23	006	Lodgepole pine dwarf mistletoe	<i>Arceuthobium americanum</i>
23	007	Apache dwarf mistletoe	<i>Arceuthobium apachecum</i>
23	008	Western dwarf mistletoe	<i>Arceuthobium campylopodum</i>
23	009	Limber pine dwarf mistletoe	<i>Arceuthobium cyanocarpum</i>
23	010	Pinyon dwarf mistletoe	<i>Arceuthobium divaricatum</i>
23	011	Douglas-fir dwarf mistletoe	<i>Arceuthobium douglasii</i>
23	012	Chihuahua pine dwarf mistletoe	<i>Arceuthobium gillii</i>
23	013	Larch dwarf mistletoe	<i>Arceuthobium laricis</i>
23	014	Western spruce dwarf mistletoe	<i>Arceuthobium microcarpum</i>

**NRV\_DISTURBANCE\_AGENTS (cont.)**

Category	Agent	Common Name	Scientific Name
23	015	Eastern dwarf mistletoe	<i>Arceuthobium pusillum</i>
23	016	Hemlock dwarf mistletoe	<i>Arceuthobium tsugense</i>
23	017	Southwestern dwarf mistletoe	<i>Arceuthobium vaginatum subsp. cryptopodum</i>
23	018	Dodder	<i>Cuscuta spp.</i>
23	019	White fir mistletoe	<i>Phoradendron bolleanum subsp. pauciflorum</i>
23	020	True mistletoe (other)	
23	021	Red fir dwarf mistletoe	<i>Arceuthobium abietinum f. sp. magnificae</i>
23	022	Juniper true mistletoe	<i>Phoradendron juniperum</i>
<b>24</b>	<b>000</b>	<b>Decline Complexes/Dieback/Wilts</b>	
24	001	Alaska-yellow cedar decline	
24	002	Norfolk Island pine decline	
24	003	Stillwell's syndrome	
24	004	Ash decline/yellows	
24	005	Birch dieback	
24	006	Cadang-cadang yellow mottle virus	
24	007	Complex	
24	008	Decline	
24	009	Fall hardwood defoliator complex	
24	010	Joga decline	
24	011	Larch decline	
24	012	Looper; abiotic complex	
24	013	Maple decline	
24	014	Oak decline	
24	015	Pingelap disease	
24	016	Sprout dieback	
24	017	True fir pest complex	
24	018	Western X disease	
24	019	Pinewood nematode	<i>Bursaphelenchus xylophilus</i>
24	020	Sapstreak disease of sugar maple	<i>Ceratocystis coerulescens</i>
24	021	Oak wilt	<i>Ceratocystis fagacearum</i>
24	022	Dutch elm disease	<i>Ceratocystis ulmi</i>
24	023	Bacterial wetwood	<i>Erwinia nimipressuralis</i>
24	024	Mimosa wilt	<i>Fusarium oxysporum f. sp. perniciusum</i>
24	025	Verticillium wilt	<i>Verticillium albo-atrum</i>
24	026	unknown	<i>Xylella fastidiosa</i>
24	027	Wetwood	
24	028	Hemlock decline	
24	029	Pacific madrone decline	
24	030	Elm phloem necrosis	<i>Mycoplasma</i>
<b>25</b>	<b>000</b>	<b>Foliage Diseases</b>	
25	001	Blight	
25	002	Broom rust	
25	003	Juniper blights	
25	004	Leaf spots	
25	005	Needlecast	
25	006	Powdery mildew	
25	007	Tobacco mosaic virus	
25	008	Tobacco ringspot virus of ash	
25	009	True fir needlecast	
25	010	Sycamore anthracnose	<i>Apiognomonina veneta</i>



**NRV\_DISTURBANCE\_AGENTS (cont.)**

Category	Agent	Common Name	Scientific Name
25	011	Cercospora blight of juniper	<i>Cercospora sequoiae</i>
25	013	Large-spored spruce-laborador tea rust	<i>Chrysomyxa ledicola</i>
25	014	Ink spot of aspen	<i>Ciborinia whetzellii</i>
25	015	Pine needle rust	<i>Coleosporium spp.</i>
25	016	Anthracnose on Russian olive	<i>Colletotrichum spp.</i>
25	017	Coronado limb rust	<i>Cronartium arizonicum</i>
25	018	Leaf shothole	<i>Cylindrosporium spp</i>
25	019	Cedar leaf blight	<i>Didymascella thujina</i>
25	020	Dogwood anthracnose	<i>Discula spp.</i>
25	021	Mango scab	<i>Elsinoe magiferae</i>
25	022	Elytroderma disease	<i>Elytroderma deformans</i>
25	023	Fire blight	<i>Erwinia amylovora</i>
25	024	Walnut anthracnose	<i>Gnomonia leptostyla</i>
25	025	Anthracnose	<i>Gnomonia spp.</i>
25	027	Brown felt blight	<i>Herpotrichia juniperi</i>
25	028	Larch needle blight	<i>Hypodermella laricis</i>
25	029	Hardwood anthracnose	<i>Kabatiella apocrypta</i>
25	030	Cone damage	<i>Lasiodiplodia spp.</i>
25	031	Spruce needle cast	<i>Lirula macrospora</i>
25	032	Fir needle cast	<i>Lirula spp.</i>
25	033	White pine needle cast	<i>Lophodermella arcuata</i>
25	034	Lophodermella needle cast	<i>Lophodermella spp.</i>
25	035	Lophodermium needle cast	<i>Lophodermium spp.</i>
25	036	Marssonina blight	<i>Marssonina populi</i>
25	037	Melampsora rusts	<i>Melampsora medusae</i>
25	039	Larch needle cast	<i>Meria laricis</i>
25	040	Dothistroma needle blight	<i>Mycosphaerella pini</i>
25	041	Brown felt blight of pines	<i>Neopeckia coulteri</i>
25	042	Snow blight	<i>Phacidium abietis</i>
25	043	Swiss needle cast	<i>Phaeocryptopus gaumannii</i>
25	044	Phoma blight	<i>Phoma spp.</i>
25	045	Phyllosticta leaf spot	<i>Phyllosticta spp.</i>
25	046	Bud rot	<i>Phytophthora palmivora</i>
25	047	Ploioderma needle cast	<i>Ploioderma spp.</i>
25	048	Ash rust	<i>Puccinia sparganioides</i>
25	049	Fir needle rust	<i>Pucciniastrum spp.</i>
25	050	Douglas-fir needle cast	<i>Rhabdocline spp.</i>
25	051	Rhizoctonia needle blight	<i>Rhizoctonia spp.</i>
25	052	Rhizophacteria needle cast	<i>Rhizophacteria spp.</i>
25	053	Rhizopus rot	<i>Rhizopus artocarpi</i>
25	054	Brown spot needle blight	<i>Scirrhia acicola</i>
25	055	Septoria leaf spot	<i>Septoria alnifolia</i>
25	056	Septoria leaf spot and canker	<i>Septoria musiva</i>
25	057	Sirococcus tip blight	<i>Sirococcus conigenus</i>
25	058	Diplodia blight	<i>Sphaeropsis sapinea</i>
25	059	Leaf blister of oak	<i>Taphrina caerulescens</i>
25	060	Venturia leaf blight of maple	<i>Venturia acerina</i>
25	061	Shepherd's crook	<i>Venturia tremulae</i>
25	062	Dothistroma needle blight	<i>Dothistroma septospora</i>

**NRV\_DISTURBANCE\_AGENTS (cont.)**

<b>Category</b>	<b>Agent</b>	<b>Common Name</b>	<b>Scientific Name</b>
25	063	Yellow-cedar shoot blight	<i>Apostrasseria</i> spp.
25	064	Broom rust	<i>Chrysomyxa arctostaphyli</i>
25	065	Spruce needle rust	<i>Chrysomyxa weirii</i>
25	066	Cedar leaf blight	<i>Gymnosporangium nootkatense</i>
25	067	Spruce needle cast	<i>Lophodermium picea</i>
25	068	Hardwood leaf rusts	<i>Melampsora</i> spp.
25	070	Hemlock needle rust	<i>Pucciniastrum vaccinii</i>
25	071	Spruce needle cast	<i>Rhizosphaera pini</i>
25	072	Sirococcus shoot blight	<i>Sirococcus strobilinus</i>
25	073	Shephards crook	<i>Venturia populina</i>
25	074	Delphinella shoot blight	<i>Delphinella abietis</i>
25	075	Tar spot	<i>Rhytisma acerinum</i>
<b>26</b>	<b>000</b>	<b>Stem Rusts</b>	
26	001	White pine blister rust	<i>Cronartium ribicola</i>
26	002	Western gall rust	<i>Peridermium harknessii</i>
26	003	Stalactiform blister rust	<i>Cronartium coleosporioides</i>
26	004	Comandra blister rust	<i>Cronartium comandrae</i>
26	005	Pinyon blister rust	<i>Cronartium occidentale</i>
26	006	Eastern gall rust	<i>Cronartium quercuum</i>
26	007	Gall rust of jack pine	<i>Cronartium quercuum</i> f. sp. <i>banksignae</i>
26	008	Gall rust of shortleaf pine	<i>Cronartium quercuum</i> f. sp. <i>echinatae</i>
26	009	Fusiform rust	<i>Cronartium quercuum</i> f. sp. <i>fusiforme</i>
26	010	Gall rust of virginia pine	<i>Cronartium quercuum</i> f. sp. <i>virginianae</i>
26	011	Bethuli rust	<i>Peridermium bethuli</i>
26	012	Limb rust	<i>Peridermium filamentosum</i>
26	013	Southern cone rust	<i>Cronartium strobilinum</i>
<b>27</b>	<b>000</b>	<b>Broom Rusts</b>	
27	001	Spruce broom rust	<i>Chrysomyxa arctostaphyli</i>
27	002	Incense cedar broom rust	<i>Gymnosporangium libocedri</i>
27	003	Juniper broom rust	<i>Gymnosporangium nidus-avis</i>
27	004	Fir broom rust	<i>Melampsorella caryophyllacearum</i>
<b>30</b>	<b>000</b>	<b>Fire</b>	
30	031	Wild-fire	
30	032	Human caused fire	
30	033	Crown fire damage	
30	034	Ground fire damage	
<b>40</b>	<b>000</b>	<b>Animal Damage, Source Unknown</b>	
<b>41</b>	<b>000</b>	<b>Wild Animals</b>	
41	001	Bear	
41	002	Beaver	
41	003	Big game (deer)	
41	004	Mice or voles	
41	005	Pocket gophers	
41	006	Porcupines	
41	007	Rabbits or hares	
41	008	Sapsucker	
41	009	Squirrels	
41	010	Woodpeckers	
41	011	Moose	
41	012	Elk	

**NRV\_DISTURBANCE\_AGENTS (cont.)**

<b>Category</b>	<b>Agent</b>	<b>Common Name</b>	<b>Scientific Name</b>
41	013	Deer	
41	014	Feral pigs	
41	015	Mountain beaver	
41	016	Deer or elk	
41	017	Earthworm	Lumbricidae
<b>42</b>	<b>000</b>	<b>Domestic Animals</b>	
42	001	Cattle	
42	002	Goats	
42	003	Horses	
42	004	Sheep	
<b>50</b>	<b>000</b>	<b>Abiotic Damage</b>	
50	001	Air pollutants	
50	002	Chemical	
50	003	Drought	
50	004	Flooding/high water	
50	005	Frost	
50	006	Hail	
50	007	Heat	
50	008	Lightning	
50	009	Nutrient imbalances	
50	010	Radiation	
50	011	Snow/ice	
50	013	Wind-tornado	
50	014	Winter injury	
50	015	Avalanche	
50	016	Mud-land slide	
50	017	Volcano	
50	018	Other geologic events	
50	019	Mechanical (non-human caused)	
<b>60</b>	<b>000</b>	<b>Competition</b>	
<b>70</b>	<b>000</b>	<b>Human Activities</b>	
70	001	Herbicides	
70	003	Imbedded objects	
70	004	Improper planting technique	
70	005	Land clearing	
70	006	Land use conversion	
70	007	Logging damage	
70	008	Mechanical	
70	009	Pesticides	
70	010	Roads	
70	011	Soil compaction	
70	012	Suppression	
70	013	Vehicle damage	
70	014	Road salt	
<b>71</b>	<b>000</b>	<b>Harvest</b>	
<b>80</b>	<b>000</b>	<b>Multi-Damage (Insect/Disease)</b>	
80	001	Aspen defoliation	
80	002	Subalpine fir mortality	
80	003	Five needle pine decline	

**NRV\_DISTURBANCE\_AGENTS (cont.)**

Category	Agent	Common Name	Scientific Name
80	004	Pinion pine decline	
90	000	<b>Unknown</b>	

**NRV\_DISTURBANCE\_CATEGORIES**

Codes that describe pests, disease or other agents that have caused a disturbance.

Name	Type	Description
CATEGORY_CODE <i>Required</i>	VC(2)	Disturbance category code.
CREATED_BY <i>Required</i>	VC(30)	The name of the person who created the record.
CREATED_DATE <i>Required</i>	DATE	The date the record was created.
CREATED_IN_INSTANCE <i>Required</i>	N(6)	The database ID where the record was created.
DESCRIPTION <i>Required</i>	VC(2000)	Disturbance category description.
MODIFIED_BY	VC(30)	The name of the person who modified the record.
MODIFIED_DATE	DATE	The date the record was modified.
MODIFIED_IN_INSTANCE	N(6)	The database ID where the record was modified.
ON_OFF	VC(3)	Flag to display (ON) or hide (OFF) individual disturbance categories in the Interface pull-down lists.

Code	Description
00	None
10	General Insects
11	Bark Beetles
12	Defoliators
13	Chewing Insects
14	Sucking Insects
15	Boring Insects
16	Seed/Cone/Flower/Fruit Insects
17	Gallmaker Insects
18	Insect Predators
19	General Diseases
20	Biotic Damage
21	Root/Butt Diseases
22	Stem Decays/Cankers
23	Parasitic/Epiphytic Plants
24	Decline Complexes/Dieback-Wilts
25	Foliage Diseases
26	Stem Rusts
27	Broom Rusts
30	Fire
40	Animal Damage, source unknown

**NRV\_DISTURBANCE\_CATEGORIES (cont.)**

Code	Description
41	Wild animals
42	Domestic animals
50	Abiotic Damage
60	Competition
70	Human Activities
71	Harvest
80	Multi-Damage (Insect-Disease)
90	Unknown
99	Flag for CSE to indicate physical effect data follows (do not delete this record).

**NRV\_EV\_COVER\_TYPES**

Codes for a variety of existing vegetation composition type classifications.

Name	Type	Description
COMMON_NAME <i>Required</i>	VC(240)	Existing vegetation type common or vernacular name.
CREATED_BY <i>Required</i>	VC(30)	The name of the person who created the record.
CREATED_IN_INSTANCE <i>Required</i>	N(6)	The database ID where the record was created.
CREATED_DATE <i>Required</i>	DATE	The date the record was created.
EV_CODE <i>Required</i>	VC(10)	Existing vegetation code.
ON_OFF <i>Required</i>	VC(3)	Flag to display (ON) or hide (OFF) individual existing vegetation codes in the Interface pull-down lists.
REF_CODE <i>Required</i>	VC(10)	Existing vegetation reference code. This column is constrained by the codes in the NRV_Cover_References table.
LEVEL_OF_APPROVAL	VC(30)	The entity that approved these codes.
MODIFIED_BY	VC(30)	The name of the person who modified the record.
MODIFIED_DATE	DATE	The date the record was modified.
MODIFIED_IN_INSTANCE	N(6)	The database ID where the record was modified.
SCIENTIFIC_NAME	VC(240)	Existing vegetation scientific name.

Ref Code	EV Code	Common Name
CAL	AB	Santa Lucia fir
CAL	AC	Alpine cushion plant
CAL	AD	White bursage
CAL	AG	Agriculture
CAL	AK	Alkaline flats
CAL	AN	Mendocino manzanita
CAL	AX	Mixed alpine scrub
CAL	BA	Barren
CAL	BB	Bitterbrush
CAL	BC	Saltbush

**NRV\_EV\_COVER\_TYPES (cont.)**

Ref Code	EV Code	Common Name
CAL	BG	Greasewood
CAL	BI	Littleleaf mountain mahogany
CAL	BL	Low sagebrush
CAL	BM	Curlleaf mountain mahogany
CAL	BP	Bristlecone pine
CAL	BQ	Basin mixed scrub
CAL	BR	Rabbitbrush
CAL	BS	Basin sagebrush
CAL	BT	Big tree (giant sequoia)
CAL	BX	High desert - montane chaparral transition
CAL	BZ	Basin - desert transition scrub
CAL	C1	Ultramafic mixed shrub
CAL	CA	Chamise
CAL	CB	Salal - California huckleberry shrub
CAL	CC	Ceanothus mixed chaparral
CAL	CD	Southern mixed chaparral
CAL	CE	Mountain misery
CAL	CG	Greenleaf manzanita
CAL	CH	Huckleberry qak
CAL	CI	Deerbrush
CAL	CJ	Brewer oak
CAL	CK	Coyote brush
CAL	CL	Wedgeleaf ceanothus
CAL	CM	Upper montane mixed shrub
CAL	CN	Pinemat manzanita
CAL	CP	Bush chinquapin
CAL	CQ	Lower montane mixed chaparral
CAL	CR	Red shanks chaparral
CAL	CS	Scrub oak
CAL	CT	Tucker (Muller ) scrub oak
CAL	CV	Snowbrush
CAL	CW	Whiteleaf manzanita
CAL	CX	Upper montane mixed chaparral
CAL	CY	Mountain whitethorn
CAL	CZ	Semi-desert chaparral
CAL	DA	Blackbush
CAL	DB	Desert buckwheat
CAL	DC	Cholla
CAL	DD	Croton
CAL	DE	Arrowweed
CAL	DF	Pacific Douglas-fir
CAL	DG	Douglas-fir - grand fir
CAL	DI	Indigo bush
CAL	DJ	Spiny Menodora
CAL	DL	Creosote bush
CAL	DM	Bigcone Douglas-fir
CAL	DO	Ocotillo
CAL	DP	Douglas-fir - ponderosa pine
CAL	DQ	Douglas-fir - canyon live oak

**NRV\_EV\_COVER\_TYPES (cont.)**

Ref Code	EV Code	Common Name
CAL	DS	Shadscale
CAL	DT	Douglas-fir - tanoak
CAL	DU	Dune
CAL	DV	Mixed desert succulent shrub
CAL	DW	Douglas-fir - white fir
CAL	DX	Mixed desert shrub
CAL	EA	Engelmann spruce
CAL	EP	Eastside pine
CAL	EX	Coastal mixed hardwood
CAL	FD	Ephedra
CAL	FM	Curleaf mountain mahogany (tree)
CAL	FO	Water birch
CAL	FP	Foxtail pine
CAL	GF	Grand fir
CAL	GR	Unknown dry grass/forbs legacy
CAL	HA	Alkaline mixed grass/forbs
CAL	HC	Pickleweed - cord grass
CAL	HD	Unknown hardwood legacy
CAL	HG	Annual grass / forbs
CAL	HJ	Wet meadows grass/sedge/rush
CAL	HM	Perennial grass/forbs
CAL	HS	Cheesebush
CAL	HT	Tule -cattail
CAL	IA	Non-native/invasive grass
CAL	IC	Non-native/ornamental conifer
CAL	IG	Non-native/ornamental grass
CAL	IH	Non-native/ornamental hardwood
CAL	IM	Non-native/ornamental conifer/hardwood
CAL	IS	Non-native/ornamental shrub
CAL	JC	California juniper (shrub)
CAL	JP	Jeffrey pine
CAL	JT	California juniper (tree)
CAL	JU	Utah juniper
CAL	KP	Knobcone pine
CAL	LP	Lodgepole pine
CAL	LS	Scalebroom
CAL	MB	Mixed conifer - giant sequoia
CAL	MC	Cuyamaca cypress
CAL	MD	Incense cedar
CAL	MF	Mixed conifer - fir
CAL	MG	Gowen cypress
CAL	MH	Mountain hemlock
CAL	MI	Piute cypress
CAL	MK	Klamath mixed conifer
CAL	ML	Baccharis (riparian)
CAL	MM	Monterey cypress
CAL	MN	McNab cypress
CAL	MO	Baker cypress

**NRV\_EV\_COVER\_TYPES (cont.)**

Ref Code	EV Code	Common Name
CAL	MP	Mixed conifer - pine
CAL	MS	Sargent cypress
CAL	MT	Tecate cypress
CAL	MU	Ultramafic mixed conifer
CAL	MY	Pygmy cypress
CAL	MZ	Santa Cruz cypress
CAL	NA	Alkaline mixed scrub
CAL	NB	Mixed desert wash shrub
CAL	NC	North coast mixed shrub
CAL	NM	Riparian mixed shrub
CAL	NQ	High desert mixed scrub
CAL	NR	Mixed riparian hardwoods
CAL	NX	Mixed hardwoods (non-productive)
CAL	PB	Brewer spruce
CAL	PC	Coulter Pine
CAL	PD	Gray pine
CAL	PJ	Singleleaf pinyon pine
CAL	PL	Limber pine
CAL	PM	Bishop pine
CAL	PO	Port Orford cedar
CAL	PP	Ponderosa pine
CAL	PQ	Fourneedle pinyon pine
CAL	PR	Monterey pine
CAL	PS	Shore pine
CAL	PT	Torrey pine
CAL	PW	Ponderosa pine - white fir
CAL	Q1	Live oak - madrone
CAL	QA	Coast live oak
CAL	QB	California bay
CAL	QC	Canyon live oak
CAL	QD	Blue oak
CAL	QE	White alder
CAL	QF	Fremont cottonwood
CAL	QG	Oregon white oak
CAL	QH	Madrone
CAL	QI	California buckeye
CAL	QJ	Cottonwood - alder
CAL	QK	Black oak
CAL	QL	Valley oak
CAL	QM	Bigleaf maple
CAL	QN	Engelmann oak
CAL	QO	Willow
CAL	QP	California sycamore
CAL	QQ	Quaking aspen
CAL	QR	Red alder
CAL	QS	Willow - aspen
CAL	QT	Tanoak (madrone)
CAL	QV	California walnut



**NRV\_EV\_COVER\_TYPES (cont.)**

Ref Code	EV Code	Common Name
CAL	QW	Interior live oak
CAL	QX	Black cottonwood
CAL	QY	Willow - alder
CAL	QZ	Eucalyptus
CAL	RD	Redwood - Douglas-fir
CAL	RF	Red Fir
CAL	RS	Alluvial fan sage scrub
CAL	RW	Redwood
CAL	SA	Subalpine conifers
CAL	SB	Buckwheat
CAL	SC	Blueblossom Ceanothus
CAL	SD	Manzanita Chaparral
CAL	SE	Encelia Scrub
CAL	SG	Sitka Spruce - Grand Fir
CAL	SH	Coastal bluff scrub
CAL	SI	Bladderpod
CAL	SK	Sitka spruce
CAL	SL	Coastal lupine
CAL	SM	Sumac shrub
CAL	SN	Snow/ice
CAL	SO	Coastal cactus
CAL	SP	Sage (Salvia spp.)
CAL	SQ	Mixed soft scrub chaparral
CAL	SR	Sitka spruce - redwood
CAL	SS	California sagebrush
CAL	SY	Chaparral yucca
CAL	TA	Mountain alder
CAL	TB	Bitterbrush - sagebrush
CAL	TC	Tree chinquapin
CAL	TM	Horsebrush
CAL	TN	Black sagebrush
CAL	TR	Rothrock sagebrush
CAL	TS	Snowberry
CAL	TT	Big Basin sagebrush
CAL	TV	Mountain sagebrush
CAL	TW	Wyoming sagebrush
CAL	TX	Montane mixed hardwoods
CAL	UB	Urban/developed
CAL	UD	Desert willow
CAL	UI	Desert ironwood
CAL	UJ	Joshua Tree
CAL	UL	Catclaw acacia
CAL	UM	Mesquite
CAL	UP	Palo Verde
CAL	UT	Tamarisk
CAL	UW	Fan palm
CAL	UX	Smoke Tree
CAL	WA	Water

**NRV\_EV\_COVER\_TYPES (cont.)**

Ref Code	EV Code	Common Name
CAL	WB	Whitebark pine
CAL	WD	Dogwood
CAL	WF	White fir
CAL	WJ	Western juniper
CAL	WL	Willow (shrub)
CAL	WM	Birchleaf mountain mahogany
CAL	WP	Washoe pine
CAL	WW	Western white pine
CAL	XC	Unknown conifer
CAL	XG	Unknown dry grass/forbs
CAL	XH	Unknown hardwood
CAL	XI	Unknown non-native/ornamental
CAL	XJ	Unknown wet grass/forbs
CAL	XS	Unknown shrub
CAL	XX	not yet mapped
CAL	XZ	Unknown barren
EWDB	00	White-Red-JackPine
EWDB	01	Jack pine
EWDB	02	Red pine
EWDB	03	White pine
EWDB	04	White pine-hemlock
EWDB	05	Hemlock
EWDB	06	Scotch pine
EWDB	07	Ponderosa pine
EWDB	10	Spruce-Fir
EWDB	11	Balsam fir
EWDB	12	Black spruce
EWDB	13	Red spruce-balsam fir
EWDB	14	Northern white-cedar
EWDB	15	Tamarack
EWDB	16	White spruce
EWDB	17	Norway spruce
EWDB	18	Larch
EWDB	19	Red spruce
EWDB	20	Longleaf-Slash Pine
EWDB	21	Longleaf pine
EWDB	22	Slash pine
EWDB	30	Loblolly-Shortleaf Pine
EWDB	31	Loblolly pine
EWDB	32	Shortleaf pine
EWDB	33	Virginia pine
EWDB	34	Sand pine
EWDB	35	Eastern redcedar
EWDB	36	Pond pine
EWDB	37	Spruce pine
EWDB	38	Pitch pine
EWDB	39	Table-mountain pine
EWDB	40	Oak-Pine

**NRV\_EV\_COVER\_TYPES (cont.)**

Ref Code	EV Code	Common Name
EWDB	41	White pine-northern red oak-wash
EWDB	42	Eastern redcedar-hardwood
EWDB	43	Longleaf pine-scrub oak
EWDB	44	Shortleaf pine-oak
EWDB	45	Virginia pine-southern red oak
EWDB	46	Loblolly pine-hardwood
EWDB	47	Slash pine-hardwood
EWDB	49	Other oak-pine
EWDB	50	Oak-hickory
EWDB	51	Post oak-black oak-bear oak
EWDB	52	Chestnut oak
EWDB	53	White oak-red oak-hickory
EWDB	54	White oak
EWDB	55	Northern red oak
EWDB	56	Yellow-poplar-white oak-northern red oak
EWDB	57	Southern scrub oak
EWDB	58	Sweetgum-yellow-poplar
EWDB	59	Mixed central hardwoods
EWDB	60	Oak-Gum-Cypress
EWDB	61	Swamp chestnut oak-cherrybark oak
EWDB	62	Sweetgum-Nuttall oak-willow oak
EWDB	63	Sugarberry-American elm-green ash
EWDB	65	Overcup oak-water hickory
EWDB	66	Atlantic white cedar
EWDB	67	Baldcypress-water tupelo
EWDB	68	Sweetbay-swamp tupelo-red maple
EWDB	69	Palm-mangrove-other tropical
EWDB	70	Elm-Ash-Cottonwood
EWDB	71	Black ash-American elm-red maple
EWDB	72	River birch-sycamore
EWDB	73	Cottonwood
EWDB	74	Willow
EWDB	75	Sycamore-pecan-American elm
EWDB	76	Red maple-lowland
EWDB	79	Mixed lowland hardwoods
EWDB	80	Maple-Beech-Birch
EWDB	81	Sugar maple-beech-yellow birch
EWDB	82	Black cherry
EWDB	83	Black walnut
EWDB	84	Red maple-northern hardwood
EWDB	87	Red maple-upland
EWDB	88	Northern hardwood-reverting field
EWDB	89	Mixed northern hardwoods
EWDB	90	Aspen-Birch
EWDB	91	Aspen
EWDB	92	Paper birch
EWDB	93	Gray birch
EWDB	94	Balsam poplar

**NRV\_EV\_COVER\_TYPES (cont.)**

Ref Code	EV Code	Common Name
EWDB	99	Nonstocked
FIADB	100	White/Red/Jack Pine Group
FIADB	101	Jack pine
FIADB	102	Red pine
FIADB	103	Eastern white pine
FIADB	104	White pine/hemlock
FIADB	105	Eastern hemlock
FIADB	120	Spruce/Fir Group
FIADB	121	Balsam fir
FIADB	122	White spruce
FIADB	123	Red spruce
FIADB	124	Red spruce/balsam fir
FIADB	125	Black spruce
FIADB	126	Tamarack
FIADB	127	Northern white-cedar
FIADB	140	Longleaf/Slash Pine Group
FIADB	141	Longleaf pine
FIADB	142	Slash pine
FIADB	160	Loblolly/Shortleaf Pine Group
FIADB	161	Loblolly pine
FIADB	162	Shortleaf pine
FIADB	163	Virginia pine
FIADB	164	Sand pine
FIADB	165	Table-mountain pine
FIADB	166	Pond pine
FIADB	167	Pitch pine
FIADB	168	Spruce pine
FIADB	180	Pinyon/Juniper Group
FIADB	181	Eastern redcedar
FIADB	182	Rocky Mountain juniper
FIADB	183	Western juniper
FIADB	184	Juniper woodland
FIADB	185	Pinyon juniper woodland
FIADB	200	Douglas-fir Group
FIADB	201	Douglas-fir
FIADB	202	Port-Orford-cedar
FIADB	220	Ponderosa Pine Group
FIADB	221	Ponderosa pine
FIADB	222	Incense cedar
FIADB	223	Jeffrey pine/Coulter pine/bigcone Douglas-fir
FIADB	224	Sugar pine
FIADB	225	Jeffery pine
FIADB	226	Coulter pine
FIADB	240	Western White Pine Group
FIADB	241	Western white pine
FIADB	260	Fir/Spruce/Mountain Hemlock Group
FIADB	261	White fir
FIADB	262	Red fir

**NRV\_EV\_COVER\_TYPES (cont.)**

Ref Code	EV Code	Common Name
FIADB	263	Noble fir
FIADB	264	Pacific silver fir
FIADB	265	Engelmann spruce
FIADB	266	Engelmann spruce/subalpine fir
FIADB	267	Grand fir
FIADB	268	Subalpine fir
FIADB	269	Blue spruce
FIADB	270	Mountain hemlock
FIADB	271	Alaska-yellow-cedar
FIADB	280	Lodgepole Pine Group
FIADB	281	Lodgepole pine
FIADB	300	Hemlock/Sitka Spruce Group
FIADB	301	Western hemlock
FIADB	304	Western redcedar
FIADB	305	Sitka spruce
FIADB	320	Western Larch Group
FIADB	321	Western larch
FIADB	340	Redwood Group
FIADB	341	Redwood
FIADB	342	Giant sequoia
FIADB	360	Other Western Softwoods Group
FIADB	361	Knobcone pine
FIADB	362	Southwest white pine
FIADB	363	Bishop pine
FIADB	364	Monterey pine
FIADB	365	Foxtail pine/bristlecone pine
FIADB	366	Limber pine
FIADB	367	Whitebark pine
FIADB	368	Misc. western softwoods
FIADB	370	California Mixed Conifer Group
FIADB	371	California mixed conifer
FIADB	380	Exotic Softwoods Group
FIADB	381	Scotch pine
FIADB	382	Australian pine
FIADB	383	Other exotic softwoods
FIADB	384	Norway spruce
FIADB	385	Introduced larch
FIADB	390	Western cypress group
FIADB	400	Oak/Pine Group
FIADB	401	White pine/red oak/white ash
FIADB	402	Eastern redcedar/ hardwood
FIADB	403	Longleaf pine/oak
FIADB	404	Shortleaf pine/oak
FIADB	405	Virginia pine/southern red oak
FIADB	406	Loblolly pine/hardwood
FIADB	407	Slash pine/hardwood
FIADB	409	Other pine/hardwood
FIADB	500	Oak/Hickory Group

**NRV\_EV\_COVER\_TYPES (cont.)**

Ref Code	EV Code	Common Name
FIADB	501	Post oak/blackjack oak
FIADB	502	Chestnut oak
FIADB	503	White oak/red oak/hickory
FIADB	504	White oak
FIADB	505	Northern red oak
FIADB	506	Yellow-poplar/white oak/red oak
FIADB	507	Sassafras/persimmon
FIADB	508	Sweetgum/yellow-poplar
FIADB	509	Bur oak
FIADB	510	Scarlet oak
FIADB	511	Yellow-poplar
FIADB	512	Black walnut
FIADB	513	Black locust
FIADB	514	Southern scrub oak
FIADB	515	Chestnut oak/black oak/scarlet oak
FIADB	519	Red maple/oak
FIADB	520	Mixed upland hardwoods
FIADB	600	Oak/Gum/Cypress Group
FIADB	601	Swamp chestnut oak/cherrybark oak
FIADB	602	Sweetgum/Nuttall oak/willow oak
FIADB	605	Overcup oak/water hickory
FIADB	606	Atlantic white-cedar
FIADB	607	Baldcypress/water tupelo
FIADB	608	Sweetbay/swamp tupelo/red maple
FIADB	700	Elm/Ash/Cottonwood Group
FIADB	701	Black ash/American elm/red maple
FIADB	702	River birch/sycamore
FIADB	703	Cottonwood
FIADB	704	Willow
FIADB	705	Sycamore/pecan/American elm
FIADB	706	Sugarberry/hackberry/elm/green ash
FIADB	707	Silver maple/American elm
FIADB	708	Red maple/lowland
FIADB	709	Cottonwood/willow
FIADB	722	Oregon ash
FIADB	800	Maple/Beech/Birch Group
FIADB	801	Sugar maple/beech/yellow birch
FIADB	802	Black cherry
FIADB	803	Cherry/ash/yellow-poplar
FIADB	805	Hard maple/basswood
FIADB	807	Elm/ash/locust
FIADB	809	Red maple/upland
FIADB	900	Aspen/Birch Group
FIADB	901	Aspen
FIADB	902	Paper birch
FIADB	904	Balsam poplar
FIADB	910	Alder/Maple Group
FIADB	911	Red alder

**NRV\_EV\_COVER\_TYPES (cont.)**

Ref Code	EV Code	Common Name
FIADB	912	Bigleaf maple
FIADB	920	Western Oak Group
FIADB	921	Gray pine
FIADB	922	California black oak
FIADB	923	Oregon white oak
FIADB	924	Blue oak
FIADB	925	Deciduous oak woodland
FIADB	926	Evergreen oak woodland
FIADB	931	Coast live oak
FIADB	932	Canyon live oak/interior live oak
FIADB	940	Tanoak/Laurel Group
FIADB	941	Tanoak
FIADB	942	California laurel
FIADB	943	Giant chinkapin
FIADB	950	Other Western Hardwoods Group
FIADB	951	Pacific madrone
FIADB	952	Mesquite woodland
FIADB	953	Cercocarpus woodland
FIADB	954	Intermountain maple woodland
FIADB	955	Misc. western hardwood woodlands
FIADB	960	Western woody shrublands-chaparral
FIADB	980	Tropical Hardwoods Group
FIADB	981	Sable palm
FIADB	982	Mangrove
FIADB	989	Other tropical
FIADB	990	Exotic Hardwoods Group
FIADB	991	Paulownia
FIADB	992	Melaluca
FIADB	993	Eucalyptus
FIADB	995	Other exotic hardwoods
FIADB	999	Non stocked
FSH	01	Jack pine
FSH	02	Red pine
FSH	03	White pine
FSH	04	White pine, hemlock
FSH	05	Hemlock
FSH	09	Conifers (Allegheny)
FSH	11	Balsam fir, aspen, paper birch
FSH	12	Black spruce
FSH	13	Red spruce, basalm fir
FSH	14	Northern white-cedar
FSH	15	Tamarack
FSH	16	White spruce,basalm fir,norway spruce
FSH	17	Upland black spruce
FSH	18	Mixed swamp conifer
FSH	19	Cedar,aspen,paper birch
FSH	31	Loblolly pine
FSH	32	Shortleaf pine

**NRV\_EV\_COVER\_TYPES (cont.)**

Ref Code	EV Code	Common Name
FSH	33	Virginia pine
FSH	35	Eastern redcedar
FSH	38	Pitch pine
FSH	41	White pine,northern red oak,white ash
FSH	42	Eastern redcedar,hardwood
FSH	44	Shortleaf pine,oak
FSH	48	Jack pine-oak
FSH	49	Red pine-oak
FSH	51	Post oak,blackjack oak
FSH	52	Chestnut oak
FSH	53	Black oak,scarlet oak,hickory
FSH	54	White oak
FSH	55	Northern red oak
FSH	56	Yellow poplar,white oak,northern red oak
FSH	57	Scarlet oak (Mark Twain)
FSH	58	Sweetgum,yellow poplar
FSH	59	Mixed oaks
FSH	61	Swamp chestnut oak,cherrybark oak,pin oak
FSH	62	Sweetgum,Nuttall oak,willow oak
FSH	67	Baldcypress-water tupelo
FSH	71	Black ash,American elm,red maple
FSH	72	Riverbirch,sycamore
FSH	73	Cottonwood
FSH	75	Sycamore,pecan,American elm
FSH	76	Red maple (wet site)
FSH	77	Green ash
FSH	78	Black walnut
FSH	79	Mixed lowland hardwoods
FSH	81	Sugar maple,beech,yellow birch
FSH	82	Sugar maple,basswood
FSH	83	Black cherry,white ash,yellow poplar
FSH	84	Red maple (dry site)
FSH	85	Sugar maple
FSH	86	Beech
FSH	87	Sugar maple-beech-yellow birch-red spruce
FSH	88	Black locust
FSH	89	Mixed upland hardwoods
FSH	91	Quaking aspen
FSH	92	Paper birch
FSH	93	Bigtooth aspen
FSH	94	Balsam poplar
FSH	95	Aspen,white spruce,balsam fir
FSH	97	Lowland shrub
FSH	98	Upland shrub
FSH	99	Open
FSHR8	2	Red pine
FSHR8	3	White pine
FSHR8	4	White pine-hemlock



**NRV\_EV\_COVER\_TYPES (cont.)**

Ref Code	EV Code	Common Name
FSHR8	5	Hemlock
FSHR8	6	Fraser fir
FSHR8	7	Red spruce-frasier fir
FSHR8	8	Hemlock-hardwood
FSHR8	9	White pine-cove hardwood
FSHR8	10	White pine-upland hardwood
FSHR8	11	Eastern red cedar hardwood
FSHR8	12	Shortleaf pine-oak
FSHR8	13	Loblolly pine-hardwood
FSHR8	14	Slash pine-hardwood
FSHR8	15	Pitch pine-oak
FSHR8	16	Virginia pine-oak
FSHR8	17	Red spruce-northern hardwood
FSHR8	18	Pond pine-hardwood
FSHR8	19	Sand pine-hardwood
FSHR8	20	Table Mountain-pine-hardwood
FSHR8	21	Longleaf pine
FSHR8	22	Slash pine-hardwood
FSHR8	23	Pondypress
FSHR8	24	Baldcypress
FSHR8	25	Yellow pine
FSHR8	26	Longleaf pine-hardwood
FSHR8	31	Loblolly pine
FSHR8	32	Shortleaf pine
FSHR8	33	Virginia pine
FSHR8	34	Sand pine
FSHR8	35	Eastern red cedar
FSHR8	36	Pond pine
FSHR8	37	Spruce pine
FSHR8	38	Pitch pine
FSHR8	39	Table Mountain pine
FSHR8	40	Hardwood-pond pine
FSHR8	41	Cove hardwoods-white pine-hemlock
FSHR8	42	Upland hardwoods-white pine
FSHR8	43	Oak-eastern red cedar
FSHR8	44	Southern red oak-yellow pine
FSHR8	45	Chestnut oak-scarlet oak-yellow pine
FSHR8	46	Bottomland hardwood-yellow pine
FSHR8	47	White oak-black oak-yellow pine
FSHR8	48	Northern red oak-hickory-yellow pine
FSHR8	49	Bear oak-southern scrub oaks-yellow pine
FSHR8	50	Yellow poplar
FSHR8	51	Post oak-black oak
FSHR8	52	Chestnut oak
FSHR8	53	White oak-northern red oak-hickory
FSHR8	54	White oak
FSHR8	55	Northern red oak
FSHR8	56	Yellow poplar-white oak-northern red oak

**NRV\_EV\_COVER\_TYPES (cont.)**

Ref Code	EV Code	Common Name
FSHR8	57	Scrub oak
FSHR8	58	Sweetgum-yellow poplar
FSHR8	59	Scarlet oak
FSHR8	60	Chestnut oak-scarlet oak
FSHR8	61	Swamp chestnut oak-cherrybark oak
FSHR8	62	Sweetgum-Nuttall oak-willow
FSHR8	63	Sugarberry-American elm-green ash
FSHR8	64	Laurel oak-willow oak
FSHR8	65	Overcup oak-water hickory
FSHR8	66	Atlantic white cedar
FSHR8	67	Baldcypress-water tupelo
FSHR8	68	Sweetbay-swamp tupelo-red maple
FSHR8	69	Beech-magnolia
FSHR8	70	Black cherry
FSHR8	71	Black ash-American elm-Red Maple
FSHR8	72	River birch-sycamore
FSHR8	73	Cottonwood
FSHR8	74	Willow
FSHR8	75	Sycamore-pecan-American elm
FSHR8	76	Silver maple-American elm
FSHR8	77	Oak hammock
FSHR8	81	Sugar maple-beech-yellow birch
FSHR8	82	Black walnut
FSHR8	83	Black birch
FSHR8	88	Black locust
FSHR8	90	Non-forest
FSHR8	97	Live oak
FSHR8	98	Undrained flatwoods
FSHR8	99	Brush species
FSHR8	800	Novaculite Glade (includes talus)
FSHR8	801	Cliff and Talus (Sandstone, Shale)
FSHR8	802	Glade and Barrens (Sandstone, Shale)
FSHR8	803	Calcareous Prairie
FSHR8	804	Seep/Spring
FSHR8	805	Montane Oak
FSHR8	806	Ozark Calcareous Glade and Barren (Ozark)
FSHR8	807	Sinkhole and Depression Pond (Ozark)
FSHR8	808	Calcareous Cliff and Talus (Ozark)
FSHR8	809	Prairie and Woodland (Ozark)
FSHR9	1	Jack pine
FSHR9	2	Red pine
FSHR9	3	Eastern white pine
FSHR9	4	Eastern white pine - hemlock
FSHR9	5	Hemlock
FSHR9	6	Scotch pine
FSHR9	7	Norway spruce
FSHR9	8	White spruce
FSHR9	9	Conifers (Allegheny)

**NRV\_EV\_COVER\_TYPES (cont.)**

Ref Code	EV Code	Common Name
FSHR9	10	Spruce
FSHR9	11	Balsam fir – aspen/paper birch
FSHR9	12	Black spruce
FSHR9	13	Red spruce – balsam fir
FSHR9	14	Northern white cedar
FSHR9	15	Tamarack
FSHR9	16	White spruce-balsam fir
FSHR9	17	Upland black spruce
FSHR9	18	Mixed swamp conifers
FSHR9	19	Northern white cedar-aspen/paper birch
FSHR9	20	Northern hardwoods-hemlock
FSHR9	21	Mixed Northern hardwoods
FSHR9	22	Upland northern white cedar
FSHR9	23	White spruce-balsam fir-aspen
FSHR9	24	Balsam fir
FSHR9	30	Mixed pines
FSHR9	31	Loblolly pine
FSHR9	32	Shortleaf pine
FSHR9	33	Virginia pine
FSHR9	35	Eastern redcedar
FSHR9	38	Pitch pine
FSHR9	41	Eastern white pine-northern red oak/white ash
FSHR9	42	Eastern redcedar-hardwood
FSHR9	43	Oak-eastern white pine
FSHR9	44	Shortleaf pine-oak
FSHR9	45	Virginia pine-hardwoods
FSHR9	46	Oak-shortleaf pine
FSHR9	47	Oak-aspen
FSHR9	48	Jack pine-oak
FSHR9	49	Red pine-oak
FSHR9	50	Pin oak
FSHR9	51	Post oak/blackjack oak
FSHR9	52	Chestnut oak
FSHR9	53	Black oak/scarlet oak/hickory
FSHR9	54	White oak
FSHR9	55	Northern red oak
FSHR9	56	Yellow poplar/white oak/northern red oak
FSHR9	57	Scarlet oak (Mark Twain)
FSHR9	58	Sweetgum-yellow poplar
FSHR9	59	Mixed oaks
FSHR9	60	Oak-hardwoods
FSHR9	61	Swamp chestnut oak/cherrybark oak/pin oak
FSHR9	62	Sweetgum-Nuttall oak/willow oak
FSHR9	63	Northern Pin Oak
FSHR9	67	Baldcypress/water tupelo
FSHR9	70	Sugar maple-black cherry
FSHR9	71	Black ash-American elm/red maple
FSHR9	72	River birch/sycamore

**NRV\_EV\_COVER\_TYPES (cont.)**

Ref Code	EV Code	Common Name
FSHR9	73	Cottonwood
FSHR9	74	White ash
FSHR9	75	Sycamore-pecan/American elm
FSHR9	76	Red maple (wet site)
FSHR9	77	Green ash
FSHR9	78	Black walnut
FSHR9	79	Mixed lowland hardwoods
FSHR9	80	Sugar maple-northern red oak
FSHR9	81	Sugar maple-beech/yellow birch
FSHR9	82	Sugar maple-basswood
FSHR9	83	Black cherry-white ash/yellow poplar
FSHR9	84	Red maple (dry site)
FSHR9	85	Sugar maple
FSHR9	86	Beech
FSHR9	87	Sugar maple-beech-yellow birch/red spruce
FSHR9	88	Black locust
FSHR9	89	Mixed upland hardwoods
FSHR9	90	Sugar maple-beech/basswood
FSHR9	91	Quaking aspen
FSHR9	92	Paper birch
FSHR9	93	Bigtooth aspen
FSHR9	94	Balsam poplar
FSHR9	95	Aspen-white spruce/balsam fir
FSHR9	96	Birch
FSHR9	97	Lowland shrubs
FSHR9	98	Upland shrubs
FSHR9	99	Open
FSHR9	100	Reserved for Midewin Tall Grass Prairie
FSHR9	101	Reserved for Midewin Tall Grass Prairie
FSHR9	102	Reserved for Midewin Tall Grass Prairie
FSHR9	103	Reserved for Midewin Tall Grass Prairie
FSHR9	104	Reserved for Midewin Tall Grass Prairie
FSHR9	105	Reserved for Midewin Tall Grass Prairie
FSHR9	106	Reserved for Midewin Tall Grass Prairie
FSHR9	107	Reserved for Midewin Tall Grass Prairie
FSHR9	108	Reserved for Midewin Tall Grass Prairie
FSHR9	109	Reserved for Midewin Tall Grass Prairie
PNW	AB	Buildings, structures, roads, campgrounds
PNW	AC	Cultivated lands
PNW	AG	Grassland; permanent pasture that is maintained in forest, shrub, or desert climates
PNW	AO	Orchards; maintained exotic forest stands
PNW	AR	Recreation areas; parks, golf courses, or play areas
PNW	AX	Administrative or agricultural (no descriptor specified)
PNW	CA	Alpine open, forest park
PNW	CC	Western redcedar
PNW	CD	Douglas-fir
PNW	CE	Subalpine fir, Engelmann spruce
PNW	CF	Silver or noble fir

**NRV\_EV\_COVER\_TYPES (cont.)**

Ref Code	EV Code	Common Name
PNW	CH	Hemlock, western
PNW	CJ	Juniper, western
PNW	CL	Lodgepole pine
PNW	CM	Mountain hemlock
PNW	CP	Ponderosa, Jeffery pine
PNW	CR	Red fir
PNW	CS	Sitka spruce
PNW	CW	Grand or white fir
PNW	CX	Coniferous forest (no descriptor specified)
PNW	FM	Moist (mesic) forbland
PNW	FS	Subalpine or alpine forbland
PNW	FW	Wet forbland
PNW	FX	Forbland (no descriptor specified)
PNW	GA	Annual grasslands
PNW	GB	Bunchgrasses
PNW	GM	Mesic (forest zone) grasslands
PNW	GR	Rhizomatous grass-sedge
PNW	GS	Subalpine or alpine grass or sedge lands
PNW	GX	PNC grassland (no descriptor specified)
PNW	HA	Alder
PNW	HB	Bigleaf maple
PNW	HC	Cottonwood-ash bottoms
PNW	HL	Canyon live oak tree size
PNW	HO	Oak, Oregon or black
PNW	HQ	Quaking aspen
PNW	HT	Tanoak tree size
PNW	HX	Hardwood woodland or forest (no descriptor specified)
PNW	MD	Dry meadow
PNW	MM	Moist meadow
PNW	MS	Subalpine or alpine wet meadow
PNW	MT	Tule, standing water
PNW	MW	Wet meadow
PNW	MX	Meadow; grass/sedge (no descriptor specified)
PNW	NC	Cinders, lava flow, mud flow, glacial wash; continuous disturbance or low site potential precludes vegetation reaching over 10 percent crown cover
PNW	NF	Flood plain periodically denuded of vegetation with no foreseeable means of establishing plants
PNW	NI	Ice fields, glaciers, perennial snow
PNW	NL	Landform failure, natural slumps, avalanches, avalanche trails with little practical means of establishing vegetative cover
PNW	NM	Mine tailings, dredging; human-caused disturbances, which has little current vegetation potential
PNW	NR	Rocky lands with too little soil (or no soil) for good vegetative cover
PNW	NS	Sand with minimal vegetative cover; shoreline or interior dunes
PNW	NT	Talus with minimal vegetative potential
PNW	NX	Nonvegetated land; less than 10 percent crown cover potential (no descriptor specified)
PNW	SC	Chaparral
PNW	SD	Dry shrubland (sagebrush)
PNW	SM	Mesic (forest zone) shrublands

**NRV\_EV\_COVER\_TYPES (cont.)**

Ref Code	EV Code	Common Name
PNW	SS	Subalpine to alpine shrublands
PNW	SW	Wet shrublands
PNW	SX	PNC shrubland (no descriptor specified)
PNW	WL	Lakes, ponds, impoundments; perennial or intermittent
PNW	WR	Running water bodies, streams, rivers, creeks, ditches; perennial or intermittent
PNW	WX	Water-covered areas (no descriptor specified)
R2VEG	FOR	Forbs
R2VEG	FCA	Cattails
R2VEG	GRA	Grass/grass-like
R2VEG	GAF	Arizona Fescue Grassland
R2VEG	GBG	Gamma - Galleta (SRM 502)
R2VEG	GBL	Big and sand bluestems
R2VEG	GCG	Cheatgrass
R2VEG	GEX	Planted grasslands (exotic species)
R2VEG	GFE	Fescue grasslands (SRM 613)
R2VEG	GLB	Little and silver bluestems
R2VEG	GNE	Needle-and-thread, needlegrasses
R2VEG	GOA	Oatgrass grassland
R2VEG	GPO	Bluegrass Scabland (SRM 106)
R2VEG	GRU	Rushes
R2VEG	GSO	Sideoats grama
R2VEG	GWE	Tufted hairgrass - sedge (SRM 313)
R2VEG	GWH	Wheatgrass - saltgrass - grama (SRM615)
R2VEG	NBA	Bare
R2VEG	NDV	Urban or built-up land
R2VEG	NFL	Non-vegetated sites, cover not identified
R2VEG	NIC	Permanent ice and snow
R2VEG	NPT	Strip mines, quarries, and gravel pits
R2VEG	NRK	Rock/soil
R2VEG	NRO	Rights-of-way
R2VEG	NUR	Urban residential areas
R2VEG	SHR	Shrubs
R2VEG	SAL	Alder (SRM 901)
R2VEG	SBB	Bitterbrush (SRM 210)
R2VEG	SGO	Gambel oak (SRM 413)
R2VEG	SMS	True mountain-mahogany (SRM 416)
R2VEG	SSA	Sagebrush
R2VEG	SSC	Saltcedar
R2VEG	SSG	Saltbush - greasewood (SRM501)
R2VEG	SSN	Snowberry (SRM 420)
R2VEG	SSO	Serviceberry - oak
R2VEG	SWI	Willow (SRM 921)
R2VEG	TRE	Trees
R2VEG	TAA	Aspen (SAF 217)
R2VEG	TAE	Green ash
R2VEG	TBC	Bristlecone pine (SAF 209)
R2VEG	TBO	Bur oak (SAF 236)
R2VEG	TBS	Blue spruce (SAF 216)

**NRV\_EV\_COVER\_TYPES (cont.)**

Ref Code	EV Code	Common Name
R2VEG	TCW	Cottonwood (SAF 235)
R2VEG	TDF	Douglas fir (SAF 210)
R2VEG	TER	Eastern red-cedar (SAF 045, Nebraska)
R2VEG	TGO	Gambel oak
R2VEG	TJF	Jeffery pine (SAF 247)
R2VEG	TLI	Limber pine (SAF 219)
R2VEG	TLP	Lodgepole pine (SAF 218)
R2VEG	TOH	Other hardwoods
R2VEG	TOS	Other softwoods
R2VEG	TPB	Paper birch (SAF 252)
R2VEG	TPJ	Pinyon/juniper (SAF 239)
R2VEG	TPP	Ponderosa pine (SAF 237)
R2VEG	TRJ	Rocky mountain juniper
R2VEG	TSC	Salt cedar
R2VEG	TSF	Spruce/fir (SAF 206)
R2VEG	TWB	Whitebark pine (SAF 208)
R2VEG	TWF	White fir (SAF 211)
R2VEG	TWS	White spruce (SAF 201)
R2VEG	WAT	Water
R2VEG	WRE	Reservoirs and impoundments
RPA	100	White-Red-Jack pine
RPA	110	Spruce-Fir
RPA	120	Longleaf-Slash Pine
RPA	130	Loblolly-Shortleaf Pine
RPA	140	Oak-Pine
RPA	150	Oak-Hickory
RPA	160	Oak-Gum-Cypress
RPA	170	Elm-Ash-Cottonwood
RPA	180	Maple-Beech-Birch
RPA	190	Aspen-Birch
RPA	198	Other Forest Types
RPA	199	Non-stocked
RPA	200	Douglas-fir
RPA	210	Ponderosa Pine
RPA	220	Western White Pine
RPA	230	Fir-Spruce
RPA	240	Hemlock-Sitka Spruce
RPA	250	Larch
RPA	260	Lodgepole Pine
RPA	270	Redwood
RPA	280	Other Hardwoods
RPA	290	Unclassified and Other Forest Types
RPA	293	Pinyon-Juniper
RPA	297	Chaparral
RPA	299	Nonstocked
RPA	EFT	Eastern Forest Types
RPA	WFT	Western Forest Types
SAF	000	Non Forest Types

**NRV\_EV\_COVER\_TYPES (cont.)**

Ref Code	EV Code	Common Name
SAF	1	Jack Pine
SAF	5	Balsam Fir
SAF	12	Black Sruce
SAF	13	Black spruce-tamarack
SAF	14	Northern pin oak
SAF	15	Red pine
SAF	16	Aspen
SAF	17	Pin cherry
SAF	18	Paper birch
SAF	19	Gray birch-red maple
SAF	20	White pine-northern red oak-red maple
SAF	21	Eastern white pine
SAF	22	Eastern pine-hemlock
SAF	23	Eastern hemlock
SAF	24	Hemlock-yellow birch
SAF	25	Sugar maple-beech-yellow birch
SAF	26	Sugar maple-basswood
SAF	27	Sugar maple
SAF	28	Black cherry-maple
SAF	30	Red spruce-yellow birch
SAF	31	Red spruce-sugar maple-beech
SAF	32	Red spruce
SAF	33	Red spruce-balsam fir
SAF	34	Red spruce-Fraser fir
SAF	35	Paper birch-red spruce-balsam fir
SAF	37	Northern white-cedar
SAF	38	Tamarack
SAF	39	Black ash-American elm-red maple
SAF	40	Post oak-blackjack oak
SAF	42	Bur oak
SAF	43	Bear oak
SAF	44	Chestnut oak
SAF	45	Pitch pine
SAF	46	Eastern redcedar
SAF	50	Black locust
SAF	51	White pine-chestnut oak
SAF	52	White oak-black oak-northern red oak
SAF	53	White oak
SAF	55	Northern red oak
SAF	57	Yellow-poplar
SAF	58	Yellow-poplar-eastern hemlock
SAF	59	Yellow-poplar-white oak-northern red oak
SAF	60	Beech-Sugar maple
SAF	61	River birch-sycamore
SAF	62	Silver maple-American elm
SAF	63	Cottonwood
SAF	64	Sassafras-persimmon
SAF	65	Pin oak-sweetgum



**NRV\_EV\_COVER\_TYPES (cont.)**

Ref Code	EV Code	Common Name
SAF	66	Ashe juniper-redberry (Pinchot) juniper
SAF	67	Mohrs (shin) oak
SAF	68	Mesquite
SAF	69	Sand pine
SAF	70	Longleaf pine
SAF	71	Longleaf pine-scrub oak
SAF	72	Southern scrub oak
SAF	73	Southern redcedar
SAF	74	Cabbage palmetto
SAF	75	Shortleaf pine
SAF	76	Shortleaf pine-oak
SAF	78	Virginia pine-oak
SAF	79	Virginia pine
SAF	80	Loblolly pine-shortleaf pine
SAF	81	Loblolly pine
SAF	82	Loblolly pine-hardwood
SAF	83	Longleaf pine-slash pine
SAF	84	Slash pine
SAF	85	Slash pine-hardwood
SAF	87	Sweetgum-yellow-poplar
SAF	88	Willow oak-water oak-diamondleaf oak
SAF	89	Live oak
SAF	91	Swamp chestnut oak-cherrybark oak
SAF	92	Sweetgum-willow oak
SAF	93	Sugarberry-American elm-green ash
SAF	94	Sycamore-sweetgum-American elm
SAF	95	Black willow
SAF	96	Overcup oak-water hickory
SAF	97	Atlantic white-cedar
SAF	98	Pond pine
SAF	100	Pondcypress
SAF	101	Baldcypress
SAF	102	Baldcypress-tupelo
SAF	103	Water tupelo-swamp tupelo
SAF	104	Sweetbay-swamp tupelo-redbay
SAF	105	Tropical hardwoods
SAF	106	Mangrove
SAF	107	White spruce
SAF	108	Red maple
SAF	109	Hawthorn
SAF	110	Black oak
SAF	111	South Florida slash pine
SAF	201	White spruce
SAF	202	White spruce-paper birch
SAF	203	Balsam poplar
SAF	204	Black spruce
SAF	205	Mountain hemlock
SAF	206	Engelmann spruce-subalpine fir

**NRV\_EV\_COVER\_TYPES (cont.)**

Ref Code	EV Code	Common Name
SAF	207	Red fir
SAF	208	Whitebark pine
SAF	209	Bristlecone pine
SAF	210	Interior Douglas-fir
SAF	211	White fir
SAF	212	Western larch
SAF	213	Grand fir
SAF	215	Western white pine
SAF	216	Blue spruce
SAF	217	Aspen
SAF	218	Lodgepole pine
SAF	219	Limber pine
SAF	220	Rocky Mountain juniper
SAF	221	Red alder
SAF	222	Black cottonwood-willow
SAF	223	Sitka spruce
SAF	224	Western hemlock
SAF	225	Western hemlock-Sitka spruce
SAF	226	Coastal true fir-hemlock
SAF	227	Western redcedar-western hemlock
SAF	228	Western redcedar
SAF	229	Pacific Douglas-fir
SAF	230	Douglas-fir-western hemlock
SAF	231	Port Orford-cedar
SAF	232	Redwood
SAF	233	Oregon white oak
SAF	234	Douglas-fir-tanoak-Pacific madrone
SAF	235	Cottonwood-willow
SAF	236	Bur oak
SAF	237	Interior ponderosa pine
SAF	238	Western juniper
SAF	239	Pinyon-juniper
SAF	240	Arizona cypress
SAF	241	Western live oak
SAF	242	Mesquite
SAF	243	Sierra Nevada mixed conifer
SAF	244	Pacific ponderosa pine-Douglas-fir
SAF	245	Pacific ponderosa pine
SAF	246	California black oak
SAF	247	Jeffrey pine
SAF	248	Knobcone pine
SAF	249	Canyon live oak
SAF	250	Blue oak-digger pine
SAF	251	White spruce-aspen
SAF	252	Paper birch
SAF	253	Black spruce-white spruce
SAF	254	Black spruce-paper birch
SAF	255	California coast live oak

**NRV\_EV\_COVER\_TYPES (cont.)**

Ref Code	EV Code	Common Name
SAF	256	California mixed subalpine
SAF	260	California Cypress
SAF	261	Calif. Coastal Conifers
SAF	262	Hard Chaparral
SAF	BFR	Boreal Forest Region
SAF	CFR	Central Forest Region
SAF	NFR	Northern Forest Region
SAF	SFR	Southern Forest Region
SRM	001	Urban
SRM	002	Agriculture
SRM	004	Forest Land
SRM	005	Water
SRM	007	Barren Land
SRM	000	Non-vegetated
SRM	101	Bluebunch wheatgrass
SRM	102	Idaho fescue
SRM	103	Green fescue
SRM	104	Antelope bitterbrush-bluebunch wheatgrass
SRM	105	Antelope bitterbrush-Idaho fescue
SRM	106	Bluegrass scabland
SRM	107	Western juniper-big sagebrush-bluebunch wheatgrass
SRM	108	Alpine Idaho fescue
SRM	109	Ponderosa pine-shrubland
SRM	110	Ponderosa pine-grassland
SRM	201	Blue oak woodland
SRM	202	Coast live oak woodland
SRM	203	Riparian woodland
SRM	204	North coastal shrub
SRM	205	Coastal sage shrub
SRM	206	Chamise chaparral
SRM	207	Scrub oak mixed chaparral
SRM	208	Ceanothus mixed chaparral
SRM	209	Montane shrubland
SRM	210	Bitterbrush
SRM	211	Creosote bush scrub
SRM	212	Blackbush
SRM	213	Alpine grassland
SRM	214	Coastal prairie
SRM	215	Valley grassland
SRM	216	Montane meadows
SRM	217	Wetlands
SRM	301	Bluebunch wheatgrass-blue grama
SRM	302	Bluebunch wheatgrass-Sandberg bluegrass
SRM	303	Bluebunch wheatgrass-western wheatgrass
SRM	304	Idaho fescue-bluebunch wheatgrass
SRM	305	Idaho fescue-Richardson needlegrass
SRM	306	Idaho fescue-slender wheatgrass
SRM	307	Idaho fescue-threadleaf sedge
SRM	308	Idaho fescue-tufted hairgrass

**NRV\_EV\_COVER\_TYPES (cont.)**

Ref Code	EV Code	Common Name
SRM	309	Idaho fescue-western wheatgrass
SRM	310	Needle-and-thread-blue grama
SRM	311	Rough fescue-bluebunch wheatgrass
SRM	312	Rough fescue-Idaho fescue
SRM	313	Tufted hairgrass-sedge
SRM	314	Big sagebrush-bluebunch wheatgrass
SRM	315	Big sagebrush-Idaho fescue
SRM	316	Big sagebrush-rough fescue
SRM	317	Bitterbrush-bluebunch wheatgrass
SRM	318	Bitterbrush-Idaho fescue
SRM	319	Bitterbrush-rough fescue
SRM	320	Black sagebrush-bluebunch wheatgrass
SRM	321	Black sagebrush-Idaho fescue
SRM	322	Curleaf mountain-mahogany-bluebunch wheatgrass
SRM	323	Shrubby cinquefoil-rough fescue
SRM	324	Threetip sagebrush-Idaho fescue
SRM	401	Basin big sagebrush
SRM	402	Mountain big sagebrush
SRM	403	Wyoming big sagebrush
SRM	404	Threetip sagebrush
SRM	405	Black sagebrush
SRM	406	Low sagebrush
SRM	407	Stiff sagebrush
SRM	408	Other sagebrush types
SRM	409	Tall forb
SRM	410	Alpine rangeland
SRM	411	Aspen woodland
SRM	412	Juniper-pinyon woodland
SRM	413	Gambel oak
SRM	414	Salt desert shrub
SRM	415	Curleaf mountain-mahogany
SRM	416	True mountain-mahogany
SRM	417	Littleleaf mountain-mahogany
SRM	418	Bigtooth maple
SRM	419	Bittercherry
SRM	420	Snowbush
SRM	421	Chokecherry-serviceberry-rose
SRM	422	Riparian
SRM	501	Saltbush-greasewood
SRM	502	Grama-galleta
SRM	503	Arizona chapparal
SRM	504	Juniper-pinyon pine woodland
SRM	505	Grama-tobosa shrub
SRM	506	Creosotebush-bursage
SRM	507	Palo Verde-cactus
SRM	508	Creosotebush-tarbush
SRM	509	Oak-juniper woodland and mahogany-oak
SRM	601	Bluestem prairie
SRM	602	Bluestem-prairie sandreed

**NRV\_EV\_COVER\_TYPES (cont.)**

Ref Code	EV Code	Common Name
SRM	603	Prairie sandreed-needlegrass
SRM	604	Bluestem-grama prairie
SRM	605	Sandsage prairie
SRM	606	Wheatgrass-bluestem-needlegrass
SRM	607	Wheatgrass-needlegrass
SRM	608	Wheatgrass-gama-needlegrass
SRM	609	Wheatgrass-gama
SRM	610	Wheatgrass
SRM	611	Blue grama-buffalograss
SRM	612	Sagebrush-grass
SRM	613	Fescue grassland
SRM	614	Crested wheatgrass
SRM	615	Wheatgrass-saltgrass-grama
SRM	701	Alkali sacaton-tobosagrass
SRM	702	Black grama-alkali sacaton
SRM	703	Black grama-sideoats grama
SRM	704	Blue grama-western wheatgrass
SRM	705	Blue grama-galleta
SRM	706	Blue grama-sideoats grama
SRM	707	Blue grama-sideoats grama-black grama
SRM	708	Bluestem-dropseed
SRM	709	Bluestem-grama
SRM	710	Bluestem prairie
SRM	711	Bluestem-Sacahuista prairie
SRM	712	Galleta-alkali sacaton
SRM	713	Grama-muhly-threeawn
SRM	714	Grama-bluestem
SRM	715	Grama-buffalograss
SRM	716	Grama-feathergrass
SRM	717	Little bluestem-Indiangrass-Texas wintergrass
SRM	718	Mesquite-grama
SRM	719	Mesquite-liveoak-seacoast bluestem
SRM	720	Sand bluestem-little bluestem dunes
SRM	721	Sand bluestem-little bluestem plains
SRM	722	Sand sagebrush-mixed prairie
SRM	723	Sea oats
SRM	724	Sideoats grama-New Mexico feathergrass-winterfat
SRM	725	Vine mesquite-alkali sacaton
SRM	726	Cordgrass
SRM	727	Mesquite-buffalograss
SRM	728	Mesquite-Granjeno-acacia
SRM	729	Mesquite
SRM	730	Sand shinnery oak
SRM	731	Cross timbers-Oklahoma
SRM	732	Cross timbers-Texas (little bluestem-post oak)
SRM	733	Juniper-oak
SRM	734	Mesquite-oak
SRM	735	Sideoats grama-sumac-juniper
SRM	801	Savanna

**NRV\_EV\_COVER\_TYPES (cont.)**

Ref Code	EV Code	Common Name
SRM	802	Missouri prairie
SRM	803	Missouri glades
SRM	804	Tall fescue
SRM	805	Riparian
SRM	806	Gulf coast salt marsh
SRM	807	Gulf coast fresh marsh
SRM	808	Sand pine scrub
SRM	809	Mixed hardwood and pine
SRM	810	Longleaf pine-turkey oak hills
SRM	811	South Florida flatwoods
SRM	812	North Florida flatwoods
SRM	813	Cutthroat seeps
SRM	814	Cabbage palms flatwoods
SRM	815	Upland hardwood hammocks
SRM	816	Cabbage palm hammocks
SRM	817	Oak hammocks
SRM	818	Florida salt marsh
SRM	819	Freshwater marsh and ponds
SRM	820	Everglades flatwoods
SRM	821	Pitcher plant bogs
SRM	822	Slough
SRM	901	Alder
SRM	902	Alpine herb
SRM	903	Beach wildrye-mixed forb
SRM	904	Black spruce-lichen
SRM	905	Bluejoint reedgrass
SRM	906	Broadleaf forest
SRM	907	Dryas
SRM	908	Fescue
SRM	909	Freshwater marsh
SRM	910	Hairgrass
SRM	911	Lichen tundra
SRM	912	Low scrub shrub birch-ericaceous
SRM	913	Low scrub swamp
SRM	914	Mesic sedge-grass-herb meadow tundra
SRM	915	Mixed herb-herbaceous
SRM	916	Sedge-shrub tundra
SRM	917	Tall shrub swamp
SRM	918	Tussock tundra
SRM	919	Wet meadow tundra
SRM	920	White spruce-paper birch
SRM	921	Willow
TSMRSR1	ASP	Aspen
TSMRSR1	BGA	Birch - Green ash, Boxelder, red alder
TSMRSR1	C	Western redcedar
TSMRSR1	CW	Cottonwood
TSMRSR1	DF	Douglas-fir
TSMRSR1	GF	Grand fir
TSMRSR1	J	Juniper

**NRV\_EV\_COVER\_TYPES (cont.)**

Ref Code	EV Code	Common Name
TSMRSR1	L	Larch
TSMRSR1	LP	Lodgepole pine
TSMRSR1	MAF	Mountain hemlock – Subalpine fir
TSMRSR1	NF	Nonforest
TSMRSR1	PP	Ponderosa pine
TSMRSR1	SAF	Spruce – Subalpine fir
TSMRSR1	WH	Western hemlock
TSMRSR1	WLP	Whitebark – Limber pine
TSMRSR1	WP	Western white pine
TSMRSR1	WSL	Whitebark – limber pine, subalpine larch
1001	1001	Lutz's spruce/Sitka alder
1001	1002	Lutz's spruce/Sitka alder-rusty menziesia
1001	1003	Lutz's spruce/bluejoint
1001	1004	Lutz's spruce/spreading woodfern
1001	1005	Lutz's spruce/devilsclub
1001	1006	Lutz's spruce/field horsetail
1001	1007	Lutz's spruce/western oakfern
1001	1008	Lutz's spruce/twinflower
1001	1009	Lutz's spruce/rusty menziensia
1001	1010	Lutz's spruce/rusty menziensia (sparse)
1001	1011	Lutz's spruce/lingonberry
1001	1012	Lutz's spruce/Sitka alder-devilsclub
1001	1013	Lutz's spruce/Sitka alder/bluejoint/field horsetail
1001	1014	Lutz's spruce/bluejoint/field horsetail
1001	1015	Lutz's spruce/bluejoint/western oakfern
1001	1016	Lutz's spruce/rusty menziensia/strawberryleaf raspberry
1001	1017	Lutz's spruce/rusty menziensia/strawberryleaf raspberry-bluejoint
1001	1018	Lutz's spruce/Barclay's willow
1001	1019	Lutz's spruce/red elderberry/fireweed
1001	1020	Lutz's spruce/dwarf bilberry
1001	1021	Lutz's spruce/bog blueberry
1001	1101	black spruce/Sitka alder
1001	1102	black spruce/lingonberry
1001	1103	black spruce/Sitka alder/bluejoint/field horsetail
1001	1104	black spruce/Sitka alder/shrubby cinquefoil
1001	1105	black spruce/black crowberry
1001	1106	black spruce/marsh Labrador tea/cloudberry
1001	1107	black spruce/shrubby cinquefoil/beachhead iris
1001	1108	black spruce/cloudberry/field horsetail
1001	1109	black spruce/bog blueberry
1001	1201	Sitka spruce/Sitka alder
1001	1202	Sitka spruce/Sitka alder-devilsclub
1001	1203	Sitka spruce/devilsclub
1001	1204	Sitka spruce/field horsetail
1001	1205	Sitka spruce/splendid feather moss
1001	1206	Sitka spruce/American skunkcabbage
1001	1207	Sitka spruce/salmonberry-devilsclub
1001	1208	Sitka spruce/Barclay's willow
1001	1209	Sitka spruce/oval-leaf blueberry

**NRV\_EV\_COVER\_TYPES (cont.)**

Ref Code	EV Code	Common Name
1001	1210	Sitka spruce/oval-leaf blueberry-devilsclub
1001	1211	Sitka spruce/oval-leaf blueberry/spreading woodfern
1001	1301	western hemlock/splendid feather moss
1001	1302	western hemlock/oval-leaf blueberry
1001	1303	western hemlock/oval-leaf blueberry-devilsclub
1001	1304	western hemlock/oval-leaf blueberry/spreading woodfern
1001	1305	western hemlock/oval-leaf blueberry/American skunkcabbage
1001	1306	western hemlock/oval-leaf blueberry/grass
1001	1307	western hemlock/oval-leaf blueberry/grass
1001	1401	western hemlock-Sitka spruce/devilsclub
1001	1402	western hemlock-Sitka spruce/salmonberry-devilsclub
1001	1403	western hemlock-Sitka spruce/oval-leaf blueberry
1001	1404	western hemlock-Sitka spruce/oval-leaf blueberry-devilsclub
1001	1405	western hemlock-Sitka spruce/oval-leaf blueberry/American skunkcabbage
1001	1406	western hemlock-Sitka spruce/oval-leaf blueberry/grass
1001	1501	mountain hemlock/Sitka alder
1001	1502	mountain hemlock/Sitka alder-rusty menziesia
1001	1503	mountain hemlock/Alaska bellheather
1001	1504	mountain hemlock/spreading woodfern
1001	1505	mountain hemlock/devilsclub
1001	1506	mountain hemlock/splendid feather moss
1001	1507	mountain hemlock/rusty menziesia
1001	1508	mountain hemlock/rusty menziesia-lingonberry
1001	1509	mountain hemlock/rusty menziesia (sparse)
1001	1510	mountain hemlock/Aleutian mountainheath
1001	1511	mountain hemlock/oval-leaf blueberry
1001	1512	mountain hemlock/oval-leaf blueberry/Alaska bellheather
1001	1513	mountain hemlock/oval-leaf blueberry/copperbush
1001	1514	mountain hemlock/oval-leaf blueberry-devilsclub
1001	1515	mountain hemlock/oval-leaf blueberry-rusty menziesia
1001	1516	mountain hemlock/oval-leaf blueberry/Pacific reedgrass
1001	1517	mountain hemlock/oval-leaf blueberry/deercabbage
1001	1518	mountain hemlock/bog blueberry
1001	1519	mountain hemlock/lingonberry
1001	1520	mountain hemlock (krumholtz)
1001	1521	mountain hemlock/black crowberry-blueberry (dwarf tree scrub)
1001	1522	mountain hemlock/rusty menziesia-black crowberry
1001	1523	mountain hemlock/rusty menziesia-twinflower
1001	1524	mountain hemlock/oval-leaf blueberry/grass
1001	1525	mountain hemlock/oval-leaf blueberry/grass (etc.)
1001	1601	mountain hemlock-Alaska cedar/oval-leaf blueberry-Alaska bellheather
1001	1701	mountain hemlock-Lutz's spruce/devilsclub
1001	1702	mountain hemlock-Lutz's spruce/splendid feather moss
1001	1703	mountain hemlock-Lutz's spruce/rusty menziesia
1001	1704	mountain hemlock-Lutz's spruce/rusty menziesia-lingonberry
1001	1705	mountain hemlock-Lutz's spruce/rusty menziesia (sparse)
1001	1706	mountain hemlock-Lutz's spruce/rusty menziesia-blueberry
1001	1751	mountain hemlock-black spruce/rusty menziesia/strawberryleaf raspberry
1001	1801	mountain hemlock-Sitka spruce/devilsclub



**NRV\_EV\_COVER\_TYPES (cont.)**

Ref Code	EV Code	Common Name
1001	1802	mountain hemlock-Sitka spruce/oval-leaf blueberry
1001	1803	mountain hemlock-Sitka spruce/oval-leaf blueberry-devilsclub
1001	1804	mountain hemlock-Sitka spruce/oval-leaf blueberry-strawberleaf raspberry
1001	1805	mountain hemlock-Sitka spruce/oval-leaf blueberry/spreading woodfern ssp. dilatata
1001	1806	mountain hemlock-Sitka spruce/oval-leaf blueberry/American skunkcabbage
1001	1807	mountain hemlock-Sitka spruce/American skunkcabbage/grass
1001	1901	mountain hemlock-western hemlock/oval-leaf blueberry
1001	1902	mountain hemlock-western hemlock/oval-leaf blueberry-Alaska bellheather
1001	1903	mountain hemlock-western hemlock/oval-leaf blueberry-copperbush
1001	1904	mountain hemlock-western hemlock/oval-leaf blueberry-devilsclub
1001	1905	mountain hemlock-western hemlock/oval-leaf blueberry-rusty meniesia
1001	1906	mountain hemlock-western hemlock/oval-leaf blueberry/Pacific reedgrass
1001	1907	mountain hemlock-western hemlock/oval-leaf blueberry/deercabbage
1001	1909	western hemlock-mountain hemlock/oval-leaf blueberry
1001	1910	western hemlock-mountain hemlock/oval-leaf blueberry-devilsclub
1001	1911	western hemlock-mountain hemlock/oval-leaf blueberry/grass
1001	1912	western hemlock-mountain hemlock/oval-leaf blueberry/American skunkcabbage
1001	1913	mountain hemlock-western hemlock/oval-leaf blueberry/grass
1001	1914	mountain hemlock-western hemlock/oval-leaf blueberry/grass (etc.)
1001	2001	paper birch/Sitka alder
1001	2002	paper birch/Pacific reedgrass
1001	2003	paper birch/devilsclub
1001	2004	paper birch/twinflower
1001	2005	paper birch/rusty meniesia
1001	2006	paper birch/rusty menziesia (sparse)
1001	2007	paper birch/lingonberry
1001	2008	paper birch/Sitka alder/bluejoint
1001	2009	paper birch/dwarf birch/bog blueberry
1001	2010	paper birch/willow-sweetgale/bluejoint
1001	2011	paper birch/willow/bog blueberry
1001	2012	paper birch/red elderberry/spreading woodfern
1001	2051	paper birch-balsam poplar/mountain alder/bluejoint
1001	2101	black cottonwood/Sitka alder
1001	2102	black cottonwood/devilsclub
1001	2103	black cottonwood/Sitka alder-willow
1001	2104	black cottonwood/Sitka alder/bluejoint
1001	2105	black cottonwood/Sitka alder/devilsclub
1001	2106	black cottonwood/devilsclub/common cowparsnip
1001	2107	black cottonwood/willow/lichen
1001	2201	quaking aspen/russet buffaloberry
1001	2202	quaking aspen/bluejoint/western oakfern
1001	2203	quaking aspen/russet buffaloberry-squashberry
1001	2204	quaking aspen/russet buffaloberry/kinnikinnick
1001	2205	quaking aspen/lingonberry
1001	3001	Lutz's spruce-paper birch/bluejoint
1001	3002	Lutz's spruce-paper birch/splendid feather moss
1001	3003	Lutz's spruce-paper birch/stiff clubmoss

**NRV\_EV\_COVER\_TYPES (cont.)**

Ref Code	EV Code	Common Name
1001	3004	Lutz's spruce-paper birch/rusty menziesia
1001	3005	Lutz's spruce-paper birch/rusty menziesia (sparse)
1001	3006	Lutz's spruce-paper birch/lingonberry
1001	3007	Lutz's spruce-paper birch/Sitka alder
1001	3101	Lutz's spruce-black cottonwood/Sitka alder
1001	3102	Lutz's spruce-black cottonwood/bluejoint
1001	3103	Lutz's spruce-black cottonwood/devilsclub
1001	3104	Lutz's spruce-black cottonwood/field horsetail
1001	3105	Lutz's spruce-black cottonwood/splendid feather moss
1001	3201	Lutz's spruce-quaking aspen/lingonberry
1001	3301	Sitka spruce-black cottonwood/Sitka alder
1001	3302	black cottonwood-Lutz's spruce/Sitka alder
1001	3303	black cottonwood-Lutz's spruce/moutain alder/devilsclub
1001	3304	black cottonwood-Lutz's spruce/willow/lichen
1001	3401	mountain hemlock-paper birch/splendid feather moss
1001	3402	mountain hemlock-paper birch/stiff clubmoss
1001	3403	mountain hemlock-paper birch/rusty menziesia
1001	3404	mountain hemlock-paper birch/rusty menziesia (sparse)
1001	4000	Sitka alder
1001	4001	Sitka alder-devilsclub
1001	4002	Sitka alder-undergreen willow
1001	4003	Sitka alder/common ladyfern
1001	4004	Sitka alder/bluejoint
1001	4005	Sitka alder/spreading woodfern
1001	4006	Sitka alder/field horsetail
1001	4007	Sitka alder-salmonberry
1001	4008	Sitka alder-salmonberry/common ladyfern
1001	4009	Sitka alder/feltleaf willow
1001	4010	Sitka alder-feltleaf willow/bluejoint
1001	4011	Sitka alder-Barclay's willow
1001	4012	Sitka alder-Sitka willow
1001	4013	Sitka alder-Sitka willow/bluejoint
1001	4014	feltleaf willow
1001	4015	Barclay's willow/bluejoint
1001	4016	Barclay's willow/Sitka sedge
1001	4017	Barclay's willow/forb
1001	4018	undergreen willow
1001	4019	dune willow
1001	4020	Sitka willow
1001	4021	Sitka alder-willow
1001	4022	Sitka alder-willow/bluejoint
1001	4023	Sitka alder-willow/black cottonwood
1001	4024	Sitka alder/black cottonwood
1001	4025	willow
1001	4026	willow/bluejoint
1001	4027	willow/horsetail
1001	4028	Sitka willow/purple marshlocks/bluejoint
1001	4101	dwarf birch
1001	4102	copperbush

**NRV\_EV\_COVER\_TYPES (cont.)**

Ref Code	EV Code	Common Name
1001	4103	sweetgale-Barclay's willow
1001	4104	sweetgale-undergreen willow
1001	4105	sweetgale-dune willow
1001	4106	sweetgale/bluejoint
1001	4107	sweetgale/Lyngbye's sedge
1001	4108	sweetgale/Sitka sedge
1001	4109	sweetgale/tall cottongrass
1001	4110	salmonberry
1001	4111	salmonberry/common ladyfern
1001	4112	salmonberry/bluejoint
1001	4113	dwarf birch/sedge
1001	4114	heath (bog, open low scrub)
1001	4115	sweetgale
1001	4116	willow-sweetgale
1001	4117	willow-sweetgale/bluejoint
1001	4118	willow-sweetgale/sedge
1001	4119	willow-sweetgale/horsetail
1001	4201	Alaska bellheather-partridgefoot
1001	4202	Alaska bellheather-partridgefoot/deercabbage
1001	4203	eightpetal mountain-avens/alpine sweetgrass
1001	4204	black crowberry
1001	4205	black crowberry-alpine kinnikinnick
1001	4206	black crowberry-bog blueberry
1001	4207	black crowberry-bog blueberry-manyflower sedge
1001	4208	black crowberry-bog blueberry/deercabbage
1001	4209	black crowberry-bog blueberry/tufted bulrush
1001	4210	Aleutian mountainheath-Alaska bellheather
1001	4211	Aleutian mountainheath/deercabbage
1001	4212	arctic willow-black crowberry
1001	4213	arctic willow/Lyngbye's sedge
1001	4214	netleaf willow/Altai fescue
1001	4215	least willow/smallawned sedge
1001	5001	pendantgrass
1001	5002	bluejoint
1001	5003	bluejoint/willow
1001	5004	water sedge
1001	5005	Lyngbye's sedge
1001	5006	Lyngbye's sedge/marsh pea
1001	5007	Lyngbye's sedge/alkali buttercup
1001	5008	Lyngbye's sedge/forbs
1001	5009	longawn sedge
1001	5010	smallawned sedge
1001	5011	fewflower sedge
1001	5012	manyflower sedge
1001	5013	beaked sedge
1001	5014	Sitka sedge
1001	5015	tufted hairgrass
1001	5016	common spikerush
1001	5017	sand ryegrass

**NRV\_EV\_COVER\_TYPES (cont.)**

Ref Code	EV Code	Common Name
1001	5018	sand ryegrass/boreal yarrow
1001	5019	tall cottongrass-fewflower sedge
1001	5020	tall cottongrass-manyflower sedge
1001	5021	tall cottongrass-tufted bulrush
1001	5022	Altai fescue
1001	5023	Altai fescue/woolly geranium
1001	5024	Wahlenberg's woodrush
1001	5025	dwarf alkaligrass
1001	5026	tufted bulrush
1001	5027	sedge
1001	5028	sedge-tufted bulrush
1001	5029	sedge/water horsetail
1001	5030	sedge/shrub
1001	5031	tufted hairgrass
1001	5032	tall cottongrass
1001	5101	common ladyfern
1001	5102	fireweed
1001	5103	field horsetail
1001	5104	water horsetail
1001	5105	variegated scouringrush
1001	5106	deercabbage
1001	5107	deercabbabe/tufted bulrush
1001	5108	beach strawberry
1001	5109	beach pea
1001	5110	Nootka lupine
1001	5111	buckbean
1001	5112	Pacific silverweed
1001	5113	purple marshlocks
1001	5114	Sitka valerian
1001	5115	green false hellebore
1001	5116	fireweed/bluejoint
1001	5117	fireweed/bluejoint/field horsetail/western oakfern
1001	5118	horsetail
1001	5119	horsetail-purple marshlocks
1001	5120	buckbean-horsetail
1001	5121	buckbean-purple marshlocks
1001	5201	northern water-starwort
1001	5202	common mare's-tail
1001	5203	shortspike watermilfoil
1001	5204	fineleaf pondweed
1001	5205	claspingleaf pondweed
1001	5206	threadleaf crowfoot
1001	5207	bur-reed
1001	5208	waterawtwort
1001	5209	common bladderwort
1001	6000	water
1001	7000	barren
1003	125005	<i>Picea sitchensis</i> - <i>Populus balsamifera</i> ssp. <i>trichocarpa</i> / <i>Alnus crispa</i> ssp. <i>sinuate</i>

**NRV\_EV\_COVER\_TYPES (cont.)**

Ref Code	EV Code	Common Name
1003	125010	Picea sitchensis-Populus balsamifera ssp. trichocarpa/Echinopanax horridum
1003	125015	Picea sitchensis-Populus balsamifera ssp. trichocarpa/seral
1003	140015	Alnus crispa ssp. sinuata-Malus fusca
1003	140020	Alnus crispa ssp. sinuata-Rubus spectabilis
1003	140030	Alnus crispa ssp. sinuate/Athyrium-femina
1003	140035	Alnus crispa ssp. sinuate/Calamagrostis Canadensis
1003	145030	Alnus crispa ssp. sinuata-Salix sitchensis
1003	147005	Alnus crispa ssp. sinuate/graminoid
1003	150030	Salix barclayi/Carex pluriflora
1003	150045	Salix barclayi/Fragaria chiloensis
1003	15005	Picea sitchensis/Alnus crispa ssp. sinuata
1003	150055	Salix barclayi/mixed herb
1003	150065	Salix hookeriana
1003	150070	Salix sitchensis
1003	15030	Picea sitchensis/Echinopanax horridum
1003	15060	Picea sitchensis/Hylocomium splendens
1003	15070	Picea sitchensis/Rubus spectabilis-Echinopanax horridum
1003	15080	Picea sitchensis/Vaccinium ovalifolium
1003	15085	Picea sitchensis/Vaccinium ovalifolium-Echinopanax horridum
1003	15095	Picea sitchensis/Vaccinium ovalifolium/Dryopteris dilatata
1003	15105	Picea sitchensis/seral
1003	15110	Picea sitchensis/Sphagnum spp.
1003	165015	Myrica gala/Carex sitchensis
1003	170015	Myrica gala/Carex livida
1003	170020	Myrica gala/Carex pluriflora
1003	170025	Myrica gala/Epilobium angustifolium
1003	170030	Myrica gala/Equisetum Variegatum
1003	190005	Andromeda polifolia/Carex pluriflora
1003	190020	Empetrum nigrum-Vaccinium uliginosum
1003	190040	Empetrum nigrum/Carex Pluriflora
1003	20010	Pinus contorta/empetrum nigrum
1003	20005	Elymus arenarius
1003	245005	Clamagrostis Canadensis
1003	250010	Calamagrostis Canadensis/Potentilla egedii
1003	25010	Tsuga heterophylla/Echinopanax horridum-Rubus spectabilis
1003	25035	Tsuga heterophylla/Vaccinium ovalifolium
1003	25040	Tsuga heterophylla/Vaccinium ovalifolium-Echinopanax horridum
1003	25050	Tsuga heterophylla/Vaccinium ovalifolium/Dryopteris dilata
1003	275025	Trichophorum caespitosum
1003	285015	Carex livida-Trichophorum caespitosum
1003	285025	Carex saxatilis
1003	285035	Carex sitchensis/Equisetum fluviatile
1003	287005	Puccinellia pumila
1003	290010	Carex lyngbyei
1003	290015	Carex lyngbyei-Carex pluriflora
1003	290035	Eleocharis palustris
1003	295020	Carex sitchensis/Oxycoccus palustris
1003	300015	Fragaria chiloensis

**NRV\_EV\_COVER\_TYPES (cont.)**

Ref Code	EV Code	Common Name
1003	300020	Fragaria chiloensis-Achillea borealis
1003	305030	Lupinus nootkatensis/Salix setchelliana
1003	315005	Athyrium filix-femina
1003	320005	Equisetum fluviatile
1003	325015	Menyanthes trifoliata-Equisetum variegatum
1003	327010	Menyanthes trifoliata
1003	327020	Menyanthes trifoliata-Potentilla palustris
1003	335005	Nuphar polysepalum
1003	355005	Myriophyllum sibiricum
1003	45075	Tsuga mertensiana/Vaccinium ovalifolium
1003	70010	Tsuga mertensiana-T. heterophylla/Vaccinium ovalifolium
1003	70030	Tsuga mertensiana-T. heterophylla/Vaccinium ovalifolium/Lysichiton americanus
1003	75030	Mixed conifer/Vaccinium ovalifolium
1003	75050	Mixed conifer/Vaccinium ovalifolium/Lysichiton americanus
1003	90035	Populus balsamifera ssp. trichocarpa/Echinopanax horridum
1003	90055	Populus balsamifera ssp. trichocarpa/Rubus spectabilis
1003	90065	Populus balsamifera ssp. trichocarpa/Salix spp.

**NRV\_EXAM\_PURPOSE\_CODES**

This table contains exam purpose codes.

Name	Type	Description
CREATED_BY <i>Required</i>	VC(30)	The name of the person who created the record.
CREATED_DATE <i>Required</i>	DATE	The date the record was created.
CREATED_IN_INSTANCE <i>Required</i>	N(6)	The database ID where the record was created.
DATA_USE	VC(10)	Contains the use value to indicate if the purpose code is used in the CSe protocols, for legacy data migration, or for FIA data.
DESCRIPTION <i>Required</i>	VC(255)	Description of the stand examination purpose code.
PURPOSE_CODE <i>Required</i>	VC(4)	The purpose of the stand examination.
MODIFIED_BY	VC(30)	The name of the person who modified the record.
MODIFIED_DATE	DATE	The date the record was modified.
MODIFIED_IN_INSTANCE	N(6)	The database ID where the record was modified.
ON_OFF	VC(3)	Flag to display (ON) or hide (OFF) individual stand examination purpose codes.

**NRV\_EXAM\_PURPOSE\_CODES (cont.)**

<b>Code</b>	<b>Description</b>	<b>Data_Use</b>
BR	Blister Rust	
CI	Compartment Inventory	CSE
CP	Control Plot	CSE
CR	Regression estimate from compartment inventory	LEGACY-R01
CS	Strata mean estimate from compartment inventory	LEGACY-R01
CV	Cover Vegetation	
DM	Permanent Dwarf Mistletoe	
EP	Ecology Productivity	
ER	Ecology Reconnaissance	
FI	Forest Inventory	CSE
FL	Fuels	CSE
GL	On ground sampling with low or uncalculated statistical reliability	LEGACY-R03
GS	On ground sampling with statistical reliability showing a standard error of 20% or less	LEGACY-R03
ID	Insect and Disease	CSE
IM	Inventory and Monitoring	CSE
IR	Integrated Inventory	
KW	Kirtland Warbler inventory	CSE
LI	Lidar Inventories	CSE
LP	Line Plots	CSE
LR	Stand exam with less than the required number of plots	LEGACY-R09
MS	Most Similar Neighbor	LEGACY-R01
NC	New component from July 1983 conversion	LEGACY-R01
OF	Office Update	LEGACY-R09
OG	Old Growth	CSE
PE	Plantation Exam	
PH	Post harvest update	LEGACY-R09
PI	Plantation inventory	CSE
PR	Photo Inventory (Remote sensing)	LEGACY-R03
PT	Photo Estimate Unsupported by Field Examination	LEGACY-R01
PU	Photo total update	LEGACY-R09
QP	Quick Plot Exam	
QS	Quick Plot Stand Exam	CSE
RA	Riparian Areas	CSE
RE	Regeneration/Stocking	CSE
RL	Range Inventory: Qualitative	
RN	Range Inventory: Quantitative	
RP	Resource Speciality	CSE
RQ	Stand exam with with required number of of plots	
RR	Permanent Root Rot	CSE
RS	Research Exams	CSE
SE	Stand Exam	CSE
SI	Derived Attributes from Satellite Imagery	
SO	Spotted Owl	CSE
SP	Successional Path	
SS	Stock total update	LEGACY-R09
SU	Ground Surface Cover	LEGACY-R09
SX	SILVEX	
TH	Thinning Exams	CSE
TI	Tree Improvement	CSE

**NRV\_EXAM\_PURPOSE\_CODES (cont.)**

Code	Description	Data_Use
TP	Treatment Plot	CSE
WA	Walk-through	LEGACY-R01
WT	Walk-through with update	LEGACY-R09
WV	Walk-through survey or visual observation	LEGACY-R03
XT	Extrapolation exam	LEGACY-R09

**NRV\_FUEL\_MODELS**

This table contains the various fuel models that are used on the setting and plot forms.

Name	Size	Description
CREATED_BY <i>Required</i>	VC(30)	The name of the person who created the record.
CREATED_DATE <i>Required</i>	DATE	The date the record was created.
FUEL_MODEL <i>Required</i>	VC(3)	The numeric label that identifies a specific fuel model. Every fuel model has its own distinct fuel model number
FUEL_BED_DEPTH	N(5,2)	Fuel bed depth, in feet
FUEL_MODEL_CODE	VC(10)	The Alphanumeric code by which a particular fuel model may be known to some user group. Not all fuel models have a fuel model code. The original 13 fuel models do not have codes.
FUEL_MODEL_NAME	VC(100)	A short, descriptive label that characterizes a fuel model's distinctive vegetative context in terms of identifying the primary material that will support fire through it.
FUEL_TYPE	VC(50)	The broad category into which a fuel model can be grouped with others that share similar fuel conditions. For example, the Original 13 fuel models can be grouped into Grass and Grass-dominated, Chaparral and Shrun Fields, Timber Litter and Slash fuel types
FUEL_1HR	N(5,2)	Fuel loading, in tons/acre, for the 1-hour size class
FUEL_10HR	N(5,2)	Fuel loading, in tons/acre, for the 10-hour size class
FUEL_100HR	N(5,2)	Fuel loading, in tons/acre, for the 100-hour size class
MODEL_SET	VC(50)	Which model the codes belong to. These are either the Original 13 or the Scott and Burgen set.
MODIFIED_BY	VC(30)	The name of the person who modified the record.
MODIFIED_DATE	DATE	The date the record was modified.

Fuel Model	Fuel Model Code	Fuel Model Name	Fuel Type	Model Set	Fuel 1-Hr	Fuel 10-Hr	Fuel 100-Hr	Fuel Bed Depth
1		Short grass (1 foot)	Grass and grass-dominated	Original 13	0.74	0	0	1
2		Timber (grass and understory)	Grass and grass-dominated	Original 13	2	1	0.500	1
3		Tall grass (2.5 feet)	Grass and grass-dominated	Original 13	3.01	0	0	2.50



**NRV\_FUEL\_MODELS (cont.)**

Fuel Model	Fuel Model Code	Fuel Model Name	Fuel Type	Model Set	Fuel 1-Hr	Fuel 10-Hr	Fuel 100-Hr	Fuel Bed Depth
4		Chaparral (6 feet)	Chaparral and shrub fields	Original 13	5.01	4.010	2	6
5		Brush (2 feet)	Chaparral and shrub fields	Original 13	1	0.500	0	2
6		Dormant brush, hardwood slash	Chaparral and shrub fields	Original 13	1.50	2.500	2	2.50
7		Southern rough	Chaparral and shrub fields	Original 13	1.13	1.870	1.500	2.50
8		Closed timber litter	Timber litter	Original 13	1.50	1	2.500	0.20
9		Hardwood litter	Timber litter	Original 13	2.92	0.410	0.150	0.20
10		Timber (litter and understory)	Timber litter	Original 13	3.01	2	5.010	1
11		Light logging slash	Slash	Original 13	1.50	4.51	5.510	1
12		Medium logging slash	Slash	Original 13	4.01	14.03	16.53	2.30
13		Heavy logging slash	Slash	Original 13	7.01	23.04	28.05	3
91	NB1	Urban/Developed	Nonburnable	Scott and Burgan	0	0	0	0
92	NB2	Snow/Ice	Nonburnable	Scott and Burgan	0	0	0	0
93	NB3	Agricultural	Nonburnable	Scott and Burgan	0	0	0	0
98	NB4	Open Water	Nonburnable	Scott and Burgan	0	0	0	0
99	NB5	Bare Ground	Nonburnable	Scott and Burgan	0	0	0	0
101	GR1	Short, Sparse Dry Climate Grass (Dynamic)	Grass	Scott and Burgan	0.10	0	0	0.40
102	GR2	Low Load, Dry Climate Grass (Dynamic)	Grass	Scott and Burgan	0.10	0	0	1
103	GR3	Low Load, Very Coarse, Humid Climate Grass (Dynamic)	Grass	Scott and Burgan	0.10	0.40	0	2
104	GR4	Moderate Load, Dry Climate Grass (Dynamic)	Grass	Scott and Burgan	0.25	0	0	2
105	GR5	Low Load, Humid Climate Grass (Dynamic)	Grass	Scott and Burgan	0.40	0	0	1.50
106	GR6	Moderate Load, Humid Climate Grass (Dynamic)	Grass	Scott and Burgan	0.10	0	0	1.50
107	GR7	High Load, Dry Climate Grass (Dynamic)	Grass	Scott and Burgan	1	0	0	3

**NRV\_FUEL\_MODELS (cont.)**

Fuel Model	Fuel Model Code	Fuel Model Name	Fuel Type	Model Set	Fuel 1-Hr	Fuel 10-Hr	Fuel 100-Hr	Fuel Bed Depth
108	GR8	High Load, Very Coarse, Humid Climate Grass (Dynamic)	Grass	Scott and Burgan	0.50	1	0	4
109	GR9	Very High Load, Humid Climate Grass (Dynamic)	Grass	Scott and Burgan	1	1	0	5
121	GS1	Low Load, Dry Climate Grass-Shrub (Dynamic)	Grass-Shrub	Scott and Burgan	0.20	0	0	0.90
122	GS2	Moderate Load, Dry Climate Grass-Shrub (Dynamic)	Grass-Shrub	Scott and Burgan	0.50	0.500	0	1.50
123	GS3	Moderate Load, Humid Climate Grass-Shrub (Dynamic)	Grass-Shrub	Scott and Burgan	0.30	0.250	0	1.80
124	GS4	High Load, Humid Climate Grass-Shrub (Dynamic)	Grass-Shrub	Scott and Burgan	1.90	0.300	0.100	2.10
141	SH1	Low Load, Dry Climate Shrub (Dynamic)	Shrub	Scott and Burgan	0.25	0.250	0	1
142	SH2	Moderate Load, Dry Climate Shrub	Shrub	Scott and Burgan	1.35	2.400	0.750	1
143	SH3	Moderate Load, Humid Climate Shrub	Shrub	Scott and Burgan	0.45	3	0	2.40
144	SH4	Low Load, Humid Climate Timber-Shrub	Shrub	Scott and Burgan	0.85	1.150	0.200	3
145	SH5	High Load, Dry Climate Shrub	Shrub	Scott and Burgan	3.60	2.100	0	6
146	SH6	Low Load, Humid Climate Shrub	Shrub	Scott and Burgan	2.90	1.450	0	2
147	SH7	Very High Load, Dry Climate Shrub	Shrub	Scott and Burgan	3.50	5.300	2.200	6
148	SH8	High Load, Humid Climate Shrub	Shrub	Scott and Burgan	2.05	3.400	0.850	3
149	SH9	Very High Load, Humid Climate Shrub (Dynamic)	Shrub	Scott and Burgan	4.50	2.450	0	4.40
161	TU1	Low Load, Dry Climate Timber-Grass-Shrub (Dynamic)	Timber-Understory	Scott and Burgan	0.20	0.900	1.500	0.60
162	TU2	Moderate Load, Humid Climate Timber-Shrub	Timber-Understory	Scott and Burgan	0.95	1.800	1.250	1

**NRV\_FUEL\_MODELS (cont.)**

<b>Fuel Model</b>	<b>Fuel Model Code</b>	<b>Fuel Model Name</b>	<b>Fuel Type</b>	<b>Model Set</b>	<b>Fuel 1-Hr</b>	<b>Fuel 10-Hr</b>	<b>Fuel 100-Hr</b>	<b>Fuel Bed Depth</b>
163	TU3	Moderate Load, Humid Climate Timber-Grass-Shrub (Dynamic)	Timber-Understory	Scott and Burgan	1.10	0.150	0.250	1.30
164	TU4	Dwarf Conifer With Understory	Timber-Understory	Scott and Burgan	4.50	0	0	0.50
165	TU5	Very High Load, Dry Climate Timber-Shrub	Timber-Understory	Scott and Burgan	4	4	3	1
181	TL1	Low Load Compact Conifer Litter	Timber Litter	Scott and Burgan	1	2.200	3.600	0.20
182	TL2	Low Load Broadleaf Litter	Timber Litter	Scott and Burgan	1.40	2.300	2.200	0.200
183	TL3	Moderate Load Conifer Litter	Timber Litter	Scott and Burgan	0.50	2.200	2.800	0.30
184	TL4	Small Downed Logs	Timber Litter	Scott and Burgan	0.50	1.500	4.200	0.40
185	TL5	High Load Conifer Litter	Timber Litter	Scott and Burgan	1.15	2.500	4.400	0.60
186	TL6	Moderate Load Broadleaf Litter	Timber Litter	Scott and Burgan	2.40	1.200	1.200	0.30
187	TL7	Large Downed Logs	Timber Litter	Scott and Burgan	0.30	1.400	8.100	0.40
188	TL8	Long-Needle Litter	Timber Litter	Scott and Burgan	5.80	1.400	1.100	0.30
189	TL9	Very High Load Broadleaf Litter	Timber Litter	Scott and Burgan	6.65	3.300	4.150	0.60
201	SB1	Low Load Activity Fuel	Slash-Blowdown	Scott and Burgan	1.50	3	11	1
202	SB2	Moderate Load Activity Fuel or Low Load Blowdown	Slash-Blowdown	Scott and Burgan	4.50	4.250	4	1
203	SB3	High Load Activity Fuel or Moderate Load Blowdown	Slash-Blowdown	Scott and Burgan	5.50	2.750	3	1.20
204	SB4	High Load Blowdown	Slash-Blowdown	Scott and Burgan	5.25	3.500	5.250	2.70

## NRV\_FUEL\_PHOTOS

This table contains dead fuel loading information pertaining to each site (identified by its label, stored in residue\_desc\_code) within a photo series (identified in fuel\_photo\_reference).

Name	Size	Description
FUEL_PHOTO_REFERENCE <i>Required</i>	VC(10)	The fuel photo reference code.
CREATED_BY <i>Required</i>	VC(30)	The name of the person who created the record.
CREATED_DATE <i>Required</i>	DATE	The date the record was created.
CREATED_IN_INSTANCE <i>Required</i>	N(6)	The database ID where the record was created.
FUEL_PHOTO_CN	VC(34)	Uniquely identify the record. Foreign key to Nrv_setting_measurements
RESIDUE_DESC_CODE <i>Required</i>	VC(20)	Photo label, taken from a photo series, for quantifying forest residues. This represents the setting residue description code.
FVS_DUFF	N(5,1)	The initial dead fuel load (in tons per acre) for duff. Used as an input for the FUELINIT keyword to override the variant-specific default for this value in the Fire and Fuels Extension to the Forest Vegetation Simulator.
FVS_FUEL01	N(5,1)	The initial dead fuel load (in tons per acre) for fuel 0 to 1 inch in diameter. This loading gets divided equally between the 0 to 0.25 inch class and the 0.25 to 1 inch class. Used as an input for the FUELINIT keyword to override the variant-specific default for this value in the Fire and Fuels Extension to the Forest Vegetation Simulator.
FVS_FUEL12P	N(5,1)	The initial dead fuel load (in tons per acre) for fuel greater than 12 inches in diameter. Used as an input for the FUELINIT keyword to override the variant-specific default for this value in the Fire and Fuels Extension to the Forest Vegetation Simulator.
FVS_FUEL13	N(5,1)	The initial dead fuel load (in tons per acre) for fuel 1 to 3 inches in diameter. Used as an input for the FUELINIT keyword to override the variant-specific default for this value in the Fire and Fuels Extension to the Forest Vegetation Simulator.
FVS_FUEL36	N(5,1)	The initial dead fuel load (in tons per acre) for fuel 3 to 6 inches in diameter. Used as an input for the FUELINIT keyword to override the variant-specific default for this value in the Fire and Fuels Extension to the Forest Vegetation Simulator.
FVS_FUEL612	N(5,1)	The initial dead fuel load (in tons per acre) for fuel 6 to 12 inches in diameter. Used as an input for the FUELINIT keyword to override the variant-specific default for this value in the Fire and Fuels Extension to the Forest Vegetation Simulator.

**NRV\_FUEL\_PHOTOS (cont.)**

Name	Size	Description
FVS_LITTER	N(5,1)	The initial dead fuel load (in tons per acre) for litter. Used as an input for the FUELINIT keyword to override the variant-specific default for this value in the Fire and Fuels Extension to the Forest Vegetation Simulator.
MODIFIED_BY	VC(30)	The name of the person who modified the record.
MODIFIED_DATE	DATE	The date the record was modified.
MODIFIED_IN_INSTANCE	N(6)	The database ID where the record was modified.
ON_OFF	VC(3)	Flag to display (ON) or hide (OFF) individual references in the Interface pull-down lists.

**Fuel Photo Codes For Reference 1**

3A	6A	9A	13A	16	18A	63	67
4A	7A	10A	15	16A	19A	65	
5A	8A	11A	15A	17A	25	66	

**Fuel Photo Codes For Reference 2**

5	14A	28A	32	48	71	78	91
7	17	29	40A	49	72	79	95
8	18	29A	41A	56	73	80	
9	23	30	42	64	74	84	
12A	24	30A	42A	68	75	86	
13	27A	31	43	69	76	88	
14	28	31A	43A	70	77	89	

**Fuel Photo Codes For Reference 3**

1	12	24A	37	46	53	81	96
1A	19	25A	38	46A	54	82	97
2	20	26	39	47	55	83	98
2A	20A	26A	40	47A	57	85	
3	21	27	41	48A	58	87	
4	21A	34A	44	49A	59	90	
6	22	35	44A	50	60	92	
10	22A	35A	45	51	61	93	
11	23A	36	45A	52	62	94	

**Fuel Photo Codes For Reference 5**

1WH1TH	4WH1TH	1GF1TH	4GF1TH	3WC1TH	6WC1TH
2WH1TH	5WH1TH	2GF1TH	1WC1TH	4WC1TH	7WC1TH
3WH1TH	6WH1TH	3GF1TH	2WC1TH	5WC1TH	

**Fuel Photo Codes For Reference 6**

1PP4CC	3PP4PC	2PP1TH	6PP1TH	4PP&ASSOC4PC	8PP&ASSOC4PC	3LP3PC
2PP4CC	4PP4PC	3PP1TH	1PP&ASSOC4PC	5PP&ASSOC4PC	1LP3CC	4LP3PC
1PP4PC	5PP4PC	4PP1TH	2PP&ASSOC4PC	6PP&ASSOC4PC	1LP3PC	5LP3PC
2PP4PC	1PP1TH	5PP1TH	3PP&ASSOC4PC	7PP&ASSOC4PC	2LP3PC	

## Fuel Photo Codes For Reference 7

1LP2	1PP4	2MF4	2WF3	3PP3	4LP3	4WF3	5WF4
1LP3	1RF3	2MP4	2WF4	3PP4	4MF4	4WF4	
1LP4	1RF4	2PP2	3LP2	3RF3	4MP4	5LP2	
1MF4	1WF2	2PP3	3LP3	3RF4	4PP2	5MF4	
1MH4	1WF3	2PP4	3MF4	3WF2	4PP3	5MP4	
1MP4	1WF4	2RF3	1MP4	3WF3	4RF3	5RF3	
1PP2	2LP2	2RF4	3MP4	3WF4	4RF4	5RF4	
1PP3	2LP3	2WF2	3PP2	4LP2	4WF2	5WF3	

## Fuel Photo Codes For Reference 8

1BR	1LP3	1SA2	2JU2	2PP3	3LP3	4DF4	5PP4
1DF2	1MC2	1SA3	2LP1	2PP4	3MC2	4DFHD4	6DF4
1DF3	1MC3	1SA4	2LP2	2SA1	3MC3	4LP2	6PP3
1DF4	1MC4	2BR	2LP3	2SA2	3PP&ASSOC3	4PP&ASSOC3	6PP4
1DFHD3	1PP&ASSOC3	2DF2	2MC2	2SA3	3PP&ASSOC4	4PP2	7DF4
1DFHD4	1PP&ASSOC4	2DF3	2MC3	2SA4	3PP1	4PP3	7PP3
1GR	1PP1	2DF4	2MC4	3DF4	3PP2	4PP4	7PP4
1HD2	1PP2	2DFHD3	2PP&ASSOC3	3DFHD3	3PP3	5DF4	8PP3
1JU2	1PP3	2DFHD4	2PP&ASSOC4	3DFHD4	3PP4	5DFHD4	8PP4
1LP1	1PP4	2GR	2PP1	3LP1	3SA1	5PP&ASSOC3	
1LP2	1SA1	2HD2	2PP2	3LP2	3SA3	5PP3	

## Fuel Photo Codes For Reference 9

1DFWHPRE01	1DFWHPRE06	3RAPRE01	3RAPRE07	5RAPOST01
1DFWHPRE02	1DFWHPRE07	3RAPRE02	4DFWHPOST01	5RAPOST02
1DFWHPRE03	1DFWHPRE08	3RAPRE03	4DFWHPOST02	5RAPOST03
1DFWHPRE04	1DFWHPRE09	3RAPRE05	4DFWHPOST03	5RAPOST04
1DFWHPRE05	2WHSSPRE01	3RAPRE06	4DFWHPOST04	5RAPOST05

## Fuel Photo Codes For Reference 11

1PP1	1PP3	1SP3PC	2PP3PC	3PP2PC	4PP2PC	7PP1TH
1PP1PC	1PP3CC	2PP1TH	2PPSP3PC	3PP3PC	5PP1TH	
1PP1TH	1PP3PC	2PP2	2SP3PC	3PPSP3PC	5PP2PC	
1PP2	1PPSP3PC	2PP2PC	3PP1TH	4PP1TH	6PP1TH	

## Fuel Photo Codes For Reference 12

1AZPPSPPRE 01	1PP2(BH)	2MC2	2PP3(PNW- 105)	3PP2(PNW- 105)	4PP2	6PP1TH
1AZPPSPPRE 02	1PP2(PNW- 105)	2MC3	2PP4	3PP2PC	4PP2(PNW- 105)	6PP1TH(BH )
1AZPPSPPRE 03	1PP2PC	2PP&ASSOC3	2PP4PC	3PP3PC	4PP2PC	6PP3
1AZPPSPPRE 04	1PP3	2PP&ASSOC4	2PP4(PNW- 105)	3PP3	4PP3	7PP1TH
1JU2	1PP3(BH)	2PP1	2PPSP3PC	3PP3(PNW- 105)	4PP3(PNW- 105)	7PP1TH(BH )
1MC2	1PP3(PNW- 105)	2PP1TH	2SP3PC	3PP4	4PP4	7PP3
1MC3	1PP3CC	2PP1TH(BH)	3MC2	3PP4PC	4PP4PC	8PP3
1PP&ASSOC3	1PP3PC	2PP2	3MC3	3PP4(PNW- 105)	4WF3	
1PP&ASSOC4 1PP1	1PP4 1PP4PC	2PP2(BH) 2PP2(PNW- 105)	3PP&ASSOC3 3PP&ASSOC4	3PPSP3PC 3WF2	5PP&ASSOC3 5PP1TH	
1PP1(BH)	1PP4(PNW- 105)	2PP2PC	3PP1	3WF3	5PP1TH(BH)	
1PP1TH	1PPSP3PC	2PP3CC	3PP1TH	4PP&ASSOC3	5PP2PC	
1PP1TH(BH)	1SP3PC	2PP3PC	3PP1TH(BH)	4PP1TH	5PP3	
1PP2	2JU2	2PP3	3PP2	4PP1TH(BH)	5PP4PC	

## Fuel Photo Codes For Reference 13

10DF4CC	1DFHD4PC	2DFHD4PC	3DFHD4PC	4DFHD4PC	6DF3PC	7DF4PC
1DF1TH	2DF1TH	3DF1TH	4DF1TH	5DF3PC	6DF4CC	7DFHD4CC
1DF3PC	2DF3PC	3DF3PC	4DF3PC	5DF4CC	6DF4PC	8DF4CC
1DF4CC	2DF4CC	3DF4CC	4DF4CC	5DF4PC	6DFHD4CC	8DF4PC
1DF4PC	2DF4PC	3DF4PC	4DF4PC	5DFHD4CC	6DFHD4PC	9DF4CC
1DFHD4CC	2DFHD4CC	3DFHD4CC	4DFHD4CC	5DFHD4PC	7DF4CC	9DF4PC

## Fuel Photo Codes For Reference 14

MC01	MC04	MC07	MC10	MC13	MC16	WJ02
MC02	MC05	MC08	MC11	MC14	MC17	WJ03
MC03	MC06	MC09	MC12	MC15	WJ01	WJ04

## Fuel Photo Codes For Reference 15

BG01	MC01	MC05	MC09	MC13	MC17	SB04	WJ03
BG02	MC02	MC06	MC10	MC14	SB01	SGO4	WJ04
BG03	MC03	MC07	MC11	MC15	SB02	WJ01	
BG04	MC04	MC08	MC12	MC16	SB03	WJ02	

### Fuel Photo Codes For Reference 16

AH01	AH07	AH13	BS04	BS10	WS02	WS08
AH02	AH08	AH14	BS05	BS11	WS03	WS09
AH03	AH09	AH15	BS06	BS12	WS04	WS10
AH04	AH10	BS01	BS07	BS13	WS05	WS11
AH05	AH11	BS02	BS08	BS14	WS06	WS12
AH06	AH12	BS03	BS09	WS01	WS07	

### Fuel Photo Codes For Reference 17

G001	G006	LP02	LP07	LP12	QA04	QA09
G002	G007	LP03	LP08	LP13	QA05	QA10
G003	G008	LP04	LP09	QA01	QA06	QA11
G004	G009	LP05	LP10	QA02	QA07	QA12
G005	LP01	LP06	LP11	QA03	QA08	QA13

### Fuel Photo Codes For Reference 18

JP01	JP09	JP17	MO06	MP03	MP11	TP06	TP14
JP02	JP10	JP18	MO07	MP04	MP12	TP07	TP15
JP03	JP11	JP19	MO08	MP05	MP13	TP08	TP16
JP04	JP12	MO01	MO09	MP06	TP02	TP09	TP17
JP05	JP13	MO02	MO10	MP07	TP04	TP10	
JP06	JP14	MO03	MO11	MP08	TP05	TP11	
JP07	JP15	MO04	MP01	MP09	TP01	TP12	
JP08	JP16	MO05	MP02	MP10	TP03	TP13	

### Fuel Photo Codes For Reference 19

LLP01	LLP05	MG01	MG05	MG09	PS04	PW02
LLP02	LLP06	MG02	MG06	PS01	PS05	
LLP03	LLP07	MG03	MG07	PS02	PS06	
LLP04	LLP08	MG04	MG08	PS03	PW01	

### Fuel Photo Codes For Reference 20

1PP1	1PP3	1SP3PC	2PP3CC	3PP1TH	4PP1TH	6PP1TH
1PP1TH	1PP3CC	2PP1TH	2PP3PC	3PP2PC	4PP2PC	7PP1TH
1PP2	1PP3PC	2PP2	2PPSP3PC	3PP3PC	5PP1TH	
1PP2PC	1PPSP3PC	2PP2PC	2SP3PC	3PPSP3PC	5PP2PC	

### Fuel Photo Codes For Reference 21

CH01	CH07	CH13	PJ03	PJ09	SWSB01	SWSB07
CH02	CH08	CH14	PJ04	PJ10	SWSB02	SWSB08
CH03	CH09	CH15	PJ05	PJ11	SWSB03	SWSB09
CH04	CH10	CH16	PJ06	PJ12	SWSB04	SWSB10
CH05	CH11	PJ01	PJ07	PJ13	SWSB05	SWSB11
CH06	CH12	PJ02	PJ08	PJ14	SWSB06	



## Fuel Photo Codes For Reference 22

HIF01	HIF06	HIG02	HIG07	HIG12	HIS04	HIW02	HIW07
HIF02	HIF07	HIG03	HIG08	HIG13	HIS05	HIW03	
HIF03	HIF08	HIG04	HIG09	HIS01	HIS06	HIW04	
HIF04	HIF09	HIG05	HIG10	HIS02	HIS07	HIW05	
HIF05	HIG01	HIG06	HIG11	HIS03	HIW01	HIW06	

## Fuel Photo Codes For Reference 23

1DFWHPRE01	1DFWHPRE05	1DFWHPRE09	1DFWHPRE13	1DFWHPRE17	2DFWHPOST02	2DFWHPOST06
1DFWHPRE02	1DFWHPRE06	1DFWHPRE10	1DFWHPRE14	1DFWHPRE18	2DFWHPOST03	2DFWHPOST07
1DFWHPRE03	1DFWHPRE07	1DFWHPRE11	1DFWHPRE15	1DFWHPRE19	2DFWHPOST04	
1DFWHPRE04	1DFWHPRE08	1DFWHPRE12	1DFWHPRE16	2DFWHPOST01	2DFWHPOST05	

## Fuel Photo Codes For Reference 24

1-LL-2-N	5-LL-1-P	9-LL-3-H	4-WP-3-H	1-PP-1-N	5-PP-2-N	2-VP-2-N
2-LL-2-H	6-LL-3-H	1-WP-3-N	5-WP-3-H	2-PP-2-N	6-PP-2-N	3-VP-3-N
3-LL-3-N	7-LL-3-H	2-WP-2-P	6-WP-2-H	3-PP-1-N	7-PP-3-H	4-VP-2-N
4-LL-2-H	8-LL-3-N	3-WP-3-N	7-WP-3-N	4-PP-1-N	1-VP-2-N	

## Fuel Photo Codes For Reference 25

1-A21-N	3-B21-N	5-B12-N	7-B22-N	9-A11-N	11-B22-CC	13-A22-CC
2-A22-N	4-A22-N	6-A12-N	8-A22-N	10-A22-CC	12-A22-CC	14-B23-CC

## Fuel Photo Codes For Reference 26

FC1-PRE	FC2-POST	FC4-PRE	FC5-POST	FC7-PRE	FC8-POST
FC1-POST	FC3-PRE	FC4-POST	FC6-PRE	FC7-POST	
FC2-PRE	FC3-POST	FC5-PRE	FC6-POST	FC8-PRE	

## Fuel Photo Codes For Reference 27

WO-01	WO-06	CDO-01	CDO-06	MCS-02	MCS-07
WO-02	WO-07	CDO-02	CDO-07	MCS-03	MCS-08
WO-03	WO-08	CDO-03	CDO-08	MCS-04	MCS-09
WO-04	WO-09	CDO-04	CDO-09	MCS-05	MCS-10
WO-05	WO-10	CDO-05	MCS-01	MCS-06	MCS-11

## Fuel Photo Codes For Reference 28

1-MC-4-RC	3-MC-4-PC	8-MC-4-PC	5-MC-3-PC	2-TF-4-RC	1-TF-4-PC
2-MC-4-RC	4-MC-4-PC	1-MC-3-PC	6-MC-3-PC	3-TF-4-RC	2-TF-4-PC
3-MC-4-RC	5-MC-4-PC	2-MC-3-PC	7-MC-3-PC	4-TF-4-RC	3-TF-4-PC
1-MC-4-PC	6-MC-4-PC	3-MC-3-PC	8-MC-3-PC	5-TF-4-RC	4-TF-4-PC
2-MC-4-PC	7-MC-4-PC	4-MC-3-PC	1-TF-3-RC	6-TF-4-RC	5-TF-4-PC

**Fuel Photo Codes For Reference 29**

6B		8A		12B		14A		18B		20A	
6A		10B		12A		16B		18A			
8B		10A		14B		16A		20B			

**Fuel Photo Codes For Reference 30**

3D		3B		2D		1C	
2A		2C		1A		1D	

**Fuel Photo Codes For Reference 31**

1		3		5		7		9	
2		4		6		8		10	

**Fuel Photo Codes For Reference 32**

56		58		63		31		59		78	
51		45		92		76		48		13	
28		19		2		83		15		64	
97		79		71		55		41		21	
95		22		1		102		12			
91		49		100		73		54			
89		93		74		67		85			

## NRV\_FUEL\_PHOTO\_REF

Table containing references for fuel photograph publications.

Name	Size	Description
DOCUMENT_NAME <i>Required</i>	VC(200)	Official title of the fuel photo reference.
FUEL_PHOTO_REFERENCE <i>Required</i>	VC(10)	The fuel photo reference code.
CREATED_BY <i>Required</i>	VC(30)	The name of the person who created the record.
CREATED_DATE <i>Required</i>	DATE	The date the record was created.
CREATED_IN_INSTANCE <i>Required</i>	N(6)	The database ID where the record was created.
AUTHOR	VC(200)	Author(s) of the fuel photo reference publication.
MODIFIED_BY	VC(30)	The name of the person who modified the record.
MODIFIED_DATE	DATE	The date the record was modified.
MODIFIED_IN_INSTANCE	N(6)	The database ID where the record was modified.
ON_OFF	VC(3)	Flag to display (ON) or hide (OFF) individual references in the Interface pull-down lists.
REFERENCE_SHORTNAME	VC(30)	Short name for the official title of the fuel photo reference.

Fuel Photo Reference	Reference Shortname
1	INT-96; GF, Larch, DF, WRC
2	INT-97; PP, Larch, DF
3	INT-98; LP, ES, SF
4	INT-299; Montana
5	INT-46; N. Idaho, WH, GF, WRC
6	PNW-52; PP, LP
7	PSW-56; S. Cascades, N. Sierra Nevada
8	PNW-105; PNW Forest Types
9	PNW-231; DF, WH, SS, RA
10	Mackay; DF, ES, LP, PP, SF
11	Maxwell; Black Hills
12	Region 3
13	PNW-51; DF, WH, Hardwood
14	NFES-2580; WJ, Grass and sagebrush
15	Ottmar; Interior PNW
16	Ottmar; Alaska spruce
17	Ottmar; Rocky Mountains
18	Ottmar; Midwest prairie
19	Ottmar; SE
20	A89190; Black Hills
21	Ottmar; SW
22	Hawaii
23	Ottmar; Willamette
24	NA-FR-25. Lynch & Horton
25	NA-FR-22. Wilcox, McCarty, & Byngard

**NRV\_FUEL\_PHOTO\_REF (cont.)**

Fuel Photo Reference	Reference Shortname
26	SRS-26. Scholl and Waldrop.
27	Otmar. Volume VII.
28	PNW-95. Maxwell & Ward
29	GTR SE-49. Sanders & Van Lear
30	GTR SE-82. Wade et. Al.
31	GTR NC-77. Blank
32	RMRS-GTR-172. Popp & Lundquist

**NRV\_FVS\_VARIANTS**

Identifies the appropriate FVS variant for each proclaimed or administrative unit.

Name	Size	Description
CN <i>Required</i>	VC(34)	A number that uniquely identifies a record from an Oracle table.
CREATED_BY <i>Required</i>	VC(30)	The name of the person who created the record.
CREATED_DATE <i>Required</i>	DATE	The date the record was created.
CREATED_IN_INSTANCE <i>Required</i>	N(6)	The database ID where the record was created.
REGION_ADMIN	VC(2)	Administrative Region number.
FOREST_ADMIN	VC(2)	Administrative Forest number.
FOREST_ADMIN_NAME	VC(50)	Administrative Forest name.
REGION_PROC	VC(2)	Proclaimed Region number.
FOREST_PROC	VC(2)	Proclaimed Forest number.
FOREST_PROC_NAME	VC(50)	Proclaimed Forest name.
FVS_VARIANT	VC(11)	Appropriate FVS variant for this Region/Forest
MODIFIED_BY	VC(30)	The name of the person who modified the record.
MODIFIED_DATE	DATE	The date the record was modified.
MODIFIED_IN_INSTANCE	N(6)	The database ID where the record was modified.

Region Proc	Forest Proc	Forest Proc Name	Region Admin	Forest Admin	Forest Admin Name	FVS Variant
01	09	Deerlodge	01	02	Beaverhead - Deerlodge	em ie
01	02	Beaverhead	01	02	Beaverhead - Deerlodge	em ie
01	03	Bitterroot	01	03	Bitterroot	ie
01	04	Idaho Panhandle	01	04	Idaho Panhandle	ie kt
01	06	Coeur D'Alene	01	04	Idaho Panhandle	ie kt
01	13	Kaniksu	01	04	Idaho Panhandle	ie kt
01	18	St. Joe	01	04	Idaho Panhandle	ie kt
01	05	Clearwater	01	05	Clearwater	ie
01	08	Custer	01	08	Custer	em
01	10	Flathead	01	10	Flathead	ie kt
01	11	Gallatin	01	11	Gallatin	em

**NRV\_FVS\_VARIANTS (cont.)**

Region Proc	Forest Proc	Forest Proc Name	Region Admin	Forest Admin	Forest Admin Name	FVS Variant
01	12	Helena	01	12	Helena	em ie
01	14	Kootenai	01	14	Kootenai	ie kt
01	13	Kaniksu	01	14	Kootenai	ie kt
01	15	Lewis and Clark	01	15	Lewis and Clark	em
01	16	Lolo	01	16	Lolo	ie
01	17	Nezperce	01	17	Nezperce	ie ci
02	01	Arapaho	02	10	Arapaho - Roosevelt	cr
02	02	Bighorn	02	02	Bighorn	cr
02	03	Black Hills	02	03	Black Hills	cr
02	04	Uncompahgre	02	04	Grand Mesa, Uncompahgre and Gunnison	cr
02	05	Gunnison	02	04	Grand Mesa, Uncompahgre and Gunnison	cr
02	06	Medicine Bow	02	06	Medicine Bow - Routt	cr
02	07	Nebraska	02	07	Nebraska	cr
02	08	Pike	02	12	Pike and San Isabel	cr
02	09	Rio Grande	02	09	Rio Grande	cr
02	10	Roosevelt	02	10	Arapaho - Roosevelt	cr
02	11	Routt	02	06	Medicine Bow - Routt	cr
02	12	San Isabel	02	12	Pike and San Isabel	cr
02	13	San Juan	02	13	San Juan	cr
02	14	Shoshone	02	14	Shoshone	cr
02	15	White River	02	15	White River	cr
02	16	Samuel R. McKelvie	02	16	Samuel R. McKelvie	cr
02	17	Cimarron NGL	02	17	Cimarron NGL	cr
02	18	Comanche NGL	02	18	Comanche NGL	cr
02	19	Pawnee NGL	02	19	Pawnee NGL	cr
02	20	Oglala NGL	02	20	Oglala NGL	cr
02	21	Buffalo Gap NGL	02	21	Buffalo Gap NGL	cr
02	22	Fort Pierre NGL	02	22	Fort Pierre NGL	cr
02	23	Thunder Basin NGL	02	23	Thunder Basin NGL	cr
02	24	Grand Mesa	02	04	Grand Mesa, Uncompahgre and Gunnison	cr
03	01	Apache	03	01	Apache - Sitgraves	cr
03	02	Carson	03	02	Carson	cr
03	03	Cibola	03	03	Cibola	cr
03	04	Coconino	03	04	Coconino	cr
03	05	Coronado	03	05	Coronado	cr
03	06	Gila	03	06	Gila	cr
03	07	Kaibab	03	07	Kaibab	cr
03	08	Lincoln	03	08	Lincoln	cr
03	09	Prescott	03	09	Prescott	cr
03	10	Santa Fe	03	10	Santa Fe	cr
03	11	Sitgraves	03	01	Apache - Sitgraves	cr
03	12	Tonto	03	12	Tonto	cr
04	01	Ashley	04	01	Ashley	ut
04	02	Boise	04	02	Boise	ci
04	03	Bridger	04	03	Bridger - Teton	tt
04	04	Cache	04	19	Wasatch - Cache	ut

**NRV\_FVS\_VARIANTS (cont.)**

Region Proc	Forest Proc	Forest Proc Name	Region Admin	Forest Admin	Forest Admin Name	FVS Variant
04	05	Caribou	04	15	Caribou - Targhee	tt
04	06	Challis	04	13	Salmon - Challis	ci
04	07	Dixie	04	07	Dixie	ut
04	08	Fishlake	04	08	Fishlake	ut
04	09	Humboldt	04	17	Humboldt - Toiyabe	ut ws
04	10	Manti-Lasal	04	10	Manti-Lasal	ut
04	12	Payette	04	12	Payette	ci
04	13	Salmon	04	13	Salmon - Challis	ci
04	14	Sawtooth	04	14	Sawtooth	ci
04	15	Targhee	04	15	Caribou - Targhee	tt
04	16	Teton	04	03	Bridger - Teton	tt
04	17	Toiyabe	04	17	Humboldt - Toiyabe	ut ws
04	18	Uinta	04	18	Uinta	ut
04	19	Wasatch	04	19	Wasatch - Cache	ut
05	01	Angeles	05	01	Angeles	ws
05	02	Cleveland	05	02	Cleveland	ws
05	03	Eldorado	05	03	Eldorado	ws
05	04	Inyo	05	04	Inyo	ws
05	05	Klamath	05	05	Klamath	ca nc so
05	06	Lassen	05	06	Lassen	ca nc so
05	07	Los Padres	05	07	Los Padres	ws nc
05	08	Mendocino	05	08	Mendocino	ca nc
05	09	Modoc	05	09	Modoc	so
05	10	Six Rivers	05	10	Six Rivers	nc
05	11	Plumas	05	11	Plumas	ws ca so
05	12	San Bernadino	05	12	San Bernadino	ws
05	13	Sequoia	05	13	Sequoia	ws
05	14	Shasta	05	14	Shasta - Trinity	ca nc so
05	15	Sierra	05	15	Sierra	ws
05	16	Stanislaus	05	16	Stanislaus	ws
05	17	Tahoe	05	17	Tahoe	ws
05	18	Trinity	05	14	Shasta - Trinity	ca nc
05	19	Lake Tahoe Basin	05	19	Lake Tahoe Basin	ws
06	01	Deschutes	06	01	Deschutes	so
06	02	Fremont	06	02	Fremont	so
06	03	Gifford Pinchot	06	03	Gifford Pinchot	wc ec
06	04	Malheur	06	04	Malheur	bm
06	05	Mt. Baker	06	05	Mt. Baker - Snoqualmie	wc
06	06	Mt. Hood	06	06	Mt. Hood	ec wc
06	07	Ochoco	06	07	Ochoco	bm
06	08	Okanogan	06	17	Okanogan - Wenatchee	ec
06	09	Olympic	06	09	Olympic	pn
06	10	Rogue River	06	10	Rogue River	wc ca
06	11	Siskiyou	06	11	Siskiyou	ca nc
06	12	Siuslaw	06	12	Siuslaw	pn
06	13	Snoqualmie (Part)	06	03	Gifford Pinchot	wc ec
06	13	Snoqualmie (Part)	06	05	Mt. Baker - Snoqualmie	wc
06	13	Kaniksu (Part)	06	21	Colville	ie kt

**NRV\_FVS\_VARIANTS (cont.)**

Region Proc	Forest Proc	Forest Proc Name	Region Admin	Forest Admin	Forest Admin Name	FVS Variant
06	13	Snoqualmie (Part)	06	17	Okanogan - Wenatchee	ec
06	14	Umatilla	06	14	Umatilla	bm
06	15	Umpqua	06	15	Umpqua	wc
06	16	Wallowa	06	16	Wallowa - Whitman	bm
06	17	Wenatchee	06	17	Okanogan - Wenatchee	ec
06	18	Willamette	06	18	Willamette	wc
06	19	Whitman	06	16	Wallowa - Whitman	bm
06	20	Winema	06	20	Winema	so
06	21	Colville	06	21	Colville	ie kt
08	01	Apalachicola	08	05	National Forests in Florida	sn
08	02	Angelina	08	13	National Forests in Texas	sn
08	03	William B. Bankhead	08	01	National Forests in Alabama	sn
08	04	Bienville	08	07	National Forest in Mississippi	sn
08	05	Chattahoochee	08	03	Chattahoochee - Oconee	sn
08	06	Cherokee	08	04	Cherokee	sn
08	07	Conecuh	08	01	National Forests in Alabama	sn
08	08	Croatan	08	11	National Forests in North Carolina	sn
08	09	Davy Crockett	08	13	National Forests in Texas	sn
08	10	Delta	08	07	National Forest in Mississippi	sn
08	11	De Soto	08	07	National Forest in Mississippi	sn
08	12	Francis Marion	08	12	Francis Marion - Sumter	sn
08	13	Holly Springs	08	07	National Forest in Mississippi	sn
08	14	Homochita	08	07	National Forest in Mississippi	sn
08	15	Kisatchie	08	06	Kisatchie	sn
08	16	Nantahala	08	11	National Forests in North Carolina	sn
08	17	Ocala	08	05	National Forests in Florida	sn
08	18	Osceola	08	05	National Forests in Florida	sn
08	19	Ouachita	08	09	Ouachita	sn
08	20	Ozark	08	10	Ozark - St. Francis	sn
08	21	Pisgah	08	11	National Forests in North Carolina	sn
08	22	Sabine	08	13	National Forests in Texas	sn
08	23	Sam Houston	08	13	National Forests in Texas	sn
08	24	Sumter	08	12	Francis Marion - Sumter	sn
08	24	Savannah River	08	36	Savannah River	sn
08	25	Talladega	08	01	National Forests in Alabama	sn
08	26	Tuskegee	08	01	National Forests in Alabama	sn
08	27	Oconee	08	03	Chattahoochee - Oconee	sn

**NRV\_FVS\_VARIANTS (cont.)**

Region Proc	Forest Proc	Forest Proc Name	Region Admin	Forest Admin	Forest Admin Name	FVS Variant
08	28	Tombigbee	08	07	National Forest in Mississippi	sn
08	29	St. Francis	08	10	Ozark - St. Francis	sn
08	30	Uwharrie	08	11	National Forests in North Carolina	sn
08	31	Daniel Boone	08	02	Daniel Boone	sn
08	32	George Washington	08	08	George Washington - Jefferson	sn
08	33	Jefferson	08	08	George Washington - Jefferson	sn
08	34	Caribbean	08	16	Caribbean	sn
08	35	Land Between the Lakes	08	60	Land Between the Lakes	sn
09	02	Chequamegan	09	13	Chequamegan/Nicolet	ls
09	03	Chippewa	09	03	Chippewa	ls
09	04	Huron	09	04	Huron - Manistee	ls
09	05	Mark Twain	09	05	Mark Twain	cs sn
09	06	Nicolet	09	13	Chequamegan/Nicolet	ls
09	07	Ottawa	09	07	Ottawa	ls
09	08	Shawnee	09	08	Shawnee	cs sn
09	09	Superior	09	09	Superior	ls
09	10	Hiawatha	09	10	Hiawatha	ls
09	12	Hoosier	09	12	Hoosier	cs
09	14	Wayne	09	14	Wayne	ne
09	19	Allegheny	09	19	Allegheny	ne
09	20	Green Mountain	09	20	Green Mountain - Finger Lakes	ne
09	21	Monongahela	09	21	Monongahela	ne
09	22	White Mountain	09	22	White Mountain	ne
09	24	Manistee	09	04	Huron - Manistee	ls
09	30	Finger Lakes	09	20	Green Mountain - Finger Lakes	ne
10	02	Tongass - Stikine	10	05	Tongass	ak
10	03	Tongass - Chatham	10	05	Tongass	ak
10	04	Chugach	10	04	Chugach	ak
10	05	Tongass - Ketchikan	10	05	Tongass	ak



## NRV\_HISTORY\_CODES

Codes which describe previous events. Some of these codes came from the TIM-FACTS database.

Name	Type	Description
CREATED_BY <i>Required</i>	VC(30)	The name of the person who created the record.
CREATED_DATE <i>Required</i>	DATE	The date the record was created.
CREATED_IN_INSTANCE <i>Required</i>	N(6)	The database ID where the record was created.
DESCRIPTION <i>Required</i>	VC(255)	Description of each history code.
HISTORY_CODE <i>Required</i>	VC(6)	Stand or plot history codes.
MODIFIED_BY	VC(30)	The name of the person who modified the record.
MODIFIED_DATE	DATE	The date the record was modified.
MODIFIED_IN_INSTANCE	N(6)	The database ID where the record was modified.
ON_OFF	VC(3)	Flag to display (ON) or hide (OFF) individual history codes in the Interface pull-down lists.

Code	Description	Use	Code	Description	Use
0	No observable activities		4112	Strip clearcutting	
1	Site Preparation	CSE	4113	Stand clearcutting	
2	Artificial Regeneration	CSE	4121	Shelterwood prep cut	
3	Natural Regeneration	CSE	4122	Seed tree preparation cut	
4	Stand Improvement	CSE	4131	Shelterwood seed cut	
5	Tree cutting	CSE	4132	Seed tree seed cut	
6	Fire	CSE	4141	Shelterwood removal cut	
7	Other Silvicultural Treatments	CSE	4142	Seed tree removal cut	
8	Other Human Disturbance	CSE	4143	Overstory removal cut	
9	Natural Disturbance	CSE	4151	Balanced individual tree selection cut	
10	Land Clearing	CSE	4152	Balanced group selection cut	
11	Insect/Disease outbreak	CSE	4210	Improvement cut	
12	Animal Damage	CSE	4220	Commercial thinning	
13	Type Conversion	CSE	4230	Sanitation (salvage) cut	
14	Mining	CSE	4441	Full planting and replanting concurrent with site prep	
15	Clearcut	CSE	4442	Fill-in planting and replanting concurrent with site prep	
16	Heavy partial cut (≥20% removed)	CSE	4460	Animal damage control for reforestation (ET244)	
17	Light partial cut (<20% removed)	CSE	4471	Burning site prep for planting (ET242-3)	
18	Firewood or local use cut	CSE	4472	Chemical site prep for planting (ET242-2)	
19	Incidental cut	CSE	4473	Other site prep for planting (ET242-3)	
20	Precommercial thin	CSE	4481	Burning site prep for seeding (ET242-3)	
21	Improvement cut	CSE	4482	Chemical site prep for seeding	
22	Planting throughout the stand	CSE	4483	Other site preparation for seeding	

**NRV\_HISTORY\_CODES (cont.)**

<b>Code</b>	<b>Description</b>	<b>Use</b>	<b>Code</b>	<b>Description</b>	<b>Use</b>
23	Planting within nonstocked holes in the stand	CSE	4491	Burning site prep for natural regeneration	
24	Underplanting	CSE	4492	Chemical site prep for natural regeneration	
25	Clean and release	CSE	4493	Other site prep for natural regeneration	
26	Chaining	CSE	4511	Individual tree release and weeding	
99	Other, unknown		4512	Area release and weeding	
4111	Patch clearcutting				
4521	Precommercial thinning-individual or selected trees		4620	Sale area desig	
4522	Precommercial thinning -strip		4630	Sale plan implementation	
4530	Pruning (ET253)		4631	Layout	
4240	Special cut		4632	Marking/designation	
4250	Natural changes (no timber harvest involved)		4633	Cuising	
4260	Man-caused Fire Damage		4640	Sale offering	
4270	Permanent Land Clearing		4650	Bid opening	
4280	Permanent Flooding		4660	Sale award	
4290	Administrative Changes		4710	Scaling	
4310	Silvicultural stand examination		4720	Budgeting	
4311	Stand examination data collection		4730	Sale Aadministration	
4312	Stand examination data compilation		4750	Administer cooperative work	
4313	Data evaluation and analysis acres		4760	Administer export and substitution	
4320	Stand diagnosis prepared		4770	Cost collection	
4331	Stand silviculture prescription		4780	Sell/administer nonconvertable products	
4332	Interdisciplinary compartment prescription		4790	Free use administration	
4341	Stocking surveys		4810	Cone Ccollection	
4342	Plantation survival surveys		4820	Seed extraction	
4345	Post Treatment TSI Evaluation		4830	Seed storage	
4347	Timber harvest evaluation		4840	Nursery opertion	
4360	Reforestation Certification (ET245)		4850	Container facility operation	
4381	Natural regen with site prep (ET245-11)		4860	Stock certification	
4382	Natural regen without site prep (ET245-12)		4910	Selection and care of superior trees	
4390	Reserved		4920	Seed collectionfrom superior trees	
4411	Full seeding/reseeding with site prep		4930	Seed production area (establishment, improvement, operation)	
4412	Fill-in seeding/reseeding without site prep		4940	Seed orchards, establishment/improvements	
4421	Full seeding/reseeding concurrent with site prep		4941	Seed orchard operations	
4422	Fill-in seeding/reseeding concurrent w/site prep		4942	Establish seed orchards	
4431	Full planting without site preparation		4950	Genetic evaluation	

**NRV\_HISTORY\_CODES (cont.)**

Code	Description	Use	Code	Description	Use
4432	Fill-in planting without site preparation		4951	Operate evaluation plantations	
4541	Prescribed burn of understory veg		4952	Establish evaluation plantations	
4542	Other control of understory vegetation		4960	Tree improvement at nurseries	
4551	Fertilizing individual trees		4970	Construct tree improvement facilities	
4552	Area fertilizing		4980	Other tree improvement	
4560	Animal control for TSI (ET256)				
4610	Position statement				

**NRV\_LIFEFORM\_CLASSES**

Contains flora lifeform codes. Source of the codes is the NRCS PLANTS database. A plant lifeform is usually understood to be a growth form which displays an obvious relationship to important environmental factors. For example, a deciduous tree is a plant lifeform that responds to an unfavorable season by shedding its leaves. (Source: Mueller-Dombois & Ellenberg, 1974., Aims & Methods of Vegetation Ecology. p. 142) The TERRA module is the steward of this table.

Name	Type	Description
CREATED_BY <i>Required</i>	VC(30)	The name of the person who created the record.
CREATED_DATE <i>Required</i>	DATE	The date the record was created.
CREATED_IN_INSTANCE <i>Required</i>	N(6)	The database ID where the record was created.
ON_OFF <i>Required</i>	VC(3)	Flag to display (ON) or hide (OFF) individual lifeform class codes in the Interface pull-down lists.
TYPE_CODE <i>Required</i>	VC(2)	Lifeform class code.
CODE_SOURCE	VC(60)	Where the lifeform codes originated.
DESCRIPTION	VC(240)	Description of each lifeform class.
LEVEL_OF_APPROVAL	VC(30)	The entity that approved these codes.
MODIFIED_BY	VC(30)	The name of the person who modified the record.
MODIFIED_DATE	DATE	The date the record was modified.
MODIFIED_IN_INSTANCE	N (6)	The database ID where the record was modified.

Code	Description	Use	Source	Approval
AL	Algae	CSE	NRCS PLANTS Database	USDA National
FB	Herbaceous forb/herb	CSE	NRCS PLANTS Database	USDA National
FU	Fungus	CSE	NRIS-Terra	USDA National
GR	Herbaceous graminoid	CSE	NRCS PLANTS Database	USDA National
HB	Herbs	CSE	OCMA reporting	NRIS
LC	Lichen	CSE	NRCS PLANTS Database	USDA National
LI	Woody Liana	CSE	NRCS PLANTS Database	USDA National
NP	Nonvascular plant	CSE	NRCS PLANTS Database	USDA National

**NRV\_LIFEFORM\_CLASSES (cont.)**

<b>Code</b>	<b>Description</b>	<b>Use</b>	<b>Source</b>	<b>Approval</b>
SH	Woody Shrub	CSE	NRCS PLANTS Database	USDA National
SS	Woody Subshrub/Half-shrub	CSE	NRCS PLANTS Database	USDA National
TR	Woody Tree	CSE	NRCS PLANTS Database	USDA National
UN	Unknown	CSE	NRCS PLANTS Database	USDA National
VI	Herbaceous Vine	CSE	NRCS PLANTS Database	USDA National
VP	All vascular plants	CSE	OCMA reporting	NRIS

## NRV\_LIFEFORM\_MODIFIERS

Name	Size	Description
CREATED_BY <i>Required</i>	VC(30)	The name of the person who created the record.
CREATED_DATE <i>Required</i>	DATE	The date the record was created.
CREATED_IN_INSTANCE <i>Required</i>	N(6)	The database ID where the record was created.
DESCRIPTION <i>Required</i>	VC(50)	Short description of the lifeform modifier.
LIFEFORM_MODIFIER <i>Required</i>	VC(4)	Code used to modify, or further describe, each lifeform.
MODIFIED_BY	VC(30)	The name of the person who modified the record.
MODIFIED_DATE	DATE	The date the record was modified.
MODIFIED_IN_INSTANCE	N(6)	The database ID where the record was modified.
ON_OFF	VC(3)	Flag to display (ON) or hide (OFF) individual references in the Interface pull-down lists.
DEFINITION	VC(500)	Long description, or definition, of the lifeform modifier.

Lifeform Modifier	Description	Definition
BG	Bunch grass	Multi-stemmed caespitose grasses characterized by stems emerging from a relatively tight, central point. These clumps of erect shoots slowly spread horizontally by tillers, generally creating distinct individual plants with space between them. This term is often applied to sedges and other graminoids with similar life forms, but not in PLANTS.
BL	Broad-leaved	A plant with leaves that have well-defined leaf blades and are relatively wide in outline (shape) as opposed to needle-like or linear; leaf area is typically greater than 500 square millimeters or 1 square inch.
CB	Climbing	Stems trail or creep on the ground or climb by winding or tendrils.
CG	Creeping	Stems grow at or just beneath the surface of the ground and usually produce roots at nodes.

**NRV\_LIFEFORM\_MODIFIERS (cont.)**

<b>Lifeform Modifier</b>	<b>Description</b>	<b>Definition</b>
CO	Conical-crowned	Stems create a cone shape. Typically describes a needle-leaved evergreen tree with a pyramidal or cone-shaped canopy or life form; for example, Douglas fir and silver fir ( <i>Pseudotsuga menziesii</i> and <i>Abies amabilis</i> ).
CP	Cushion plant	A low, woody, plant life form so densely branched that it forms a compact canopy that is pad- or bolster-like in appearance; usually with microphyllous foliage; characteristic of alpine and tundra plants; pulvinate.
CR	Crustose	Lichen life form that grows in intimate contact with its substrate, lacks a lower cortex and rhizoids (root-like structures), and is impossible to separate from the substrate without destroying the thallus; lichen with an unlobed, flattened thallus, growing adnate to the substrate.
CS	Caespitose	Describes a low branching pattern from near the base that forms a multi-stemmed or a bunched appearance.
CY	Cylindrical-crowned	Stems grow nearly vertical. Typically describes a needle-leaved evergreen tree with a narrow, essentially cylinder-shaped canopy or life form; for example, subalpine fir and black spruce ( <i>Abies lasiocarpa</i> and <i>Picea mariana</i> ).
DD	Drought-deciduous	Plant that sheds its leaves as a strategy to avoid seasonal periods of high transpiration demand; applied to vegetation that is adapted to climates with seasonal drought and little cold-season influence (tropical-subtropical).
DE	Deciduous	Woody plant that seasonally loses all of its leaves and becomes temporarily bare-stemmed.
DT	Decumbent	Stems are declining.
EP	Epiphyte	Vascular plant that grows by germinating and rooting on other plants or other perched structures; sometimes called 'air plants.'
ER	Erect	Stems grow generally erect.
EV	Evergreen	Plant that has green leaves all year round; or a plant that in xeric habitats has green stems or trunks and never produces leaves.
FD	Facultatively deciduous	Describes evergreen species that shed leaves only under extreme conditions; this strategy is often associated with plants found in semiarid saline/alkaline environments; for example, <i>Atriplex-Kochia</i> saltbush in Australia and North America.
FO	Foliose	Lichen life form that is leafy in appearance and loosely attached to its substrate; lichen with a lobed, flattened thallus growing loosely attached to the substrate, the lobes flattened or inflated with distinctly differentiated upper and lower surfaces; umbilicate lichens are included.
FR	Fruticose	Lichen life form that is bunched, shrubby or 'hairy' in appearance and loosely attached to its substrate; lichen with the thallus branched, the branches solid, or hollow and round, or flattened without distinctly differentiated upper and lower surfaces; squamulose lichens are included.
HS	Hemi-sclerophyllous	Describes a plant with stiff, firm, leathery leaves that partially retain their rigidity during wilting; for example, rhododendron and salal ( <i>Rhododendron</i> and <i>Gaultheria</i> ).

**NRV\_LIFEFORM\_MODIFIERS (cont.)**

<b>Lifeform Modifier</b>	<b>Description</b>	<b>Definition</b>
HY	Hygromorphous herbs	Herbaceous plants structurally adapted for life in water-dominated or aquatic habitats.
IR	Irregular	Stems grow in a variety of forms; irregular crown shape.
KR	Krummholz	Growth form assumed by tree species at the upper treeline or in the alpine zone; characterized by a creeping and multi-stemmed growth pattern due to desiccation and physical damage caused by wind and blowing ice crystals near the upper treeline (the same species grows as an erect, single-stemmed tree at lower elevation).
LF	Low forb	A broad-leaved herbaceous plant usually less than 1 meter or 3 feet tall when inflorescences are fully developed.
MP	Microphyllous	Describes a plant with small leaves; individual leaf surface areas are less than 500 square millimeters or one square inch.
MT	Matted	Describes a creeping plant that by reiterative growth has overlapping stems and forms a low, dense ground cover.
MU	Multi-stem	Generally woody shrubs that produce multiple stems from the crown of the plant.
NL	Needle-leaved	Describes a plant with slender, elongated leaves; for example, pine and fir trees ( <i>Pinus</i> and <i>Abies</i> ).
OV	Oval	Stems create an oval shape
PM	Pulvinate mosses	Mosses growing in cushion-like mats or clumps.
PR	Prostrate	Stems grow relatively tight to the ground.
RH	Rhizomatous	Plants that spread by underground stems or rhizomes.
RL	Rosulate	A plant with leaves arranged in rosettes (circular clusters).
RO	Rounded-crowned	Stems create a rounded shape. Typically describes a needle-leaved evergreen tree with a basically semi-circular canopy or life form; for example, whitebark pine and alligator juniper ( <i>Pinus albicaulis</i> and <i>Juniperus deppeana</i> ).
SC	Single crown	Generally, an herbaceous plant that emerges as a single crown, then produces a single or multiple stems.
SE	Semi-erect	Stems grow somewhat erect.
SF	Suffruticose	A somewhat shrubby plant in which the upper vegetative and flowering shoots die back to leave only the lower parts to survive unfavorable seasons.
SG	Sod grass	A life form of graminoids that tends to develop a solid mat of grass, sedge, etc. Much reproduction is by vegetative increase of rhizomes or stolons, so resulting vegetation generally has few spaces between plants.
SI	Single stem	Generally trees, which produce a single stem from which branches are produced.
SL	Scale-leaved	Describes a plant with small, overlapping leaves that usually lie flat on the stem; for example, eastern redcedar and western redcedar ( <i>Juniperus virginiana</i> and <i>Thuja plicata</i> ).
SN	Stoloniferous	Plants that spread by aboveground stems or stolons.
SP	Sclerophyllous	Describes a plant with usually evergreen leaves that are stiff and firm and retain their stiffness even when wilted; they are common in, but not restricted to, regions with a long summer drought and predictable yet limited winter rain.

**NRV\_LIFEFORM\_MODIFIERS (cont.)**

<b>Lifeform Modifier</b>	<b>Description</b>	<b>Definition</b>
ST	Succulent	A plant with fleshy stems or leaves with specialized tissue for the conservation of water; a xeromorphic strategy for tolerating long periods of drought.
TF	Tall forb	Broad-leaved herbaceous plants usually greater than 1 meter or 3 feet tall when inflorescences are fully developed.
TS	Tussock	Graminoid life form consisting of bunch-like tufts, sometimes more than 1 meter or 3 feet tall, in which the hard, old, withered leaves are intermingled with the fresh, young, green leaves.
TT	Tuft-tree	Woody plant with large leaf-fronds or rosulate branches at the tips of major trunk(s); for example, palms and tree ferns.
UM	Umbellate crown	Umbellate (flat-topped) crown (e.g. <i>Albizia falcataria</i> ).
UR	Umbrella crown	Umbrella-like crown (e.g. <i>Samanea saman</i> ).
VS	Vase	Stems create a vase shape.
WP	Woody plant	Plant life form with woody (lignified) tissue and buds on that woody tissue near or at the ground surface or above; plants with limited to extensive thickening by secondary woody growth and with perennating buds.



# NRV\_MEASUREMENT\_STANDARDS

This table describes the unit of measure and accuracy standards for each setting.

Name	Size	Description						
CREATED_BY <i>Required</i>	VC(30)	The name of the person who created the record.						
CREATED_DATE <i>Required</i>	DATE	The date the record was created.						
CREATED_IN_INSTANCE <i>Required</i>	N(6)	The database ID where the record was created.						
ID <i>Required</i>	VC(12)	A number that uniquely identifies each record in this table.						
BUFFER_PRE	VC(50)	Precision description of Nrv_setting_measurements.buffer_width						
BUFFER_UOM	VC(25)	Unit of measure of Nrv_setting_measurements.buffer_width <table border="1" style="margin-left: 40px;"> <thead> <tr> <th>Code</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>FEET</td> <td></td> </tr> <tr> <td>PERCENT</td> <td></td> </tr> </tbody> </table>	Code	Use	FEET		PERCENT	
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CANOPY_CLOSURE_PRE	VC(50)	Precision description of Nrv_setting_measurements.canopy_closure						
CANOPY_CLOSURE_UOM	VC(25)	Unit of measure of Nrv_setting_measurements.canopy_closure <table border="1" style="margin-left: 40px;"> <thead> <tr> <th>Code</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>PERCENT</td> <td></td> </tr> </tbody> </table>	Code	Use	PERCENT			
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Name	Size	Description																		
CM_SUBGROUP_CODE_DEF	VC(80)	Definition of Nrv_tree_measurements.subgroup_code																		
COVER_AGE_PRE	VC(50)	Precision description of Nrv_cover_measurements.age																		
COVER_DRY_WT_PRE	VC(50)	Precision description of Nrv_cover_measurements.dry_wt																		
COVER_DRY_WT_UOM	VC(25)	Unit of measure of Nrv_cover_measurements.dry_wt <table border="1" style="margin-left: 40px;"> <thead> <tr> <th>Code</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>GRAMS</td> <td></td> </tr> <tr> <td>KILOGRAMS</td> <td></td> </tr> <tr> <td>KILOGRAMS PER HECTARE</td> <td></td> </tr> <tr> <td>POUNDS</td> <td></td> </tr> <tr> <td>POUNDS PER ACRE</td> <td></td> </tr> <tr> <td>OUNCES</td> <td></td> </tr> <tr> <td>TONS</td> <td></td> </tr> <tr> <td>TONS PER ACRE</td> <td></td> </tr> </tbody> </table>	Code	Use	GRAMS		KILOGRAMS		KILOGRAMS PER HECTARE		POUNDS		POUNDS PER ACRE		OUNCES		TONS		TONS PER ACRE	
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**NRV\_MEASUREMENT\_STANDARDS (cont.)**

Name	Size	Description																		
COVER_GREEN_WT_PRE	VC(50)	Precision description of Nrv_cover_measurements.green_wt																		
COVER_GREEN_WT_UOM	VC(25)	Unit of measure of Nrv_cover_measurements.green_wt <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Code</th> <th>Use</th> </tr> </thead> <tbody> <tr><td>GRAMS</td><td></td></tr> <tr><td>KILOGRAMS</td><td></td></tr> <tr><td>KILOGRAMS PER HECTARE</td><td></td></tr> <tr><td>POUNDS</td><td></td></tr> <tr><td>POUNDS PER ACRE</td><td></td></tr> <tr><td>OUNCES</td><td></td></tr> <tr><td>TONS</td><td></td></tr> <tr><td>TONS PER ACRE</td><td></td></tr> </tbody> </table>	Code	Use	GRAMS		KILOGRAMS		KILOGRAMS PER HECTARE		POUNDS		POUNDS PER ACRE		OUNCES		TONS		TONS PER ACRE	
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COVER_HEIGHT_PRE	VC(50)	Precision description of Nrv_cover_measurements.height																		
COVER_HEIGHT_UOM	VC(25)	Unit of measure of Nrv_cover_measurements.height <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Code</th> <th>Use</th> </tr> </thead> <tbody> <tr><td>FEET</td><td>CSE</td></tr> </tbody> </table>	Code	Use	FEET	CSE														
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COVER_INTERCEPT_PRE	VC(50)	Precision description of Intercept in the Nrv_cover_measurements table.																		
COVER_INTERCEPT_UOM	VC(25)	Unit of measure of Intercept in the Nrv_cover_measurements table. <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Code</th> <th>Use</th> </tr> </thead> <tbody> <tr><td>CENTIMETERS</td><td></td></tr> <tr><td>FEET</td><td></td></tr> <tr><td>INCHES</td><td></td></tr> <tr><td>METERS</td><td></td></tr> <tr><td>PERCENT OF TRANSECT</td><td></td></tr> </tbody> </table>	Code	Use	CENTIMETERS		FEET		INCHES		METERS		PERCENT OF TRANSECT							
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PERCENT OF TRANSECT																				
COVER_PERCENT_PRE	VC(50)	Precision description of Nrv_cover_measurements.cover_percent																		
DESCRIPTION	VC(50)	Description of the measurement standard record. Example: "Common Stand Exam protocols."																		
DW_SUBGROUP_CODE_DEF	VC(80)	Definition of Nrv_down_woody_measurements.subgroup_code																		
DWOOD_DEPTH_PRE	VC(50)	Precision description of Nrv_down_woody_measurements.depth																		
DWOOD_DEPTH_UOM	VC(25)	Unit of measure of Nrv_down_woody_measurements.depth <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Code</th> <th>Use</th> </tr> </thead> <tbody> <tr><td>CENTIMETERS</td><td></td></tr> <tr><td>FEET</td><td></td></tr> <tr><td>INCHES</td><td>CSE</td></tr> <tr><td>METERS</td><td></td></tr> </tbody> </table>	Code	Use	CENTIMETERS		FEET		INCHES	CSE	METERS									
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**NRV\_MEASUREMENT\_STANDARDS (cont.)**

Name	Size	Description										
DWOOD_DEPTH_2_PRE	VC(50)	Precision description of Nrv_down_woody_measurements.depth2										
DWOOD_DEPTH_2_UOM	VC(25)	Unit of measure of Nrv_down_woody_measurements.depth2 <table border="1"> <thead> <tr> <th>Code</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>CENTIMETERS</td> <td></td> </tr> <tr> <td>FEET</td> <td></td> </tr> <tr> <td>INCHES</td> <td>CSE</td> </tr> <tr> <td>METERS</td> <td></td> </tr> </tbody> </table>	Code	Use	CENTIMETERS		FEET		INCHES	CSE	METERS	
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DWOOD_DIAMETER_PRE	VC(50)	Precision description of Nrv_down_woody_measurements.diameter										
DWOOD_DIAMETER_UOM	VC(25)	Unit of measure of Nrv_down_woody_measurements.diameter <table border="1"> <thead> <tr> <th>Code</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>CENTIMETERS</td> <td></td> </tr> <tr> <td>FEET</td> <td></td> </tr> <tr> <td>INCHES</td> <td>CSE</td> </tr> <tr> <td>METERS</td> <td></td> </tr> </tbody> </table>	Code	Use	CENTIMETERS		FEET		INCHES	CSE	METERS	
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DWOOD_FUEL_DEPTH_PRE	VC(50)	Precision description of Nrv_down_woody_measurements.fuel_bed_depth										
DWOOD_FUEL_DEPTH_UOM	VC(25)	Unit of measure of Nrv_down_woody_measurements.fuel_bed_depth <table border="1"> <thead> <tr> <th>Code</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>CENTIMETERS</td> <td></td> </tr> <tr> <td>FEET</td> <td>CSE</td> </tr> <tr> <td>INCHES</td> <td></td> </tr> <tr> <td>METERS</td> <td></td> </tr> </tbody> </table>	Code	Use	CENTIMETERS		FEET	CSE	INCHES		METERS	
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DWOOD_LENGTH_PRE	VC(50)	Precision description of Nrv_down_woody_measurements.length										
DWOOD_LENGTH_UOM	VC(25)	Unit of measure of Nrv_down_woody_measurements.length <table border="1"> <thead> <tr> <th>Code</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>CENTIMETERS</td> <td></td> </tr> <tr> <td>FEET</td> <td>CSE</td> </tr> <tr> <td>INCHES</td> <td></td> </tr> <tr> <td>METERS</td> <td></td> </tr> </tbody> </table>	Code	Use	CENTIMETERS		FEET	CSE	INCHES		METERS	
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**NRV\_MEASUREMENT\_STANDARDS (cont.)**

Name	Size	Description																		
DWOOD_VOLUME_PRE	VC(50)	Precision description of Nrv_down_woody_measurements.volume																		
DWOOD_VOLUME_UOM	VC(25)	Unit of measure of Nrv_down_woody_measurements.volume <table border="1"> <thead> <tr> <th>Code</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>BOARD FEET</td> <td></td> </tr> <tr> <td>CORDS</td> <td></td> </tr> <tr> <td>CUBIC FEET</td> <td>CSE</td> </tr> <tr> <td>CUBIC METERS</td> <td></td> </tr> <tr> <td>MBF</td> <td></td> </tr> </tbody> </table>	Code	Use	BOARD FEET		CORDS		CUBIC FEET	CSE	CUBIC METERS		MBF							
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DWOOD_WEIGHT_PRE	VC(50)	Precision description of Nrv_down_woody_measurements.weight																		
DWOOD_WEIGHT_UOM	VC(25)	Unit of measure of Nrv_down_woody_measurements.weight <table border="1"> <thead> <tr> <th>Code</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>GRAMS</td> <td></td> </tr> <tr> <td>KILOGRAMS</td> <td></td> </tr> <tr> <td>KILOGRAMS PER HECTARE</td> <td></td> </tr> <tr> <td>POUNDS</td> <td></td> </tr> <tr> <td>POUNDS PER ACRE</td> <td></td> </tr> <tr> <td>OUNCES</td> <td></td> </tr> <tr> <td>TONS</td> <td></td> </tr> <tr> <td>TONS PER ACRE</td> <td>CSE</td> </tr> </tbody> </table>	Code	Use	GRAMS		KILOGRAMS		KILOGRAMS PER HECTARE		POUNDS		POUNDS PER ACRE		OUNCES		TONS		TONS PER ACRE	CSE
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ELEVATION_PRE	VC(50)	Precision description of Nrv_setting_measurements.elevation																		
ELEVATION_UOM	VC(25)	Unit of measure of Nrv_setting_measurements.elevation <table border="1"> <thead> <tr> <th>Code</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>FEET</td> <td>CSE</td> </tr> <tr> <td>METERS</td> <td></td> </tr> </tbody> </table>	Code	Use	FEET	CSE	METERS													
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MANUAL_VERSION	VC(15)	FIA. Version of the data collection manual used when the data was collected.																		
MODIFIED_BY	VC(30)	The name of the person who modified the record.																		
MODIFIED_DATE	DATE	The date the record was modified.																		
MODIFIED_IN_INSTANCE	N(6)	The database ID where the record was modified.																		
NUMBER_OF_PANELS	N(2)	FIADB Survey Table variable. The number of years it will take to measure all of the plots on the base grid. Plots on the base grid are measured on a multiple year cycle with the intention of measuring 1/n (where n is the number of years in the cycle) of the plots (called a panel) every year. The plots in any panel are chosen so they are uniformly distributed within the monitoring area.																		

**NRV\_MEASUREMENT\_STANDARDS (cont.)**

Name	Size	Description												
ON_OFF	VC(3)	Flag to display (ON) or hide (OFF) measurement standards. Default is "ON."												
REF_PT_DIAMTER_PRE	VC(50)	Precision description of Nrv_reference_points.diameter												
REF_PT_DIAMTER_UOM	VC(25)	Unit of measure of Nrv_reference_points.diameter <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Code</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>CENTIMETERS</td> <td></td> </tr> <tr> <td>FEET</td> <td></td> </tr> <tr> <td>INCHES</td> <td></td> </tr> <tr> <td>METERS</td> <td></td> </tr> </tbody> </table>	Code	Use	CENTIMETERS		FEET		INCHES		METERS			
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REF_PT_DIAMTER_HEIGHT_PRE	VC(50)	Precision description of Nrv_reference_points.diameter_height												
REF_PT_DIAMTER_HEIGHT_UOM	VC(25)	Unit of measure of Nrv_reference_points.diameter_height <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Code</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>CENTIMETERS</td> <td></td> </tr> <tr> <td>FEET</td> <td></td> </tr> <tr> <td>INCHES</td> <td></td> </tr> <tr> <td>METERS</td> <td></td> </tr> </tbody> </table>	Code	Use	CENTIMETERS		FEET		INCHES		METERS			
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SAMPLE_LENGTH_UOM	VC(25)	Unit of measure of Nrv_sample_designs.length <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Code</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>CENTIMETERS</td> <td></td> </tr> <tr> <td>CHAINS</td> <td></td> </tr> <tr> <td>FEET</td> <td></td> </tr> <tr> <td>INCHES</td> <td></td> </tr> <tr> <td>METERS</td> <td></td> </tr> </tbody> </table>	Code	Use	CENTIMETERS		CHAINS		FEET		INCHES		METERS	
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**NRV\_MEASUREMENT\_STANDARDS (cont.)**

Name	Size	Description														
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SAMPLE_WIDTH_UOM	VC(25)	Unit of measure of Nrv_sample_designs.width <table border="1"> <thead> <tr> <th>Code</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>CENTIMETERS</td> <td></td> </tr> <tr> <td>CHAINS</td> <td></td> </tr> <tr> <td>FEET</td> <td></td> </tr> <tr> <td>INCHES</td> <td></td> </tr> <tr> <td>METERS</td> <td></td> </tr> </tbody> </table>	Code	Use	CENTIMETERS		CHAINS		FEET		INCHES		METERS			
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METERS																
SETTING_SIZE_PRE	VC(50)	Precision description of Nrv_setting_measurements.setting_size														
SETTING_SIZE_UOM	VC(25)	Unit of measure of Nrv_setting_measurements.setting_size <table border="1"> <thead> <tr> <th>Code</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>ACRES</td> <td>CSE</td> </tr> <tr> <td>HECTARES</td> <td></td> </tr> <tr> <td>SQUARE FEET</td> <td></td> </tr> <tr> <td>SQUARE KILOMETERS</td> <td></td> </tr> <tr> <td>SQUARE METERS</td> <td></td> </tr> <tr> <td>SQUARE MILES</td> <td></td> </tr> </tbody> </table>	Code	Use	ACRES	CSE	HECTARES		SQUARE FEET		SQUARE KILOMETERS		SQUARE METERS		SQUARE MILES	
Code	Use															
ACRES	CSE															
HECTARES																
SQUARE FEET																
SQUARE KILOMETERS																
SQUARE METERS																
SQUARE MILES																
SLOPE_PRE	VC(50)	Precision description of Nrv_setting_measurements.slope														
SLOPE_UOM	VC(25)	Unit of measure of Nrv_setting_measurements.slope <table border="1"> <thead> <tr> <th>Code</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>DEGREES</td> <td></td> </tr> <tr> <td>PERCENT</td> <td>CSE</td> </tr> </tbody> </table>	Code	Use	DEGREES		PERCENT	CSE								
Code	Use															
DEGREES																
PERCENT	CSE															
SM_SUBGROUP_CODE_DEF	VC(80)	Definition of Nrv_setting_measurements table.subgroup_code														
TM_SUBGROUP_CODE_DEF	VC(80)	Definition of Nrv_tree_measurements.subgroup_code.														
TREE_AGE_PRE	VC(50)	Precision description of Nrv_tree_measurements.age														
TREE_CROWN_BASE_HEIGHT_PRE	VC(50)	Precision description of Nrv_tree_measurements.crown_base_height														
TREE_CROWN_BASE_HEIGHT_UOM	VC(25)	Unit of measure of Nrv_tree_measurements.crown_base_height <table border="1"> <thead> <tr> <th>Code</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>FEET</td> <td>CSE</td> </tr> <tr> <td>METERS</td> <td></td> </tr> </tbody> </table>	Code	Use	FEET	CSE	METERS									
Code	Use															
FEET	CSE															
METERS																
TREE_CROWN_LENGTH_PRE	VC(50)	Precision description of Nrv_tree_measurements.crown_length														
TREE_CROWN_LENGTH_UOM	VC(25)	Unit of measure of Nrv_tree_measurements.crown_length <table border="1"> <thead> <tr> <th>Code</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>FEET</td> <td></td> </tr> <tr> <td>METERS</td> <td></td> </tr> </tbody> </table>	Code	Use	FEET		METERS									
Code	Use															
FEET																
METERS																

**NRV\_MEASUREMENT\_STANDARDS (cont.)**

Name	Size	Description										
TREE_CROWN_LOCAL_PRE	VC(50)	Precision description of Nrv_tree_measurements.crown_local										
TREE_CROWN_LOCAL_UOM	VC(25)	Unit of measure of Nrv_tree_measurements.crown_local <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Code</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>FEET</td> <td></td> </tr> <tr> <td>METERS</td> <td></td> </tr> <tr> <td>PERCENT</td> <td></td> </tr> </tbody> </table>	Code	Use	FEET		METERS		PERCENT			
Code	Use											
FEET												
METERS												
PERCENT												
TREE_CROWN_RATIO_PRE	VC(50)	Precision description of Nrv_tree_measurements.crown_ratio										
TREE_CROWN_WIDTH_PRE	VC(50)	Precision description of Nrv_tree_measurements.crown_width										
TREE_CROWN_WIDTH_UOM	VC(25)	Unit of measure of Nrv_tree_measurements.crown_width <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Code</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>FEET</td> <td>CSE</td> </tr> <tr> <td>METERS</td> <td></td> </tr> </tbody> </table>	Code	Use	FEET	CSE	METERS					
Code	Use											
FEET	CSE											
METERS												
TREE_DIAMETER_PRE	VC(50)	Precision description of Nrv_tree_measurements.diameter										
TREE_DIAMETER_UOM	VC(25)	Unit of measure of Nrv_tree_measurements.diameter <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Code</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>CENTIMETERS</td> <td></td> </tr> <tr> <td>INCHES</td> <td>CSE</td> </tr> </tbody> </table>	Code	Use	CENTIMETERS		INCHES	CSE				
Code	Use											
CENTIMETERS												
INCHES	CSE											
TREE_DIAMETER_HEIGHT_PRE	VC(50)	Precision description of Nrv_tree_measurements.diameter_height										
TREE_DIAMETER_HEIGHT_UOM	VC(25)	Unit of measure of Nrv_tree_measurements.diameter_height <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Code</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>CENTIMETERS</td> <td></td> </tr> <tr> <td>INCHES</td> <td></td> </tr> <tr> <td>FEET</td> <td>CSE</td> </tr> <tr> <td>INCHES</td> <td></td> </tr> </tbody> </table>	Code	Use	CENTIMETERS		INCHES		FEET	CSE	INCHES	
Code	Use											
CENTIMETERS												
INCHES												
FEET	CSE											
INCHES												
TREE_DISTANCE_PRE	VC(50)	Precision description of Nrv_tree_measurements.distance										
TREE_DISTANCE_UOM	VC(25)	Unit of measure of Nrv_tree_measurements.distance <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Code</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>FEET</td> <td></td> </tr> <tr> <td>METERS</td> <td></td> </tr> </tbody> </table>	Code	Use	FEET		METERS					
Code	Use											
FEET												
METERS												
TREE_HEIGHT_PRE	VC(50)	Precision description of Nrv_tree_measurements.height										

**NRV\_MEASUREMENT\_STANDARDS (cont.)**

Name	Size	Description										
TREE_HEIGHT_UOM	VC(25)	Unit of measure of Nrv_tree_measurements.height <table border="1"> <thead> <tr> <th>Code</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>CENTIMETERS</td> <td></td> </tr> <tr> <td>INCHES</td> <td></td> </tr> <tr> <td>FEET</td> <td>CSE</td> </tr> <tr> <td>INCHES</td> <td></td> </tr> </tbody> </table>	Code	Use	CENTIMETERS		INCHES		FEET	CSE	INCHES	
Code	Use											
CENTIMETERS												
INCHES												
FEET	CSE											
INCHES												
TREE_HEIGHT_GROWTH_PRE	VC(50)	Precision description of Nrv_tree_measurements.height_growth										
TREE_HEIGHT_GROWTH_UOM	VC(25)	Unit of measure of Nrv_tree_measurements.height_growth <table border="1"> <thead> <tr> <th>Code</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>CENTIMETERS</td> <td></td> </tr> <tr> <td>INCHES</td> <td></td> </tr> <tr> <td>FEET</td> <td>CSE</td> </tr> <tr> <td>INCHES</td> <td></td> </tr> </tbody> </table>	Code	Use	CENTIMETERS		INCHES		FEET	CSE	INCHES	
Code	Use											
CENTIMETERS												
INCHES												
FEET	CSE											
INCHES												
TREE_HEIGHT_TOPKILL_PRE	VC(50)	Precision description of Nrv_tree_measurements.height_to_topkill										
TREE_HEIGHT_TOPKILL_UOM	VC(25)	Unit of measure of Nrv_tree_measurements.height_totopkill <table border="1"> <thead> <tr> <th>Code</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>CENTIMETERS</td> <td></td> </tr> <tr> <td>INCHES</td> <td></td> </tr> <tr> <td>FEET</td> <td></td> </tr> <tr> <td>INCHES</td> <td></td> </tr> </tbody> </table>	Code	Use	CENTIMETERS		INCHES		FEET		INCHES	
Code	Use											
CENTIMETERS												
INCHES												
FEET												
INCHES												
TREE_RADIAL_GROWTH_PRE	VC(50)	Precision description of Nrv_tree_measurements.radial_growth										
TREE_RADIAL_GROWTH_UOM	VC(25)	Unit of measure of Nrv_tree_measurements.radial_growth <table border="1"> <thead> <tr> <th>Code</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>CENTIMETERS</td> <td></td> </tr> <tr> <td>INCHES</td> <td></td> </tr> <tr> <td>TWENTIETH INCHES</td> <td>CSE</td> </tr> </tbody> </table>	Code	Use	CENTIMETERS		INCHES		TWENTIETH INCHES	CSE		
Code	Use											
CENTIMETERS												
INCHES												
TWENTIETH INCHES	CSE											
TREE_RADIAL_GROWTH_2_PRE	VC(50)	Precision description of Nrv_tree_measurements.radial_growth_2										
TREE_RADIAL_GROWTH_2_UOM	VC(25)	Unit of measure of Nrv_tree_measurements.radial_growth_2 <table border="1"> <thead> <tr> <th>Code</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>CENTIMETERS</td> <td></td> </tr> <tr> <td>INCHES</td> <td></td> </tr> <tr> <td>TWENTIETH INCHES</td> <td>CSE</td> </tr> </tbody> </table>	Code	Use	CENTIMETERS		INCHES		TWENTIETH INCHES	CSE		
Code	Use											
CENTIMETERS												
INCHES												
TWENTIETH INCHES	CSE											



## CSE and FIA Protocols

ID	CSE	CSE_E	CSE_Q	FIA_1.3	FIA_1.4	FIA_1.5	FIA_1.6
BUFFER_PRE							
BUFFER_UOM							
CANOPY_CLOSURE_PRE							
CANOPY_CLOSURE_UOM				PERCENT	PERCENT	PERCENT	PERCENT
CM_SUBGROUP_CODE_DEF							
COVER_AGE_PRE							
COVER_DRY_WT_PRE							
COVER_DRY_WT_UOM							
COVER_GREEN_WT_PRE							
COVER_GREEN_WT_UOM							
COVER_HEIGHT_PRE	± 10 percent of height	± 10 percent of height	± 10 percent of height				
COVER_HEIGHT_UOM	FEET	FEET	FEET				
COVER_INTERCEPT_PRE							
COVER_INTERCEPT_UOM							
COVER_PERCENT_PRE	± 10 percent	± 10 percent	± 10 percent				
DESCRIPTION	As defined by CSE intensive protocols	As defined by CSE extensive protocols	As defined by CSE quick plot protocols	See National Core Field Guide V1.3, 1999	See National Core Field Guide V1.4, 2000	See National Core Field Guide V1.5, 2001	See National Core Field Guide V1.6, 2002
DW_SUBGROUP_CODE_DEF							
DWOOD_DEPTH_PRE	Nearest 1/10 <sup>th</sup> inch, ± ½ inch	Nearest 1/10 <sup>th</sup> inch, ± ½ inch	Nearest 1/10 <sup>th</sup> inch, ± ½ inch				
DWOOD_DEPTH_UOM	INCHES	INCHES	INCHES				
DWOOD_DEPTH_2_PRE	Nearest 1/10 <sup>th</sup> inch, ± ½ inch	Nearest 1/10 <sup>th</sup> inch, ± ½ inch	Nearest 10 <sup>th</sup> inch, ± ½ inch				
DWOOD_DEPTH_2_UOM	INCHES	INCHES	INCHES				
DWOOD_DIAMETER_PRE	± 1 inch	± 1 inch	± 1 inch				
DWOOD_DIAMETER_UOM	INCHES	INCHES	INCHES				
DWOOD_FUEL_DEPTH_PRE	nearest whole-inch, ± 20%	nearest whole-inch, ± 20%	nearest whole-inch, ± 20%				
DWOOD_FUEL_DEPTH_UOM	INCHES	INCHES	INCHES				
DWOOD_LENGTH_PRE	± 20%	± 20%	± 20%				
DWOOD_LENGTH_UOM	FEET	FEET	FEET				
DWOOD_VOLUME_PRE	Undefined	Undefined	Undefined				
DWOOD_VOLUME_UOM	CUBIC FEET	CUBIC FEET	CUBIC FEET				
DWOOD_WEIGHT_PRE	Undefined	Undefined	Undefined				
DWOOD_WEIGHT_UOM	TONS PER ACRE	TONS PER ACRE	TONS PER ACRE				
ELEVATION_PRE	2 contour intervals	2 contour intervals	2 contour intervals	nearest foot	nearest foot	nearest foot	nearest foot
ELEVATION_UOM	FEET	FEET	FEET	FEET	FEET	FEET	FEET

**CSE and FIA Protocols (cont.)**

ID	CSE	CSE_E	CSE_Q	FIA_1.3	FIA_1.4	FIA_1.5	FIA_1.6
MANUAL_VERSION				1.3	1.4	1.5	1.6
NUMBER_OF_PANELS							
REF_PT_DIAMETER_PRE				nearest tenth-inch	nearest tenth-inch	nearest tenth-inch	nearest tenth-inch
REF_PT_DIAMETER_UOM				INCHES	INCHES	INCHES	INCHES
REF_PT_DIAMETER_HEIGHT_PRE				4.5 feet on uphill side	4.5 feet on uphill side	4.5 feet on uphill side	4.5 feet on uphill side
REF_PT_DIAMETER_HEIGHT_UOM				FEET	FEET	FEET	FEET
REF_PT_DISTANCE_PRE				nearest tenth-foot	nearest tenth-foot	nearest tenth-foot	nearest tenth-foot
REF_PT_DISTANCE_UOM				FEET	FEET	FEET	FEET
SAMPLE_LENGTH_UOM							
SAMPLE_WIDTH_PRE							
SAMPLE_WIDTH_UOM							
SETTING_SIZE_PRE	Undefined	Undefined	Undefined				
SETTING_SIZE_UOM	ACRES	ACRES	ACRES				
SLOPE_PRE	10%	10%	10%	nearest percent	nearest percent	nearest percent	nearest percent
SLOPE_UOM	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
SM_SUBGROUP_CODE_DEF							
TM_SUBGROUP_CODE_DEF							
TREE_AGE_PRE	10% if ≤ 299 years old, 15% if ≥ 300 years old	10% if ≤ 299 years old, 15% if ≥ 300 years old	10% if ≤ 299 years old, 15% if ≥ 300 years old	nearest year	nearest year	nearest year	nearest year
TREE_CROWN_BASE_HEIGHT_PRE	+ - 10 percent	+ - 20 percent	+ - 20 percent	nearest whole foot	nearest whole foot	nearest whole foot	nearest whole foot
TREE_CROWN_BASE_HEIGHT_UOM	FEET	FEET	FEET	FEET	FEET	FEET	FEET
TREE_CROWN_LENGTH_PRE				nearest whole foot	nearest whole foot	nearest whole foot	nearest whole foot
TREE_CROWN_LENGTH_UOM				FEET	FEET	FEET	FEET
TREE_CROWN_LOCAL_PRE							
TREE_CROWN_LOCAL_UOM							
TREE_CROWN_RATIO_PRE	+ - 10 percent	20%	20%	nearest percent	nearest percent	nearest percent	nearest percent
TREE_CROWN_WIDTH_PRE	10%	20%	20%				
TREE_CROWN_WIDTH_UOM	FEET	FEET	FEET				
TREE_DIAMETER_PRE	nearest 1/10 <sup>th</sup> inch	nearest inch	nearest 2 inch class	nearest tenth-inch	nearest tenth-inch	nearest tenth-inch	nearest tenth-inch
TREE_DIAMTER_UOM	INCHES	INCHES	INCHES	INCHES	INCHES	INCHES	INCHES
TREE_DIAMTER_HEIGHT_PRE	Either 4.5 feet or "0" feet for DRC species	4.5 feet on uphill side or "0" feet for DRC species	4.5 feet on uphill side or "0" feet for DRC species	4.5 feet on uphill side or "0" for DRC species	4.5 feet on uphill side or "0" for DRC	4.5 feet on uphill side or "0" for DRC species	4.5 feet on uphill side or "0" for DRC species
TREE_DIAMTER_HEIGHT_UOM	FEET	FEET	FEET	FEET	FEET	FEET	FEET

**CSE and FIA Protocols (cont.)**

ID	CSE	CSE_E	CSE_Q	FIA_1.3	FIA_1.4	FIA_1.5	FIA_1.6
TREE_DISTANCE_PRE				nearest tenth-foot	nearest tenth-foot	nearest tenth-foot	nearest tenth-foot
TREE_DISTANCE_UOM				FEET	FEET	FEET	FEET
TREE_HEIGHT_PRE	+ - 10 percent of actual height	+ - 20 percent of actual height	+ - 20 percent of actual height	nearest whole foot	nearest whole foot	nearest whole foot	nearest whole foot
TREE_HEIGHT_UOM	FEET	FEET	FEET	FEET	FEET	FEET	FEET
TREE_HEIGHT_GROWTH_PRE	Nearest 10 <sup>th</sup> foot	Nearest 10 <sup>th</sup> foot	Nearest 10 <sup>th</sup> foot	nearest tenth-foot	nearest tenth-foot	nearest tenth-foot	nearest tenth-foot
TREE_HEIGHT_GROWTH_UOM	FEET	FEET	FEET	FEET	FEET	FEET	FEET
TREE_HEIGHT_TOPKILL_PRE				nearest whole foot	nearest whole foot	nearest whole foot	nearest whole foot
TREE_HEIGHT_TOPKILL_UOM				FEET	FEET	FEET	FEET
TREE_RADIAL_GROWTH_PRE	+ - 1/20 <sup>th</sup> inch	+ - 1/20 <sup>th</sup> inch	+ - 1/20 <sup>th</sup> inch	nearest twentieth inch	nearest twentieth inch	nearest twentieth inch	nearest twentieth inch
TREE_RADIAL_GROWTH_UOM	TWENTIETH INCHES	TWENTIETH INCHES	TWENTIETH INCHES	INCHES	INCHES	INCHES	INCHES
TREE_RADIAL_GROWTH_2_PRE	+ - 1/20 <sup>th</sup> inch	+ - 1/20 <sup>th</sup> inch	+ - 1/20 <sup>th</sup> inch				
TREE_RADIAL_GROWTH_2_UOM	TWENTIETH INCHES	TWENTIETH INCHES	TWENTIETH INCHES				

**FIA\_NCRS Protocols**

ID	FIA_NCRS_1.3	FIA_NCRS_1.4	FIA_NCRS_1.5	FIA_NCRS_1.6
BUFFER_PRE				
BUFFER_UOM				
CANOPY_CLOSURE_PRE				
CANOPY_CLOSURE_UOM	PERCENT	PERCENT	PERCENT	PERCENT
CM_SUBGROUP_CODE_DEF				
COVER_AGE_PRE				
COVER_DRY_WT_PRE				
COVER_DRY_WT_UOM				
COVER_GREEN_WT_PRE				
COVER_GREEN_WT_UOM				
COVER_HEIGHT_PRE				
COVER_HEIGHT_UOM				
COVER_INTERCEPT_PRE				
COVER_INTERCEPT_UOM				
COVER_PERCENT_PRE				
DESCRIPTION	See NCRS Field Guide Version 1.3	See NCRS Field Guide Version 1.4	See NCRS Field Guide Version 1.5	See NCRS Field Guide Version 1.6
DW_SUBGROUP_CODE_DEF				
DWOOD_DEPTH_PRE				
DWOOD_DEPTH_UOM				
DWOOD_DEPTH_2_PRE				
DWOOD_DEPTH_2_UOM				

**FIA\_NCRS Protocols (cont.)**

ID	FIA_NCRS_1.3	FIA_NCRS_1.4	FIA_NCRS_1.5	FIA_NCRS_1.6
DWOOD_DIAMETER_PRE				
DWOOD_DIAMETER_UOM				
DWOOD_FUEL_DEPTH_PRE				
DWOOD_FUEL_DEPTH_UOM				
DWOOD_LENGTH_PRE				
DWOOD_LENGTH_UOM				
DWOOD_VOLUME_PRE				
DWOOD_VOLUME_UOM				
DWOOD_WEIGHT_PRE				
DWOOD_WEIGHT_UOM				
ELEVATION_PRE	nearest foot	nearest foot	nearest foot	nearest foot
ELEVATION_UOM	FEET	FEET	FEET	FEET
MANUAL_VERSION	1.3	1.4	1.5	1.6
NUMBER_OF_PANELS				
REF_PT_DIAMETER_PRE		nearest tenth-inch	nearest tenth-inch	nearest tenth-inch
REF_PT_DIAMETER_UOM		INCHES	INCHES	INCHES
REF_PT_DIAMETER_HEIGHT_PRE		4.5 feet on uphill side	4.5 feet on uphill side	4.5 feet on uphill side
REF_PT_DIAMETER_HEIGHT_UOM		FEET	FEET	FEET
REF_PT_DISTANCE_PRE		nearest tenth-foot	nearest tenth-foot	nearest tenth-foot
REF_PT_DISTANCE_UOM		FEET	FEET	FEET
SAMPLE_LENGTH_PRE				
SAMPLE_LENGTH_UOM				
SAMPLE_WIDTH_PRE				
SAMPLE_WIDTH_UOM				
SETTING_SIZE_PRE	nearest acre			
SETTING_SIZE_UOM	ACRES			
SLOPE_PRE	nearest percent	nearest percent	nearest percent	nearest percent
SLOPE_UOM	PERCENT	PERCENT	PERCENT	PERCENT
SM_SUBGROUP_CODE_DEF				
TM_SUBGROUP_CODE_DEF				
TREE_AGE_PRE		nearest year	nearest year	nearest year
TREE_CROWN_BASE_HEIGHT_PRE		nearest whole foot	nearest whole foot	nearest whole foot
TREE_CROWN_BASE_HEIGHT_UOM		FEET	FEET	FEET
TREE_CROWN_LENGTH_PRE		nearest whole foot	nearest whole foot	nearest whole foot
TREE_CROWN_LENGTH_UOM		FEET	FEET	FEET
TREE_CROWN_LOCAL_PRE				
TREE_CROWN_LOCAL_UOM				
TREE_CROWN_RATIO_PRE		nearest percent	nearest percent	nearest percent
TREE_CROWN_WIDTH_PRE				
TREE_CROWN_WIDTH_UOM				
TREE_DIAMETER_PRE		nearest tenth-inch	nearest tenth-inch	nearest tenth-inch
TREE_DIAMETER_UOM		INCHES	INCHES	INCHES

**FIA\_NCRS Protocols (cont.)**

ID	FIA_NCRS_1.3	FIA_NCRS_1.4	FIA_NCRS_1.5	FIA_NCRS_1.6
TREE_DIAMETER_HEIGHT_PRE		4.5 feet on uphill side or "0" for DRC species	4.5 feet on uphill side or "0" for DRC species	4.5 feet on uphill side or "0" for DRC species
TREE_DIAMETER_HEIGHT_UOM		FEET	FEET	FEET
TREE_DISTANCE_PRE		nearest tenth-foot	nearest tenth-foot	nearest tenth-foot
TREE_DISTANCE_UOM		feet	feet	feet
TREE_HEIGHT_PRE		nearest whole foot	nearest whole foot	nearest whole foot
TREE_HEIGHT_UOM		FEET	FEET	FEET
TREE_HEIGHT_GROWTH_PRE		nearest tenth-foot	nearest tenth-foot	nearest tenth-foot
TREE_HEIGHT_GROWTH_UOM		FEET	FEET	FEET
TREE_HEIGHT_TOPKILL_PRE		nearest whole foot	nearest whole foot	nearest whole foot
TREE_HEIGHT_TOPKILL_UOM		FEET	FEET	FEET
TREE_RADIAL_GROWTH_PRE		nearest twentieth-inch	nearest twentieth-inch	nearest twentieth-inch
TREE_RADIAL_GROWTH_UOM		INCHES	INCHES	INCHES
TREE_RADIAL_GROWTH_2_PRE				
TREE_RADIAL_GROWTH_2_UOM				

**FIA\_NERS Protocols**

ID	FIA_NERS_1.3	FIA_NERS_1.4	FIA_NERS_1.5	FIA_NERS_1.6
BUFFER_PRE				
BUFFER_UOM				
CANOPY_CLOSURE_PRE				
CANOPY_CLOSURE_UOM	PERCENT	PERCENT	PERCENT	PERCENT
CM_SUBGROUP_CODE_DEF				
COVER_AGE_PRE				
COVER_DRY_WT_PRE				
COVER_DRY_WT_UOM				
COVER_GREEN_WT_PRE				
COVER_GREEN_WT_UOM				
COVER_HEIGHT_PRE				
COVER_HEIGHT_UOM				
COVER_INTERCEPT_PRE				
COVER_INTERCEPT_UOM				
COVER_PERCENT_PRE				
DESCRIPTION	See NERS Field Guide Version 1.3	See NERS Field Guide Version 1.4	See NERS Field Guide Version 1.5	See NERS Field Guide Version 1.6
DW_SUBGROUP_CODE_DEF				
DWOOD_DEPTH_PRE				
DWOOD_DEPTH_UOM				
DWOOD_DEPTH_2_PRE				
DWOOD_DEPTH_2_UOM				

**FIA\_NERS Protocols (cont.)**

ID	FIA_NERS_1.3	FIA_NERS_1.4	FIA_NERS_1.5	FIA_NERS_1.6
DWOOD_DIAMETER_PRE				
DWOOD_DIAMETER_UOM				
DWOOD_FUEL_DEPTH_PRE				
DWOOD_FUEL_DEPTH_UOM				
DWOOD_LENGTH_PRE				
DWOOD_LENGTH_UOM				
DWOOD_VOLUME_PRE				
DWOOD_VOLUME_UOM				
DWOOD_WEIGHT_PRE				
DWOOD_WEIGHT_UOM				
ELEVATION_PRE	nearest foot	nearest foot	nearest foot	nearest foot
ELEVATION_UOM	FEET	FEET	FEET	FEET
MANUAL_VERSION	1.3	.14	1.5	1.6
NUMBER_OF_PANELS				
REF_PT_DIAMETER_PRE	Nearest tenth-inch	nearest tenth-inch	nearest tenth-inch	nearest tenth-inch
REF_PT_DIAMETER_UOM	INCHES	INCHES	INCHES	INCHES
REF_PT_DIAMETER_HEIGHT_PRE	4.5 feet on uphill side	4.5 feet on uphill side	4.5 feet on uphill side	4.5 feet on uphill side
REF_PT_DIAMETER_HEIGHT_UOM	FEET	FEET	FEET	FEET
REF_PT_DISTANCE_PRE	nearest tenth-foot	nearest tenth-foot	nearest tenth-foot	nearest tenth-foot
REF_PT_DISTANCE_UOM	FEET	FEET	FEET	FEET
SAMPLE_LENGTH_PRE				
SAMPLE_LENGTH_UOM				
SAMPLE_WIDTH_PRE				
SAMPLE_WIDTH_UOM				
SETTING_SIZE_PRE				
SETTING_SIZE_UOM				
SLOPE_PRE	nearest percent	nearest percent	nearest percent	nearest percent
SLOPE_UOM	PERCENT	PERCENT	PERCENT	PERCENT
SM_SUBGROUP_CODE_DEF				
TM_SUBGROUP_CODE_DEF				
TREE_AGE_PRE	nearest year	nearest year	nearest year	nearest year
TREE_CROWN_BASE_HEIGHT_PRE	nearest whole foot	nearest whole foot	nearest whole foot	nearest whole foot
TREE_CROWN_BASE_HEIGHT_UOM	FEET	FEET	FEET	FEET
TREE_CROWN_LENGTH_PRE	nearest whole foot	nearest whole foot	nearest whole foot	nearest whole foot
TREE_CROWN_LENGTH_UOM	FEET	FEET	FEET	FEET
TREE_CROWN_LOCAL_PRE				
TREE_CROWN_LOCAL_UOM				
TREE_CROWN_RATIO_PRE	nearest percent	nearest percent	nearest percent	nearest percent
TREE_CROWN_WIDTH_PRE				
TREE_CROWN_WIDTH_UOM				
TREE_DIAMETER_PRE	nearest tenth-inch	nearest tenth-inch	nearest tenth-inch	nearest tenth-inch

**FIA\_NERS Protocols (cont.)**

ID	FIA_NERS_1.3	FIA_NERS_1.4	FIA_NERS_1.5	FIA_NERS_1.6
TREE_DIAMTER_UOM	INCHES	INCHES	INCHES	INCHES
TREE_DIAMTER_HEIGHT_PRE	4.5 feet on uphill side or "0" for DRC	4.5 feet on uphill side or "0" for DRC species	4.5 feet on uphill side or "0" for DRC species	4.5 feet on uphill side or "0" for DRC species
TREE_DIAMTER_HEIGHT_UOM	FEET	FEET	FEET	FEET
TREE_DISTANCE_PRE	nearest tenth-foot	nearest tenth-foot	nearest tenth-foot	nearest tenth-foot
TREE_DISTANCE_UOM	FEET	FEET	FEET	FEET
TREE_HEIGHT_PRE	nearest whole foot	nearest whole foot	nearest whole foot	nearest whole foot
TREE_HEIGHT_UOM	FEET	FEET	FEET	FEET
TREE_HEIGHT_GROWTH_PRE	nearest tenth-foot	nearest tenth-foot	nearest tenth-foot	nearest tenth-foot
TREE_HEIGHT_GROWTH_UOM	FEET	FEET	FEET	FEET
TREE_HEIGHT_TOPKILL_PRE	nearest whole foot	nearest whole foot	nearest whole foot	nearest whole foot
TREE_HEIGHT_TOPKILL_UOM	FEET	FEET	FEET	FEET
TREE_RADIAL_GROWTH_PRE	nearest twentieth-inch	nearest twentieth-inch	nearest twentieth-inch	nearest twentieth-inch
TREE_RADIAL_GROWTH_UOM	INCHES	INCHES	INCHES	INCHES
TREE_RADIAL_GROWTH_2_PRE				
TREE_RADIAL_GROWTH_2_UOM				

**FIA\_PNW Protocols**

ID	FIA_PNW_1.3	FIA_PNW_1.4	FIA_PNW_1.5	FIA_PNW_1.6
BUFFER_PRE				
BUFFER_UOM				
CANOPY_CLOSURE_PRE				
CANOPY_CLOSURE_UOM	PERCENT	PERCENT	PERCENT	PERCENT
CM_SUBGROUP_CODE_DEF				
COVER_AGE_PRE				
COVER_DRY_WT_PRE				
COVER_DRY_WT_UOM				
COVER_GREEN_WT_PRE				
COVER_GREEN_WT_UOM				
COVER_HEIGHT_PRE				
COVER_HEIGHT_UOM				
COVER_INTERCEPT_PRE				
COVER_INTERCEPT_UOM				
COVER_PERCENT_PRE				
DESCRIPTION	See PNW Field Guide Version 1.3	See PNW Field Guide Version 1.4	See PNW Field Guide Version 1.5	See PNW Field Guide Version 1.6
DW_SUBGROUP_CODE_DEF				
DWOOD_DEPTH_PRE				
DWOOD_DEPTH_UOM				
DWOOD_DEPTH_2_PRE				
DWOOD_DEPTH_2_UOM				

**FIA\_PNW Protocols (cont.)**

ID	FIA_PNW_1.3	FIA_PNW_1.4	FIA_PNW_1.5	FIA_PNW_1.6
DWOOD_DIAMETER_PRE				
DWOOD_DIAMETER_UOM				
DWOOD_FUEL_DEPTH_PRE				
DWOOD_FUEL_DEPTH_UOM				
DWOOD_LENGTH_PRE				
DWOOD_LENGTH_UOM				
DWOOD_VOLUME_PRE				
DWOOD_VOLUME_UOM				
DWOOD_WEIGHT_PRE				
DWOOD_WEIGHT_UOM				
ELEVATION_PRE	nearest foot	nearest foot	nearest foot	nearest foot
ELEVATION_UOM	FEET	FEET	FEET	FEET
MANUAL_VERSION	1.3	1.4	1.5	1.6
NUMBER_OF_PANELS				
REF_PT_DIAMETER_PRE	nearest tenth-inch	nearest tenth-inch	nearest tenth-inch	nearest tenth-inch
REF_PT_DIAMETER_UOM	INCHES	INCHES	INCHES	INCHES
REF_PT_DIAMETER_HEIGHT_PRE	4.5 feet on uphill side	4.5 feet on uphill side	4.5 feet on uphill side	4.5 feet on uphill side
REF_PT_DIAMETER_HEIGHT_UOM	FEET	FEET	FEET	FEET
REF_PT_DISTANCE_PRE	nearest tenth-foot	nearest tenth-foot	nearest tenth-foot	nearest tenth-foot
REF_PT_DISTANCE_UOM	FEET	FEET	FEET	FEET
SAMPLE_LENGTH_PRE				
SAMPLE_LENGTH_UOM				
SAMPLE_WIDTH_PRE				
SAMPLE_WIDTH_UOM				
SETTING_SIZE_PRE				
SETTING_SIZE_UOM				
SLOPE_PRE	nearest percent	nearest percent	nearest percent	nearest percent
SLOPE_UOM	PERCENT	PERCENT	PERCENT	PERCENT
SM_SUBGROUP_CODE_DEF				
TM_SUBGROUP_CODE_DEF				
TREE_AGE_PRE	nearest year	nearest year	nearest year	nearest year
TREE_CROWN_BASE_HEIGHT_PRE	nearest whole foot	nearest whole foot	nearest whole foot	nearest whole foot
TREE_CROWN_BASE_HEIGHT_UOM	FEET	FEET	FEET	FEET
TREE_CROWN_LENGTH_PRE	nearest whole foot	nearest whole foot	nearest whole foot	nearest whole foot
TREE_CROWN_LENGTH_UOM	FEET	FEET	FEET	FEET
TREE_CROWN_LOCAL_PRE				
TREE_CROWN_LOCAL_UOM				
TREE_CROWN_RATIO_PRE	nearest percent	nearest percent	nearest percent	nearest percent
TREE_CROWN_WIDTH_PRE				
TREE_CROWN_WIDTH_UOM				
TREE_DIAMETER_PRE	nearest tenth-inch	nearest tenth-inch	nearest tenth-inch	nearest tenth-inch



**FIA\_PNW Protocols (cont.)**

ID	FIA_PNW_1.3	FIA_PNW_1.4	FIA_PNW_1.5	FIA_PNW_1.6
TREE_DIAMTER_UOM	INCHES	INCHES	INCHES	INCHES
TREE_DIAMTER_HEIGHT_PRE	4.5 feet on uphill side or "0" for DRC species	4.5 feet on uphill side or "0" for DRC species	4.5 feet on uphill side or "0" for DRC species	4.5 feet on uphill side or "0" for DRC species
TREE_DIAMTER_HEIGHT_UOM	FEET	FEET	FEET	FEET
TREE_DISTANCE_PRE	nearest tenth-foot	nearest tenth-foot	nearest tenth-foot	nearest tenth-foot
TREE_DISTANCE_UOM	FEET	FEET	FEET	FEET
TREE_HEIGHT_PRE	nearest whole foot	nearest whole foot	nearest whole foot	nearest whole foot
TREE_HEIGHT_UOM	FEET	FEET	FEET	FEET
TREE_HEIGHT_GROWTH_PRE	nearest tenth-foot	nearest tenth-foot	nearest tenth-foot	nearest tenth-foot
TREE_HEIGHT_GROWTH_UOM	FEET	FEET	FEET	FEET
TREE_HEIGHT_TOPKILL_PRE	nearest whole foot	nearest whole foot	nearest whole foot	nearest whole foot
TREE_HEIGHT_TOPKILL_UOM	FEET	FEET	FEET	FEET
TREE_RADIAL_GROWTH_PRE	nearest twentieth-inch	nearest twentieth-inch	nearest twentieth-inch	nearest twentieth-inch
TREE_RADIAL_GROWTH_UOM	INCHES	INCHES	INCHES	INCHES
TREE_RADIAL_GROWTH_2_PRE				
TREE_RADIAL_GROWTH_2_UOM				

**FIA\_RMRS Protocols**

ID	FIA_RMRS_0.9	FIA_RMRS_1.3	FIA_RMRS_1.4	FIA_RMRS_1.5	FIA_RMRS_1.6
BUFFER_PRE					
BUFFER_UOM					
CANOPY_CLOSURE_PRE					
CANOPY_CLOSURE_UOM	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
CM_SUBGROUP_CODE_DEF					
COVER_AGE_PRE					
COVER_DRY_WT_PRE					
COVER_DRY_WT_UOM					
COVER_GREEN_WT_PRE					
COVER_GREEN_WT_UOM					
COVER_HEIGHT_PRE	3 layers 1 = 0-1.5 2 = 1.6-6.0 3 = 6+	3 layers 1 = 0-1.5 2 = 1.6-6.0 3 = 6+	3 layers 1 = 0-1.5 2 = 1.6-6.0 3 = 6+	3 layers 1 = 0-1.5 2 = 1.6-6.0 3 = 6+	3 layers 1 = 0-1.5 2 = 1.6-6.0 3 = 6+
COVER_HEIGHT_UOM	FEET	FEET	FEET	FEET	FEET
COVER_INTERCEPT_PRE					
COVER_INTERCEPT_UOM					
COVER_PERCENT_PRE	7 classes according to cover percent	7 classes according to cover percent	7 classes according to cover percent	7 classes according to cover percent	7 classes according to cover percent

**FIA\_RMRS Protocols (cont.)**

ID	FIA_RMRS_0.9	FIA_RMRS_1.3	FIA_RMRS_1.4	FIA_RMRS_1.5	FIA_RMRS_1.6
DESCRIPTION	R1 FIA-INT WEST FLRI PROC 1997-1998	See RMRS Field Guide Version 1.3	See RMRS Field Guide Version 1.4	See RMRS Field Guide Version 1.5	See RMRS Field Guide Version 1.6
DW_SUBGROUP_CODE_DEF					
DWOOD_DEPTH_PRE	nearest tenth- inch	nearest tenth- inch	nearest tenth- inch	nearest tenth- inch	nearest tenth- inch
DWOOD_DEPTH_UOM	INCHES	INCHES	INCHES	INCHES	INCHES
DWOOD_DEPTH_2_PRE	nearest tenth- inch	nearest tenth- inch	nearest tenth- inch	nearest tenth- inch	nearest tenth- inch
DWOOD_DEPTH_2_UOM	INCHES	INCHES	INCHES	INCHES	INCHES
DWOOD_DIAMETER_PRE	nearest one inch	nearest one inch	nearest one inch	nearest one inch	nearest one inch
DWOOD_DIAMETER_UOM	INCHES	INCHES	INCHES	INCHES	INCHES
DWOOD_FUEL_DEPTH_PRE					
DWOOD_FUEL_DEPTH_UOM					
DWOOD_LENGTH_PRE					
DWOOD_LENGTH_UOM					
DWOOD_VOLUME_PRE					
DWOOD_VOLUME_UOM					
DWOOD_WEIGHT_PRE					
DWOOD_WEIGHT_UOM					
ELEVATION_PRE	nearest foot	nearest foot	nearest foot	nearest foot	nearest foot
ELEVATION_UOM	FEET	FEET	FEET	FEET	FEET
MANUAL_VERSION	0.9	1.3	1.4	1.5	1.6
NUMBER_OF_PANELS					
REF_PT_DIAMETER_PRE	nearest tenth- inch	nearest tenth- inch	nearest tenth- inch	nearest tenth- inch	nearest tenth- inch
REF_PT_DIAMETER_UOM	INCHES	INCHES	INCHES	INCHES	INCHES
REF_PT_DIAMETER_HEIGHT_PRE	4.5 feet on uphill side	4.5 feet on uphill side	4.5 feet on uphill side	4.5 feet on uphill side	4.5 feet on uphill side
REF_PT_DIAMETER_HEIGHT_UOM	FEET	FEET	FEET	FEET	FEET
REF_PT_DISTANCE_PRE	nearest tenth- foot	nearest tenth- foot	nearest tenth- foot	nearest tenth- foot	nearest tenth- foot
REF_PT_DISTANCE_UOM	FEET	FEET	FEET	FEET	FEET
SAMPLE_LENGTH_PRE					
SAMPLE_LENGTH_UOM					
SAMPLE_WIDTH_PRE					
SAMPLE_WIDTH_UOM					
SETTING_SIZE_PRE					
SETTING_SIZE_UOM					
SLOPE_PRE	nearest percent	nearest percent	nearest percent	nearest percent	nearest percent
SLOPE_UOM	SLOPE	SLOPE	SLOPE	SLOPE	SLOPE
SM_SUBGROUP_CODE_DEF					
TM_SUBGROUP_CODE_DEF					
TREE_AGE_PRE	nearest year	nearest year	nearest year	nearest year	nearest year

**FIA\_RMRS Protocols (cont.)**

ID	FIA_RMRS_0.9	FIA_RMRS_1.3	FIA_RMRS_1.4	FIA_RMRS_1.5	FIA_RMRS_1.6
TREE_CROWN_BASE_HEIGHT_PRE	nearest whole foot	nearest whole foot	nearest whole foot	nearest whole foot	nearest whole foot
TREE_CROWN_BASE_HEIGHT_UOM	FEET	FEET	FEET	FEET	FEET
TREE_CROWN_LENGTH_PRE	nearest whole foot	nearest whole foot	nearest whole foot	nearest whole foot	nearest whole foot
TREE_CROWN_LENGTH_UOM	FEET	FEET	FEET	FEET	FEET
TREE_CROWN_LOCAL_PRE	Nearest percent class	Nearest percent class	Nearest percent class	Nearest percent class	Nearest percent class
TREE_CROWN_LOCAL_UOM	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
TREE_CROWN_RATIO_PRE	nearest percent	nearest percent	nearest percent	nearest percent	nearest percent
TREE_CROWN_WIDTH_PRE					
TREE_CROWN_WIDTH_UOM					
TREE_DIAMETER_PRE	nearest tenth-inch	nearest tenth-inch	nearest tenth-inch	nearest tenth-inch	nearest tenth-inch
TREE_DIAMETER_UOM	INCHES	INCHES	INCHES	INCHES	INCHES
TREE_DIAMETER_HEIGHT_PRE	4.5 feet on uphill side or "0" for DRC species	4.5 feet on uphill side or "0" for DRC species	4.5 feet on uphill side or "0" for DRC species	4.5 feet on uphill side or "0" for DRC species	4.5 feet on uphill side or "0" for DRC species
TREE_DIAMETER_HEIGHT_UOM	FEET	FEET	FEET	FEET	FEET
TREE_DISTANCE_PRE	nearest tenth-foot	nearest tenth-foot	nearest tenth-foot	nearest tenth-foot	nearest tenth-foot
TREE_DISTANCE_UOM	FEET	FEET	FEET	FEET	FEET
TREE_HEIGHT_PRE	nearest whole foot	nearest whole foot	nearest whole foot	nearest whole foot	nearest whole foot
TREE_HEIGHT_UOM	FEET	FEET	FEET	FEET	FEET
TREE_HEIGHT_GROWTH_PRE	nearest tenth-foot	nearest tenth-foot	nearest tenth-foot	nearest tenth-foot	nearest tenth-foot
TREE_HEIGHT_GROWTH_UOM	FEET	FEET	FEET	FEET	FEET
TREE_HEIGHT_TOPKILL_PRE	nearest whole foot	nearest whole foot	nearest whole foot	nearest whole foot	nearest whole foot
TREE_HEIGHT_TOPKILL_UOM	FEET	FEET	FEET	FEET	FEET
TREE_RADIAL_GROWTH_PRE	nearest twentieth-inch	nearest twentieth-inch	nearest twentieth-inch	nearest twentieth-inch	nearest twentieth-inch
TREE_RADIAL_GROWTH_UOM	INCHES	INCHES	INCHES	INCHES	INCHES
TREE_RADIAL_GROWTH_2_PRE					
TREE_RADIAL_GROWTH_2_UOM					

**FIA\_SRS Protocols**

ID	FIA_SRS_1.3	FIA_SRS_1.4	FIA_SRS_1.5	FIA_SRS_1.6
BUFFER_PRE				
BUFFER_UOM				
CANOPY_CLOSURE_PRE				
CANOPY_CLOSURE_UOM	PERCENT	PERCENT	PERCENT	PERCENT
CM_SUBGROUP_CODE_DEF				
COVER_AGE_PRE				
COVER_DRY_WT_PRE				

**FIA\_SRS Protocols (cont.)**

ID	FIA_SRS_1.3	FIA_SRS_1.4	FIA_SRS_1.5	FIA_SRS_1.6
COVER_DRY_WT_UOM				
COVER_GREEN_WT_PRE				
COVER_GREEN_WT_UOM				
COVER_HEIGHT_PRE				
COVER_HEIGHT_UOM				
COVER_INTERCEPT_PRE				
COVER_INTERCEPT_UOM				
COVER_PERCENT_PRE				
DESCRIPTION	See SRS Field Guide Version 1.3	See SRS Field Guide Version 1.4	See SRS Field Guide Version 1.5	See SRS Field Guide Version 1.6
DW_SUBGROUP_CODE_DEF				
DWOOD_DEPTH_PRE				
DWOOD_DEPTH_UOM				
DWOOD_DEPTH_2_PRE				
DWOOD_DEPTH_2_UOM				
DWOOD_DIAMETER_PRE				
DWOOD_DIAMETER_UOM				
DWOOD_FUEL_DEPTH_PRE				
DWOOD_FUEL_DEPTH_UOM				
DWOOD_LENGTH_PRE				
DWOOD_LENGTH_UOM				
DWOOD_VOLUME_PRE				
DWOOD_VOLUME_UOM				
DWOOD_WEIGHT_PRE				
DWOOD_WEIGHT_UOM				
ELEVATION_PRE	nearest foot	nearest foot	nearest foot	nearest foot
ELEVATION_UOM	FEET	FEET	FEET	FEET
MANUAL_VERSION	1.3	1.4	1.5	1.6
NUMBER_OF_PANELS				
REF_PT_DIAMETER_PRE	nearest tenth-inch	nearest tenth-inch	nearest tenth-inch	nearest tenth-inch
REF_PT_DIAMETER_UOM	INCHES	INCHES	INCHES	INCHES
REF_PT_DIAMETER_HEIGHT_PRE	4.5 feet on uphill side	4.5 feet on uphill side	4.5 feet on uphill side	4.5 feet on uphill side
REF_PT_DIAMETER_HEIGHT_UOMFEET	FEET	FEET	FEET	FEET
REF_PT_DISTANCE_PRE	nearest tenth-foot	nearest tenth-foot	nearest tenth-foot	nearest tenth-foot
REF_PT_DISTANCE_UOM	FEET	FEET	FEET	FEET
SAMPLE_LENGTH_PRE				
SAMPLE_LENGTH_UOM				
SAMPLE_WIDTH_PRE				
SAMPLE_WIDTH_UOM				
SETTING_SIZE_PRE				
SETTING_SIZE_UOM				
SLOPE_PRE	nearest percent	nearest percent	nearest percent	nearest percent
SLOPE_UOM	PERCENT	PERCENT	PERCENT	PERCENT
SM_SUBGROUP_CODE_DEF				

**FIA\_SRS Protocols (cont.)**

ID	FIA_SRS_1.3	FIA_SRS_1.4	FIA_SRS_1.5	FIA_SRS_1.6
TM_SUBGROUP_CODE_DEF				
TREE_AGE_PRE	nearest year	nearest year	nearest year	nearest year
TREE_CROWN_BASE_HEIGHT_PRE	nearest whole foot	nearest whole foot	nearest whole foot	nearest whole foot
TREE_CROWN_BASE_HEIGHT_UOM	FEET	FEET	FEET	FEET
TREE_CROWN_LENGTH_PRE	nearest whole foot	nearest whole foot	nearest whole foot	nearest whole foot
TREE_CROWN_LENGTH_UOM	FEET	FEET	FEET	FEET
TREE_CROWN_LOCAL_PRE				
TREE_CROWN_LOCAL_UOM				
TREE_CROWN_RATIO_PRE	nearest percent	nearest percent	nearest percent	nearest percent
TREE_CROWN_WIDTH_PRE				
TREE_CROWN_WIDTH_UOM				
TREE_DIAMETER_PRE	nearest tenth-inch	nearest tenth-inch	nearest tenth-inch	nearest tenth-inch
TREE_DIAMETER_UOM	INCHES	INCHES	INCHES	INCHES
TREE_DIAMETER_HEIGHT_PRE	4.5 feet on uphill side or "0" for DRC species	4.5 feet on uphill side or "0" for DRC species	4.5 feet on uphill side or "0" for DRC species	4.5 feet on uphill side or "0" for DRC species
TREE_DIAMETER_HEIGHT_UOM	FEET	FEET	FEET	FEET
TREE_DISTANCE_PRE	nearest tenth-foot	nearest tenth-foot	nearest tenth-foot	nearest tenth-foot
TREE_DISTANCE_UOM	FEET	FEET	FEET	FEET
TREE_HEIGHT_PRE	nearest whole foot	nearest whole foot	nearest whole foot	nearest whole foot
TREE_HEIGHT_UOM	FEET	FEET	FEET	FEET
TREE_HEIGHT_GROWTH_PRE	nearest tenth-foot	nearest tenth-foot	nearest tenth-foot	nearest tenth-foot
TREE_HEIGHT_GROWTH_UOM	FEET	FEET	FEET	FEET
TREE_HEIGHT_TOPKILL_PRE	nearest whole foot	nearest whole foot	nearest whole foot	nearest whole foot
TREE_HEIGHT_TOPKILL_UOM	FEET	FEET	FEET	FEET
TREE_RADIAL_GROWTH_PRE	nearest twentieth-inch	nearest twentieth-inch	nearest twentieth-inch	nearest twentieth-inch
TREE_RADIAL_GROWTH_UOM	INCHES	INCHES	INCHES	INCHES
TREE_RADIAL_GROWTH_2_PRE				
TREE_RADIAL_GROWTH_2_UOM				

## FIA\_AK Protocols

ID	FIA_AK_0.6	FIA_AK_0.9	FIA_AK_2.0
BUFFER_PRE			
BUFFER_UOM			
CANOPY_CLOSURE_PRE			
CANOPY_CLOSURE_UOM			PERCENT
CM_SUBGROUP_CODE_DEF			
COVER_AGE_PRE			
COVER_DRY_WT_PRE			
COVER_DRY_WT_UOM			
COVER_GREEN_WT_PRE			
COVER_GREEN_WT_UOM			
COVER_HEIGHT_PRE			3 layers 1=0-1.5, 2-1.6-6.0,3=6+
COVER_HEIGHT_UOM			FEET
COVER_INTERCEPT_PRE			
COVER_INTERCEPT_UOM			
COVER_PERCENT_PRE			7 classes according to cover percent
DESCRIPTION			
DW_SUBGROUP_CODE_DEF			
DWOOD_DEPTH_PRE			nearest tenth- inch
DWOOD_DEPTH_UOM			INCHES
DWOOD_DEPTH_2_PRE			nearest tenth- inch
DWOOD_DEPTH_2_UOM			INCHES
DWOOD_DIAMETER_PRE			nearest one inch
DWOOD_DIAMETER_UOM			INCHES
DWOOD_FUEL_DEPTH_PRE			
DWOOD_FUEL_DEPTH_UOM			
DWOOD_LENGTH_PRE			
DWOOD_LENGTH_UOM			
DWOOD_VOLUME_PRE			
DWOOD_VOLUME_UOM			
DWOOD_WEIGHT_PRE			
DWOOD_WEIGHT_UOM			
ELEVATION_PRE			nearest foot
ELEVATION_UOM			FEET
MANUAL_VERSION	2000	2003	2.0
NUMBER_OF_PANELS			
REF_PT_DIAMETER_PRE			nearest tenth- inch
REF_PT_DIAMETER_UOM			INCHES
REF_PT_DIAMETER_HEIGHT_PRE			4.5 feet on uphill side
REF_PT_DIAMETER_HEIGHT_UOM			FEET
REF_PT_DISTANCE_PRE			nearest tenth- foot
REF_PT_DISTANCE_UOM			FEET

**FIA\_AK Protocols (cont.)**

ID	FIA_AK_0.6	FIA_AK_0.9	FIA_AK_2.0
SAMPLE_LENGTH_PRE			
SAMPLE_LENGTH_UOM			
SAMPLE_WIDTH_PRE			
SAMPLE_WIDTH_UOM			
SETTING_SIZE_PRE			
SETTING_SIZE_UOM			
SLOPE_PRE			nearest percent
SLOPE_UOM			PERCENT
SM_SUBGROUP_CODE_DEF			
TM_SUBGROUP_CODE_DEF			
TREE_AGE_PRE			nearest year
TREE_CROWN_BASE_HEIGHT_PRE			nearest whole foot
TREE_CROWN_BASE_HEIGHT_UOM			FEET
TREE_CROWN_LENGTH_PRE			nearest whole foot
TREE_CROWN_LENGTH_UOM			FEET
TREE_CROWN_LOCAL_PRE			Nearest percent class
TREE_CROWN_LOCAL_UOM			PERCENT
TREE_CROWN_RATIO_PRE			nearest percent
TREE_CROWN_WIDTH_PRE			
TREE_CROWN_WIDTH_UOM			
TREE_DIAMETER_PRE			nearest tenth- inch
TREE_DIAMETER_UOM			INCHES
TREE_DIAMETER_HEIGHT_PRE			4.5 feet on uphill side or 0 for DRC species
TREE_DIAMETER_HEIGHT_UOM			FEET
TREE_DISTANCE_PRE			nearest tenth- foot
TREE_DISTANCE_UOM			FEET
TREE_HEIGHT_PRE			nearest whole foot
TREE_HEIGHT_UOM			FEET
TREE_HEIGHT_GROWTH_PRE			nearest tenth- foot
TREE_HEIGHT_GROWTH_UOM			FEET
TREE_HEIGHT_TOPKILL_PRE			nearest whole foot
TREE_HEIGHT_TOPKILL_UOM			FEET
TREE_RADIAL_GROWTH_PRE			nearest twentieth- inch
TREE_RADIAL_GROWTH_UOM			INCHES
TREE_RADIAL_GROWTH_2_PRE			
TREE_RADIAL_GROWTH_2_UOM			

## FIREMON Protocols

ID	FIREMON
BUFFER_PRE	
BUFFER_UOM	
CANOPY_CLOSURE_PRE	
CANOPY_CLOSURE_UOM	
CM_SUBGROUP_CODE_DEF	
COVER_AGE_PRE	
COVER_DRY_WT_PRE	
COVER_DRY_WT_UOM	
COVER_GREEN_WT_PRE	
COVER_GREEN_WT_UOM	
COVER_HEIGHT_PRE	10%
COVER_HEIGHT_UOM	FEET
COVER_INTERCEPT_PRE	
COVER_INTERCEPT_UOM	
COVER_PERCENT_PRE	10%
DESCRIPTION	As defined by NRIS FIREMON protocols
DW_SUBGROUP_CODE_DEF	
DWOOD_DEPTH_PRE	nearest tenth-inch, ½ inch
DWOOD_DEPTH_UOM	INCHES
DWOOD_DEPTH_2_PRE	nearest tenth-inch, ½ inch
DWOOD_DEPTH_2_UOM	INCHES
DWOOD_DIAMETER_PRE	1 inch
DWOOD_DIAMETER_UOM	INCHES
DWOOD_FUEL_DEPTH_PRE	nearest whole inch, + -20 %
DWOOD_FUEL_DEPTH_UOM	INCHES
DWOOD_LENGTH_PRE	20%
DWOOD_LENGTH_UOM	FEET
DWOOD_VOLUME_PRE	undefined
DWOOD_VOLUME_UOM	CUBIC FEET
DWOOD_WEIGHT_PRE	undefined
DWOOD_WEIGHT_UOM	TONS PER ACRE
ELEVATION_PRE	2 countour intervals
ELEVATION_UOM	FEET
MANUAL_VERSION	
NUMBER_OF_PANELS	
REF_PT_DIAMTER_PRE	
REF_PT_DIAMTER_UOM	
REF_PT_DIAMTER_HEIGHT_PRE	
REF_PT_DIAMTER_HEIGHT_UOM	
REF_PT_DISTANCE_PRE	
REF_PT_DISTANCE_UOM	
SAMPLE_LENGTH_PRE	
SAMPLE_LENGTH_UOM	FEET
SAMPLE_WIDTH_PRE	
SAMPLE_WIDTH_UOM	FEET
SETTING_SIZE_PRE	undefined
SETTING_SIZE_UOM	ACRES
SLOPE_PRE	10%
SLOPE_UOM	PERCENT
SM_SUBGROUP_CODE_DEF	
TM_SUBGROUP_CODE_DEF	



**FIREMON Protocols (cont.)**

<b>ID</b>	<b>FIREMON</b>
TREE_AGE_PRE	10% if $\leq$ age 299 15% if $\geq$ age 300
TREE_CROWN_BASE_HEIGHT_PRE	10%
TREE_CROWN_BASE_HEIGHT_UOM	FEET
TREE_CROWN_LENGTH_PRE	
TREE_CROWN_LENGTH_UOM	
TREE_CROWN_LOCAL_PRE	
TREE_CROWN_LOCAL_UOM	
TREE_CROWN_RATIO_PRE	10%
TREE_CROWN_WIDTH_PRE	10%
TREE_CROWN_WIDTH_UOM	FEET
TREE_DIAMETER_PRE	nearest tenth inch
TREE_DIAMTER_UOM	INCHES
TREE_DIAMTER_HEIGHT_PRE	4.5 feet on uphill side or "0" for DRC species
TREE_DIAMTER_HEIGHT_UOM	FEET
TREE_DISTANCE_PRE	
TREE_DISTANCE_UOM	
TREE_HEIGHT_PRE	10% of actual height
TREE_HEIGHT_UOM	FEET
TREE_HEIGHT_GROWTH_PRE	Nearest tenth-foot
TREE_HEIGHT_GROWTH_UOM	FEET
TREE_HEIGHT_TOPKILL_PRE	
TREE_HEIGHT_TOPKILL_UOM	
TREE_RADIAL_GROWTH_PRE	1/20 <sup>th</sup> inch
TREE_RADIAL_GROWTH_UOM	TWENTIETH INCHES
TREE_RADIAL_GROWTH_2_PRE	1/ 20 <sup>th</sup> inch
TREE_RADIAL_GROWTH_2_UOM	TWENTIETH INCHES

## NRV\_OWNER\_AGENCY\_CODES

Contains the land ownership codes and the managing agency codes for the Nrv\_setting\_measurements table.

Name	Size	Description
CODE <i>Required</i>	VC(4)	The land ownership and managing agency code.
CREATED_BY <i>Required</i>	VC(30)	The name of the person who created the record.
CREATED_DATE <i>Required</i>	DATE	The date the record was created.
CREATED_IN_INSTANCE <i>Required</i>	N(6)	The database ID where the record was created.
ADDRESS	VC(35)	FIA. The address of the land owner.
CITY	VC(20)	FIA. The city where the land owner resides.

Name	Size	Description												
CODE_TYPE	VC(6)	The type of code: <table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>AGENCY</td> <td></td> <td></td> </tr> <tr> <td>BOTH</td> <td></td> <td></td> </tr> <tr> <td>OWNER</td> <td></td> <td></td> </tr> </tbody> </table>	Code	Description	Use	AGENCY			BOTH			OWNER		
Code	Description	Use												
AGENCY														
BOTH														
OWNER														
DESCRIPTION	VC(60)	Description of the Owner or Agency code.												
FIRST_NAME	VC(20)	FIA. The first name of the land owner												
LAST_NAME	VC(30)	FIA. The last name of the land owner												
MODIFIED_BY	VC(30)	The name of the person who modified the record.												
MODIFIED_DATE	DATE	The date the record was modified.												
MODIFIED_IN_INSTANCE	N(6)	The database ID where the record was modified.												
ON_OFF	VC(3)	Flag to display (ON) or hide (OFF) individual owner/agency codes in the Interface pull-down lists.												
PHONE	N(10)	FIA. The phone number of the lanowner. Contains a 3-digit area code and a 7-digit phone number.												
STATE	VC(2)	FIA. The state where the land owner resides.												
ZIP	VC(9)	FIA. The postal zip code of the land owner's address.												

Code	Description	Use
USFS	National Forest lands administered by USFS	CSE
BLM	Bureau of Land Management	CSE
CORP	Corporate	CSE
DOD	Department of Defense/Energy	CSE
LOCL	Local (County, Municipal, etc.)	CSE
NAGR	National grasslands	CSE
NATV	Native American (Indian)	CSE

**NRV\_OWNER\_AGENCY\_CODES (cont.)**

<b>Code</b>	<b>Description</b>	<b>Use</b>
NGOS	Non-governmental conservation/natural resource org.	CSE
NPS	National Park Service	CSE
OFED	Other Federal	CSE
OPUB	Other public lands, non-federal	CSE
OTFS	Other Forest Service	CSE
PVLA	Private landowner	CSE
STAT	State lands	CSE
UNIC	Unincorporated local partnerships/association/club	CSE
UNK	Unknown ownership	CSE
UPRW	Undifferentiated private	CSE
USFW	United States Fish and Wildlife Service	CSE

## NRV\_PERM\_MD\_ALIAS

Contains management direction aliases and descriptions.

<b>Name</b>	<b>Size</b>	<b>Description</b>
CREATED_BY <i>Required</i>	VC(30)	The name of the person who created the record.
CREATED_DATE <i>Required</i>	DATE	The date the record was created.
CREATED_IN_INSTANCE <i>Required</i>	N(6)	The database ID where the record was created.
DESCRIPTION <i>Required</i>	VC(255)	Description of the management direction.
MGMT_DIR_ALIAS <i>Required</i>	VC(20)	Management direction name.
MODIFIED_BY	VC(30)	The name of the person who modified the record.
MODIFIED_DATE	DATE	The date the record was modified.
MODIFIED_IN_INSTANCE	N(6)	The database ID where the record was modified.
ON_OFF	VC(3)	Flag to display (ON) or hide (OFF) individual references in the Interface pull-down lists. Default is "ON."

## NRV\_PHYSICAL\_EFFECTS

Contains the physical effects, to trees, of damage agents.

Name	Size	Description
CREATED_BY <i>Required</i>	VC(30)	The name of the person who created the record.
CREATED_DATE <i>Required</i>	DATE	The date the record was created.
CREATED_IN_INSTANCE <i>Required</i>	N(6)	The database ID where the record was created.
DESCRIPTION <i>Required</i>	VC(100)	Description of the tree physical effect.
EFFECT_CODE <i>Required</i>	VC(3)	The tree physical effect code. Physical effects are generally due to damage agents.
FVS_DAMAGE_CODE	VC(2)	Stores the FVS damage code related to the FSVeg physical effect code
MODIFIED_BY	VC(30)	The name of the person who modified the record.
MODIFIED_DATE	DATE	The date the record was modified.
MODIFIED_IN_INSTANCE	N(6)	The database ID where the record was modified.
ON_OFF	VC(3)	Flag to display (ON) or hide (OFF) individual physical effects codes in the Interface pull-down lists.

Code	Description	Use
000	Unknown	
001	Broken or missing top	CSE
002	Dead top	CSE
003	Limby/wolf tree	CSE
004	Forked top	CSE
005	Forked below merch top	CSE
006	Crook or sweep	CSE
007	Checks, bole cracks	CSE
008	Foliage discoloration	CSE
009	Mortality	CSE
010	Lack of seed source	CSE
011	Poor planting stock	CSE
012	Poor growth/fading	CSE
013	Total board foot volume loss	CSE
014	Total cubic foot volume loss	CSE
015	Bark removal	CSE
016	Foliage loss	CSE
017	Sunscald	CSE
018	Uproot	CSE
019	Scorched foliage	CSE
020	Scorched bark	CSE
021	Dieback	CSE
022	Poor Crown Form	CSE
023	Severe Forking	CSE
024	Canker or gall	FIA
025	Conk, fruiting body or sign of advanced decay	FIA

**NRV\_PHYSICAL\_EFFECTS (cont.)**

<b>Code</b>	<b>Description</b>	<b>Use</b>
026	Open wound	CSE
027	Resinosis or gummosis	FIA
028	Broom on root or bole	FIA
029	Broken or dead root farther than 3 feet from bole	FIA
030	Vines in the crown	FIA
031	Broken or dead branches	CSE
032	Excessive branching or brooms within the live crown	FIA
033	Damaged shoots, buds, or foliage	CSE
034	Excessively deformed sapling	CSE
035	Broken bole or broken root within 3 feet of bole	FIA
036	Fire scar	FIA/CSE
037	Leaning tree	FIA/CSE
038	Charred Bark - not recorded unless cambium is killed from heating	CSE

## NRV\_PHYSIOGRAPHIC\_CLASSES

This table contains the physiographic classes describing landform, topography, position, and soil.

Name	Size	Description
PHYSIOGRAPHIC_CLASS <i>Required</i>	VC(3)	Physiographic classes describing landform, topographic, position, and soil.
CREATED_BY <i>Required</i>	VC(30)	The name of the person who created the record.
CREATED_DATE <i>Required</i>	DATE	The date the record was created.
CREATED_IN_INSTANCE <i>Required</i>	N(6)	The database ID where the record was created.
DATA_TYPE <i>Required</i>	VC(4)	The type of data this record relates to. Examples are "FIA" or "FIRE."
DESCRIPTION <i>Required</i>	VC(100)	Description of the tree physical effect.
MODIFIED_BY	VC(30)	The name of the person who modified the record.
MODIFIED_DATE	DATE	The date the record was modified.
MODIFIED_IN_INSTANCE	N(6)	The database ID where the record was modified.
ON_OFF	VC(3)	Flag to display (ON) or hide (OFF) individual physical effects codes in the Interface pull-down lists.

Code	Description	Use
11	Dry tops	FIA
12	Dry slopes	FIA
13	Deep sands	FIA
19	Other xeric	FIA
21	Flatwoods	FIA
22	Rolling uplands	FIA
23	Moist slopes and coves	FIA
24	Narrow floodplains/bottomlands	FIA
25	Broad floodplains/bottomlands	FIA
29	Other mesic	FIA
31	Swamp/bogs	FIA
32	Small drains	FIA
33	Bays and wet pocosins	FIA
34	Beaver ponds	FIA
35	Cypress ponds	FIA
39	Other hydric	FIA
GMF	Glaciated mountains – foothills	Fire
UMF	Unglaciated mountains – foothills	Fire
BRK	Breaklands – river breaks – badlands	Fire
PLA	Plains – Rolling plains – plains with breaks	Fire
VAL	Valleys – swales – draws	Fire
HIL	Hill – low ridges - benches	Fire

## NRV\_PRINCIPAL\_MERIDIANS

Principal meridian codes for the United States.

Name	Type	Description
MERIDIAN_CODE <i>Required</i>	VC(2)	Unique code to identify each principal meridian.
MERIDIAN_NAME <i>Required</i>	VC(22)	The name of each principal meridian.

Code	Name	Code	Name
01	1ST PRINCIPAL MERIDIAN	24	ST. HELENA
02	2ND PRINCIPAL MERIDIAN	25	ST. STEPHENS
03	3RD PRINCIPAL MERIDIAN	26	SALT LAKE
04	4TH PRINCIPAL MERIDIAN	27	SAN BERNARDINO
05	5TH PRINCIPAL MERIDIAN	28	SEWARD
06	6TH PRINCIPAL MERIDIAN	29	TALLAHASSEE
07	BLACK HILLS	30	UINTA
08	BOISE	31	UTE
09	CHICKASAW	32	WASHINGTON
10	CHOCTAW	33	WILLAMETTE
11	CIMARRON	34	WIND RIVER
12	COPPER RIVER	35	OHIO
13	FAIRBANKS	36	GREAT MIAMI RIVER
14	GILA AND SALT RIVER	37	MUSKINGUM RIVER
15	HUMBOLDT	38	OHIO RIVER
16	HUNTSVILLE	39	1ST SCIOTO RIVER
17	INDIAN	40	2ND SCIOTO RIVER
18	LOUISIANA	41	3RD SCIOTO RIVER
19	MICHIGAN	42	ELLCOTTS LINE
20	MONTANA	43	12 MILE SQUARE
21	MT. DIABLO	44	KATEEL RIVER
22	NAVAJO	45	UMIAT
23	NEW MEXICO		