

APPENDIX VII

Compiled and Evaluated Data Themes for Natural Heritage 2020

Theme Name	Theme	Theme derived from and derivation process summary	Source Agency or Description	Contact	Used in NH2020 Science Process?	Final Theme Used In	Rationale for inclusion/exclusion
agric	Lands mapped as agriculture by CDF	Nevveg	Derived from California Department of Forestry Vegetation Theme	Kateri Harrison 530 265 7058	No		Inaccurate based on field review.
ALLHERPSA	Museum & Nevada Department of Wildlife Reptile and Amphibian Occurrences, Washoe County, NV		Biological Resources Research Center, UNR	Bob Ellston 775/784-4565	No		No Nevada County occurrences.
aqb	Fresh Emergent Wetlands (aquaboral soils)	Derived by reselecting aquaboral (anaerobic) soils from tnsoile	Derived by Natural Heritage 2020 from US Forest Service, Tahoe National Forest Soil Resource Inventory	Kateri Harrison 530 265 7058	Yes	Intermediate theme. Input to Fresh Emergent Wetlands	The Tahoe National Forest 3rd Order Soil Resource Inventory yielded the most accurate theme regarding the extent of Fresh Emergent Wetlands in the central and eastern parts of Nevada County.
arable_fmmp	Arable lands from the CA Farmland Mapping and Monitoring Program	fmmp	Farmland Mapping and Monitoring Program, State of CA		No		Insufficiently accurate based on field review.
BIRDSA	Bird Occurrences, Washoe County, NV		Biological Resources Research Center, UNR	Bob Ellston 775/784-4565	No		No Nevada County occurrences.
blmowna	State and Federal lands in Nevada County Region		BLM	Victoria Smith Folsom: 916-985-4474 Sacramento: 916-978-4571	No		More current data on ownership in Assessors Parcel Database.
blueoak	Blue Oak Woodland	Polygons with dominant plant species Blue Oak reselected from nevveg	Natural Heritage 2020	Kateri Harrison 530 265 7058	Yes	Intermediate theme. Input to Foothill Hardwood Woodlands	Large-patch ecosystem.
c31roads	Placer County Roads		Teale Data Center	Teale 916-978-4571	No		No elements in Nevada County

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calacada	CA Academy of Sciences Museum Collection Locations		Placer Legacy	Diana Stralberg	Yes	Intermediate theme. Input to Red/Yellow List Species	Independent scientific source of species occurrences relevant to Nevada County Planning.
calbasin	River Basins	calwater	Natural Heritage 2020	Kateri Harrison 530 265 7058	No		
calwater	Planning Watersheds		California Department of Forestry	To download , check: www.gis.ca.gov	Yes	Nevada County Watersheds, Planning Watersheds	Standardized, third-party delineations of watershed boundaries. Peer reviewed and widely used by state and federal agencies
calwater22	Version 2.2 of CALWATER Planning Watersheds		California Department of Forestry		No		Received after field review. Minor boundary modifications made to earlier version (2.0) of CALWATER post phase 1. Version 2.2 boundaries would require field checking before use.
campgrounds	Campgrounds	geonamea	Natural Heritage 2020	Kateri Harrison 530 265 7058	No		Not biologically relevant. Covered by other indices of human impact.
canalsa	Canals	Lines reselected by attributes from hydrarca, supplemented with additional arcs from nevdrgr	Derived by Natural Heritage 2020 from Teale Data Center hydrography and USGS 7.5 Minute Topographic Maps	Kateri Harrison 530 265 7058	Yes	Canals	The only available theme on man-made waterways. Accurate according to field review, with minor additions.
cara	California Rivers Assessment		University of California, Davis Information Center for the Environment (ICE)		No		Inappropriate scale for county level analysis. Data not available for all relevant stream reaches.
caratxt	California Rivers Assessment dissolved on pname		Natural Heritage 2020	Kateri Harrison 530 265 7058	No		Inappropriate scale for county level analysis. Data not available for all relevant stream reaches.
caroadsa	CA Roads		ESRI ARCdata	ESRI	No		Data not precise enough for county level analysis

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cdffisher	Pacific Fisher Occurrences		California Department of Fish and Game	Esther Burkett 916/654-4273	Yes	Intermediate theme. Input to Red/Yellow List Species	Independent scientific source of species occurrences relevant to Nevada County Planning.
class1ca	Class 1 Farmlands		Scanned by Natural Heritage 2020 using paper maps from Nevada Irrigation District	Dennis Sanders 530 273 6185	Yes	Arable Lands	Most accurate available data on the extent of lands suitable for agriculture in Nevada County.
co100a	CA Counties		Teale Data Center	Teale	No		Not relevant.
cont_own	Single Owner Contiguous Private Tracts Greater than 20 acres	Parcelsp	Natural Heritage 2020	Kateri Harrison 530 265 7058	No		Replaced in final analysis by unimp_tract
countya	County Boundary		Nevada County GIS	Diana Carolan 530 265 1411	No		
countyparkb	County Parks: 5 meter buffers around point locations		Natural Heritage 2020	Kateri Harrison 530 265 7058	No		Not sufficiently accurate. Better data available from Assessors Parcel Database.
countyparks	County Parks		Natural Heritage 2020	Kateri Harrison 530 265 7058	No		Theme incomplete.
damdivnon	Non Jurisdictional Dams of Nevada County		Sierra Nevada Ecosystem Project	Steve Beckwitt 530 292 3625	Yes	Intermediary theme. Input to Dams	Most complete, spatially accurate theme available on dams.
damjur	Dams within the jurisdiction of the State of CA		Sierra Nevada Ecosystem Project		Yes	Intermediate theme. Input to Dams	Theme incomplete. Misses many small dams on perennial and intermittent streams.
dams	Nevada County Dams	Created by adding all points from damdivnon to damjur. Attribute data from both themes retained.	Derived by Natural Heritage 2020 from combination of Jurisdictional and Non-jurisdictional dam themes obtained from the Sierra Nevada Ecosystem Project	Kateri Harrison 530 265 7058	Yes	Dams	Final composite dams theme.
demshd250	Shaded Relief Model		Sierra Nevada Ecosystem Project		Yes		Used as backdrop for map making only

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dev_ce	Mean Parcel Size in Nevada County Streamside Zones	Created by masking a grid representing parcel acreage (derived from parcelsp) to a grid of ermanance (created by buffering nevstr24 150 feet).	Derived by Natural Heritage 2020 from analysis of USGS 7.5 Minute Topographic Maps and generalizations from Nevada County Parcel Maps (parcel size maps, no ownership information)	Kateri Harrison 530 265 7058	Yes	Parcel Size in Streamside Zone	Parcel size in the streamside zone (within 150 feet on either side of perennial and intermittent streams) provides an index to the extent of human impact to the streamside environment.
districts	Fire, School and other local district lands	Created by reselected polygons from parcelsp based on ownership attributes.	Natural Heritage 2020	Kateri Harrison 530 265 7058	Yes	Intermediate theme. Input to Public Lands	District lands are logically part of the public landscape.
ecoregionsa	Ecological Regions		Sierra Nevada Ecosystem Project		No		Not directly used. Ecoregion boundaries considered when assigning watersheds to elevation zones.
ermanance	Erman Streamside Energy Influence Zone	Create by buffering arcs in nevstr24 150 feet.	Derived by Natural Heritage 2020 from USGS 7.5 Minute Topographic Maps	Kateri Harrison 530 265 7058	Yes	Intermediate theme. Input to Mean Parcel Size in Streamside Zone	Streamside areas delineated based on independent, published scientific process (Menning et al. 1996). Perennial and intermittent streams, the basis for the model, derived from 1:24,000 US Geological Survey Topographic quadrangles.
fens	Fens	Digitized on-screen using nevdrg	Mapped by Natural Heritage 2020 based on information from US Forest Service, Tahoe National Forest	Kateri Harrison 530 265 7058	Yes	Intermediate theme. Input to Springs, Seeps and Fens	Small-patch ecosystem. Most accurate theme available on fen occurrence.
fire_rec	Fire Recurrence	Fire_state	Natural Heritage 2020	Kateri Harrison 530 265 7058	No		Theme lacks information on burn intensity. Without intensity data, ecological impact of fire difficult to determine.
fire_state	Fire History		CDF	Contact Elsa Hack or Curtis Gray 916 227 2658	No		Theme lacks information on burn intensity. Without intensity data, ecological impact of fire difficult to determine.

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fireستا	Fire Districts		Nevada County GIS	Diana Carolan 530 265 1411	No		Political data. Not relevant to science process.
firehaza	Fire Hazard		Nevada County GIS	Diana Carolan 530 265 1411	No		Use of data not discussed by Scientific Advisory Committee.
fireستا	Fire Stations		Nevada County GIS	Diana Carolan 530 265 1411	No		Not relevant to science study.
FISHA	Fish Occurrences, Washoe County, NV		Biological Resources Research Center, UNR	Bob Ellston 775/784-4565	No		No Nevada County occurrences.
fmmp	State mapped farm, grazing and urban lands		Farmland Mapping and Monitoring Program, State of CA	Division of Land Resource Protection (916) 324-0859	No		Not sufficiently accurate for use in study based on findings of watershed review.
fmmp	State mapped farm, grazing and urban lands	Fmmp	Farmland Mapping and Monitoring Program, State of CA	Division of Land Resource Protection (916) 324-0859	No		Not sufficiently accurate for use in study based on findings of watershed review.
fr	Foothill Riparian Woodlands	Created by modeling low gradient floodplains and riparian zones in grid, then mapping (on-screen) deciduous forest within these pre-determined areas using nevsid and nevcold.	Mapped by Natural Heritage 2020 using black and white and color aerial photographs.	Kateri Harrison 530 265 7058	Yes	Foothill Riparian Woodlands	Large-patch ecosystem.
furbpntsa	Pacific Fisher and Marten Survey, 1989-96		USFS Redwood Sciences Laboratory	Richard Truex 707 825 2960	Yes	Intermediate theme. Input to Red/Yellow List Species	Independent scientific source of species occurrences relevant to Nevada County Planning.
gabbro	Gabbrodiorite Soils	Digitized on-screen using nevsid	Mapped by Natural Heritage 2020 using boundaries from Soil Conservation Service, 1975 Soil Survey of Nevada County Area	Kateri Harrison 530 265 7058	Yes	Gabbro-diorite Soils	Small-patch ecosystem. This theme was the only accurate information on the extent of Gabbrodiorite.
gatea	Gates on Roads		Nevada County GIS	Diana Carolan 530 265 1411	No		Not relevant to science study.

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geo_gb	Gabbrodiorite Substrate		CA Division of Mines and Geology Chico Sheet	Kateri Harrison 530 265 7058	No		Not sufficiently accurate for use in study based on findings of field review.
geo_ls	Limestone Substrate		CA Division of Mines and Geology Chico Sheet	Kateri Harrison 530 265 7058	No		Not sufficiently accurate for use in study based on findings of field review.
geo_mzpz_ms	Undifferentiated Paleozoic Sedimentary and meta-sedimentary substrates		CA Division of Mines and Geology Chico Sheet	Kateri Harrison 530 265 7058	No		Not sufficiently accurate for use in study based on findings of field review.
geo_pzp	Paleozoic Metasediment Substrate		CA Division of Mines and Geology Chico Sheet	Kateri Harrison 530 265 7058	No		Not sufficiently accurate for use in study based on findings of field review.
geo_um	Ultramafic substrate (serpentinite)		CA Division of Mines and Geology Chico Sheet	Kateri Harrison 530 265 7058	No		Not sufficiently accurate for use in study based on findings of field review.
geonamea	Place and Feature Names		Teale Data Center	Teale	Yes	Intermediate theme. Input to Springs, Seeps and Fens.	Used to locate springs. Data also used as geographic features on maps.
ggowls	Great Gray Owl Occurrences		California Department of Fish and Game	Esther Burkett 916/654-4273	Yes	Intermediate theme. Input to Red/Yellow List Species	Independent scientific source of species occurrences relevant to Nevada County Planning.
gnevco	Outer boundary of Placer, Nevada, Sierra & Yuba Counties		Derived by Natural Heritage 2020	Kateri Harrison 530 265 7058	Yes		Used to clip state and federal GIS themes to a five county data gathering area only.
gnevcoquads	7.5 minute quadrangle boundaries in study area		Sierra Nevada Ecosystem Project	Steve Beckwitt 530 292 3625	No		Not directly relevant to science study.
goshusfpa	Northern Goshawk Management Areas		USFS		No		Point occurrence data for goshawks used instead.
govtowna	Government Ownership		Teale Data Center	Teale	No		Data is outdated and found to be inaccurate based on field review.
grdwatba	Ground Water Basins		Teale Data Center	Teale	No		The Scientific Advisory Committee could

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HERPSA	Museum Reptile and Amphibian Occurrences, Washoe County, NV		Biological Resources Research Center, UNR	Bob Ellston 775/784-4565	No		No Nevada County occurrences.
highwaysa	Highways		Nevada County GIS	Diana Carolan 530 265 1411	No		Not relevant to science study. Other themes used for roads, highways (for display purposes only), and transportation corridors.
hydrarca	Rivers and Streams		Teale Data Center	Teale	Yes	Intermediate theme. Input to Canals.	Theme partial source of Canals. Also used on maps for geographic orientation.
hydrarct	Rivers and Streams dissolved on item pname	hydrarca	Natural Heritage 2020	Kateri Harrison 530 265 7058	No		Not relevant to science study
hydraulic	Hydraulic Mine Tailings	Hydraulic mines and tailings reselected by attribute from nevveg	Derived by Natural Heritage 2020 from California Department of Forestry Vegetation Theme	Kateri Harrison 530 265 7058	Yes	Intermediate theme. Used on map: Barren Areas, Cliffs and Hydraulic Diggings	Part of Large-patch Ecosystem: Barren.
HYDROA	Streams and Rivers		Placer Legacy	Diana Stralberg	No		Not relevant to science study; other stream themes used
hydropoa	Springs, Wells and Cisterns		Teale Data Center	Teale	Yes	Intermediate theme. Input to Springs, Seeps and Fens	Used to locate springs (small-patch ecosystem).
hydrpola	Lakes and Reservoirs		Teale Data Center	Teale	Yes	Intermediate theme. Input to Lacustrine Ecosystems	Large-patch ecosystem.
incasites	Important Natural Community Areas of Nevada County		Nevada County Land Trust	Greeninfo Network	No		The INCA study, completed by the Nevada County Land Trust, would be valuable for future use on checking the results of any habitat management planning. This science-based study was completed by local and regional biologists in consultation with The Nature Conservancy.

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indexa	Parcel map sheet index		Nevada County GIS	Diana Carolan 530 265 1411	No		Not relevant to science process.
irrigateda	Nevada Irrigation District Irrigated Lands		Scanned by Natural Heritage 2020 using paper maps from Nevada Irrigation District	Dennis Sanders 530 273 6185	Yes	Irrigated Lands	Most accurate available data on the extent of irrigated agriculture and pasture in Nevada County.
knobcone	Knobcone Pine Stands	Digitized on-screen using nevcolsid	Mapped by Natural Heritage 2020 from field survey notes and interpretation of color aerial photos	Kateri Harrison 530 265 7058	Yes	Knobcone Pine Stands	Significant local small-patch ecosystem. Theme includes only field verified stands.
lacustrine	Lakes and Reservoirs (still water habitats)	Created by union of lacustrine24 and hydrpola	Created by Natural Heritage 2020 using Teale Data Center theme and USGS 7.5 Minute Topographic Maps.	Kateri Harrison 530 265 7058	Yes	Lacustrine Ecosystems	Large-patch ecosystem.
lacustrine24	Lakes and Reservoirs from 1:24,000 scale topographic maps	Created by selecting hydrographic features from nevdrgr in grid, then unioning vector output with TNFLAK24a to create countywide vector theme	Created by Natural Heritage 2020 using Sierra Nevada Ecosystem Project 1:24,000 hydrography and USGS 7.5 Minute Topographic Maps	Kateri Harrison 530 265 7058	Yes	Intermediate theme. Input to Lacustrine Ecosystems	Used in final Lacustrine theme.
LAKE_E89	Reservoirs east of Highway 89 (Eastside County only)	Hydrpola	Natural Heritage 2020	Kateri Harrison 530 265 7058	No		
LAKE_W89	Natural Lakes west of Highway 89 (Eastside County only)	Hydrpola	Natural Heritage 2020	Kateri Harrison 530 265 7058	No		
lakesa	Lakes		Nevada County GIS	Diana Carolan 530 265 1411	No		Other data used to map lakes.
lavacaps	Volcanic Lava Caps and Mudflows	Digitized on-screen using nevcolsid	Mapped by Natural Heritage 2020 using field survey notes, interpretation of color aerial photos and Natural Resource Conservation Service Nevada County Soil Survey	Kateri Harrison 530 265 7058	Yes	Volcanic Lava Caps and Mudflows	Small-patch ecosystem.
leatheroak	Leather Oak (<i>Quercus durata</i>) Chaparral Stands	Digitized on-screen using nevcolsid	Mapped by Natural Heritage 2020 using field survey notes and interpretation or color aerial photos.	Kateri Harrison 530 265 7058	Yes	Leather Oak Chaparral Stands	Very rare, highly localized habitat type in Nevada County. Supports several rare plants of concern to

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localparks	County Parks	Parcelsp	Natural Heritage 2020	Kateri Harrison 530 265 7058	No		Other data used to map local parks.
LSOG_SIZE56	Conifer Forest Size Class 5 and 6	Nevveg	Natural Heritage 2020	Kateri Harrison 530 265 7058	No		Data found to be consistently inaccurate based on field review.
lsofg	Late-successional Conifer Forest	Derived by reselecting field verified stands from tnfvveg80a. Stands west of US Forest Service theme digitized on-screen using nevsid following watershed survey notes.	Derived by Natural Heritage 2020 from US Forest Service Vegetation theme, with supplemental mapping based on field survey using black and white aerial photos.	Kateri Harrison 530 265 7058	Yes	Late-Successional Conifer Forest (Mixed-Conifer and Red Fir)	Small-patch ecosystem.
macnab	McNab Cypress Stands	Digitized on-screen from nevcoldsid	Mapped by Natural Heritage 2020 from color aerial photos and field survey.	Kateri Harrison 530 265 7058	Yes	McNab Cypress Stands	Significant small patch ecosystem associated with several Red/Yellowlist plants and animals.
majorriva	Major Rivers and Streams		Nevada County GIS	Diana Carolan 530 265 1411	No		Riverine theme, based on 1:24,000 streams, used instead.
MAMMALSA	Mammal Occurrences, Washoe County, NV		Biological Resources Research Center, UNR	Bob Ellston 775/784-4565	No		No Nevada County occurrences.
milsa	Mines and Mineral Deposits		USGS	Bill Ferguson (303) 236-8747 Ext 321	Yes	Intermediary theme. Input to Caves and Mine Shafts	Data accurate according to field review. Data useful for predicting occurrences of several rare bat species, and for predicting water quality and the hydrological integrity of watersheds.
ncfjepson	Nevada County Flora with Jepson Nomenclature		Sierra Biodiversity Institute	Eric Beckwitt 530 292 0100	Yes	Intermediary theme. Input to Red/Yellow List Species	Data accurate according to field review. Independent, scientific data with collection sites for all plant species in Nevada County.
ncflora	Nevada County Flora with Munz Nomenclature		Sierra Biodiversity Institute	Eric Beckwitt 530 292 0100	No		Jepson nomenclature version used instead.

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ncfloraall	Nevada County Flora with coordinates for all occurrences in database	ncflora	Sierra Biodiversity Institute	Eric Beckwitt 530 292 0100	No		Jepson nomenclature version used instead.
ncwhr	Nevada County Wildlife Habitat Relationships Cover Types	Derived from nevveg by reclassification of polygons based on dominant species. Polygons corrected for random and systematic errors based on notes from watershed review. Updated with lacustrine, nevsvr24 and few.	Derived by Natural Heritage 2020 from California Department of Forestry Vegetation theme, Teale Data Center Lakes, USGS 7.5 Minute Topographic Maps (for many small lakes, and riverine ecosystems) and color aerial photos (for Fresh Emergent Wetlands and Foothill Riparian Woodlands)	Kateri Harrison 530 265 7058	Yes	All large-patch ecosystems. Includes: Annual Grassland, Aspen Woodlands, Barren (including cliffs and hydraulic diggings), Cropland, Eastside Pine Forest, Eastside Riparian Woodlands, Eastside Scrub, Foothill Chaparral, Foothill Hardwood Woodlands, Foothill Riparian Woodlands, Fresh Emergent Wetlands, Lacustrine Ecosystems, Lodgepole Pine Forest, Mixed-Conifer Forest, Montane Chaparral, Montane Hardwood Woodlands, Montane Meadow, Montane Riparian Woodlands, Oak-Foothill Pine Woodlands, Orchards, Ponderosa Pine Forest, Red Fir Forest, Riverine Ecosystems, Subalpine Pine Forest, Subalpine Conifer Forest, Subalpine Dwarf Scrub, Urban (and Residential Areas), and Vineyards	Large-patch ecosystem location is the basic information that underlies all habitat based planning.

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nddb	CA Natural Diversity Database Polygons		California Department of Fish and Game, California Natural Diversity Database	Karen Y. Bates 916 324 3812	No		Point occurrence version used instead.
nddbpt	Natural Diversity Database Element Occurrences		California Department of Fish and Game, California Natural Diversity Database	Karen Y. Bates 916 324 3812	Yes	Intermediate theme. Input to Red/Yellow List Species	Independent scientific source of species occurrences relevant to Nevada County Planning.
nevco	Nevada County Boundary		Natural Heritage 2020	Kateri Harrison 530 265 7058	Yes		Used to clip GIS themes to Nevada County extent, and to depict the Nevada County boundary on maps.
nevcob	Nevada County Boundary buffered 200 meters		Natural Heritage 2020	Kateri Harrison 530 265 7058	No		Not relevant to science study.
nevcodem30	30 meter cellsize Digital Elevation Model		Natural Heritage 2020	Kateri Harrison 530 265 7058	Yes	Intermediate theme. Input to Elevation Range and Mean Elevation (both derived from nevdemfeet)	Corrected DEM with stripping errors corrected (removed) at boundaries between source quadrangles
nevcog	Nevada County (grid format)		Natural Heritage 2020	Kateri Harrison 530 265 7058	Yes		Used to limit raster-based analysis to Nevada County only.
nevcollands	Nevada County Owned Parcels	Derived by reselecting (by attribute) Nevada County owned lands from parcelsp	Natural Heritage 2020	Kateri Harrison 530 265 7058	Yes	Intermediate theme. Input to Public Lands	Nevada County lands are part of the public landscape.
nevcollandug	Nevada County Land-Use/Land-Cover		Natural Heritage 2020	Kateri Harrison 530 265 7058	No		Not evaluated for use by the Scientific Advisory Committee

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nevcoldid	Nevada County color orthophoto quads (rectified, terrain-corrected aerial photo mosaics)		Nevada County Planning Department	Kateri Harrison 530 265 7058	Yes	Intermediate theme. Used to map Foothill Riparian Woodlands, Fresh Emergent Wetlands, Knobcone Pine Stands, Leather Oak Chaparral Stands, and McNab Cypress Stands	Used to map several large and small patch ecosystem types, and to verify accuracy of unimproved private land and road themes.
nevcon12_192	Forty foot elevation contours	nevdem10	Natural Heritage 2020	Kateri Harrison 530 265 7058	Yes		Used in map generation.
nevcont30_5	One hundred foot elevation contours	nevdem10	Natural Heritage 2020	Kateri Harrison 530 265 7058	Yes		Used in map generation.
nevcont7_6	Twenty-five foot elevation contours	nevdem10	Natural Heritage 2020	Kateri Harrison 530 265 7058	Yes		Used in map generation.
nevcoslp100	Slope Model		Natural Heritage 2020	Kateri Harrison 530 265 7058	No		More spatially accurate slope model (nevsp100) used instead.
nevcoslpe	Slope Model for Eastern Nevada County	nevdem30	Natural Heritage 2020	Kateri Harrison 530 265 7058	No		Not evaluated for use by the Scientific Advisory Committee
nevdem10	10 Meter Digital Elevation Model		Assembled from USGS 10 Meter DEM Quadrangles and US Forest Service 30 Meter DEMs	Kateri Harrison 530 265 7058	Yes	Intermediate theme. Input to Mean Elevation, Elevation Range, Mean Slope, Nevada County Slopes	Most accuracy available composite digital elevation model (DEM)
nevdem10f	Filled Version of 10 meter DEM (no sinks)	nevdem10	Natural Heritage 2020	Kateri Harrison 530 265 7058	No		Not evaluated for use by the Scientific Advisory Committee.
nevdem250	100 meter Digital Elevation Model		Sierra Nevada Ecosystem Project	SNEP	No		Data not sufficiently precise for use in analysis at county level.
nevdem50	50 meter Digital Elevation Model	Stripping from composite DEM (nevdem10) removed by resampling to 50 meter cell size.	Natural Heritage 2020	Kateri Harrison 530 265 7058	Yes	Intermediate theme. Input to Mean Elevation, Elevation Range, Mean Slope, Nevada County Slopes	

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nevdemfeet	Digital Elevation Model (30 meter cellsize, units: feet)	Nevdem50	Natural Heritage 2020	Kateri Harrison 530 265 7058	Yes	Nevada County Elevation Range, Mean Elevation	Used to derive elevation ranges for all major habitat types.
nevdrgr	Rectified digital 7.5 minute topographic maps (digital raster graphics)		USGS, USFS Sierran Framework		Yes	Intermediate theme. Input to Riverine Ecosystems; Lacustrine Ecosystems; Canals; Springs, Seeps and Fens	Used for final riverine, lacustrine and spring habitats (and to supplement canals) in SW Nevada County.
nevfuelg	Fuel Load		California Department of Forestry	Mark Rosenberg 916 227 2658	No		Not evaluated for use by the Scientific Advisory Committee.
nevha	River Sub-basins		Natural Heritage 2020	Kateri Harrison 530 265 7058	No		Not evaluated for use by the Scientific Advisory Committee.
nevholland	Holland Vegetation Types (grid)		Natural Heritage 2020	Kateri Harrison 530 265 7058	No		The Scientific Advisory Committee chose to use the CA Wildlife Habitats Relations (CWHR) vegetation classification system instead of Holland. This theme, based on CAGAP, was too coarse for county level analysis.
nevhollandc	Holland Vegetation Types (coverage)		Natural Heritage 2020	Kateri Harrison 530 265 7058	No		The Scientific Advisory Committee chose to use the CA Wildlife Habitats Relations (CWHR) vegetation classification system instead of Holland. This theme, based on CAGAP, was too coarse for county level analysis.
nevprism	Nevada County Precipitation Isohyets (grid format)		Sierra Nevada Ecosystem Project	Steve Beckwitt 530 292 3625	No		Used in the stream model to locate the beginning points of ephemeral streams. Not used in final analysis.

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nevprismc	Nevada County Precipitation Isohyets		Sierra Nevada Ecosystem Project	Steve Beckwitt 530 292 3625	No		Used in the stream model to locate the beginning points of ephemeral streams. Not used in final analysis.
nevrdsan	GPS based Nevada County Roads		Nevada County GIS	Diana Carolan 530 265 1411	Yes	Intermediate theme. Input to Final Roads, Roadless Areas, Roads in the Streamside Zone	Used in association with Teale and USFS roads, after careful updating based on field and aerial photo work, to make final roads theme.
nevshd10	10 meter Shaded Relief Model	nevdem10	Natural Heritage 2020	Kateri Harrison 530 265 7058	Yes		Used for map display only.
nevshd100	100 meter Shaded Relief Model	nevdem250	Natural Heritage 2020	Kateri Harrison 530 265 7058	Yes		Used for map display only.
nevshd30	30 meter Shaded Relief Model	nevdem30	Natural Heritage 2020	Kateri Harrison 530 265 7058	Yes		Used for map display only.
nevshd50	50 meter Shaded Relief Model	nevdem50	Natural Heritage 2020	Kateri Harrison 530 265 7058	Yes		Used for map display only.
nevsid	Nevada County Digital Orthophoto Mosaic (black and white)		Natural Resource Conservation Service		Yes	Intermediate theme. Used to map Roads and Late-successional Conifer Forests	Western Nevada County portion of mosaic, based on 1997 black and white photos, used to error check and update final roads theme (rdsfa), and Foothill Riparian Woodlands. Eastern portion of mosaic used to check for major errors of omission in road theme.
nevslgt30	Nevada County Slope greater than 30 Percent (grid format)	nevdem10	Natural Heritage 2020	Kateri Harrison 530 265 7058	No		No valid biological use discussed.
nevslgt30c	Nevada County Slope greater than 30 Percent (coverage format)	nevdem10	Natural Heritage 2020	Kateri Harrison 530 265 7058	No		No valid biological use discussed.

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nevslp50	Slope model (50 meter cell size; units: percent)	nevdem50	Natural Heritage 2020	Kateri Harrison 530 265 7058	Yes	Nevada County Slopes	Used in countywide map of slope, and to generate mean slope by watershed.
nevstr24	Nevada County 1:24,000 streams and rivers	Derived by reselecting linear hydrological features from grid versions of nevdrgr, vectorizing the resultant arcs, editing them and combining them with streams24k in Arcedit.	Derived by Natural Heritage 2020 from USGS 7.5 Minute Topographic Maps and US Forest Service 1:24,000 streams and rivers theme	Kateri Harrison 530 265 7058	Yes	Intermediate theme. Input to Riverine Ecosystems, Roads in Streamside Zone, Development in Streamside Zone	1:24,000 scale hydrography from the 7.5 minute topo maps is the most accurate county-wide theme representing perennial and intermittent streams.
nevveg	Contemporary Vegetation of Nevada County		California Department of Forestry	Mark Rosenberg 916 227 2658	Yes	Intermediate theme. Input to All large-patch ecosystems (see ncwhr)	Independently created by the CA Dept of Forestry, this theme yielded all large patch ecosystem extents and the watershed vegetation statistics.
nevvegquads	7.5 minute quadrangles containing Tahoe National Forest Vegetation Data		Natural Heritage 2020	Kateri Harrison 530 265 7058	No		The NH2020 science process mapped communities and ecosystems only. With rare exception, no mapping of canopy closure or seral stage was attempted. Thus, this more precise vegetation theme, which covers the eastern half of the county, was not necessary.
nevwwat	Planning Watersheds of Western Nevada County; sub-basins, East		Natural Heritage 2020	Kateri Harrison 530 265 7058	No		CALWATER basins were used instead.
nh2020rds	Nevada County Roadless Areas	Derived by buffering rdsfa arcs 100 meters, and reselecting only polygons outside the buffer zone that were greater than 250 acres.	Natural Heritage 2020	Kateri Harrison 530 265 7058	Yes	Nevada County Roadless Areas	Index of human disturbance.
nid	Nevada Irrigation District Lands	parcelsp	Natural Heritage 2020	Kateri Harrison 530 265 7058	No		

Theme Name	Theme	Theme derived from and derivation process summary	Source Agency or Description	Contact	Used in NH2020 Science Process?	Final Theme Used In	Rationale for inclusion/exclusion
nid_pge	Nevada Irrigation District and Pacific Gas and Electric Lands	parcelsp	Natural Heritage 2020	Kateri Harrison 530 265 7058	No		Combined PG&E and NID theme not relevant to study.
nidarablea	Irrigated and Arable Lands		Nevada Irrigation District		No		Independent irrigated and arable themes used instead.
NNHP96A	1996 Nevada Natural Heritage Program Element Occurrences, Washoe County, NV		Biological Resources Research Center, UNR	Bob Ellston 775/784-4565	No		No occurrences in Nevada County.
NNHP98A	1998 Nevada Natural Heritage Program Element Occurrences, Washoe County, NV		Biological Resources Research Center, UNR	Bob Ellston 775/784-4565	No		No occurrences in Nevada County.
parcelsgovb	State and Federally owned parcels		Nevada County GIS	Diana Carolan 530 265 1411	No		Data was inaccurate based on field review
parcelsp	Nevada County Parcels and Assessors Database		Nevada County GIS	Diana Carolan 530 265 1411	Yes	Intermediate theme. Input to Private Lands, Public Lands, Contiguous Unimproved Tracts > 80 Acres, Mean Parcel Size in the Streamside Zone	This theme yielded the most precise information on the current extent of public lands, private lands, undeveloped private parcels, and contiguous undeveloped tracts.
parkparcel	Local and regional parks	parcelsp	Natural Heritage 2020	Kateri Harrison 530 265 7058	No		Other, more complete local park themes used instead.
pge	Pacific Gas and Electric Company Lands	parcelsp	Natural Heritage 2020	Kateri Harrison 530 265 7058	No		Not directly relevant to study.
place24a	Towns, cities and townsites		Teale Data Center	Teale	No		Not evaluated for use by the Scientific Advisory Committee.

Theme Name	Theme	Theme derived from and derivation process summary	Source Agency or Description	Contact	Used in NH2020 Science Process?	Final Theme Used In	Rationale for inclusion/exclusion
plantsn	Red/Yellow List Plant Occurrences	Compiled in vector format by reselecting Red/Yellowlist plants from ncfjepson, nddb and usfsplnta.	Compiled by Natural Heritage 2020 by reselecting plant occurrences from the Natural Diversity Database. Includes Red/Yellowlist plant occurrences from the Nevada County Flora (ncfjepson), and the US Forest Service, Tahoe National Forest Sensitive Plants theme.	Kateri Harrison 530 265 7058	Yes	Intermediate theme. Input to Red/Yellow List Species	The most accurate available location data on Red/Yellow list plants.
plsfll	Public Lands Survey		Teale Data Center	Teale	Yes		Used for map display only.
POT_URBGT10AC	Urban and Suburban Areas-2002	Derived from parcelsp in a grid process that selected developed parcel aggregations > 10 acres where all parcels where < 3 acres each.	Natural Heritage 2020	Kateri Harrison 530 265 7058	Yes	Intermediate theme. Input to Urban and Residential Areas.	Used to update the state themes. Many locations have urban and suburban density outside the incorporated towns. This theme maps these pockets of density in the rural landscape.
prec35	Nevada County: Lands with greater than 35 inches of rain per year	nevprism	Natural Heritage 2020	Kateri Harrison 530 265 7058	No		Developed for the Forest Working Group. Not used in science process.
presc_fire	Post 1930 Prescribed Fire	fire_state	Natural Heritage 2020	Kateri Harrison 530 265 7058	No		In the absence of fire intensity maps, positive or negative ecological impacts of the prescribed fires cannot be determined.
privatef	Nevada County Private Lands	Derived from parcelsp by selecting all state, federal, county, city, regional park, school and district lands, then inverting the selection to derive private.	Natural Heritage 2020	Kateri Harrison 530 265 7058	Yes	Nevada County Public and Private Lands, Private Lands	This was the only accurate, detailed theme representing private holdings in Nevada County. From the Assessors Parcel Database.
privwda	Private Water Districts		Teale Data Center		No		Not evaluated for use by the Scientific Advisory Committee.

Theme Name	Theme	Theme derived from and derivation process summary	Source Agency or Description	Contact	Used in NH2020 Science Process?	Final Theme Used In	Rationale for inclusion/exclusion
public_lak	Lakes/Reservoirs with public access	Hydrpola, public_all	Natural Heritage 2020	Kateri Harrison 530 265 7058	No		Not evaluated or used by Science Team. Use by Recreation Working Group.
publicf	Nevada County Public Lands	Derived from parcelsp by selecting US Forest Service, Bureau of Land Management, US Military, State Parks, State Department of Fish and Game, State Lands Commission, Town of Truckee, County of Nevada, City of Nevada City, City of Grass Valley, School District, Fire District, Sanitation District and other smaller public agency holdings.	Natural Heritage 2020	Kateri Harrison 530 265 7058	Yes	Nevada County Public Lands, Public and Private Lands	This is the most accurate available theme on public land distribution.
rds_sed	Roads in the Streamside Zone	Derived by intersecting rdsfa, with ermanance using the line option	Derived by Natural Heritage 2020 using field and photo updated GPS-based roads theme from the County of Nevada and streams from USGS 7.5 Minute Topographic Maps.	Kateri Harrison 530 265 7058	Yes	Roads in the Streamside Zone	Roads are a major source of sediment input into aquatic ecosystems. Roads in the streamside zones are particularly damaging (Menning et al. 1996).
rdsfa	Nevada County Roads	Created by updating nevrdsan using notes from the watershed review and comprehensive overlay of updated roads over nevrid with on-screen addition of all roads missing from theme.	Derived by Natural Heritage 2020 using field and photo updated GPS-based roads theme from the County of Nevada.	Kateri Harrison 530 265 7058	Yes	Roads in the Streamside Zone, Nevada County Roads	The most accurate available data on roads in Nevada County. Updated during field review, and afterwards using 1997 US Geological Service Digital Orthophotos.
reservoirs	Nevada County Reservoirs (including natural lakes with raised water levels)	hydrpola	Natural Heritage 2020	Kateri Harrison 530 265 7058	No		Lakes and reservoirs theme (lacustrine) used instead.
RIMTRAILA	Lake Tahoe Rim Trail		Placer Legacy	Diana Stralberg	No		No elements in Nevada County.

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riparian	Foothill riparian vegetation		CA Dept. of Fish and Game	Alan Kilgore 916 445 6264	No		Coverage not sufficiently comprehensive to use in analysis.
riv500k	Rivers		Sierra Nevada Ecosystem Project	SNEP	No		Data wrong scale for county analysis.
rivermaja	Major Rivers		Nevada County GIS	Diana Carolan 530 265 1411	No		Other themes (hydrarca) used for rivers.
riversa	Rivers and streams only		Nevada County GIS	Diana Carolan 530 265 1411	No		Other themes (hydrarca) used for rivers.
rrmisca	Railroads		Teale Data Center	Teale	No		Not evaluated for use by the Scientific Advisory Committee.
sbiogc	Late-Succession and Old Growth Conifer Forests		Sierra Biodiversity Institute	Eric Beckwitt 530 292 0100	No		Theme from 1990. Not sufficiently accurate for use without updating.
sbiogwhr	Late-Succession and Old Growth Conifer Forests by WHR Type	sbiogc, nevveg	Natural Heritage 2020	Kateri Harrison 530 265 7058	No		Theme from 1990. Not sufficiently accurate for use without updating.
serp	Serpentine Soils	Reselected from soils123a and tnsoile	Created by Natural Heritage 2020 using digitized versions of the Natural Resource Conservation Service Nevada County Area Soil Survey and Tahoe National Forest 3 rd Order Soil Resource Inventory	Kateri Harrison 530 265 7058	Yes	Serpentine Soils	This theme was the only accurate information on the extent of Serpentine Soils.
shafts	Caves and Mine Shafts	Reselected by attribute from milsa	Created by Natural Heritage 2020 using a comprehensive USGS theme on mines and mineral deposits	Kateri Harrison 530 265 7058	Yes	Caves and Mine Shafts	Best available theme on mine shaft location. Evaluated and updated during field review.

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snada	Sierra Nevada Ecosystem Project Aquatic Diversity Areas		Pacific Rivers Council	Deanna Spooner 510 48 3887	No		The Aquatic Diversity Area system was developed by the Sierra Nevada Ecosystem Project, and refined by the Pacific Rivers Council, as a tool to focus conservation efforts on key river basins in the Sierra. Useful for understanding what other science-based plans have recommended for Nevada County.
sncr	Pacific Rivers Council Critical Aquatic Refuges		Pacific Rivers Council	Deanna Spooner 510 48 3887	No		Critical Aquatic Refuges are centers of aquatic biodiversity and important habitat areas for Sierran endemic species. This independent scientific study was coordinated by The Pacific Rivers Council (Eugene, OR).
sncso	Nevada County Spotted Owl Occurrences		CA Dept. of Fish and Game	Gordon Gould	Yes	Intermediate theme. Input to Red/Yellow List Species	Best available data on occurrences of the CA spotted owl.
snepalse	Sierra Nevada Ecosystem Project Areas of Late Succession Emphasis		University of California, Davis Information Center for the Environment (ICE)		No		Dr. Jerry Franklin, a forest ecologist at the University of Washington, designed the Areas of Late Succession Emphasis system to protect and restore old-growth conifer forests in the Sierra. Useful for understanding what other science-based plans have recommended for Nevada County.

Theme Name	Theme	Theme derived from and derivation process summary	Source Agency or Description	Contact	Used in NH2020 Science Process?	Final Theme Used In	Rationale for inclusion/exclusion
snghpnt	Northern Goshawk Occurrences		US Forest Service Sierra Nevada Framework		Yes	Intermediate theme. Input to Red/Yellow List Species	Independent scientific source of species occurrences relevant to Nevada County Planning.
snq24kalb	USGS 7.5 Minute quadrangles boundaries		Sierra Biodiversity Institute	Steve Beckwitt 530 292 3625	No		Not directly relevant to science study.
soil	Statsco Soils		Teale Data Center		No		Data lack sufficient spatial resolution for county scale planning.
soil123a	Metabasic Substrates of Nevada County	Digitized on-screen using nevsid and a hardcopy version of the Nevada County Soil Survey.	Derived by Natural Heritage 2020 using the Soil Conservation Service, 1975 Soil Survey of Nevada County Area and a black and white aerial photo mosaic.	Kateri Harrison 530 265 7058	Yes	Intermediate theme. Input to Serpentine Soils and Gabbrodiorite Soils	The 1975 Soil Survey of Nevada County Area was the only study that accurately mapped serpentinite and gabbrodiorite substrates in Nevada County.
springs	Springs, Seeps and Fens	Created by reselecting by attribute from hydrpoa, geonamea and fens, with supplemental points based on nevdrgr and the watershed review	Created by Natural Heritage 2020 using Teale Data Center themes, USGS 7.5 Minute Topographic Maps, fen distribution information from the US Forest Service, and notes from the watershed survey	Kateri Harrison 530 265 7058	Yes	Springs, Seeps and Fens	Springs are highly localized habitat for plants and animals, and the only habitat for several insect species found only in the North Sierra.
starcit	Cities		Sierra Nevada Ecosystem Project		Yes		Used for map display only.
starmrds	Major Roads		Sierra Nevada Ecosystem Project		Yes		Used for map display only.
starowncomp	Land ownership		USFS Sierra Framework	Steve Beckwitt 530 292 3625	No		Theme outdated and inaccurate in Nevada County.
state_park	State Parks of Nevada County (with names)	Reselected by attribute from parcelsp	Natural Heritage 2020	Kateri Harrison 530 265 7058	Yes	Intermediate theme. Input to Public Lands	The most accurate data available on State Park holdings. Used in the public lands theme.

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state_park_pa	State Park Parcels	parcelsp	Natural Heritage 2020	Kateri Harrison 530 265 7058	No		Same as state_parks, but with parcel information instead of park name.
statelands	State Owned Lands of Nevada County	Reselected by attribute from parcelsp	Natural Heritage 2020	Kateri Harrison 530 265 7058	Yes	Intermediate theme. Input to Public Lands	Most accurate theme on state owned lands.
statelandsz	State Owned lands with General Plan Zoning	parcelsp	Natural Heritage 2020	Kateri Harrison 530 265 7058	No		Not relevant to science study.
STRBUF3C	Stream Energy Influence Zones based on Modeled Streams	streams100k, streams_mod, nevdem10	Natural Heritage 2020	Kateri Harrison 530 265 7058	No		Streamside areas delineated based on independent, published scientific process (Menning et al. 1996). Modeled streams, the basis for streamside areas in headwater intermittent and ephemeral streams, found to be highly accurate based on field review. Late in the science process it was decided to use the theme ermanance instead of this theme.
streams_mod	Modeled Ephemeral Stream Starting Points		Natural Heritage 2020	Kateri Harrison 530 265 7058	No		Modeled streams theme found to be extremely accurate, during field review, at predicting the point in the ephemeral stream channel where scour begins. Not used in final analysis. Perennial and intermittent streams from USGS 7.5 minute quads used instead.
streams100k	1:100,000 scale Streams and Rivers	Reselected by attribute from hydrarca	Natural Heritage 2020	Kateri Harrison 530 265 7058	Yes		Used only to represent streams and rivers on some maps.

Theme Name	Theme	Theme derived from and derivation process summary	Source Agency or Description	Contact	Used in NH2020 Science Process?	Final Theme Used In	Rationale for inclusion/exclusion
tnoport	The Nature Conservancy Sierra Nevada Ecoregional Plan Portfolio Sites		The Nature Conservancy, San Francisco	Jim Gaither 415 777 0487	No		The Nature Conservancy used a team of scientists with expertise in the Sierra to determine the minimum set of lands necessary to protect the flora and fauna of the Sierra. Useful for understanding what other science-based plans have recommended for Nevada County.
tncsites	The Nature Conservancy Sierra Nevada Ecoregional Plan Potential Portfolio Sites (all areas considered)		The Nature Conservancy, San Francisco	Jim Gaither 415 777 0487	No		
TNFLAK24a	Tahoe National Forest 1:24,000 scale lakes		Sierra Nevada Ecosystem Project		Yes	Intermediary theme. Input to Lacustrine Ecosystems	Most accurate theme on lake and reservoir occurrence in central and eastern Nevada County.
tnfcc	Clearcuts on national forest land		US Forest Service Sierra Nevada Framework		No		Theme does not cover all conifer forestlands in Nevada County.
TNFDEER97A	USFS Deer Emphasis Areas		USFS Remote Sensing Lab., Sacramento	Ralph Warbington	No		No species specific planning or analysis was undertaken.
TNFDREC92A	Developed and Proposed Recreation Sites		USFS Remote Sensing Lab., Sacramento	Ralph Warbington	No		Not relevant to the science process.
TNFFROG	USFS Sensitive Frog Locations		Placer Legacy	Diana Stralberg	Yes	Intermediate theme. Input to Red/Yellow List Species	Independent source of species occurrences relevant to Nevada County Planning. Evaluated for accuracy based on persistence of suitable habitat during field review.
TNFMVVG98A	USFS Meadows		USFS Remote Sensing Lab., Sacramento	Ralph Warbington	No		Theme does not cover all lands capable of supporting

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TNFMead92A	USFS Meadow Management Zones		USFS Remote Sensing Lab., Sacramento	Ralph Warbington	No		Theme does not cover all lands capable of supporting meadow habitats.
tnfoc	Historic selective logging (1873-1975) on TNF and surrounding lands		Sierra Biodiversity Institute	Eric Beckwitt 530 292 0100	No		Theme does not cover all conifer forestlands in Nevada County.
TNFPACS98A	USFS CA Spotted Owl Protected Activity Centers		USFS Remote Sensing Lab., Sacramento	Ralph Warbington	No		No species specific planning or analysis was undertaken.
TNFPNTN97A	USFS Plantations		USFS Remote Sensing Lab., Sacramento	Ralph Warbington	No		Theme does not cover all conifer forestlands in Nevada County.
TNFSNOG96A	Sierra Nevada Ecosystem Project Old-growth forests		USFS Remote Sensing Lab., Sacramento	Ralph Warbington	No		Theme does not cover all conifer forestlands in Nevada County. Data was created at incorrect scale for county planning.
tnfsoil	1:24,000 Tahoe National Forest Third Order Soil Resource Inventory		USFS Remote Sensing Lab., Sacramento	Ralph Warbington	Yes	Intermediate theme. Input to Serpentine Soils, Fresh Emergent Wetlands	See tnfsoile.
tnfsoile	1:24,000 Tahoe National Forest Third Order Soil Resource Inventory dissolved on map unit symbol	Dissolved from tnfsoil	USFS Remote Sensing Lab., Sacramento	Ralph Warbington	Yes	Intermediate theme. Input to Serpentine Soils, Fresh Emergent Wetlands	Best available data on extent of serpentine soils and freshwater emergent wetlands in central and eastern Nevada County.
TNFMSTRM98_2a	USFS Modeled Streams		US Forest Service Sierra Nevada Framework	Steve Beckwitt 530 292 3625	No		Theme does not cover all Nevada County. Stream density highly variable and of questionable accuracy.
tnfveg80a	Tahoe National Forest Vegetation		US Forest Service Sierra Nevada Framework	Steve Beckwitt 530 292 3625	Yes	Intermediate theme. Input to Late-Successional Conifer Forest	Theme does not cover all Nevada County. Attributes of theme more detailed than necessary for watershed scale assessment. Used to verify aerial photo interpretation.

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TRLHEADS	Trailheads		Placer Legacy	Diana Stralberg	No		No elements in Nevada County
truckwat	Planning Watersheds of Eastern Nevada County		Natural Heritage 2020	Kateri Harrison 530 265 7058	No		Theme does not cover all Nevada County.
TUI_NVFISH A	Tui-chub fish locations, Washoe County, NV		Biological Resources Research Center, UNR	Bob Ellston 775/784-4565	No		No elements in Nevada County.
TULOA	Reptiles and Amphibians Occurrences, Washoe County, NV		Biological Resources Research Center, UNR	Bob Ellston 775/784-4565	No		No elements in Nevada County.
unimp_tract	Contiguous Unimproved Private Tracts > 80 Acres	Derived from parcelsp in grid by aggregating all unimproved private land into contiguous tracts and reselecting areas > 80 acres. No ownership information included or considered.	Natural Heritage 2020	Kateri Harrison 530 265 7058	Yes	Contiguous Unimproved Private Tracts > 80 acres	Contiguous tracts of unimproved private land greater than 80 acres have potential conservation value.
unimproved	Unimproved private lands	Derived from parcelsp in grid by aggregating all unimproved private lands into contiguous tracts	Natural Heritage 2020	Kateri Harrison 530 265 7058	Yes	Intermediate theme. Input to Contiguous Unimproved Private Tracts > 80 acres	See unimp_tract.
urban	Lands mapped as urban by CDF	Reselected by attribute from nevveg	Natural Heritage 2020	Kateri Harrison 530 265 7058	Yes	Intermediate theme. Input to Urban and Residential Areas	Used with lands mapped as urban by the US Census Bureau, State of CA Teale Data Center, State of CA Farmland Mapping and Monitoring Program and urban areas based on the Assessors Parcel Database.
urbanf	Final Urban Lands Theme	Merged in grid from urban, urbarea, urbrura, pot_urbangt10ac	Natural Heritage 2020	Kateri Harrison 530 265 7058	Yes	Urban and Residential Areas,	Final urban theme.

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urbarea	Urbanized Areas		Teale Data Center	Teale	Yes	Intermediate theme. Input to Urban and Residential Areas	Used with lands mapped as urban by the US Census Bureau, State of CA Farmland Mapping and Monitoring Program, CA Department of Forestry, and urban areas based on the Assessors Parcel Database.
urbrura	US Census Bureau "Urban/Rural" Areas		Teale Data Center	Teale	Yes	Intermediate theme. Input to Urban and Residential Areas	Used with lands mapped as urban by the State of CA Teale Data Center, State of CA Farmland Mapping and Monitoring Program, CA Department of Forestry, and urban areas based on the Assessors Parcel Database.
usfsbirda	USFS Sensitive Bird Locations		Placer Legacy	Diana Stralberg	Yes	Intermediate theme. Input to Red/Yellow List Species	Independent source of species occurrences relevant to Nevada County Planning. Evaluated for accuracy based on persistence of suitable habitat during field review.
usfsplnta	USFS Sensitive Plant Occurrences and Habitat		Placer Legacy	Diana Stralberg	Yes	Intermediate theme. Input to Red/Yellow List Species	Independent source of species occurrences relevant to Nevada County Planning.
usfwsvp	Vernal Pools		CA Dept. of Fish and Game	Alan Kilgore (916)445-6264	No		No elements (in this theme) in Nevada County.
utilitya	Utility Corridors		Natural Heritage 2020	Kateri Harrison 530 265 7058	No		Theme not sufficiently complete. Also theme does not differentiate type or width of corridor. Not all corridors have same ecological impact.

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valleyoak	Valley Oak Woodlands	Reselected by attributes from nevveg. Updated based on notes from watershed review	Natural Heritage 2020	Kateri Harrison 530 265 7058	Yes	Input to Valley Oak Woodlands	Large-patch ecosystem.
Verts	Red/Yellow List Animal Species Occurrences	Vector points compiled into single coverage from calacada nddb, ylf, ggowl and furbpntsa. Attributes scientific name, common name and source tracked in final.	Compiled by Natural Heritage 2020 from California Department of Fish and Game, US Forest Service, California Academy of Sciences, University of California and scientific non-government organization databases.	Kateri Harrison 530 265 7058	Yes	Intermediate theme. Input to Red/Yellow List Species	Best available composite data on the locations of listed endangered animals, and those likely to be listed soon in the absence of habitat protection. Unlike plants, animals move, so older records had to be checked to be assumed valid (see Chapter 2: Methods).
WASHOE_COA	Washoe County Boundary (NV)		Biological Resources Research Center, UNR	Bob Ellston 775/784-4565	No		Not applicable to science project.
WASHOE_GEOA	Geology, Washoe County, NV		Biological Resources Research Center, UNR	Bob Ellston 775/784-4565	No		No elements in Nevada County.
WASHOE_GNISA	Towns and places, Washoe County, NV		Biological Resources Research Center, UNR	Bob Ellston 775/784-4565	No		No elements in Nevada County.
WASHOE_LANDA	Land Ownership		Biological Resources Research Center, UNR	Bob Ellston 775/784-4565	No		No elements in Nevada County.
WASHOE_SPRA	Springs, Washoe County, NV		Biological Resources Research Center, UNR	Bob Ellston 775/784-4565	No		No elements in Nevada County.
Wetlands	Western Nevada County Wetlands	Mapped on-screen using nevcolsid.	Mapped by Natural Heritage 2020 through interpretation of rectified color aerial photos.	Kateri Harrison 530 265 7058	Yes	Intermediate theme. Input to Fresh Emergent Wetlands	Best available theme on wetlands in SW Nevada County.
Whitebark	Whitebark Pine Stands	Mapped on-screen using nevsid and Whitebark pine occurrence maps from the US Forest Service	Mapped by Natural Heritage 2020 based on information from the US Forest Service	Kateri Harrison 530 265 7058	Yes	Whitebark Pine Stands	Small-patch ecosystem.

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willamsona	Williamson Act Agricultural Lands		Nevada County GIS	Diana Carolan 530 265 1411	No		Williamson Act lands are only a small subset of the total irrigated and arable lands in the county. Other themes used to represent agriculture.
willowf	Willow Flycatcher Occurrences		US Forest Service		Yes	Intermediate theme. Input to Red/Yellow List Vertebrates	Independent source of species occurrences relevant to Nevada County Planning. Evaluated for accuracy based on persistence of suitable habitat during field review.
wlowwat	Planning Watersheds of Western Nevada County		Natural Heritage 2020	Kateri Harrison 530 265 7058	No		Theme does not cover all Nevada County.
ylf	Foothill Yellow-Legged Frog Occurrences		Yuba Watershed Institute	Eric Beckwitt 530 292 0100	Yes	Intermediate theme. Input to Red/Yellow List Species	Independent source of species occurrences relevant to Nevada County Planning. Evaluated for accuracy based on persistence of suitable habitat during field review.
z00nevdmidir	Cell to cell flow direction model for Nevada County		Natural Heritage 2020	Kateri Harrison 530 265 7058	No		Used to model streams. Modeled streams not used in final analysis.
zones	Nevada County Elevation Zones	Calwater polygons assigned to zones based on criteria from Science Team	Natural Heritage 2020	Kateri Harrison 530 265 7058	Yes	Nevada County Elevation Zones	Elevation zones were created so that habitats and themes that represent habitat quality and human impact could be objectively assessed by delimiting the maximum area they could be found in.
zoninga	Nevada County 1995 General Plan Land Use Zoning		Nevada County GIS	Diana Carolan 530 265 1411	No		Not directly applicable to science project.