

Species Habitat Model Report:

Tule Elk

Cervus elaphus nannodes

Gap Analysis Program Species Code: mELK1t

Integrated Taxonomic Information System TSN: 898525

NatureServe Global Element ID: 2.103199

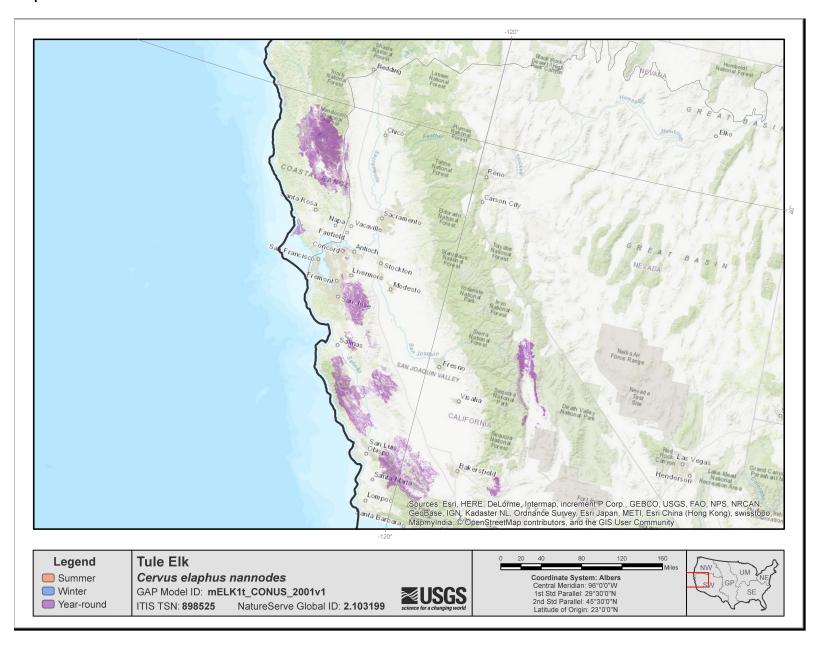
Model ID (extent, year, version): CONUS_2001v1

Model Editor: Matt Rubino
Model Reviewer: Nathan Tarr

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Map of Predicted Habitat



Habitat Modeling: Model Parameters

Season	Year I	Round
Region*	NW	sw
Landcover Limitations		
Contiguous Patch		
Minimum Size (ha)		
Edge Type Usage	F/O + Shrubland/Woodland	F/O + Shrubland/Woodland
Ecotone Width (m)	1000	1000
Forest Interior Usage		
Distance From Edge (m)		
Secondary Map Units		
Distance From Primary Map Units (m)		
Hydrographic Limitations		
Flowing Water		
Distance Into (m)		
Distance From (m)		
Open/Standing Water		
Distance Into (m)		
Distance From (m)		
Wet Vegetation		
Distance Into (m)		
Distance From (m)		
Water Salinity		
Water Velocity		
Human Impact Avoidance		
Elevation Limit - Minimum (m)		
Elevation Limit - Maximum (m)		
Hand Modeled		

^{*}GP = Great Plains; NE = Northeast; NW = Northwest; SE = Southeast; SW = Southwest; UM = Upper Midwest

More information regarding modeling process: https://gapanalysis.usgs.gov/species/data/

Habitat Modeling: Map Units

With Dill III Comment of Dimension Comment of Dimen	Season	Year	Round
1	Region*	NW	sw
222 - Developed, Leve Intensity 223 - Developed, Median Intensity 223 - Developed, Median Intensity 224 - Developed, Median Intensity 225 - De	Map Unit		
222 - Developed, Leve Intensity 223 - Developed, Median Intensity 223 - Developed, Median Intensity 224 - Developed, Median Intensity 225 - De			
202 - Developed, Median Intensity 202 - Developed, High Intensity 203 - Developed, High Intensity 203 - Developed, High Intensity 204 - Developed, High Intensity 205 - Developed Heard Of United 205 - Clark High Control High Intensity 205 - Developed Heard Of United 205 - Clark High Intensity 205 - Developed Heard Of United 205 - Clark High Intensity 205 - Developed Heard Of United 205 - Developed Heard Of Unite	1201 - Developed, Open Space	1	1
204. Doveloped, High Intensity 0 0 302. Gener, Mires, Growel Plas and Old Wels 0 0 302. Contract, Mires, Growel Plas and Older High Structure Apriculture 0 0 402. Coldwards Order High Structure Apriculture 0 0 402. Coldwards Order High Structure Apriculture 0 0 403. Politar (Prior) 0 0 403. Politar (Prior) 0 0 102. Collegated Order High Structure Apriculture 0 0 103. Politar (Prior) 0 0 104. Open Water (Prior) 0 0 105. Politar (Prior) 0 0 105. Aller (Consolid Prior) 0 0	1202 - Developed, Low Intensity	0	0
301 - Colarries, Mines, Gravel Pils and OI Web 0 0 402 - Colarries, Mines, Gravel Pils and OI Web 0 0 402 - Colarries, Mines, Gravel Pils and OI Web High Structure Agriculture 0 0 402 - Colarries, Mines, Gravel Pils and OI Web High Structure Agriculture 1 0 302 - Colarries, Mines, Gravel Pils and OI Web High Structure Agriculture 1 0 302 - Copen Water (Fresh) 0 0 0 303 - Copen Water (Fresh) 0 0 0 304 - Copen Water (Fresh) 0 0 0 305 - Gravitation (Fresh) 0 0 0 304 - Copen Water (Fresh) 0 0 0 305 - Asteric Coastal Plain Souther (Asteric Coastal Plain Souther (President) 0 0 0 305 - Asteric Coastal Plain Souther (Presid) 0 0	1203 - Developed, Medium Intensity	0	0
48. Ordoratik Veregeria and Other ligh Strutture Agriculture 0	1204 - Developed, High Intensity	0	0
402 - Calabrated Corgland 0	1301 - Quarries, Mines, Gravel Pits and Oil Wells	0	0
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1401 - Orchards Vineyards and Other High Structure Agriculture	0	0
102 - Open Water (Brackish/Saht) 103 - Open Water (Brackish/Saht) 104 - Open Water (Brackish/Saht) 105 - Barner Lund 105 - Barner Lund 105 - Barner Lund 105 - Barner Lund 105 - Attarric Coastal Pisin Northern Sandy Beach 107 - Attarric Coastal Pisin Southern Beach 109 - Unconsolidated Shore (Bake/River/Poud) 101 - Unconsolidated Shore (Bake/River/Poud) 102 - Unconsolidated Shore (Bake/River/Poud) 103 - Unconsolidated Shore (Bake/River/Poud) 104 - Unconsolidated Shore (Bake/River/Poud) 105 - Unconsolidated Shore (Bake/River/Poud) 106 - Unconsolidated Shore (Bake/River/Poud) 107 - Unconsolidated Shore (Bake/River/Poud) 108 - Unconsolidated Shore (Bake/River/Poud) 109 - Unconsolidated Shore (Bake/River/Poud) 110 - Unconsolidated Shore (Bake/River/Poud) 111 - Unconsolidated Shore (Bake/River/Poud) 112 - Northern Attentic Coastal Pisin Sandy Beach 113 - Unconsolidated Shore (Bake/River/Poud) 114 - Unconsolidated Shore (Bake/River/Poud) 115 - Southers Florida Shore (Bake/River/Poud) 116 - Gent Laker (Bake/River/Poud) 117 - South Fistric Sholl Mash Beach 118 - Forder Florida Sholl Mash Beach 119 - Adarric Coastal Pisin Sea Island Beach 119 - Adarric Coastal Pisin Sea Island Beach 110 - Coastal Pisin Sea Island Beach 110 - Coastal Pisin Sea Island Beach 110 - Coastal Pisin Sea Island Beach 111 - Coastal Pisin Sea Island Beach 112 - Inter-Mountain Basin Active and Stabilized Dune 113 - Horder Florida Sholl Beach 114 - Coastal Pisin Sea Island Beach 115 - Coathers Florida Beach 116 - Coastal Pisin Sea Island Beach 117 - South Fistric Sholl Beach 118 - Forder Florida Sholl Beach 119 - Coastal Pisin Sea Island Beach 110 - Coastal Pisin Sea Island Beach 111 - Coastal Pisin Sea Island Beach 112 - Coastal Pisin Sea Island Beach 113 - Coastal Pisin Sea Island Beach 114 - Coastal Pisin	1402 - Cultivated Cropland	0	0
103 - Open Water (Brackth/Saith) 104 - Open Water (Agaacuture) 105 - Barrel Indri 106 - Adantic Coastal Plain Northern Sandy Beach 106 - Adantic Coastal Plain Northern Sandy Beach 107 - Atlantic Coastal Plain Southern Beach 107 - Atlantic Coastal Plain Southern Beach 108 - Unconsolidated Shore (Beach/Dune) 109 - Unconsolidated Shore (Beach/Dune) 109 - Unconsolidated Shore (Beach/Dune) 101 - Unconsolidated Shore (Beach/Dune) 101 - Unconsolidated Shore 101 - Northern Atlantic Coastal Plain Sandy Beach 102 - Unconsolidated Shore 103 - Unconsolidated Shore 104 - Unconsolidated Shore 105 - Unconsolidated Shore 105 - Unconsolidated Shore 106 - Unconsolidated Shore 107 - Adantic Coastal Plain Sandy Beach 108 - Unconsolidated Shore 109 - Unconsolidated Shore 109 - Unconsolidated Shore 100 - Unconsolidated Shore 101 - Unconsolidated Shore 102 - Unconsolidated Shore 103 - Unconsolidated Shore 104 - Unconsolidated Shore 105 - Unconsolidated Shore 106 - Unconsolidated Shore 107 - Unconsolidated Shore 108 - Unconsolidated Shore 109 - Unconsolid	1403 - Pasture/Hay	1	1
104 - Open Water (Apacachure) 105 - Barren Land 106 - Alfantic Coastal Plain Northern Sandy Beach 107 - Alfantic Coastal Plain Northern Sandy Beach 108 - Unconsolidated Shore (Lakef-Wiere/Prond) 109 - Unconsolidated Shore (Lakef-Wiere/Prond) 109 - Unconsolidated Shore (Lakef-Wiere/Prond) 109 - Unconsolidated Shore 110 - Unconsolidated Shore 111 - North America Warran Desert Active and Stabilized Dune 112 - Northern Alfantic Coastal Plain Sandy Beach 113 - Upper Texas Coast Beach 114 - Louisiana Beach 115 - Southeast Florida Beach 116 - Great Lakes Dune 117 - South Florida Shell Hash Beach 118 - Florida Flanhandie Beach Vegetation 119 - Alfantic Coastal Plain Sea Island Beach 119 - Alfantic Coastal Plain Sea Island Beach 110 - Louisiana Beach 111 - Florida Flanhandie Beach Vegetation 112 - Alfantic Coastal Plain Sea Island Beach 113 - Southeast Florida Beach 114 - Louisiana Beach 115 - South Florida Shell Hash Beach 116 - Great Lakes Dune 117 - South Florida Shell Hash Beach 118 - Florida Flanhandie Beach Vegetation 119 - Alfantic Coastal Plain Sea Island Beach 110 - Coastal Plain Sea Island Beach 111 - Inter-Mountain Basins Active and Stabilized Dune 112 - Hediterranean California Southern Coastal Dune	2102 - Open Water (Fresh)	0	0
105 - Barrent Land 0 0 106 - Atlantic Coastal Plain Northern Sannly Beach 0 0 107 - Atlantic Coastal Plain Southern Beach 0 0 108 - Unconsolidated Shore (Luke/River/Prond) 0 0 109 - Unconsolidated Shore (Back/Dune) 0 0 110 - Unconsolidated Shore (Back/Dune) 0 0 111 - Northern Atlantic Coastal Plain Sannly Beach 0 0 112 - Northern Atlantic Coastal Plain Sannly Beach 0 0 113 - Upper Texas Coast Beach 0 0 114 - Louisiana Beach 0 0 115 - South-Bast Florida Beach 0 0 117 - South Florida Sheel Hash Beach 0 0 117 - South Florida Sheel Hash Beach 0 0 117 - South Florida Sheel Hash Beach 0 0 117 - South Florida Sheel Hash Beach 0 0 117 - South Florida Sheel Hash Beach 0 0 117 - South Florida Seach Vegetation 0 0 118 - Florida Seach Vegetation 0 0 119 - Atlantic Coastal Plain Sea Island Beach 0 0 1	2103 - Open Water (Brackish/Salt)	0	0
105 - Allantic Coastal Plain Northern Sandy Beach 0 0 107 - Allantic Coastal Plain Southern Beach 0 0 108 - Unconsolidated Shore (Jake/River/Pond) 0 0 110 - Unconsolidated Shore 0 0 111 - North American Warm Desert Active and Stabilized Dune 0 0 112 - Northern Allantic Coastal Plain Sandy Beach 0 0 113 - Upper Texas Coast Beach 0 0 114 - Louisian Beach 0 0 115 - Southeast Florida Beach 0 0 115 - Southeast Florida Shell Hash Beach 0 0 117 - South Florida Shell Hash Beach 0 0 118 - Florida Parhande Beach Vegetation 0 0 119 - Allantic Coastal Plain Sea Island Beach 0 0 110 - Coastal Plain Sea Island Beach 0 0 111 - Inter-Mountain Basins Active and Stabilized Dune 0 0 112 - Inter-Mountain Basins Active and Stabilized Dune 0 0 112 - Mediterranean California Southern Coastal Dune 0 0	2104 - Open Water (Aquaculture)	0	0
107 - Atlantic Coastal Plain Southern Beach 108 - Unconsolidated Shore (Back/River/Pond) 109 - Unconsolidated Shore (Beach/Dune) 109 - Unconsolidated Shore	3105 - Barren Land	0	0
108 - Unconsolidated Shore (Lake/River/Pond) 109 - Unconsolidated Shore (Beach/Dune) 1	3106 - Atlantic Coastal Plain Northern Sandy Beach	0	0
109 - Unconsoldated Shore (Beadt/Dune) 110 - Unconsoldated Shore (Beadt/Dune) 111 - North American Warm Desert Active and Stabilized Dune 112 - Northern Atlantic Coastal Plain Sandy Beach 113 - Upper Texas Coast Beach 114 - Louisiana Beach 115 - Southeast Florida Beach 116 - Great Lakes Dune 117 - South Florida Shell Hash Beach 118 - Florida Panhandle Beach Vegetation 119 - Atlantic Coastal Plain Seal sland Beach 119 - Atlantic Coastal Plain Seal sland Beach 110 - Southwest Florida Beach 1110 - South Florida Shell Hash Beach 1111 - South Florida Shell Hash Beach 1112 - Southwest Florida Beach 1120 - Southwest Florida Beach 1131 - Hort-Mountain Basins Active and Stabilized Dune 1132 - Mediterranean California Southern Coastal Dune	3107 - Atlantic Coastal Plain Southern Beach	0	0
110 - Unconsolidated Shore 0 0 0 1111 - North American Warm Desert Active and Stabilized Dune 0 0 1112 - Northern Atlantic Coastal Plain Sandy Beach 0 0 0 1113 - Upper Texas Coast Beach 0 0 0 1114 - Louisiana Beach 115 - Southeast Florida Beach 0 0 0 115 - Southeast Florida Beach 116 - Great Lakes Dune 0 0 116 - Great Lakes Dune 0 0 0 117 - South Floridas Plain Seal Slaind Beach 118 - Florida Panhande Beach Vegetation 0 0 0 118 - Florida Panhande Beach Vegetation 0 0 0 119 - Atlantic Coastal Plain Seal Island Beach 120 0 0 119 - Atlantic Coastal Plain Seal Island Beach 121 - Southhest Florida Beach 0 0 0 0 119 - Atlantic Coastal Plain Seal Island Beach 0 0 0 0 110 - Atlantic Coastal Plain Seal Island Beach 0 0 0 0 110 - Atlantic Coastal Plain Seal Island Beach 0 0 0 0 110 - Atlantic Coastal Plain Seal Island Beach 0 0 0 0 110 - Atlantic Coastal Plain Seal Island Beach 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3108 - Unconsolidated Shore (Lake/River/Pond)	0	0
111 - North American Warm Desert Active and Stabilized Dune 0 0 112 - Northern Atlantic Coastal Plain Sandy Beach 0 0 113 - Upper Texas Coast Beach 0 0 114 - Loukisan Beach 0 0 115 - Southeast Florida Beach 0 0 116 - Great Lakes Dune 0 0 117 - South Florida Shell Hash Beach 0 0 118 - Florida Panhandle Beach Vegetation 0 0 119 - Atlantic Coastal Plain Sea Island Beach 0 0 120 - Southwest Florida Beach 0 0 121 - Inter-Mountain Basins Active and Stabilized Dune 0 0 122 - Mediterranean California Southern Coastal Dune 0 0	3109 - Unconsolidated Shore (Beach/Dune)	0	0
112 - Northern Atlantic Coastal Plain Sandy Beach 0 0 113 - Upper Texas Coast Beach 0 0 114 - Louisiana Beach 0 0 115 - Southeast Florida Beach 0 0 116 - Great Lakes Dune 0 0 117 - South Florida Shell Hash Beach 0 0 118 - Florida Panhandle Beach Vegetation 0 0 119 - Atlantic Coastal Plain Sea Island Beach 0 0 120 - Southwest Florida Beach 0 0 121 - Inter-Mountain Basins Active and Stabilized Dune 0 0 122 - Mediterranean California Southern Coastal Dune 0 0	3110 - Unconsolidated Shore	0	0
113 - Upper Texas Coast Beach 114 - Louisiana Beach 115 - Southeast Florida Beach 116 - Great Lakes Dune 117 - South Florida Shell Hash Beach 118 - Florida Panhandle Beach Vegetation 119 - Atlantic Coastal Plain Sea Island Beach 120 - Southwest Florida Beach 121 - Inter-Mountain Basins Active and Stabilized Dune 122 - Mediterranean California Southern Coastal Dune	3111 - North American Warm Desert Active and Stabilized Dune	0	0
114 - Louisiana Beach 115 - Southeast Florida Beach 116 - Great Lakes Dune 117 - South Florida Shell Hash Beach 117 - South Florida Shell Hash Beach 118 - Florida Panhandle Beach Vegetation 119 - Atlantic Coastal Plain Sea Island Beach 120 - Southwest Florida Beach 121 - Inter-Mountain Basins Active and Stabilized Dune 122 - Mediterranean California Southern Coastal Dune 123 - Mediterranean California Southern Coastal Dune	3112 - Northern Atlantic Coastal Plain Sandy Beach	0	0
115 - Southeast Florida Beach 116 - Great Lakes Dune 117 - South Florida Shell Hash Beach 117 - South Florida Shell Hash Beach 118 - Florida Panhandle Beach Vegetation 119 - Atlantic Coastal Plain Sea Island Beach 120 - Southwest Florida Beach 121 - Inter-Mountain Basins Active and Stabilized Dune 122 - Mediterranean California Southern Coastal Dune	3113 - Upper Texas Coast Beach	0	0
116 - Great Lakes Dune 0 0 117 - South Florida Shell Hash Beach 0 0 118 - Florida Panhandle Beach Vegetation 0 0 119 - Atlantic Coastal Plain Sea Island Beach 0 0 120 - Southwest Florida Beach 0 0 121 - Inter-Mountain Basins Active and Stabilized Dune 0 0 122 - Mediterranean California Southern Coastal Dune 0 0	3114 - Louisiana Beach	0	0
117 - South Florida Shell Hash Beach 0 0 118 - Florida Panhandle Beach Vegetation 0 0 119 - Atlantic Coastal Plain Sea Island Beach 0 0 120 - Southwest Florida Beach 0 0 121 - Inter-Mountain Basins Active and Stabilized Dune 0 0 122 - Mediterranean California Southern Coastal Dune 0 0	3115 - Southeast Florida Beach	0	0
118 - Florida Panhandle Beach Vegetation 119 - Atlantic Coastal Plain Sea Island Beach 120 - Southwest Florida Beach 121 - Inter-Mountain Basins Active and Stabilized Dune 122 - Mediterranean California Southern Coastal Dune	3116 - Great Lakes Dune	0	0
119 - Atlantic Coastal Plain Sea Island Beach 120 - Southwest Florida Beach 121 - Inter-Mountain Basins Active and Stabilized Dune 122 - Mediterranean California Southern Coastal Dune 123 - Mediterranean California Southern Coastal Dune	3117 - South Florida Shell Hash Beach	0	0
120 - Southwest Florida Beach 121 - Inter-Mountain Basins Active and Stabilized Dune 122 - Mediterranean California Southern Coastal Dune 0 0	3118 - Florida Panhandle Beach Vegetation	0	0
121 - Inter-Mountain Basins Active and Stabilized Dune 122 - Mediterranean California Southern Coastal Dune 0 0 0	3119 - Atlantic Coastal Plain Sea Island Beach	0	0
122 - Mediterranean California Southern Coastal Dune 0 0	3120 - Southwest Florida Beach	0	0
	3121 - Inter-Mountain Basins Active and Stabilized Dune	0	0
123 - Mediterranean California Northern Coastal Dune	3122 - Mediterranean California Southern Coastal Dune	0	0
	3123 - Mediterranean California Northern Coastal Dune	1	1

Season	Year Round	
Region*	NW	sw
Map Unit		
1124 - North Pacific Maritime Coastal Sand Dune and Strand	0	0
1124 - Not ut Pacific Wartume Coastal Bend Beach	0	0
1201 - North American Warm Desert Bedrock Cliff and Outcrop	0	0
1202 - Rocky Mountain Cliff, Canyon and Massive Bedrock	0	0
2202 - Nocky Wood Hall Cliff, Carryol and Wassive Bed Ock	0	0
1204 - Great Lakes Acidic Rocky Shore and Cliff	0	0
2205 - Central Interior Calcareous Cliff and Talus	0	0
1205 - Central Interior Calcareous clini and raius 1206 - Central Interior Acidic Cliff and Talus	0	0
1200 - Central Miles for Acquir Clini and Talus	0	0
1208 - North-Central Appalachian Acidic Cliff and Talus	0	0
1209 - North Pacific Montane Massive Bedrock, Cliff and Talus	0	0
2210 - Southern Piedmont Cliff	0	0
1211 - North Pacific Coastal Cliff and Bluff	0	0
1212 - Southern California Coast Ranges Cliff and Canyon	0	0
1213 - Central California Coast Ranges Cliff and Canyon	0	0
1214 - Klamath-Siskiyou Cliff and Outcrop	0	0
i215 - Sierra Nevada Cliff and Canyon	0	0
1216 - Inter-Mountain Basins Cliff and Canyon	0	0
2217 - Southwestern Great Plains Canyon	0	0
1218 - Colorado Plateau Mixed Bedrock Canyon and Tableland	0	0
2219 - Southern Interior Acid Cliff	0	0
2220 - Southern Appalachian Montane Cliff	0	0
221 - Southern Interior Calcareous Cliff	0	0
301 - Western Great Plains Badland	0	0
302 - East Gulf Coastal Plain Dry Chalk Bluff	0	0
303 - North American Warm Desert Badland	0	0
304 - Inter-Mountain Basins Shale Badland	0	0
305 - Mediterranean California Coastal Bluff	0	0
306 - Columbia Plateau Ash and Tuff Badland	0	0
401 - Temperate Pacific Intertidal Mudflat	0	0
402 - Temperate Pacific Freshwater Mudflat	0	0
403 - Inter-Mountain Basins Wash	0	0

U.S. Department of the Interior

Season	Year Round	
Region*	NW	sw
Map Unit		
3404 - North Pacific Serpentine Barren	0	0
3405 - North American Warm Desert Playa	0	0
3406 - Mediterranean California Serpentine Barrens	0	0
3407 - Inter-Mountain Basins Playa	0	0
3501 - North Pacific Alpine and Subalpine Bedrock and Scree	0	0
3502 - North American Alpine Ice Field	0	0
3503 - Rocky Mountain Alpine Bedrock and Scree	0	0
3503 - Nocky Wodinani Alpine Bedrock and Scree 3504 - Mediterranean California Alpine Bedrock and Scree	0	0
3506 - Southern Appalachian Rocky Summit	0	0
3601 - Geysers and Hot Springs	0	0
3602 - Southern Appalachian Granitic Dome	0	0
3603 - Inter-Mountain Basins Volcanic Rock and Cinder Land	0	0
3604 - North Pacific Volcanic Rock and Cinder Land	0	0
3605 - North American Warm Desert Pavement	0	0
3606 - Southern Piedmont Granite Flatrock	0	0
3607 - North American Warm Desert Volcanic Rockland	0	0
4101 - Central and Southern Appalachian Northern Hardwood Forest	0	0
4102 - East Gulf Coastal Plain Limestone Forest	0	0
1103 - East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland - Hardwood Modifier	0	0
4104 - Northeastern Interior Dry Oak Forest-Hardwood Modifier	0	0
1105 - East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland - Juniper Modifier	0	0
1106 - Northeastern Interior Dry Oak Forest - Mixed Modifier	0	0
1107 - Ridge and Valley Calcareous Valley Bottom Glade and Woodland	0	0
1108 - East Gulf Coastal Plain Black Belt Calcareous Prairie and Woodland - Herbaceous Modifier	0	0
1109 - Southern and Central Appalachian Oak Forest - Xeric	0	0
1110 - North Pacific Oak Woodland	0	0
1111 - Rocky Mountain Aspen Forest and Woodland	0	1
4112 - Rocky Mountain Bigtooth Maple Ravine Woodland	0	0
4113 - Laurentian-Acadian Northern Hardwoods Forest	0	0
4114 - Northeastern Interior Dry-Mesic Oak Forest	0	0
4115 - Ozark-Ouachita Dry-Mesic Oak Forest	0	0
4116 - Southern Interior Low Plateau Dry-Mesic Oak Forest	0	0

Season	Year Round	
Region*	NW	sw
Map Unit		
4117 - East Gulf Coastal Plain Northern Dry Upland Hardwood Forest	0	0
4118 - Crosstimbers Oak Forest and Woodland	0	0
4119 - Southern Appalachian Northern Hardwood Forest	0	0
4120 - North-Central Interior Dry-Mesic Oak Forest and Woodland	0	0
4121 - North-Central Interior Dry Oak Forest and Woodland	0	0
4122 - Ouachita Montane Oak Forest	0	0
4123 - North-Central Interior Beech-Maple Forest	0	0
4124 - North-Central Interior Maple-Basswood Forest	0	0
4125 - Southern and Central Appalachian Oak Forest	0	0
4126 - Allegheny-Cumberland Dry Oak Forest and Woodland - Hardwood	0	0
4127 - Central and Southern Appalachian Montane Oak Forest	0	0
4128 - East Gulf Coastal Plain Northern Loess Bluff Forest	0	0
4129 - East Gulf Coastal Plain Southern Loess Bluff Forest	0	0
4130 - Southern Coastal Plain Dry Upland Hardwood Forest	0	0
4131 - Eastern Great Plains Tallgrass Aspen Parkland	0	0
4132 - South Florida Hardwood Hammock	0	0
4133 - Atlantic Coastal Plain Dry and Dry-Mesic Oak Forest	0	0
4134 - Southwest Florida Coastal Strand and Maritime Hammock	0	0
4135 - Southeast Florida Coastal Strand and Maritime Hammock	0	0
4136 - Central and South Texas Coastal Fringe Forest and Woodland	0	0
4137 - West Gulf Coastal Plain Chenier and Upper Texas Coastal Fringe Forest and Woodland	0	0
4138 - Northwestern Great Plains Aspen Forest and Parkland	0	0
4139 - Mississippi River Alluvial Plain Dry-Mesic Loess Slope Forest	0	0
4140 - East-Central Texas Plains Post Oak Savanna and Woodland	0	0
4141 - East-Central Texas Plains Riparian Forest	0	0
4142 - East-Central Texas Plains Floodplain Forest	0	0
4143 - Madrean Encinal	0	0
4144 - Mediterranean California Mixed Oak Woodland	1	1
4145 - South Florida Pine Rockland	0	0
4146 - Southern Coastal Plain Oak Dome and Hammock	0	0
4147 - Inter-Mountain Basins Curl-leaf Mountain Mahogany Woodland and Shrubland	0	1
4148 - North Pacific Broadleaf Landslide Forest and Shrubland	0	0

Season	Year Round	
Region*	NW	sw
Map Unit		
4149 - Ozark-Ouachita Dry Oak Woodland	0	0
4150 - East Gulf Coastal Plain Maritime Forest	0	0
4151 - Lower Mississippi River Dune Woodland and Forest	0	0
4152 - Edwards Plateau Limestone Savanna and Woodland	0	0
4153 - Mississippi Delta Maritime Forest	0	0
4154 - Western Great Plains Wooded Draw and Ravine	0	0
4155 - Edwards Plateau Dry-Mesic Slope Forest and Woodland	0	0
4201 - Boreal Aspen-Birch Forest	0	0
4202 - Southern Piedmont Mesic Forest	0	0
4203 - Southern Crowley's Ridge Mesic Loess Slope Forest	0	0
4204 - West Gulf Coastal Plain Mesic Hardwood Forest	0	0
4205 - East Gulf Coastal Plain Northern Mesic Hardwood Forest	0	0
4206 - South-Central Interior / Upper Coastal Plain Flatwoods	0	0
4207 - Ozark-Ouachita Mesic Hardwood Forest	0	0
4208 - Edwards Plateau Mesic Canyon	0	0
4209 - East Gulf Coastal Plain Southern Mesic Slope Forest	0	0
4210 - Atlantic Coastal Plain Central Maritime Forest	0	0
4211 - Atlantic Coastal Plain Northern Maritime Forest	0	0
4212 - Atlantic Coastal Plain Southern Maritime Forest	0	0
4301 - East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest - Hardwood Modifier	0	0
4302 - Southern Piedmont Dry Oak-(Pine) Forest - Hardwood Modifier	0	0
4303 - East Gulf Coastal Plain Black Belt Calcareous Prairie and Woodland - Woodland Modifier	0	0
4304 - Northeastern Interior Dry Oak Forest - Virginia/Pitch Pine Modifier	0	0
4305 - Southern Piedmont Dry Oak-(Pine) Forest - Loblolly Pine Modifier	0	0
4306 - East Gulf Coastal Plain Northern Dry Upland Hardwood Forest - Offsite Pine Modifier	0	0
4307 - Allegheny-Cumberland Dry Oak Forest and Woodland - Pine Modifier	0	0
4308 - Southern Ridge and Valley Dry Calcareous Forest - Pine modifier	0	0
4309 - East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest - Mixed Modifier	0	0
4310 - Southern Piedmont Dry Oak-(Pine) Forest - Mixed Modifier	0	0
4311 - Southern Piedmont Dry Oak-Heath Forest - Mixed Modifier	0	0
4312 - Western Great Plains Dry Bur Oak Forest and Woodland	0	0
4313 - Northern Atlantic Coastal Plain Dry Hardwood Forest	0	0

Season	Year Round	
Region*	NW	sw
Map Unit		
4314 - Appalachian Shale Barrens	0	0
4315 - Madrean Pine-Oak Forest and Woodland 4316 - Madrean Pine-Oak Forest and Woodland	0	0
4316 - Madrean Upper Montane Conifer-Oak Forest and Woodland 4316 - Madrean Upper Montane Conifer-Oak Forest and Woodland	0	0
4317 - Mediterranean California Lower Montane Black Oak-Conifer Forest and Woodland	1	1
4318 - Mediterranean California Red Fir Forest	0	0
4319 - North Pacific Dry Douglas-fir-(Madrone) Forest and Woodland	0	0
4320 - Mediterranean California Mixed Evergreen Forest	0	0
4321 - West Gulf Coastal Plain Upland Longleaf Pine Forest and Woodland	0	0
4322 - Southeastern Interior Longleaf Pine Woodland	0	0
4323 - Laurentian-Acadian Northern Pine-(Oak) Forest	0	0
4324 - Inter-Mountain Basins Aspen-Mixed Conifer Forest and Woodland	0	0
4325 - Central Interior Highlands Dry Acidic Glade and Barrens	0	0
4326 - Boreal White Spruce-Fir-Hardwood Forest	0	0
4327 - Laurentian-Acadian Pine-Hemlock-Hardwood Forest	0	0
4328 - Ozark-Ouachita Shortleaf Pine-Oak Forest and Woodland	0	0
4329 - Southern Piedmont Dry Oak-(Pine) Forest	0	0
4330 - Central Appalachian Oak and Pine Forest	0	0
4331 - Appalachian Hemlock-Hardwood Forest	0	0
4332 - West Gulf Coastal Plain Pine-Hardwood Forest	0	0
4333 - Acadian Low-Elevation Spruce-Fir-Hardwood Forest	0	0
4334 - Southern Ridge and Valley Dry Calcareous Forest	0	0
4335 - Central Appalachian Pine-Oak Rocky Woodland	0	0
4336 - West Gulf Coastal Plain Sandhill Oak and Shortleaf Pine Forest and Woodland	0	0
4337 - Northern Crowley's Ridge Sand Forest	0	0
4338 - North Pacific Lowland Mixed Hardwood-Conifer Forest and Woodland	0	0
4401 - Southern and Central Appalachian Cove Forest	0	0
4402 - South-Central Interior Mesophytic Forest	0	0
4403 - Atlantic Coastal Plain Mesic Hardwood and Mixed Forest	0	0
4404 - Mediterranean California Mesic Serpentine Woodland and Chaparral	1	1
4501 - East Gulf Coastal Plain Interior Upland Longleaf Pine Woodland - Offsite Hardwood Modifier	0	0
4502 - Florida Longleaf Pine Sandhill - Open Understory Modifier	0	0
4503 - Florida Longleaf Pine Sandhill - Scrub/Shrub Understory Modifier	0	0

Season	Year Round	
Region*	NW	sw
Map Unit		
4504 - Atlantic Coastal Plain Fall-Line Sandhills Longleaf Pine Woodland - Loblolly Modifier	0	0
4505 - Atlantic Coastal Plain Fall-line Sandhills Longleaf Pine Woodland - Open Understory Modifier	0	0
4506 - Atlantic Coastal Plain Fall-line Sandhills Longleaf Pine Woodland - Scrub/Shrub Understory Modifier	0	0
4507 - East Gulf Coastal Plain Interior Upland Longleaf Pine Woodland - Loblolly Modifier	0	0
4508 - East Gulf Coastal Plain Interior Upland Longleaf Pine Woodland - Open Understory Modifier	0	0
4509 - East Gulf Coastal Plain Interior Upland Longleaf Pine Woodland - Scrub/Shrub Modifier	0	0
4510 - Northern Rocky Mountain Western Larch Savanna	0	0
4511 - Central and Southern California Mixed Evergreen Woodland	0	0
4512 - Colorado Plateau Pinyon-Juniper Woodland	0	0
4513 - Columbia Plateau Western Juniper Woodland and Savanna	1	1
4514 - Great Basin Pinyon-Juniper Woodland	0	1
4515 - Inter-Mountain Basins Subalpine Limber-Bristlecone Pine Woodland	0	1
4516 - Klamath-Siskiyou Lower Montane Serpentine Mixed Conifer Woodland	0	0
4517 - Klamath-Siskiyou Upper Montane Serpentine Mixed Conifer Woodland	0	0
4518 - Madrean Pinyon-Juniper Woodland	0	0
4519 - Mediterranean California Dry-Mesic Mixed Conifer Forest and Woodland	1	1
4520 - California Montane Jeffrey Pine-(Ponderosa Pine) Woodland	0	0
4521 - Mediterranean California Subalpine Woodland	0	0
4522 - North Pacific Maritime Dry-Mesic Douglas-fir-Western Hemlock Forest	0	0
4523 - North Pacific Mountain Hemlock Forest	0	0
4524 - Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	0	0
4525 - Northern Rocky Mountain Subalpine Woodland and Parkland	0	0
4526 - Rocky Mountain Foothill Limber Pine-Juniper Woodland	0	0
4527 - Rocky Mountain Lodgepole Pine Forest	0	0
4528 - Southern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest and Woodland	0	0
4529 - Northern Rocky Mountain Ponderosa Pine Woodland and Savanna	0	0
4530 - Southern Rocky Mountain Ponderosa Pine Woodland	0	0
4531 - Rocky Mountain Subalpine Dry-Mesic Spruce-Fir Forest and Woodland	0	1
4532 - Rocky Mountain Subalpine-Montane Limber-Bristlecone Pine Woodland	0	0
4533 - Sierra Nevada Subalpine Lodgepole Pine Forest and Woodland	0	1
4534 - Southern Rocky Mountain Pinyon-Juniper Woodland	0	0
4535 - Boreal Jack Pine-Black Spruce Forest	0	0

Season	Year Round	
Region*	NW	sw
Map Unit		
4536 - Atlantic Coastal Plain Upland Longleaf Pine Woodland	0	0
4537 - Southern Appalachian Montane Pine Forest and Woodland	0	0
4538 - Southern Appalachian Low Mountain Pine Forest	0	0
4539 - Northeastern Interior Pine Barrens	0	0
4540 - Northern Atlantic Coastal Plain Pitch Pine Barrens	0	0
4541 - East-Central Texas Plains Pine Forest and Woodland	0	0
4542 - Laurentian Jack Pine-Red Pine Forest	0	0
4543 - Middle Rocky Mountain Montane Douglas-fir Forest and Woodland	0	0
4544 - Rocky Mountain Poor-Site Lodgepole Pine Forest	0	0
4545 - California Coastal Closed-Cone Conifer Forest and Woodland	0	0
4546 - Sierran-Intermontane Desert Western White Pine-White Fir Woodland	0	0
4547 - North Pacific Dry-Mesic Silver Fir-Western Hemlock-Douglas-fir Forest	0	0
4548 - Northwestern Great Plains - Black Hills Ponderosa Pine Woodland and Savanna	0	0
4549 - Ozark-Ouachita Shortleaf Pine-Bluestem Woodland	0	0
4550 - East Cascades Oak-Ponderosa Pine Forest and Woodland	0	0
4551 - Acadian-Appalachian Montane Spruce-Fir Forest	0	0
4552 - North Pacific Wooded Volcanic Flowage	0	0
4553 - Atlantic Coastal Plain Fall-line Sandhills Longleaf Pine Woodland - Offsite Hardwood Modifier	0	0
4601 - California Coastal Redwood Forest	0	0
4602 - East Cascades Mesic Montane Mixed-Conifer Forest and Woodland	0	0
4603 - Mediterranean California Mesic Mixed Conifer Forest and Woodland	1	1
4604 - North Pacific Hypermaritime Sitka Spruce Forest	1	1
4605 - North Pacific Maritime Mesic Subalpine Parkland	0	0
4606 - North Pacific Maritime Mesic-Wet Douglas-fir-Western Hemlock Forest	0	0
4607 - North Pacific Mesic Western Hemlock-Silver Fir Forest	0	0
4608 - Northern California Mesic Subalpine Woodland	0	0
4609 - Northern Rocky Mountain Mesic Montane Mixed Conifer Forest	0	0
4610 - Southern Rocky Mountain Mesic Montane Mixed Conifer Forest and Woodland	0	0
4611 - Rocky Mountain Subalpine Mesic Spruce-Fir Forest and Woodland	0	1
4612 - Central and Southern Appalachian Spruce-Fir Forest	0	0
4613 - North Pacific Hypermaritime Western Red-cedar-Western Hemlock Forest	0	0
5101 - Mediterranean California Alpine Fell-Field	0	0

Season	Year Round	
Region*	NW	sw
Map Unit		
5102 - North Pacific Dry and Mesic Alpine Dwarf-Shrubland, Fell-field and Meadow	0	0
5103 - Rocky Mountain Alpine Dwarf-Shrubland	0	0
5104 - Rocky Mountain Alpine Tundra/Fell-field/Dwarf-shrub	0	0
5105 - Acadian-Appalachian Alpine Tundra	0	0
5106 - North Pacific Avalanche Chute Shrubland	0	0
5107 - Acadian-Appalachian Subalpine Woodland and Heath-Krummholz	0	0
5108 - Northern Rocky Mountain Avalanche Chute Shrubland	0	0
5201 - Chihuahuan Creosotebush, Mixed Desert and Thorn Scrub	0	0
5202 - Chihuahuan Mixed Salt Desert Scrub	0	0
5203 - Chihuahuan Stabilized Coppice Dune and Sand Flat Scrub	0	0
5204 - Chihuahuan Succulent Desert Scrub	0	0
5205 - Inter-Mountain Basins Mixed Salt Desert Scrub	0	1
5206 - Mojave Mid-Elevation Mixed Desert Scrub	0	0
5207 - Sonora-Mojave Creosotebush-White Bursage Desert Scrub	0	0
5208 - Sonora-Mojave Mixed Salt Desert Scrub	0	0
5209 - Sonoran Mid-Elevation Desert Scrub	0	0
5210 - Southern California Coastal Scrub	1	1
5211 - Apacherian-Chihuahuan Mesquite Upland Scrub	0	0
5212 - Chihuahuan Mixed Desert and Thorn Scrub	0	0
5213 - Sonoran Paloverde-Mixed Cacti Desert Scrub	0	0
5214 - Florida Peninsula Inland Scrub	0	0
5215 - Tamaulipan Mixed Deciduous Thornscrub	0	0
5216 - Tamaulipan Mesquite Upland Scrub	0	0
5217 - Tamaulipan Calcareous Thornscrub	0	0
5218 - Northern California Coastal Scrub	1	1
5301 - Western Great Plains Sandhill Steppe	0	0
5302 - Northern Rocky Mountain Foothill Conifer Wooded Steppe	0	0
5303 - Apacherian-Chihuahuan Semi-Desert Grassland and Steppe	0	0
5304 - Chihuahuan Gypsophilous Grassland and Steppe	0	0
5305 - Columbia Plateau Steppe and Grassland	1	1
5306 - Columbia Plateau Low Sagebrush Steppe	0	0
5307 - Inter-Mountain Basins Big Sagebrush Steppe	0	1

U.S. Department of the Interior

Bits plus Marcian Susin Montano Sugabush Stoppon Comment of Marcian Susin	Season	Year Round	
Part	Region*	NW	sw
202 - Inform Montain Bains Seric Queer 1	Map Unit		
202 - Inform Montain Bains Seric Queer 1			
10 10 10 10 10 10 10 10	5308 - Inter-Mountain Basins Montane Sagebrush Steppe	0	1
22. California Mesic Chaparral 23. California Mesic Me	5309 - Inter-Mountain Basins Semi-Desert Shrub Steppe	0	1
435 - California Montane Woodand and Chapural 0 0 406 - California Montane Woodand and Chapural 0 0 405 - Mande and Christoparal 0 0 407 - Magdelin Chapural 0 0 407 - Magdelin Chapural 0 0 408 - Mande and Chapural 0 0 409 - Magdelin Chapural 0 0 400 - Mandelin Chapural 0 0 401 - Southern Chapural 0 0 402 - Chapter Chapural 0 0 403 - Chapter	5401 - California Maritime Chaparral	0	0
484. California Xirric Serponénic Oraparral 0 0 485. Multinario Chiental Chaperral 0 0 486. Great Blain Serie Desert Chaperral 0 0 486. Horbert and Central California Ony-Mexic Chaperral 0 0 489. Horbert and Central California Ony-Mexic Chaperral 0 0 489. Sonza Addigore Serie Ossert Chaperral 0 0 489. Sonza Addigore Serie Ossert Chaperral 0 0 481. Cachalden Chaperral 0 0 582. Calderina Charle Modeland and Savarra 0 0 583. Cachalden Challen Evaluate Basia Uneractive Valve Upland Prain and Savarra </td <td>5402 - California Mesic Chaparral</td> <td>0</td> <td>0</td>	5402 - California Mesic Chaparral	0	0
485 Marketen Or Intraal Chaperral 0 0 486 Gest Balan Semi-Desert Chaperral 0 0 487 Magolin Chaperral 0 0 487 Magolin Chaperral 1 1 489 Northern and Central California Dry-Mosic Chaperral 1 1 489 Sonora Mijave Semi-Desert Chaperral 0 0 480 Sonora Mijave Semi-Desert Chaperral 0 0 481 Cashalian Chaperral 0 0 481 Cashalian Chaperral 0 0 481 Cashalian Chaperral 0 0 582 California Chaperral Valley Mede Chai Savanna 0 0 582 California Cassabili kie Dak Woodland and Savanna 0 0 582 California Cassabili kie Dak Woodland and Savanna 0 0 583 Marketen Valley Upland Prairie and Savanna 0 0 585 Marketen Valley Upland Prairie and Savanna 0 0 585 Marketen Valley Upland Prairie and Savanna 0 0 585 Marketen Valley Upland Prairie ken Jake Up	5403 - California Montane Woodland and Chaparral	0	0
405 - Great Bain Seniré Severt Chaparral 0 0 407 - Mogelien Chaparral 0 0 408 - Norder Margillor Chaparral 1 1 408 - Norder Margillor Service Chaparral 1 1 409 - Sonara Pullijone Service Object Chaparral 0 0 410 - Sonara Pullijone Service Object Chaparral 0 0 411 - Cachallan Chaparral 0 0 412 - Cachallan Chaparral 0 0 512 - Celifor ris Contral Valley Medical Services 0 0 512 - Celifor ris Cachael Live Cask Woodland and Savarna 0 0 512 - Celifor ris Cachael Live Cask Woodland and Savarna 0 0 512 - Celifor ris Cachael Live Cask Woodland and Savarna 0 0 512 - Celifor ris Cachael Live Cask Woodland and Savarna 0 0 512 - Celifor Ris Cachael Live Cask Woodland and Savarna 0 0 512 - Celifor Ris Cachael Live Cask Woodland and Savarna 0 0 512 - Celifor Ris Cachael Live Cask Woodland and Savarna 0 0 512 - Celifor Live Cachael Live Cachael Live Cachael Live Cachael Live Cachael Live Cachael Live Cacha	5404 - California Xeric Serpentine Chaparral	0	0
407 - Megodin Chaparral 1 2 0	5405 - Madrean Oriental Chaparral	0	0
408 - Northern and Central California Dry-Mesic Chaparral 1 1 409 - Sonora-Milojavs Seni-Chesert Chaparral 0 0 410 - Southern California Dry-Mesic Chaparral 0 0 411 - Cashalan Chegarral 0 0 512 - Celifornia Chegarral 0 0 502 - Celifornia Coastal Live Oak Woodland and Savanna 1 1 503 - Celifornia Coastal Live Oak Woodland and Savanna 0 0 504 - Celifornia Coastal Live Oak Woodland and Savanna 0 0 505 - Vellamente California Oak Woodland and Savanna 0 0 505 - Wallamente Valley Upland Prairie and Savanna 0 0 505 - Wallamente Valley Upland Prairie and Savanna 0 0 507 - North-Central Oak Barrens 0 0 508 - North-Central Oak Barrens 0 0 509 - North-Central Oak Barrens 0 0 500 - North-Central Oak Barrens 0 0 500 - North-Central Oak Barrens 0 0 501 - Central Palipatichan Akaline Galde and Barrens 0 0 502 - Central Interior Highland	5406 - Great Basin Semi-Desert Chaparral	0	0
400 - Scoote Minglave Semi-Desert Chaparral 0 0 410 - Southern California Dry-Mesic Chaparral 0 0 411 - Conduitad Chaparral 0 0 610 - California Christ Valley Miles Golk Savarma 0 0 502 - California Contral Valley Miles Golk Savarma 1 1 503 - California Lower Mortane Blue Golk-Foothil Pine Woodland and Savarma 0 0 504 - California Lower Mortane Blue Golk-Foothil Pine Woodland and Savarma 0 0 505 - California Lower Mortane Blue Golk-Foothil Pine Woodland and Savarma 0 0 505 - Williamete Valley Upland Pini and Savarma 0 0 505 - Williamete Valley Upland Pini and Savarma 0 0 505 - Williamete Valley Upland Pini and Savarma 0 0 505 - Williamete Valley Upland Pini and Savarma 0 0 506 - North-Central Interior Oak Savarma 0 0 507 - North-Central Interior Califor Oak Savarma 0 0 508 - Southern Pedmant Glade and Barrers 0 0 509 - North-Central Interior Califor	5407 - Mogollon Chaparral	0	0
101 - Southern California Dry-Meisc Chaparral 102 - California Chry-Meisc Chaparral 103 - California Chry-Meisc Chaparral 104 - Cabhallan Chaparral 105 - California Chry-Meisc Chaparral 106 - California Chry-Meisc Chaparral 107 - California Chry-Meisc Chaparral 107 - California Chry-Meisc Chaparral 108 - California Chry-Meisc Chaparral 109 - California Chry-Meisc Chaparral 109 - California Chry-Meisc Chaparral 100 - California Chry-Meisc Chry-Meisc Chaparral 100 - California Chry-Meisc Chry-Meisc Chaparral 100 - California Chry-Meisc Chry-Meis	5408 - Northern and Central California Dry-Mesic Chaparral	1	1
11 - Coahulian Chaparral 11 - Coahulian Chaparral 12 - California Central Valley Mixed Oak Savanna 12 - California Coartal Sive Oak Woodland and Savanna 13 - California Coartal Sive Oak Woodland and Savanna 14 - California Coartal Sive Oak Woodland and Savanna 15 - California Coartal Sive Oak Woodland and Savanna 15 - California Coartal Coartal Sive Oak Woodland and Savanna 15 - California Coartal Coartal Sive Oak Woodland and Savanna 15 - California Coartal	5409 - Sonora-Mojave Semi-Desert Chaparral	0	0
501 - California Central Valley Mixed Glak Savanna 0 0 502 - California Castal Live Oak Woodland and Savanna 1 1 503 - California Lower Montane Blue Oak - Foothill Pine Woodland and Savanna 0 0 504 - California Lower Montane Blue Oak - Foothill Pine Woodland and Savanna 0 0 505 - Wildenette Valley Upland Parie and Savanna 0 0 505 - Wildenette Valley Upland Parie and Savanna 0 0 505 - Worth-Central Interior Oak Savanna 0 0 507 - North-Central Oak Barrens 0 0 509 - North-Central Oak Barrens 0 0 509 - Nashville Basin Limestone Glade 0 0 501 - Cumberland Sandstone Glade and Barrens 0 0 501 - Cumberland Sandstone Glade and Barrens 0 0 511 - Central Appaliachira Alkaline Glade and Woodland 0 0 512 - Central Appalachira Appalachira Alkaline Glade and Woodland 0 0 513 - West Gulf Coastal Plain Catalnous Glades and Barrens 0 0 514 - West Gulf Coastal Plain Catalnous Glade and Woodland 0 0 515 - Luur	5410 - Southern California Dry-Mesic Chaparral	0	0
502 - California Coastal Live Oak Woodland and Savanna 1 1 503 - California Lower Montane Blue Oak-Foothill Prine Woodland and Savanna 0 0 504 - Southern California Oak Woodland and Savanna 0 0 505 - Southern California Oak Woodland and Savanna 0 0 506 - North-Central Interior Oak Savanna 0 0 507 - North-Central Interior Oak Savanna 0 0 508 - Southern Pledmont Glade Sarrens 0 0 509 - Nashville Basin Limestone Glade 0 0 509 - Nashville Basin Limestone Glade and Barrens 0 0 510 - Cumber land Sandstone Glade and Moodland 0 0 512 - Central Interior Highlands Calcareous Glade and Barrens 0 0 513 - West Guif Coastal Plain Catahoula Barrens 0 0 514 - West Guif Coastal Plain Catahoula Barrens 0 0 515 - Laurentian Pine-Oak Barrens 0 0 516 - Klamath Siskiyou Xeromorphic Serpentine Savanna and Chaparral 0 0 517 - Palecock Plateau Bluff and Talus 0 0 601 - Colorado Plateau Plnyon-Juniper Shrubland	5411 - Coahuilan Chaparral	0	0
503 - California Lower Montane Blue Calik-Foothill Pine Woodland and Savanna 0 0 504 - Southern California Calk Woodland and Savanna 0 0 505 - Williamette Valley Upland Prairie and Savanna 0 0 506 - North-Central Interior Calk Savanna 0 0 507 - North-Central Calk Barrens 0 0 508 - North-Central Calk Barrens 0 0 509 - Nashville Basin Limestone Glade and Barrens 0 0 510 - Cumberland Sandstone Glade and Barrens 0 0 510 - Cumberland Sandstone Glade and Barrens 0 0 512 - Central Interior Highlands Calcareous Glade and Barrens 0 0 513 - West Guiff Coastal Plain Catabula Barrens 0 0 514 - West Guiff Coastal Plain Catabula Barrens 0 0 515 - Laurentian Pine- Calk Barrens 0 0 516 - Klamath-Siskiyou Xeromorphic Serpentine Savanna and Chaparral 0 0 517 - Paleozoic Plateau Bluff and Talus 0 0 601 - Colorado Plateau Phryon-Juniper Shrubland 0 0	5501 - California Central Valley Mixed Oak Savanna	0	0
504 - Southern California Oak Woodland and Savanna 0 0 505 - Williamette Valley Upland Prairie and Savanna 0 0 506 - North-Central Interior Oak Savanna 0 0 507 - North-Central Oak Barrens 0 0 508 - Southern Pledment Glade and Barrens 0 0 509 - Nashville Basin Limestone Glade 0 0 509 - Nashville Basin Limestone Glade and Barrens 0 0 510 - Cumberland Sanekstone Glade and Barrens 0 0 511 - Central Appalachian Alkaline Glade and Woodland 0 0 512 - Central Interior Mighlands Calcareous Glade and Barrens 0 0 513 - West Gulf Coastal Plain Catahouls Barrens 0 0 514 - West Gulf Coastal Plain Nepheline Syenite Glade 0 0 515 - Laurentian Pine- Oak Barrens 0 0 516 - Klamath-Sikkiyou Xeromorphic Serpentine Savanna and Chaparral 0 0 517 - Paleocoic Plateau Bluff and Talus 0 0 601 - Colorado Plateau Pinyor-Juniper Strubland 0 0	5502 - California Coastal Live Oak Woodland and Savanna	1	1
505 - Williamette Valley Upland Prairie and Savanna 0 0 506 - North-Central Interior Oak Savanna 0 0 507 - North-Central Oak Barrens 0 0 508 - Southern Pledmont Glade and Barrens 0 0 509 - Nashville Basin Limestone Glade 0 0 510 - Cumberland Sandstone Glade and Barrens 0 0 511 - Central Appalachian Alkaline Glade and Woodland 0 0 512 - Central Interior Highlands Calcareous Glade and Barrens 0 0 513 - West Gulf Coastal Plain Catahoula Barrens 0 0 514 - West Gulf Coastal Plain Nepheline Syenite Glade 0 0 515 - Luurentian Pine-Oak Barrens 0 0 516 - Klamath-Sikkyou Xeromorphic Serpentine Savanna and Chaparral 0 0 517 - Paleozoic Plateau Bluff and Talus 0 0 601 - Colorado Plateau Pinyon-Juniper Shrubland 0 0	5503 - California Lower Montane Blue Oak-Foothill Pine Woodland and Savanna	0	0
506 - North-Central Interior Oak Savanna 0 0 507 - North-Central Oak Barrens 0 0 508 - Southern Piedmont Glade and Barrens 0 0 509 - Nashville Basin Limestone Glade 0 0 5010 - Cumberland Sandstone Glade and Barrens 0 0 511 - Central Appalachian Alkaline Glade and Woodland 0 0 512 - Central Interior Highlands Calcareous Glade and Barrens 0 0 513 - West Gulf Coastal Plain Catahoula Barrens 0 0 514 - West Gulf Coastal Plain Nepheline Syenite Glade 0 0 515 - Laurentian Pine-Oak Barrens 0 0 516 - Klamath-Siskiyou Xeromorphic Serpentine Savanna and Chaparral 0 0 517 - Paleczoic Plateau Bluff and Talus 0 0 501 - Colorado Plateau Pinyon-Juniper Shrubland 0 0	5504 - Southern California Oak Woodland and Savanna	0	0
507 - North-Central Oak Barrens 0 0 508 - Southern Piedmont Glade and Barrens 0 0 509 - Nashville Basin Limestone Glade 0 0 510 - Cumberland Sandstone Glade and Barrens 0 0 511 - Central Appalachian Alkaline Glade and Woodland 0 0 512 - Central Interior Highlands Calcareous Glade and Barrens 0 0 513 - West Gulf Coastal Plain Catahoula Barrens 0 0 514 - West Gulf Coastal Plain Nepheline Syenite Glade 0 0 515 - Laurentian Pine-Oak Barrens 0 0 516 - Klamath-Siskiyou Xeromorphic Serpentine Savanna and Chaparral 0 0 517 - Paleozoic Plateau Bluff and Talus 0 0 601 - Colorado Plateau Pinyon-Juniper Shrubland 0 0	5505 - Willamette Valley Upland Prairie and Savanna	0	0
508 - Southern Piedmont Glade and Barrens 509 - Nashville Basin Limestone Glade 509 - Nashville Basin Limestone Glade 510 - Cumberland Sandstone Glade and Barrens 511 - Central Appalachian Alkaline Glade and Woodland 512 - Central Interior Highlands Calcareous Glade and Barrens 513 - West Gulf Coastal Plain Catahoula Barrens 514 - West Gulf Coastal Plain Nepheline Syenite Glade 515 - Laurentian Pine-Oak Barrens 516 - Klamath-Siskiyou Xeromorphic Serpentine Savanna and Chaparral 517 - Paleozoic Plateau Bluff and Talus 601 - Colorado Plateau Pinyon-Juniper Shrubland 602 - O	5506 - North-Central Interior Oak Savanna	0	0
509 - Nashville Basin Limestone Glade 510 - Cumberland Sandstone Glade and Barrens 511 - Central Appalachian Alkaline Glade and Woodland 512 - Central Interior Highlands Calcareous Glade and Barrens 513 - West Gulf Coastal Plain Catahoula Barrens 514 - West Gulf Coastal Plain Nepheline Syenite Glade 515 - Laurentian Pine-Oak Barrens 516 - Klamath-Siskiyou Xeromorphic Serpentine Savanna and Chaparral 517 - Paleozoic Plateau Bluff and Talus 601 - Colorado Plateau Pinyon-Juniper Shrubland 601 - Colorado Plateau Pinyon-Juniper Shrubland	5507 - North-Central Oak Barrens	0	0
510 - Cumberland Sandstone Glade and Barrens 511 - Central Appalachian Alkaline Glade and Woodland 512 - Central Interior Highlands Cakareous Glade and Barrens 513 - West Gulf Coastal Plain Catahoula Barrens 514 - West Gulf Coastal Plain Nepheline Syenite Glade 515 - Laurentian Pine-Oak Barrens 516 - Klamath-Siskiyou Xeromorphic Serpentine Savanna and Chaparral 517 - Paleozoic Plateau Bluff and Talus 601 - Colorado Plateau Pinyon-Juniper Shrubland 518 - Contrad Delateau Pinyon-Juniper Shrubland 519 - Oa	5508 - Southern Piedmont Glade and Barrens	0	0
511 - Central Appalachian Alkaline Glade and Woodland 512 - Central Interior Highlands Calcareous Glade and Barrens 513 - West Gulf Coastal Plain Catahoula Barrens 514 - West Gulf Coastal Plain Nepheline Syenite Glade 515 - Laurentian Pine-Oak Barrens 516 - Klamath-Siskiyou Xeromorphic Serpentine Savanna and Chaparral 517 - Paleozoic Plateau Bluff and Talus 601 - Colorado Plateau Pinyon-Juniper Shrubland 518 - Central Interior Highlands Calcareous Glade and Barrens 519 0 0 510 0 511 - West Gulf Coastal Plain Nepheline Syenite Glade 512 - Laurentian Pine-Oak Barrens 513 - Paleozoic Plateau Bluff and Talus 601 - Colorado Plateau Pinyon-Juniper Shrubland	5509 - Nashville Basin Limestone Glade	0	0
512 - Central Interior Highlands Calcareous Glade and Barrens 513 - West Gulf Coastal Plain Catahoula Barrens 514 - West Gulf Coastal Plain Nepheline Syenite Glade 515 - Laurentian Pine-Oak Barrens 516 - Klamath-Siskiyou Xeromorphic Serpentine Savanna and Chaparral 517 - Paleozoic Plateau Bluff and Talus 601 - Colorado Plateau Pinyon-Juniper Shrubland	5510 - Cumberland Sandstone Glade and Barrens	0	0
513 - West Gulf Coastal Plain Catahoula Barrens 514 - West Gulf Coastal Plain Nepheline Syenite Glade 514 - West Gulf Coastal Plain Nepheline Syenite Glade 515 - Laurentian Pine-Oak Barrens 516 - Klamath-Siskiyou Xeromorphic Serpentine Savanna and Chaparral 517 - Paleozoic Plateau Bluff and Talus 501 - Colorado Plateau Pinyon-Juniper Shrubland	5511 - Central Appalachian Alkaline Glade and Woodland	0	0
514 - West Gulf Coastal Plain Nepheline Syenite Glade 515 - Laurentian Pine-Oak Barrens 516 - Klamath-Siskiyou Xeromorphic Serpentine Savanna and Chaparral 517 - Paleozoic Plateau Bluff and Talus 601 - Colorado Plateau Pinyon-Juniper Shrubland 0 0 0	5512 - Central Interior Highlands Calcareous Glade and Barrens	0	0
515 - Laurentian Pine-Oak Barrens 0 0 516 - Klamath-Siskiyou Xeromorphic Serpentine Savanna and Chaparral 0 0 517 - Paleozoic Plateau Bluff and Talus 0 0 0 0 0 0 0 0 0 0 0 0 0	5513 - West Gulf Coastal Plain Catahoula Barrens	0	0
516 - Klamath-Siskiyou Xeromorphic Serpentine Savanna and Chaparral 0 0 0 517 - Paleozoic Plateau Bluff and Talus 601 - Colorado Plateau Pinyon-Juniper Shrubland 0 0 0	5514 - West Gulf Coastal Plain Nepheline Syenite Glade	0	0
517 - Paleozoic Plateau Bluff and Talus 601 - Colorado Plateau Pinyon-Juniper Shrubland 0 0 0	5515 - Laurentian Pine-Oak Barrens	0	0
601 - Colorado Plateau Pinyon-Juniper Shrubland 0 0	5516 - Klamath-Siskiyou Xeromorphic Serpentine Savanna and Chaparral	0	0
	5517 - Paleozoic Plateau Bluff and Talus	0	0
502 - Atlantic Coastal Plain Xeric River Dune	5601 - Colorado Plateau Pinyon-Juniper Shrubland	0	0
	5602 - Atlantic Coastal Plain Xeric River Dune	0	0

### Page 14	Season	Year Round	
1908 1918	Region*	NW	sw
508- Hadrain Jarger Sarona 10 mm 1	Map Unit		
508- Hadrain Jarger Sarona 10 mm 1			
505 - Southern Rocky Mountain Invasional Rivasional Rocky Mountain Javania Mountain Assistance (1908) 6.0 0.0			
506-Souther Rockey Montralian Janier Woodland and Several 0.0			
Section General Laise Alara Comment (a) Commen			
570 Color Job Pictural Mineric Low Singstrum Shrabard 0	5606 - Southern Rocky Mountain Juniper Woodland and Savanna	0	0
572 - Columbia Plateau Scalabria Plateau Sc	5607 - Great Lakes Alvar	0	0
579 Inter Mountain Basien Mat Sabbash Shrubbard 0 0 579 Woming Basien Doorf Sagburin Shrubbard and Shoppe 0 0 579 Woming Basien Doorf Sagburin Shrubbard and Shoppe 0 0 579 Woming Basien Doorf Sagburin Shrubbard 0 0 579 Woming Basien Doorf Sagburin Shrubbard 0 0 579 Southern Colorado Pintou Sard Shrubbard 0 0 580 Sagburin Agabatchian Grass and Shrub Bad Shrub Mondifer 0 0 580 Sagburin Agabatchian Grass and Shrub Bad Shrubbard 0 0 580 Sagburin Agabatchian Grass and Shrub Bad Shrubbard 0 0 580 Sagburin Agabatchian Grass and Shrub Bad Shrubbard 0 0 580 Sagburin Agabatchian Grass and Shrub Bad Shrubbard 0 0 580 Sagburin Agabatchian Grass and Shrub Bad Shrubbard 0 0 580 Sagburin Agabatchian Grass and Shr	5701 - Colorado Plateau Mixed Low Sagebrush Shrubland	0	0
570- Wyorning Basins Dwarft Saepirus h Shrubhard 0 0 5705 - Gest Basin Xerk Kirk Kirk Kirk Kirk Kirk Kirk Kirk Ki	5702 - Columbia Plateau Scabland Shrubland	0	0
575 Grant Basin Keric Miked Segebrush Shrubbard 1 576 Grant Basin Keric Miked Segebrush Shrubbard 1 5767 Grant Basin Registry Mourbain Basin Big Sagebrush Shrubbard 1 5767 Segebrush Shrubbard 1 5861 Southern Kodorsko Pikiesus Shrubbard 1 5862 Southern Appatichten Grass and Shrubbard Shrub Modifier 1 5863 Southern Appatichten Grass and Shrubbard Shrubbard 1 5864 Southern Appatichten Grass and Shrubbard Shrubbard 1 5865 Southern Appatichten Grass and Shrubbard Shrubbard 1 5866 Rocky Mourtain Shrubbard 1 5867 Rocky Mourtain Shrubbard 1 5867 Rocky Mourtain Infortane Foothil Shrubbard 1 5868 Rocky Mourtain Infortane Foothil Shrubbard 1 5869 Rocky Mourtain Shrubbard 1 5869 Rocky Mourtain Shrubbard 1 5860 Rocky Mourtain Shrubbard 1 5861 Rocky Mourtain Shrubbard 1 5862 Rocky Mourtain Shrubbard 1 5863 Rocky Mourtain Shrubbard 1 5864 Rocky Mourtain Shrubbard 1 5865 Rocky Mourtain Shrubbard 1 5867 Rocky Mour	5703 - Inter-Mountain Basins Mat Saltbush Shrubland	0	0
500- Inter-Mountain Bains Big Sagebruch Shrubbind 1 500- Inter-Mountain Bains Big Sagebruch Shrubbind 10 500- Southern Appalatchian Grass and Shrub Baid - Introduces Molfier 20 500- Southern Appalatchian Grass and Shrub Baid - Introduces Molfier 20 500- Southern Appalatchian Grass and Shrub Baid - Introduces Molfier 20 500- Southern Appalatchian Grass and Shrub Baid - Introduces Molfier 20 500- Southern Appalatchian Grass and Shrub Baid - Introduces Molfier 20 500- Southern Appalatchian Grass and Shrub Baid - Introduces Molfier 20 500- Rock Mountain Shrubbard 20 500- Northwestern Great Rains Shrubbard 20 500- Northwestern Great Rains Shrubbard 20 500- Northwestern Great Rains Mountain Mortane-Foothill Decidious Shrubbard 20 500- Northwestern Gevent Rains Mountain Mountain Mountain Mountain Mountain Shrubbard 20 500- Northwestern Gevent Rains Mountain Mou	5704 - Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	0	0
5707 - Southern Colorado Plateau Sand Shrubbland 0 0 5801 - Southern Ageabachian Grass and Shrubbland 0 0 5802 - Southern Ageabachian Grass and Shrubbland - Herbaccoan Modifier 0 0 5803 - Good and Pilateau Blackforth Morrane-tea Shrubbland 0 0 5803 - Northwenth Addrenn-tea Shrubbland 0 0 5805 - Northwenth Robert Mortane Shrubbland 0 0 5806 - Rocky Mountain Lower Mortane Shrubband 0 0 5807 - Northwen Addentic Coastal Plain Neathland and Grassland 0 0 5808 - Rocky Mountain Mortane Shrubband 0 0 5809 - Rocky Mountain Genbell Oak-Mixed Mortane Shrubband 0 0 5809 - Rocky Mountain Genbell Oak-Mixed Mortane Shrubband 0 0 5809 - Rocky Mountain Genbell Oak-Mixed Mortane Shrubband 0 0 5811 - Edwards Bitasau Limestone Shrubband 0 0 5812 - Northern Rocky Mountain Subalpine Deciduou Shrubband 0 0 5812 - Northern Rocky Mountain Subalpine Deciduou Shrubband 0 0 5812 - Northern Rocky Mountain Subalpine Deciduou Shrubband 0 0	5705 - Great Basin Xeric Mixed Sagebrush Shrubland	0	1
5801 - Southern Appalachtain Grass and Shrub Bald - Herbaccous Modifier 0 0 5802 - Southern Appalachtain Grass and Shrub Bald - Herbaccous Modifier 0 0 5803 - Codor ado Phateau Blackbrush-Mormon-teas Shrubband 0 0 5805 - North Paolifi. Mortanes Shrubband 0 0 5806 - North Paolifi. Mortanes Shrubband 0 0 5806 - Rocky Mountain Lower Montane-Fordill Shrubband 0 0 5806 - Rocky Mountain Coastal Plain Healthing and Grassial 0 0 5809 - Rocky Mountain Sambel Oak-Mixed Mortane-Fordill Bordshous Shrubband 0 0 5809 - Rocky Mountain Sambel Oak-Mixed Mortane-Fordill Bordshous Shrubband 0 0 5811 - Edwards Plainau Linestone Shrubband 0 0 5812 - Northern Rocky Mountain Sambel Oak-Mixed Mortane Shrubband 0 0 5812 - Northern Rocky Mountain Sambel Oak-Mixed Mortane Shrubband 0 0 5812 - Northern Rocky Mountain Shabpine Deciduous Shruband 0 0 5812 - Northern Rocky Mountain Shabpine Deciduous Shruband 0 0 5812 - Northern Rocky Mountain Shabpine Deciduous Shruband 0 0 5812 - Rocky M	5706 - Inter-Mountain Basins Big Sagebrush Shrubland	0	1
880 - Southern Appalachtien Grass and Shrub Bald - Herbaceus Modifier 0 0 880 - Coder ado Plateau Blackfurush-Mormoness Shrubland 0 0 890 - North Picific Montane Shrubland 0 0 890 - North Picific Montane Shrubland 0 0 890 - Northwestern Geat Plains Mespala Male Mand Grassland 0 0 890 - Northwestern Rocky Mountain Northane-Foothill Deciduous Shrubland 0 0 890 - Rocky Mountain Ganbel Colk-Mixed Montane Shrubland 0 0 890 - Rocky Mountain Shubjahe Deciduous Shrubland 0 0 891 - Edwards Plateau Limestone Shrubland 0 0 892 - Rocky Mountain Shubjahe Deciduous Shrubland 0 0 891 - Edwards Plateau Limestone Shrubland 0 0 892 - Rocky Mountain Shubjahe Deciduous Shrubland 0 0 992 - Rocky Mountain Shubjahe Deciduous Shrubland </td <td>5707 - Southern Colorado Plateau Sand Shrubland</td> <td>0</td> <td>0</td>	5707 - Southern Colorado Plateau Sand Shrubland	0	0
883 - Colorado Platiasua Blackfrush-Mormen-tea Shrubband 0 0 5804 - North Pacific Mortane Shrubband 0 0 5805 - Northwestern Great Plains Shrubband 0 0 5805 - Northwestern Great Plains Shrubband 0 0 5807 - Northern Aldride Coastal Plain Heathland and Grassland 0 0 5808 - Northern Rockyl Mountain Mortane-Foothill Deciduous Shrubband 0 0 5809 - Rocky Mountain Gambel Olak-Mixed Mortane-Forothill Deciduous Shrubband 0 0 5801 - Best Plains Mesquite Woodand and Shrubband 0 0 0 5811 - Edwards Plateau Limestone Shrubband 0 0 0 0 5812 - Northern Rocky Mountain Subalpine Deckdous Shrubband 0 <t< td=""><td>5801 - Southern Appalachian Grass and Shrub Bald - Shrub Modifier</td><td>0</td><td>0</td></t<>	5801 - Southern Appalachian Grass and Shrub Bald - Shrub Modifier	0	0
5814- North Padirik Montane Shrubland 0 0 5805 - Northwestern Great Plain's Shrubland 0 0 5806 - Rocky Mountain Lower Montane-Foothill Shrubland 0 0 5807 - Northern Addantic Coastal Plain Healthand and Grassland 0 0 5808 - Northern Rocky Mountain Montane-Foothill Decidious Shrubland 0 0 5809 - Rocky Mountain Grassland 0 0 5809 - Rocky Mountain Grassland 0 0 5810 - Western Great Plains Mesquite Woodland and Shrubland 0 0 5811 - Search Shrubland 0 0 5811 - Northern Rocky Mountain Shulapine Deciduous Shrubland 0 0 5812 - Northern Rocky Mountain Shulapine Deciduous Shrubland 0 0 7812 - Northern Rocky Mountain Shulapine Deciduous Shrubland 0 0 7812 - Northern Rocky Mountain Shulapine Deciduous Shrubland 0 0 7812 - Rocky Mountain Dy Tundra 0 0 0 7813 - Rocky Mountain Shulapine Deciduous Shrubland 0 0 0 7814 - North Pacific Alpine and Shulapine Dry Grassland 0 0 0	5802 - Southern Appalachian Grass and Shrub Bald - Herbaceous Modifier	0	0
S65 - Northwestern Great Plains Shrubland 0 0 566 - Rocky Mountain Lower Montane- Footbill Shrubland 0 0 567 - Northern Atlantic Coastal Plain Heathland and Grassland 0 0 568 - Northern Rocky Mountain Montane- Footbill Dickiduous Shrubland 0 0 569 - Rocky Mountain Gambel Oak- Mixed Montane Shrubland 0 0 569 - Rocky Mountain Sumbel Oak- Mixed Montane Shrubland 0 0 561 - Western Great Plains Mesquite Woodland and Shrubland 0 0 561 - Edwards Plateau Limestone Shrubland 0 0 561 - Edwards Plateau Limestone Shrubland 0 0 101 - Mediterranean California Alpine Deciduous Shrubland 0 0 102 - Rocky Mountain Subalpine Deciduous Shrubland 0 0 103 - Rocky Mountain Alpine Pel-Field 0 0 103 - Rocky Mountain Alpine Pel-Field 0 0 104 - North Pacific Alpine and Subalpine Dry Grassland 0 0 105 - Mediterranean California Subalpine Ped-Field 0 0 106 - North Pacific Montane Grassland 0 0 107 - Mediterranean Calif	5803 - Colorado Plateau Blackbrush-Mormon-tea Shrubland	0	0
S66 - Rocky Mountain Lower Montane-Foothill Shrubland 0 0 587 - Northern Attantic Castal Plain Heathland and Grasland 0 0 588 - Northern Rocky Mountain Montane-Foothill Deciduous Shrubland 0 0 589 - Rocky Mountain Sambel Oak-Mixed Montane Shrubland 0 0 581 - Western Great Plains Mesquite Woodland and Shrubland 0 0 581 - Edwards Plateau Limestone Shrubland 0 0 581 - Western Great Plains Mesquite Woodland and Shrubland 0 0 581 - Edwards Plateau Limestone Shrubland 0 0 581 - Western Great Plains Mesquite Woodland and Shrubland 0 0 581 - Western Great Plains Mesquite Woodland and Shrubland 0 0 581 - Western Great Plains Mesquite Woodland and Shrubland 0 0 581 - Western Great Plains Mesquite Woodland and Shrubland 0 0 581 - Western Great Plains Mesquite Woodland and Shrubland 0 0 581 - Western Great Plains Mesquite Woodland and Shrubland Plain Plain Mesquite Woodland Shrubland 0 0 782 - Woodland Alpine Plain Subalpine Poly Tundra 0 0 0 783 - Woodl	5804 - North Pacific Montane Shrubland	0	0
5807 - Northern Atlantic Coastal Plain Heathland and Grassland 0 0 5808 - Northern Rocky Mountain Montane-Forbill Deciduous Shrubland 0 0 5809 - Rocky Mountain Gambel Oak-Mixed Montane Shrubland 0 0 5810 - Western Great Plains Mesquike Woodland and Shrubland 0 0 5811 - Edwards Platabu Limestone Shrubland 0 0 5812 - Northern Rocky Mountain Subalpine Deciduous Shrubland 0 0 5812 - Northern Rocky Mountain Subalpine Deciduous Shrubland 0 0 7812 - Northern Rocky Mountain Subalpine Deciduous Shrubland 0 0 7812 - Northern Rocky Mountain Subalpine Deciduous Shrubland 0 0 7812 - Northern Rocky Mountain Subalpine Dept Turdra 0 0 7813 - Rocky Mountain Subalpine Pell-Field 0 0 7814 - North Pacific Alpine and Subalpine Dry Grassland 0 0 7815 - Mediterranean California Subalpine Meadow 0 0 7812 - North Pacific Montane Grassland 0 0 7813 - Northern Rocky Mountain Lower Montane, Foothill and Valley Grassland 0 0	5805 - Northwestern Great Plains Shrubland	0	0
588 - Northern Rocky Mountain Montane-Foothill Deciduous Shrubland 0 0 589 - Rocky Mountain Gambel Oak-Mixed Montane Shrubland 0 0 5810 - Western Great Plains Mesquite Woodland and Shrubland 0 0 5811 - Edwards Plateau Limestone Shrubland 0 0 5812 - Northern Rocky Mountain Subalpine Deciduous Shrubland 0 0 5812 - Northern Rocky Mountain Subalpine Deciduous Shrubland 0 0 7101 - Mediterranean California Alpine Dry Tundra 0 0 7102 - Rocky Mountain Py Tundra 0 0 7103 - North Pacific Alpine and Subalpine Dry Grassland 0 0 7204 - North Pacific Alpine and Subalpine Meadow 0 0 7205 - North Pacific Montane Grassland 0 0 7206 - North Pacific Montane Grassland 0 0 7207 - Northern Rocky Mountain Lover Montane, Foothilland Valley Grassland 0 0	5806 - Rocky Mountain Lower Montane-Foothill Shrubland	0	0
5899- Rocky Mountain Gambel Oak-Mixed Montane Shrubland 0 0 5810 - Western Great Plains Mesquite Woodland and Shrubland 0 0 5811 - Edwards Plateau Limestone Shrubland 0 0 5812 - Northern Rocky Mountain Subalpine Deciduous Shrubland 0 0 7101 - Mediterranean California Alpine Dry Tundra 0 0 7102 - Rocky Mountain Alpine Fell-Field 0 0 7103 - Rocky Mountain Dry Tundra 0 0 7104 - North Pacific Alpine and Subalpine Dry Grassland 0 0 7201 - Mediterranean California Subalpine Meadow 0 0 7202 - North Pacific Montane Grassland 0 0 7203 - Norther Rocky Mountain Lower Montane, Foothill and Valley Grassland 0 0	5807 - Northern Atlantic Coastal Plain Heathland and Grassland	0	0
5810 - Western Great Plains Mesquite Woodland and Shrubland 0 0 5811 - Edwards Plateau Limestone Shrubland 0 0 5812 - Northern Rocky Mountain Subalpine Deciduous Shrubland 0 0 7101 - Mediterranean California Alpine Dry Tundra 0 0 7102 - Rocky Mountain Alpine Fell-Field 0 0 7103 - Rocky Mountain Dry Tundra 0 0 7104 - North Pacific Alpine and Subalpine Dry Grassland 0 0 7201 - Mediterranean California Subalpine Meadow 0 0 7202 - North Pacific Montane Grassland 0 0 7203 - Northern Rocky Mountain Lover Montane, Foothill and Valley Grassland 0 0	5808 - Northern Rocky Mountain Montane-Foothill Deciduous Shrubland	0	0
5811 - Edwards Plateau Limestone Shrubland 0 0 5812 - Northern Rocky Mountain Subalpine Deciduous Shrubland 0 0 7101 - Mediterranean California Alpine Dry Tundra 0 0 7102 - Rocky Mountain Alpine Fell-Field 0 0 7103 - Rocky Mountain Dry Tundra 0 0 7104 - North Pacific Alpine and Subalpine Dry Grassland 0 0 7201 - Mediterranean California Subalpine Meadow 0 0 7202 - North Pacific Montane Grassland 1 1 7203 - Northern Rocky Mountain Lower Montane, Foothill and Valley Grassland 0 0	5809 - Rocky Mountain Gambel Oak-Mixed Montane Shrubland	0	0
S812 - Northern Rocky Mountain Subalpine Deciduous Shrubland 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5810 - Western Great Plains Mesquite Woodland and Shrubland	0	0
7101 - Mediterranean California Alpine Dry Tundra 0 0 7102 - Rocky Mountain Alpine Fell-Field 0 0 7103 - Rocky Mountain Dry Tundra 0 0 7104 - North Pacific Alpine and Subalpine Dry Grassland 0 0 7201 - Mediterranean California Subalpine Meadow 0 0 7202 - North Pacific Montane Grassland 1 1 7203 - Northern Rocky Mountain Lower Montane, Foothill and Valley Grassland 0 0	5811 - Edwards Plateau Limestone Shrubland	0	0
7102 - Rocky Mountain Alpine Fell-Field 7103 - Rocky Mountain Dry Tundra 7104 - North Pacific Alpine and Subalpine Dry Grassland 7201 - Mediterranean California Subalpine Meadow 7202 - North Pacific Montane Grassland 7203 - Northern Rocky Mountain Lower Montane, Foothill and Valley Grassland 7203 - Northern Rocky Mountain Lower Montane, Foothill and Valley Grassland	5812 - Northern Rocky Mountain Subalpine Deciduous Shrubland	0	0
7103 - Rocky Mountain Dry Tundra 7103 - Rocky Mountain Dry Tundra 7104 - North Pacific Alpine and Subalpine Dry Grassland 7201 - Mediterranean California Subalpine Meadow 7202 - North Pacific Montane Grassland 7203 - Northern Rocky Mountain Lower Montane, Foothill and Valley Grassland 7203 - Northern Rocky Mountain Lower Montane, Foothill and Valley Grassland	7101 - Mediterranean California Alpine Dry Tundra	0	0
7104 - North Pacific Alpine and Subalpine Dry Grassland 7201 - Mediterranean California Subalpine Meadow 7202 - North Pacific Montane Grassland 7203 - Northern Rocky Mountain Lower Montane, Foothill and Valley Grassland 7203 - Northern Rocky Mountain Lower Montane, Foothill and Valley Grassland	7102 - Rocky Mountain Alpine Fell-Field	0	0
7201 - Mediterranean California Subalpine Meadow 7202 - North Pacific Montane Grassland 7203 - Northern Rocky Mountain Lower Montane, Foothill and Valley Grassland 7203 - Northern Rocky Mountain Lower Montane, Foothill and Valley Grassland	7103 - Rocky Mountain Dry Tundra	0	0
7202 - North Pacific Montane Grassland 1 1 7203 - Northern Rocky Mountain Lower Montane, Foothill and Valley Grassland 0 0	7104 - North Pacific Alpine and Subalpine Dry Grassland	0	0
7203 - Northern Rocky Mountain Lower Montane, Foothill and Valley Grassland 0 0	7201 - Mediterranean California Subalpine Meadow	0	0
	7202 - North Pacific Montane Grassland	1	1
7204 - Northern Rocky Mountain Subalpine-Upper Montane Grassland 0 0	7203 - Northern Rocky Mountain Lower Montane, Foothill and Valley Grassland	0	0
	7204 - Northern Rocky Mountain Subalpine-Upper Montane Grassland	0	0

Season	Year	Round
Region*	NW	sw
Map Unit		
	-	-
205 - Rocky Mountain Subalpine-Montane Mesic Meadow	0	0
206 - Southern Rocky Mountain Montane-Subalpine Grassland	0	0
301 - Eastern Highland Rim Prairie and Barrens - Dry Modifier	0	0
302 - Central Mixedgrass Prairie	0	0
303 - Chihuahuan Sandy Plains Semi-Desert Grassland	0	0
304 - Columbia Basin Foothill and Canyon Dry Grassland	0	0
305 - Inter-Mountain Basins Semi-Desert Grassland	0	1
306 - Northwestern Great Plains Mixedgrass Prairie	0	0
307 - Columbia Basin Palouse Prairie	0	0
308 - Western Great Plains Foothill and Piedmont Grassland	0	0
309 - Western Great Plains Sand Prairie	0	0
310 - Western Great Plains Shortgrass Prairie	0	0
311 - Western Great Plains Tallgrass Prairie	0	0
312 - North-Central Interior Sand and Gravel Tallgrass Prairie	0	0
313 - Arkansas Valley Prairie and Woodland	0	0
314 - Northern Tallgrass Prairie	0	0
315 - Central Tallgrass Prairie	0	0
316 - Southern Blackland Tallgrass Prairie	0	0
317 - Southeastern Great Plains Tallgrass Prairie	0	0
318 - Florida Dry Prairie	0	0
319 - West Gulf Coastal Plain Northern Calcareous Prairie	0	0
320 - West Gulf Coastal Plain Southern Calcareous Prairie	0	0
321 - East Gulf Coastal Plain Jackson Prairie and Woodland	0	0
322 - Tamaulipan Savanna Grassland	0	0
323 - Tamaulipan Clay Grassland	0	0
324 - South Texas Sand Sheet Grassland	0	0
326 - Chihuahuan Loamy Plains Desert Grassland	0	0
401 - California Mesic Serpentine Grassland	0	0
402 - Great Lakes Wet-Mesic Lakeplain Prairie	0	0
501 - California Central Valley and Southern Coastal Grassland	0	0
502 - California Northern Coastal Grassland	1	1
503 - Atlantic Coastal Plain Southern Dune and Maritime Grassland	0	0

Season Season	Year Round	
Region*	NW	sw
Map Unit		
7504 - Southwest Florida Dune and Coastal Grassland	0	0
7505 - Texas-Louisiana Coastal Prairie	0	0
7506 - East Gulf Coastal Plain Dune and Coastal Grassland	0	0
7507 - Northern Atlantic Coastal Plain Dune and Swale	0	0
7508 - Central and Upper Texas Coast Dune and Coastal Grassland	0	0
7509 - South Texas Lomas	0	0
7510 - South Texas Dune and Coastal Grassland	0	0
7601 - Southern Appalachian Grass and Shrub Bald	0	0
7602 - Llano Uplift Acidic Forest, Woodland and Glade	0	0
7603 - North Pacific Hypermaritime Shrub and Herbaceous Headland	0	0
7604 - North Pacific Herbaceous Bald and Bluff	0	0
8101 - Recently Logged Areas	0	0
8102 - Disturbed/Successional - Shrub Regeneration	0	0
8103 - Disturbed/Successional - Grass/Forb Regeneration	0	0
8104 - Utility Swath - Herbaceous	0	0
8105 - Successional Shrub/Scrub (Other)	0	0
8106 - Harvested Forest - Northwestern Conifer Regeneration	1	1
8107 - Harvested Forest - Shrub Regeneration	1	1
8108 - Harvested Forest - Grass/Forb Regeneration	0	0
8201 - Deciduous Plantation	0	0
8202 - Evergreen Plantation or Managed Pine	0	0
8203 - Managed Tree Plantation	0	0
8301 - Recently Burned	0	0
8302 - Recently Burned Forest	1	1
8303 - Recently Burned Grassland	1	1
8304 - Recently Burned Shrubland	1	1
8401 - Introduced Upland Vegetation - Treed	0	0
8402 - Introduced Upland Vegetation - Shrub	0	0
8403 - Introduced Upland Vegetation - Forbland	0	0
8404 - Introduced Upland Vegetation - Annual Grassland	1	1
8405 - Introduced Upland Vegetation - Perennial Grassland	0	0
8406 - Introduced Riparian and Wetland Vegetation	0	0

Season	Year Round	
Region*	NW	sw
Map Unit		
8407 - Introduced Upland Vegetation - Perennial Grassland and Forbland	0	0
8408 - Modified/Managed Southern Tall Grassland	0	0
8501 - Disturbed, Non-specific	0	0
8502 - Recently Chained Pinyon-Juniper Areas	0	0
8503 - Ruderal Upland - Old Field	0	0
8504 - Ruderal Wetland	0	0
9101 - Acadian Salt Marsh and Estuary Systems	0	0
9102 - North Pacific Maritime Eelgrass Bed	0	0
9103 - Atlantic Coastal Plain Central Salt and Brackish Tidal Marsh	0	0
9104 - Atlantic Coastal Plain Indian River Lagoon Tidal Marsh	0	0
9105 - Atlantic Coastal Plain Embayed Region Tidal Salt and Brackish Marsh	0	0
9106 - Mississippi Sound Salt and Brackish Tidal Marsh	0	0
9107 - Mediterranean California Eelgrass Bed	0	0
9108 - Temperate Pacific Tidal Salt and Brackish Marsh	0	0
9109 - Atlantic Coastal Plain Northern Tidal Salt Marsh	0	0
9110 - Florida Big Bend Salt-Brackish Tidal Marsh	0	0
9201 - Southern Coastal Plain Nonriverine Basin Swamp - Okefenokee Taxodium Modifier	0	0
9202 - Southern Coastal Plain Nonriverine Basin Swamp - Okefenokee Bay/Gum Modifier	0	0
9203 - Southern Coastal Plain Nonriverine Basin Swamp - Okefenokee Pine Modifier	0	0
9204 - Southern Coastal Plain Nonriverine Basin Swamp - Okefenokee Nupea Modifier	0	0
9205 - Southern Coastal Plain Nonriverine Basin Swamp - Okefenokee Clethra Modifier	0	0
9206 - Atlantic Coastal Plain Clay-Based Carolina Bay Herbaceous Wetland	0	0
9207 - Atlantic Coastal Plain Peatland Pocosin	0	0
9208 - Southern Coastal Plain Seepage Swamp and Baygall	0	0
9209 - West Gulf Coastal Plain Seepage Swamp and Baygall	0	0
9210 - East Gulf Coastal Plain Tidal Wooded Swamp	0	0
9211 - Atlantic Coastal Plain Streamhead Seepage Swamp - Pocosin - and Baygall	0	0
9212 - Central Interior and Appalachian Swamp Systems	0	0
9213 - Gulf and Atlantic Coastal Plain Swamp Systems	0	0
9214 - Laurentian-Acadian Swamp Systems	0	0
9215 - Atlantic Coastal Plain Large Natural Lakeshore	0	0
9216 - North Pacific Shrub Swamp	0	0

Season	Year R	ound
Region*	NW	sw
Map Unit		
9218 - Atlantic Coastal Plain Southern Tidal Wooded Swamp	0	0
9219 - South Florida Everglades Sawgrass Marsh	0	0
9220 - Gulf and Atlantic Coastal Plain Tidal Marsh Systems	0	0
9221 - Great Lakes Coastal Marsh Systems	0	0
9222 - Central Interior and Appalachian Shrub-Herbaceous Wetland Systems	0	0
9223 - Floridian Highlands Freshwater Marsh	0	0
9224 - Laurentian-Acadian Shrub-Herbaceous Wetland Systems	0	0
9225 - Temperate Pacific Freshwater Aquatic Bed	0	0
9226 - North Pacific Intertidal Freshwater Wetland	0	0
9227 - North American Arid West Emergent Marsh	0	1
9228 - Temperate Pacific Freshwater Emergent Marsh	1	1
9229 - Great Lakes Freshwater Estuary and Delta	0	0
9230 - Atlantic Coastal Plain Embayed Region Tidal Freshwater Marsh	0	0
9231 - Central Florida Herbaceous Seep	0	0
9232 - Florida Big Bend Fresh-Oligohaline Tidal Marsh	0	0
9233 - Atlantic Coastal Plain Northern Fresh and Oligohaline Tidal Marsh	0	0
9234 - Northern Great Lakes Coastal Marsh	0	0
9235 - Atlantic Coastal Plain Northern Tidal Wooded Swamp	0	0
9236 - South Florida Mangrove Swamp	0	0
9237 - West Gulf Coastal Plain Near-Coast Large River Swamp	0	0
9238 - South Florida Bayhead Swamp	0	0
9239 - Southern Coastal Plain Nonriverine Basin Swamp	0	0
9240 - Northern Atlantic Coastal Plain Basin Swamp and Wet Hardwood Forest	0	0
9241 - Southern Coastal Plain Herbaceous Seepage Bog	0	0
9242 - Laurentian-Acadian Freshwater Marsh	0	0
9243 - Atlantic Coastal Plain Central Fresh-Oligohaline Tidal Marsh	0	0
9301 - Atlantic Coastal Plain Nonriverine Swamp and Wet Hardwood Forest - Taxodium/Nyssa Modifier	0	0
9302 - Atlantic Coastal Plain Nonriverine Swamp and Wet Hardwood Forest - Oak Dominated Modifier	0	0
9303 - Atlantic Coastal Plain Clay-Based Carolina Bay Forested Wetland	0	0
9304 - Northern Rocky Mountain Conifer Swamp	0	0
9305 - South Florida Dwarf Cypress Savanna	0	0
9306 - North Pacific Hardwood-Conifer Swamp	0	0

Season	Year Round	
Region*	NW	sw
Map Unit		
2007 Newtown Device Marie Calminia Wardland	0	0
9307 - Northern Pacific Mesic Subalpine Woodland	0	0
9308 - Laurentian-Acadian Alkaline Conifer-Hardwood Swamp	0	0
9401 - Atlantic and Gulf Coastal Plain Interdunal Wetland	0	0
9402 - Great Lakes Wooded Dune and Swale	0	0
9403 - Inter-Mountain Basins Interdunal Swale Wetland	0	0
9501 - Boreal Acidic Peatland Systems	0	0
9502 - North Pacific Bog and Fen	0	0
9503 - Rocky Mountain Subalpine-Montane Fen	0	0
9504 - Mediterranean California Subalpine-Montane Fen	0	0
9505 - Mediterranean California Serpentine Fen	0	0
9506 - Southern and Central Appalachian Bog and Fen	0	0
9601 - Northern Atlantic Coastal Plain Pitch Pine Lowland	0	0
9602 - South Florida Wet Marl Prairie	0	0
9603 - East Gulf Coastal Plain Savanna and Wet Prairie	0	0
9604 - Texas Saline Coastal Prairie	0	0
9605 - Eastern Great Plains Wet Meadow, Prairie, and Marsh	0	0
9606 - Rocky Mountain Alpine-Montane Wet Meadow	0	0
9607 - Willamette Valley Wet Prairie	0	0
9608 - Temperate Pacific Montane Wet Meadow	0	1
9609 - Columbia Plateau Silver Sagebrush Seasonally Flooded Shrub-Steppe	0	0
9610 - Chihuahuan-Sonoran Desert Bottomland and Swale Grassland	0	0
9701 - Lower Mississippi River Bottomland Depressions - Forest Modifier	0	0
9702 - South Florida Cypress Dome	0	0
9703 - Southern Coastal Plain Nonriverine Cypress Dome	0	0
9704 - Northern Rocky Mountain Wooded Vernal Pool	0	0
9705 - Great Plains Prairie Pothole	0	0
9706 - Western Great Plains Depressional Wetland Systems	0	0
9707 - Western Great Plains Open Freshwater Depression Wetland	0	0
9708 - Columbia Plateau Vernal Pool	0	0
9709 - Northern California Claypan Vernal Pool	0	0
9710 - Western Great Plains Closed Depression Wetland	0	0
9711 - Western Great Plains Saline Depression Wetland	0	0

Season	Year Round	
Region*	NW	sw
Map Unit		
1712 - Central Florida Herbaceous Pondshore	0	0
1713 - East Gulf Coastal Plain Southern Depression Pondshore	0	0
1714 - Inter-Mountain Basins Alkaline Closed Depression	0	0
1715 - Southern Piedmont/Ridge and Valley Upland Depression Swamp	0	0
9716 - Atlantic Coastal Plain Depression Pondshore	0	0
9717 - Mississippi River Bottomland Depression	0	0
9718 - South Florida Freshwater Slough and Gator Hole	0	0
9801 - Atlantic Coastal Plain Blackwater Stream Floodplain Forest - Forest Modifier	0	0
802 - Central Appalachian Floodplain - Forest Modifier	0	0
9803 - Central Appalachian Riparian - Forest Modifier	0	0
1804 - East Gulf Coastal Plain Large River Floodplain Forest - Forest Modifier	0	0
1805 - South-Central Interior Large Floodplain - Forest Modifier	0	0
1806 - Southern Piedmont Large Floodplain Forest - Forest Modifier	0	0
1807 - East Gulf Coastal Plain Large River Floodplain Forest - Herbaceous Modifier	0	0
1808 - South-Central Interior Large Floodplain - Herbaceous Modifier	0	0
1809 - California Central Valley Riparian Woodland and Shrubland	0	0
9810 - Inter-Mountain Basins Greasewood Flat	0	1
9811 - North Pacific Lowland Riparian Forest and Shrubland	0	0
9812 - North Pacific Montane Riparian Woodland and Shrubland	0	0
9813 - Rocky Mountain Montane Riparian Systems	0	0
9814 - Western Great Plains Floodplain Systems	0	0
9815 - Eastern Boreal Floodplain	0	0
9816 - Tamaulipan Floodplain	0	0
9817 - Eastern Great Plains Floodplain Systems	0	0
9818 - Central Interior and Appalachian Floodplain Systems	0	0
9819 - Central Interior and Appalachian Riparian Systems	0	0
9820 - Laurentian-Acadian Floodplain Systems	0	0
9821 - Tamaulipan Riparian Systems	0	0
9822 - North American Warm Desert Wash	0	0
9823 - Western Great Plains Floodplain	0	0
9824 - Northern Rocky Mountain Lower Montane Riparian Woodland and Shrubland	0	0
1825 - Rocky Mountain Lower Montane Riparian Woodland and Shrubland	0	0

Season	Year R	ound
Region*	NW	sw
Map Unit		
9826 - Northwestern Great Plains Floodplain	0	0
9827 - Mississippi River Riparian Forest	0	0
9828 - Cumberland Riverscour	0	0
9829 - Edwards Plateau Riparian	0	0
9830 - Great Basin Foothill and Lower Montane Riparian Woodland and Shrubland	0	1
9831 - Columbia Basin Foothill Riparian Woodland and Shrubland	1	1
9832 - Rocky Mountain Subalpine-Montane Riparian Woodland	0	0
9833 - North American Warm Desert Lower Montane Riparian Woodland and Shrubland	0	0
9834 - North American Warm Desert Riparian Mesquite Bosque	0	0
9835 - North American Warm Desert Riparian Woodland and Shrubland	0	0
9836 - Mississippi River Low Floodplain (Bottomland) Forest	0	0
9837 - Rocky Mountain Subalpine-Montane Riparian Shrubland	0	0
9838 - Southern Coastal Plain Hydric Hammock	0	0
9839 - West Gulf Coastal Plain Small Stream and River Forest	0	0
9840 - West Gulf Coastal Plain Large River Floodplain Forest	0	0
9841 - Southern Piedmont Small Floodplain and Riparian Forest	0	0
9842 - Atlantic Coastal Plain Small Brownwater River Floodplain Forest	0	0
9843 - Atlantic Coastal Plain Small Blackwater River Floodplain Forest	0	0
9844 - Red River Large Floodplain Forest	0	0
9845 - Atlantic Coastal Plain Brownwater Stream Floodplain Forest	0	0
9846 - Mediterranean California Serpentine Foothill and Lower Montane Riparian Woodland and Seep	0	0
9847 - Northwestern Great Plains Riparian	0	0
9848 - Western Great Plains Riparian Woodland and Shrubland	0	0
9849 - Mediterranean California Foothill and Lower Montane Riparian Woodland	1	1
9850 - South-Central Interior Small Stream and Riparian	0	0
9851 - East Gulf Coastal Plain Small Stream and River Floodplain Forest	0	0
9852 - Southern Coastal Plain Blackwater River Floodplain Forest	0	0
9853 - Texas-Louisiana Coastal Prairie Slough	0	0
9854 - Mississippi River Floodplain and Riparian Forest	0	0
9855 - Inter-Mountain Basins Montane Riparian Systems	0	0
9856 - North American Warm Desert Riparian Systems	0	0
9857 - South-Central Interior Large Floodplain	0	0

on .	Year F	tound	
Region*		NW	sw
Map Unit			
9858 - Ozark-Ouachita Riparian		0	0
9901 - East Gulf Coastal Plain Jackson Plain Dry Flatwoods - Open Understory Modifier		0	0
9902 - East Gulf Coastal Plain Near-Coast Pine Flatwoods - Offsite Hardwood Modifier		0	0
9903 - East Gulf Coastal Plain Near-Coast Pine Flatwoods - Open Understory Modifier		0	0
9904 - East Gulf Coastal Plain Near-Coast Pine Flatwoods - Scrub/Shrub Understory Modifier		0	0
9905 - South Florida Pine Flatwoods		0	0
9906 - Central Atlantic Coastal Plain Wet Longleaf Pine Savanna and Flatwoods		0	0
9907 - Atlantic Coastal Plain Southern Wet Pine Savanna and Flatwoods		0	0
9908 - West Gulf Coastal Plain Wet Longleaf Pine Savanna and Flatwoods		0	0
9909 - Central Florida Pine Flatwoods		0	0
9910 - East Gulf Coastal Plain Near-Coast Pine Flatwoods		0	0
9911 - East Gulf Coastal Plain Southern Loblolly-Hardwood Flatwoods		0	0
9912 - South-Central Interior / Upper Coastal Plain Wet Flatwoods		0	0
9913 - West Gulf Coastal Plain Pine-Hardwood Flatwoods		0	0
9914 - North-Central Interior Wet Flatwoods		0	0
9915 - Lower Mississippi River Flatwoods		0	0
9916 - West Gulf Coastal Plain Nonriverine Wet Hardwood Flatwoods		0	0

^{*}GP = Great Plains; NE = Northeast; NW = Northwest; SE = Southeast; SW = Southwest; UM = Upper Midwest

More information regarding modeling process: https://gapanalysis.usgs.gov/species/data/

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Model Parameter Definitions

Land Cover Map Units

Land Cover Data Source — National Gap Land Cover Ver 1.0 (2001) — The ecological systems mapped in the GAP National Land Cover Data were used as 'map units' to describe habitat types preferred by species. https://doi.org/10.5066/F7959GF5

Absent (0) — Not utilized by species.

Primary (1) — Utilized by species.

Secondary (2) — Utilized by species if in proximity to Primary map units (see Secondary Map Units below).

Land Cover Limitations

Contiguous Patch — Minimum size (ha) — This parameter is set using the most conservation values explicitly stated in the species literature. Any mapped habitat not meeting the minimum contiguous patch size is eliminated. If applied, this is the last step in habitat modeling.

Edge Type Usage — Ecotone Width (m) — We grouped map units into forested, non-forested, and shrubland/woodland land cover types to identify both Forest/Open ecotones and Woodland/Shrubland. Using this data set, we can define the width and nature of ecotones utilized by species.

Forest Interior Usage — Distance From Edge (m) — Used to limit species to forest interiors or to exclude them from such.

Secondary Map Units — Distance From Primary Map Units (m) — Secondary Map Units identified in the Map Units table (2) are included in a species habitat map if they are within proximity to Primary Map Units (1).

Hydrographic Limitations

Flowing Water — Distance Into/From (m) — Flowing water represents hydrographic features such as streams, rivers, springs, seeps, ditches with moving water, etc.

Open/Standing Water — Distance Into/From (m) — Standing water represents hydrographic features such as lakes, ponds, reservoirs, bays, inlets, estuaries, ocean, ditches with stagnant water, etc.

Wet Vegetation — Distance Into/From (m) — Wet vegetation represents hydrographic features such as swamps, marshes, Carolina bays, etc. This includes a collection of map units representing seasonally or tidally inundated woody and non-woody plants.

Water Salinity — Freshwater Only, Brackish/Salt Water Only, All Water — Water salinity is a major factor when considering habitat conditions for many species. However, the dynamic and complex nature of water systems makes the development of a highly refined and reliable data layer challenging. Therefore, we developed three general categories to include in species habitat models for species requiring water.

Water Velocity — Slow Only, Fast Only, Fast Only, All Types — For some aquatic species, this is an important aspect of their habitat, such as oxygenation levels, presence of invertebrate prey, and amount of sediment within the water column and on streambed substrates. Stream velocity (i.e., stream gradient) was derived from a combination of streams and slopes calculated from a digital elevation model (DEM), which created three categories for stream gradient.

Slow Only — For species that require slow moving or almost stagnant sections of streams or rivers. Typically these are areas where the underlying topography is flat (0 % gradient).

Fast Only — For species that require high velocity sections of streams or rivers. Typically these are areas where the underlying topography is steep. A threshold of > 5 % gradient was used.

All Types — For species that can utilize either fast or slow sections of streams or rivers.

Human Impact Avoidance — High, Medium, Low — Environments dominated by human disturbance such as roads, cities, and the constructed materials that support human habitation have profound effects on species. For most species, this data layer was used to exclude species from a portion of the landscape. However, some species respond favorably to human habitats, therefore this data layer was used in an inclusionary manner.

High — For species that are very intolerant of human disturbance. All portions of the landscape identified as being directly influenced by human disturbance are eliminated from the predicted distribution.

Medium — For species that are moderately intolerant of human disturbance. Only portions of the landscape identified as being highly or moderately influenced by human disturbance are eliminated from the predicted distribution.

Low — For species that are partially intolerant of human disturbance. Only portions of the landscape identified as being highly influenced by human disturbance are eliminated from the predicted distribution.

Elevation Limits — Min/Max (m) — Some species respond to environments directly related to altitudinal variation. Elevation (e.g., DEM) is easily implemented in spatial modeling by limiting the model to the minimum and maximum values explicitly stated in the literature. DEMs are utilized directly and are measured in meters above and below mean sea level.

Hand Modeled — Occasionally, habitat models had to be manipulated outside of the main scripting environment in order to acheive the desired results. If so, notes on additional processing are provided.