66761601 NHD_ID ID# 159339

Survey Date:	9/25/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1098

Coordinates 37 48 28 Latitude

-119 59 1 Longitude

Survey Notes

No hydrogeologic, geomorphic soils, or vegetation evidence suggest that this is, or ever has been, a springs ecosystem. However, the intensive use/disturbance of the site may suggest that it was once ocupied and water may have been piped over to it from the nearby creek, which had substantial flow at the time of our visit.

66761619 NHD_ID ID# 159340

Survey Date:	9/3/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Mi-Wok
State, County:	CA, Tuolumne

Elevation (m): 1492

Coordinates 38 0 38.6 Latitude

-120 6 12.9 Longitude

Survey Notes

The well (see photo) sunk at the top of this former wet meadow may be responsible for eliminating surface flow/soil saturation. The presence of upland grasses, dry soils, and dead moss reflects long-term dewatering, although some native wetland vegetation at the downslope toe may persist due to inflow from Cardinal Spring (just upstream).

66761685 NHD_ID ID# 159348

Survey Date:	9/4/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Mi-Wok
State, County:	CA, Tuolumne

Elevation (m): 1534

Coordinates 38 2 29.2 Latitude

-120 3 37.3 Longitude

Survey Notes

This site is a stream (Brushy Creek), not a springs ecosystem. The source lies an unknown distance (>150m) up the creek.

66761695 NHD_ID ID# 159350

Survey Date:	8/25/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1329

Coordinates 37 55 40 Latitude

-119 57 30 Longitude

Survey Notes

There was no evidence of a springs ecosystem at this location, based on absence of geomorphologic, soil, hydrologic or vegetation indicators.

66761717 NHD_ID ID# 159352

Survey Date:	9/1/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1685

Coordinates 38 0 12 Latitude

-119 58 31 Longitude

Survey Notes

There was no evidence of a springs ecosystem at this location, based on absence of geomorphologic, soil, hydrologic or vegetation indicators.

66761725 NHD_ID ID# 159353

Survey Date:	8/25/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1329

Coordinates 37 55 39 Latitude

-119 57 29 Longitude

Survey Notes

There was no evidence of a springs ecosystem at this location, based on absence of geomorphologic, soil, hydrologic or vegetation indicators.

66761729 NHD_ID ID# 159354

Survey Date:	9/22/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1596

Coordinates 37 45 46.6 Latitude

-119 53 8.4 Longitude

Survey Notes

A wooden, partially enclosed water retention structure lies 26 meters downslope from the point marked on the NHD and Quad sheet; however, it is unclear as to whether that structure did more than collect surface flow. This spring is dry or at best, ephemeral, and no hydrogeologic, soils, geomorphic, or vegetation data indicates that the site is, or recently has been, a springs ecosystem. Local excavation and other human uses (a hunting camp) are in the vicinity of the wooden structure.

66761731 NHD_ID ID# 159355

Survey Date:	9/22/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1595

Coordinates 37 45 55 Latitude

-119 55 14 Longitude

Survey Notes

This site was formerly a heavily grazed, wet meadow, as evidenced by deep pedestals. However, it is entirely dry, with much Poa cf. pratensis and non-native Bromus cf. inermis. No hydrologic or geomorphic evidence indicates that this site is, or recently has been, a springs ecosystem (e.g, within the past two-three years).

66761741 NHD_ID ID# 159358

Survey Date:	9/21/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1121

Coordinates 37 51 31 Latitude

-119 58 56 Longitude

Survey Notes

No geologic, hydrologic, geomorphic, or vegetation characteristics suggest that this site is, or ever was, a springs ecosystem.

66761787 NHD_ID ID# 159362

Survey Date:	8/23/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1419

Coordinates 37 55 58 Latitude

-119 58 14 Longitude

Survey Notes

There were no geomorphic/soils, vegetation or hydrology to indicate a GDE springs ecosystem. The burn intensity was high at the site.

66761807 NHD_ID ID# 159365

Survey Date:	9/3/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Mi-Wok
State, County:	CA, Tuolumne

Elevation (m): 1624

Coordinates 38 2 6 Latitude

-120 6 51 Longitude

Survey Notes

This is a dry meadow with geomorphology and vegetation that indicates it was once a wet meadow; abundant Poa and some Cirsium vulgare are present. Monitor occassionally to determine if it regains flow.

66761815 NHD_ID ID# 159366

Survey Date:	8/23/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1409

Coordinates 37 55 55 Latitude

-119 58 14 Longitude

Survey Notes

There was no evidence of a springs ecosystem at this location, based on absence of geomorphologic, soil, hydrologic or vegetation indicators. 2013 Rim Fire burn intensity was high.

66761843 NHD_ID ID# 159367

Survey Date:	9/21/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1214

Coordinates 37 51 35 Latitude

-119 57 7 Longitude

Survey Notes

No soil moisture or vegetation indicates the existence of a spring in this large, now-dry meadow. Some pedestals and old feces indicate that cattle once grazed this site heavily, but this is the only indicator of past flow/soil saturation.

66761849 NHD_ID ID# 159368

Survey Date:	8/23/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1108

Coordinates 37 54 54 Latitude

-119 58 17 Longitude

Survey Notes

There was no geomorphic/soil, hydrologic, or vegetation indicating a GDE springs ecosystem.

66761893 NHD_ID ID# 159372

Survey Date:	9/21/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1215

Coordinates 37 51 34 Latitude

-119 57 8 Longitude

Survey Notes

No soil moisture or wetland vegetation exists to indicate the existence of a springs ecosystem at this site. Pedestals and old feces piles indicate that the site was once heavily grazed by cattle and formerly had saturated soils.

66761915 NHD_ID ID# 159374

Survey Date:	9/21/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1164

Coordinates 37 51 52 Latitude

-119 58 43 Longitude

Survey Notes

This was formerly a wet meadow and still has some residual ~ xero-wetland plant species; however, it is entirely dry and has been geomorphically altered by plowing and grazing, with pedestals abundant. It is no longer a springs ecosystem, and is at best ephemeral.

66762031 NHD_ID ID# 159381

Survey Date:	8/22/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1119

Coordinates 37 55 7 Latitude

-119 58 23 Longitude

Survey Notes

The area was heavily influenced by the 2013 Rim Fire. There was no evidence of a springs ecosystem at this location, based on absence of geomorphologic, soil, hydrologic or vegetation indicators.

66762057 NHD_ID ID# 159383

Survey Date:	9/19/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1575

Coordinates 37 47 24 Latitude

-119 53 24 Longitude

Survey Notes

There was no evidence of a springs ecosystem at this location, based on absence of geomorphologic, soil, hydrologic or vegetation indicators, or anywhere within about a 75 m radius of this point.

66762063 NHD_ID ID# 159385

Survey Date:	8/23/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1315

Coordinates 37 55 33 Latitude

-119 57 59 Longitude

Survey Notes

There was no evidence of a springs ecosystem at this location, based on absence of geomorphologic, soil, hydrologic or vegetation indicators. There was evidence of high burn intensity at the site, which had a lot of poison oak on exposed granite.

66762111 NHD_ID ID# 159390

Survey Date:	9/19/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1345

Coordinates 37 48 36 Latitude

-119 53 7 Longitude

Survey Notes

There was no sign of recent flow at this site. Vegetation indicates that it has been dry for some time. However, the area has been heavily grazed in the past and the channel is incised.

66762145 NHD_ID ID# 159393

Survey Date:	9/6/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 952

Coordinates 37 49 42 Latitude

-120 5 28 Longitude

Survey Notes

There was no evidence of a springs ecosystem at this location, based on absence of geomorphologic, soil, hydrologic or vegetation indicators. A shallow excavation and a dry meadow lie just downslope of this site. The 2013 Rim Fire intensity was moderate.

66762157 NHD_ID ID# 159394

Survey Date:	9/24/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 918

Coordinates 37 50 20 Latitude

-119 58 30 Longitude

Survey Notes

There was no evidence of a springs ecosystem at this location, based on absence of geomorphologic, soil, hydrologic or vegetation indicators.

66762163 NHD_ID ID# 159395

Survey Date:	8/31/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1077

Coordinates 37 54 58 Latitude

-119 55 17 Longitude

Survey Notes

There was no evidence of a springs ecosystem at this location, based on absence of geomorphologic, soil, hydrologic or vegetation indicators.

66762183 NHD_ID ID# 159398

Survey Date:	8/25/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1329

Coordinates 37 55 43 Latitude

-119 57 31 Longitude

Survey Notes

The site was located in a channel that has taken surface flow in the past year. While there was no geomorphic, soil, or flow indication of a spring, the presence of Juncus effusus and Plantago lanceolata suggests (at a point ca 15m upstream from the road) concentration of surface flow on an occasional basis.

66762221 NHD_ID ID# 159403

Survey Date:	9/20/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1475

Coordinates 37 51 14 Latitude

-119 50 14 Longitude

Survey Notes

There was no evidence of a springs ecosystem at this location, based on absence of geomorphologic, soil, hydrologic or vegetation indicators at the mapped point. However there was a small dry meadow downslope on the uphill side of the road. Burn severity low-moderate.

66762275 NHD_ID ID# 159414

Survey Date:	9/21/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1171

Coordinates 37 51 55 Latitude

-119 58 42 Longitude

Survey Notes

This was formerly a wet meadow, with evidence of geomorphic alteration of the source area, as well as pedestals from prior grazing. While there was evidence of Juncus balticus, Carex sp., and other non-wetland vegetation. The soils are entirely dry and this is, at best, an ephemeral spring.

66762329 NHD_ID ID# 159425

Survey Date:	9/23/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1297

Coordinates 37 48 2 Latitude

-119 57 23 Longitude

Survey Notes

There was no evidence of a springs ecosystem at this location, based on absence of geomorphologic, soil, hydrologic or vegetation indicators.

66762365 NHD_ID ID# 159431

Survey Date:	8/23/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1179

Coordinates 37 55 7 Latitude

-119 58 44 Longitude

Survey Notes

This site is near Salvage Helocrene. The burn intensity was high. There was no evidence of a springs ecosystem at this location, based on absence of geomorphologic, soil, hydrologic or vegetation indicators.

66762383 NHD_ID ID# 159435

Survey Date:	8/25/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1360

Coordinates 37 55 58 Latitude

-119 57 28 Longitude

Survey Notes

There was no evidence of a springs ecosystem at this location, based on absence of geomorphologic, soil, hydrologic or vegetation indicators. The burn severity was high from the 2013 Rim Fire.

66762439 NHD_ID ID# 159441

Survey Date:	9/2/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1224

Coordinates 37 54 19 Latitude

-119 57 12 Longitude

Survey Notes

There was no evidence of a springs ecosystem at this location, based on absence of geomorphologic, soil, hydrologic or vegetation indicators. The area was severely burned.

Big Life Springs ID# 164159

Survey Date:	8/31/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1386

Coordinates 37 55 28.5 Latitude

-119 55 30.6 Longitude

Survey Notes

This rheocrene spring has been heavily burned. There was abundant insect life downslope of the source at the time of the survey (e.g, Argia sp.), along with hummingbirds and an acorn woodpecker. The flow was measured at 0.4 liters/sec. Surveyors were unable to reach the source, so the location and elevation are estimated. This site would be well worth revisiting. This springs ecosystem is not marked on topographic maps; nor is it included in the NHD database.

Cedar Twin East Springs ID# 164148

Survey Date:	9/4/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Mi-Wok
State, County:	CA, Tuolumne

Elevation (m): 1538

Coordinates 38 2 3.1 Latitude

-120 5 15.4 Longitude

Survey Notes

This helocrenic rheocrene is associated with a culvert. This springs ecosystem is not marked on topographic maps; nor is it included in the NHD database. The meadow is not burned and the overall intensity of 2013 Rim Fire effects is low at the site. Management recommendations are to fence the source, as the site has been severely grazed by livestock. Surveyors observed a red-tailed hawk and large banded robber fly.

Cedar Twin West Springs ID# 164149

Survey Date:	9/4/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Mi-Wok
State, County:	CA, Tuolumne

Elevation (m): 1536

Coordinates 38 2 3.4 Latitude

-120 5 16.3 Longitude

Survey Notes

This is a hillslope helocrene that has been heavily trampled and grazed, with some exposed water. The saturated soil dries out on the downslope side, as this spring is a losing discharge system. The site lies about 30 m across the slope from Cedar Twin East Springs. This springs ecosystem is not marked on topographic maps; nor is it included in the NHD database.

Claro Springs ID# 164195

Survey Date:	9/5/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1447

Coordinates 37 57 23.6 Latitude

-120 0 58.9 Longitude

Survey Notes

This small rheocrene spring emerges about 30 m up the Roadcut Spring Road. It is not marked on topographic maps; nor is it included in the NHD database. Flow was estimated at 0.25 liters/second. The fire intensity effects were high at the site. Management recommendations include occasionally monitoring of fire effects in the adjacent landscape on ths rheocrene.

Duckweed Dam Springs ID# 164163

Survey Date:	9/20/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1503

Coordinates 37 51 21.5 Latitude

-119 50 14.7 Longitude

Survey Notes

This spring is neither included in the NHD database nor marked on the topographic map. It is a rheocrene that seeps out of a roadside channel and is dammed 30m downstream from the source. The resulting pool is covered with non-native Lemna and Veronica. The burn intensity was moderate. The nearest spring is 300m away.

Effusus Springs ID# 164164

Survey Date:	8/31/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1130

Coordinates 37 55 7.2 Latitude

-119 55 36.8 Longitude

Survey Notes

This rheocrene spring has been heavily burned. This springs ecosystem is not marked on topographic maps; nor is it included in the NHD database. There was some wetland vegetation. The flow was estimated at 0.05 liters/second.

Excavated Springs ID# 164194

Survey Date:	9/5/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1447

Coordinates 37 57 24.1 Latitude

-120 1 1.3 Longitude

Survey Notes

This excavated hillslope spring likely originally contributed to a wet meadow, but now flows in the open rut ditches from the Roadcut Springs complex. This springs ecosystem is not marked on topographic maps; nor is it included in the NHD database. Burn intensity were high from the 2013 Rim Fire.

Goldenrod Springs ID# 164165

Survey Date:	8/31/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1110

Coordinates 37 54 59.2 Latitude

-119 55 49.4 Longitude

Survey Notes

This site is a rheocrene spring with an overgrown channel that is not marked on topographic maps; nor is it included in the NHD database. There was some standing water at the site with very little flow (<0.01 l/sec). Surveyors searched well above the channel and found no upstream flow. The site was heavily burned in the 2013 Rim Fire.

Hardhat Springs ID# 164167

Survey Date:	9/5/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1350

Coordinates 37 58 44.3 Latitude

-120 2 10.3 Longitude

Survey Notes

This springs ecosystem is west of the 02N14 road, about 1 km upslope from the junction with Cottonwood Rd. It is not marked on topographic maps; nor is it included in the NHD database. Fire intensity was high at the site. Based on the vegetation, the source may have shifted downslope 10-15 m. Flow was estimated at 0.2 liters/second. Abundant vegetation included Epilobium cf ciliatum and native Carex. Cirsium vulgare was also present. The spring runout passes through a heavily burned forest and may contribute to a large meadow.

Jawbone Creek Dry Springs ID# 164168

Survey Date:	9/1/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Mi-Wok
State, County:	CA, Tuolumne

Elevation (m): 1665

Coordinates

Survey Notes

There was no evidence of a springs ecosystem at this location, based on the absence of geomorphologic, soil, hydrologic, or vegetation indicators.

Lycopus Springs ID# 164169

Survey Date:	9/21/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1177

Coordinates 37 51 56.1 Latitude

-119 57 57.5 Longitude

Survey Notes

This springs ecosystem is not marked on topographic maps; nor is it included in the NHD database. It is a hillslope rheocrene complex that emerges in and on the sides of a steep, incised channel that was severely burned at high intensity in the (former) forest. It is dominated by Locopus and moss, with some poison oak and some Heuchera. Flow is estimated to be .02 liters per second.

Monarch Springs ID# 164170

Survey Date:	9/5/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1300

Coordinates 37 58 40.1 Latitude

-120 2 7.9 Longitude

Survey Notes

This springs ecosystem is not marked on topographic maps; nor is it included in the NHD database. Seepage emerges at the top of a relatively large wet meadow in a heavily burned stand of Pinus ponderosa and P. lambertiana. The site is strongly dominated by Carex cf alma, and contains much Cirsium vulgare, Epilobium cf. ciliatum. The source does not appear to have moved, and gains flow, dividing into two channels at a fallen tree. This flow may extend all the way down to Cottonwood Rd. where seepage is culverted downslope.

Parallel Center Springs ID# 164179

Survey Date:	9/19/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1600

Coordinates 37 47 26.2 Latitude

-119 53 29.3 Longitude

Survey Notes

This springs ecosystem is not marked on topographic maps; nor is it included in the NHD database. It is a forest helocrene, with diffuse emergence across a low gradient wetland that develops quasi-focused flow before its confluence with the flow of Parrallel East Springs.

Parallel East Springs ID# 164180

Survey Date:	9/19/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1600

Coordinates 37 47 25.6 Latitude

-119 53 27.2 Longitude

Survey Notes

This springs ecosystem is not marked on topographic maps; nor is it included in the NHD database. This forest helocrene emerges as seepage across a Calocedrus-dominated wetland and develops focused flow, merging into the outflow of Parallel Center Springs.

Parallel Lower Springs ID# 164181

Survey Date:	9/19/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1545

Coordinates 37 47 26.5 Latitude

-119 53 27.6 Longitude

Survey Notes

This springs ecosystem is not marked on topographic maps; nor is it included in the NHD database. This forest floor hillslope springs emerges in a small, discrete source and flows into the dominant drainage.

Parallel West Springs ID# 164182

Survey Date:	9/19/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1600

Coordinates 37 47 26.5 Latitude

-119 53 29.9 Longitude

Survey Notes

This springs ecosystem is not marked on topographic maps; nor is it included in the NHD database. This forest helocrene emerges in a diffuse flow across a low gradient wetland and gradually focuses into a gravel/cobble channel that flows about 200 m parallel to the primary drainage (to the east). There is much Dicentra formosa along the channel.

Pilot Peak Spring ID# 159451

Survey Date:	9/22/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1588

Coordinates 37 45 59 Latitude

-119 55 33 Longitude

Survey Notes

No hydrological, geomorphic, soils, or vegetative information indicates that this site is, or has been, a springs ecosystem.

Rackerby Jack Far Springs ID# 164192

Survey Date:	9/2/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1263

Coordinates 37 55 56.9 Latitude

-120 2 5 Longitude

Survey Notes

This springs ecosystem is not marked on topographic maps; nor is it included in the NHD database. The fire intensity at the site from the 2013 Rim Fire is medium. The management recommendations are to fence the entire Rackerby Jack Springs complex to exclude livestock, but permit entry by deer. Recommendations also include providing livestock water far downstream from the source, removing the encroaching conifers, monitoring occasionally, and maintaining the fencing.

Rackerby Jack Middle Springs ID# 164191

Survey Date:	9/5/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1262

Coordinates 37 55 59 Latitude

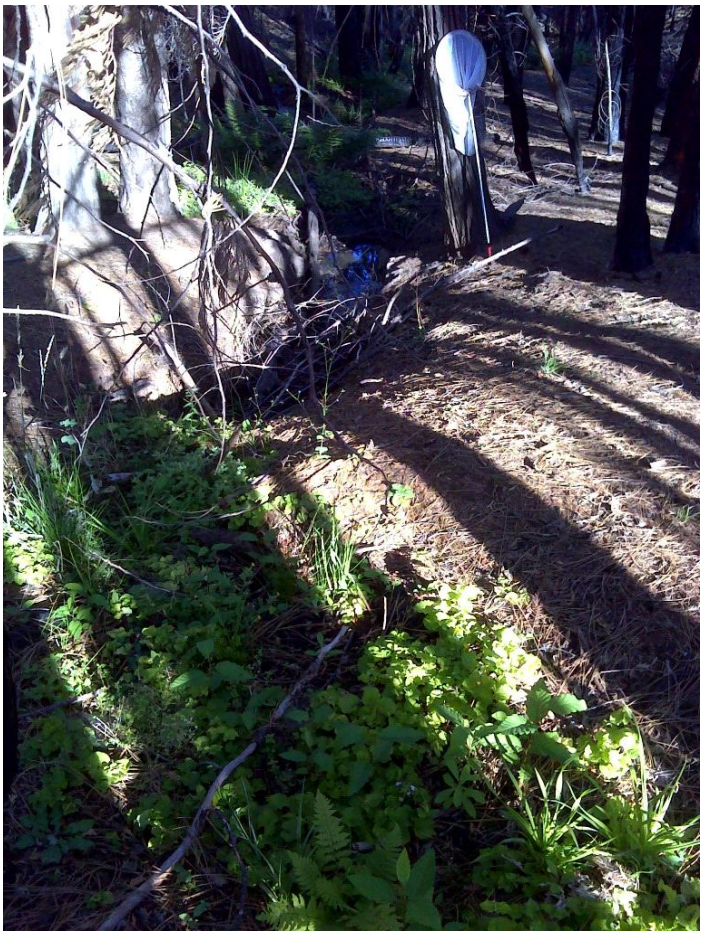
-120 2 3.2 Longitude

Survey Notes

This small hillslope helocrene emerges between Rackerby Jack and Rackerby Jack Big Springs, with diffuse, unfocused emergence and indirect convergence with the Rackerby Jack Big channel flow. This springs ecosystem is not marked on topographic maps; nor is it included in the NHD database. Fire intensity here is medium, as it is at Rackerby Jack Big Springs. A management recommendation would be to fence the entire Rackerby Jack Springs complex to exclude livestock, but permit entry by deer. It is recommended to provide livestock water far downstream from the source, remove the encroaching conifers, monitor occasionally, and maintain fencing.

Rackerby Jack Near Springs ID# 164193

Survey Date:	9/2/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne



Elevation (m): 1265

Coordinates 37 55 56.7 Latitude

-120 2 4.9 Longitude

Survey Notes

The flow from this small hillslope helocrene is indirectly confluent with that of Rackerby Jack Big Springs. This springs ecosystem is not marked on topographic maps; nor is it included in the NHD database. The fire intensity at the site is medium. The management recommendations are to fence the entire Rackerby Jack Springs complex to exclude livestock, but permit entry by deer. Recommendations also include providing livestock water far downstream from the source, removing the encroaching conifers, monitoring occasionally, and maintaining the fencing.

Second Flow Springs ID# 164183

Survey Date:	8/31/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1114

Coordinates 37 55 2.5 Latitude

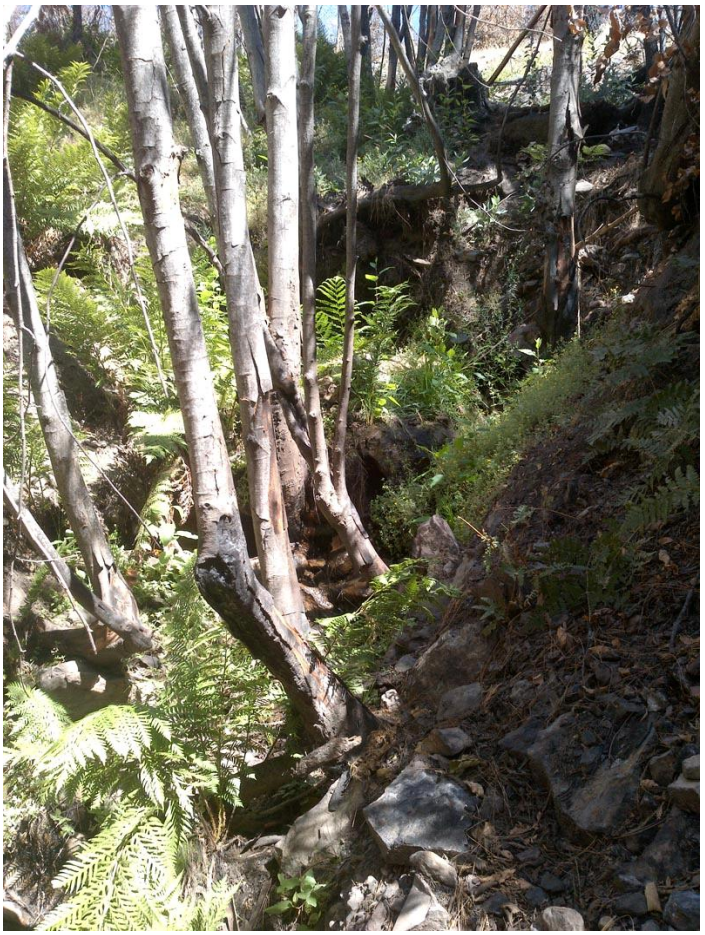
-119 55 45.5 Longitude

Survey Notes

The site is a small, overgrown rheocrene spring, with an estimated flow of less than 0.01 liters/second. This springs ecosystem is not marked on topographic maps; nor is it included in the NHD database. Surveyors crossed the channel above and found no evidence of upstream flow. The site was heavily burned. Surveyors did not photograph this site; a full survey is recommended.

Sedge Hillslope Springs ID# 164184

Survey Date:	9/23/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne



Elevation (m): 1137

Coordinates 37 48 0.1 Latitude

-119 59 12.3 Longitude

Survey Notes

This springs ecosystem is not marked on topographic maps; nor is it included in the NHD database. The outflow from this spring emerges into a roadside ditch and joins outflow with a mapped spring, Brackenfern.

Third Flow Springs ID# 164185

Survey Date:	8/31/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1117

Coordinates 37 55 3.8 Latitude

-119 55 43.1 Longitude

Survey Notes

This site is a heavily burned rheocrene spring. This springs ecosystem is not marked on topographic maps; nor is it included in the NHD database. Seepage emerges from an overgrown channel, with no evidence of flow upstream. The flow was estimated at less than 0.01 liters/second. Surveyors did not take a photograph at this site. They recommend a complete survey when possible.

Two Boulder Meadow Spring ID# 164187

Survey Date:	9/1/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Groveland
State, County:	CA, Tuolumne

Elevation (m): 1735

Coordinates 38 0 37.9 Latitude

-119 58 0 Longitude

Survey Notes

This springs ecosystem is not marked on topographic maps; nor is it included in the NHD database. There was flowing water at the site near the road. The area of the GDE was based on the meadows layer provided by the USFS.

Walton Cabin Spring ID# 159459

Survey Date:	9/27/2014
Ownership:	USFS
Region, Forest:	5, Stanislaus
District:	Mi-Wok
State, County:	CA, Tuolumne

Elevation (m): 1096

Coordinates 37 52 40 Latitude

-120 5 48 Longitude

Survey Notes

There was no evidence of a spring at this location. Although there were a few wetland plants, there was no other evidence of moisture. The site lies in a channel that has sustained water debris flow and flooding over the past year, perhaps burying the original springs here.