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U.S. GEOLOGICAL SURVEY

GEOLOGIC MAP AND DIGITAL DATABASE OF THE YUCAIPA 7.5' QUADRANGLE, SAN BERNARDINO AND RIVERSIDE COUNTIES, CALIFORNIA, v. 1.0

Codes for geologic attributes in database

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[This listing of database codes for geologic attributes accompanies the geologic map and digital database of the Yucaipa 7.5' quadrangle, San Bernardino and Riverside Counties, California, version 1.0]

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1. CODES FOR GEOLOGIC ATTRIBUTES

By applying the various query strategies available in the GIS environment along with the judicious use of additional INFO tables provided, the user should be able to search the Yucaipa database for information like the following:

- Select all surficial deposits (as distinct from bedrock deposits);
- Find all geologic contacts that are located well enough to meet the map-accuracy standard (as distinct from those that may not meet the standard);
- Select the San Andreas Fault;
- Find all late Holocene faults in the Yucaipa quadrangle (as distinct from older faults);
- Select all landslide deposits, then re-select for very young deposits (as distinct from older deposits);
- Show all occurrences of San Timoteo beds where bedding dips to the northwest and northeast;
- Select all alluvial deposits that are dominated by sand and pebbles (as distinct from those dominated by cobbles and boulders);
- Find all faults that are located well enough to meet the map-accuracy standard (as distinct from those that may not meet the standard);
- Find all sedimentary-bedding orientations that were compiled from sources other than the authors of the Yucaipa database;
- Find all sedimentary bedding and foliation orientations that dip greater than 45° in a northwest direction.

At first glance, geologic information stored in the Yucaipa database may appear difficult to access because:

- some information is stored in the .pat and .aat files
- other information is stored in various INFO tables
- the data are stored as parsed code rather than as whole words

The following dictionary provides plain-word definitions for coded abbreviations in the Yucaipa geologic-map database. The definitions are presented in two ways:

- As alphabetized geologic attributes grouped according to where they are stored in the database (lines, points, and polygons)
- As alphabetized code lists of geologic attributes

For a complete discussion of how the geologic attributes are stored in the database and how their codes can be translated for use in geologic analysis, see Matti and others (1997a, b, c).

1.1. Alphabetized by Geologic Attribute

1.1.1. Geologic features represented by lines

1.1.1.1. Line attributes stored in **yuc_geo.aat**

1.1.1.1.1. Line attributes in Items **L-AGEMIN** and **L-AGEMAX**

geologic age, Cenozoic = .CZO
geologic age, Cenozoic, Quaternary = .CZOQ
geologic age, Cenozoic, Quaternary, Holocene = .CZOQH
geologic age, Cenozoic, Quaternary, Modern = .CZOQHD
geologic age, Cenozoic, Quaternary, Holocene, late = .CZOQHL
geologic age, Cenozoic, Quaternary, Pleistocene, late = .CZOQPL
geologic age, Cenozoic, Quaternary, Pleistocene, middle = .CZOQPM

geologic age, Cenozoic, Tertiary = .CZOT

geologic age, Cenozoic, Tertiary, Miocene = .CZOTM
geologic age, Cenozoic, Tertiary, Miocene, late = .CZOTML
geologic age, Cenozoic, Tertiary, Neogene = -NGN-

geologic age, Mesozoic = .MZO
geologic age, Mesozoic, Cretaceous = .MZOK
geologic age, Mesozoic, Cretaceous, late = .MZOKL

1.1.1.1.2. Line attributes in Item **L-AGECON**

geologic age assignment based on geomorphic development = .GMD
geologic age assignment based on geomorphic development, age is certain = .GMDC
geologic age assignment based on pedogenic-soil development = .SOD
geologic age assignment based on pedogenic-soil development, age is certain = .SODC
geologic age assignment based on regional correlation = .RCO
geologic age assignment based on regional correlation, age is certain = .RCOC
geologic age assignment based on stratigraphic relations = .SRL
geologic age assignment based on stratigraphic relations, age is certain = .SRLC

1.1.1.1.3. Line attributes in Item **L-NAME** (named faults as whole words)

Banning Fault
Chicken Hill Fault
Crafton Hills Fault Zone
Greenspot Fault
Reservoir Canyon Fault
San Andreas Fault, San Bernardino Strand
San Andreas Fault, Mill Creek Strand
San Andreas Fault, Mission Creek Strand
San Andreas Fault, Wilson Creek Strand
Yucaipa graben complex

1.1.1.2. Line attributes stored in **L-DEF** of data table **lines.rel**

cartographic line, map boundary = .CLNB

fault = .FLT
fault, existence certain = .EXC
fault, geometry high angle = .FLTH
fault, geometry low angle = .FLTL

fault feature, line has information about = .FFE
fault feature, fault has associated seismicity = .FFES
fault scarp = .FSC
fault scarp, identity questionable, probable = .PRO

fault-slip style, line has information about = .SLP
fault-slip style unspecified = .SLPU
fault-slip style unspecified, generic fault = .SLPUG
fault-slip style, normal slip = .SLPN
fault-slip style normal slip, normal fault = .SLPNN
fault-slip style, reverse slip = .SLPR
fault-slip style, reverse slip, reverse fault = .SLPRR
fault-slip style, strike slip = .SLPS
fault-slip style, strike slip, right lateral strike slip fault = .SLPSR

fault-slip style, thrust slip = .SLPT
fault-slip style, thrust slip, thrust fault = .SLPTT

fault-wall relations, line has information about = .WRL
fault-wall relations, older over younger = .WRLO

geologic contact = .CON
geologic contact, boundary is discrete = .DIS
geologic contact, igneous = .CONI
geologic contact, landslide = .CONL
geologic contact, landslide crown scarp = .CRW
geologic contact, sedimentary = .CONS
geologic contact, sedimentary, separating terraced alluvial units = .CONST
geologic contact, scratch = .CONK
geologic contact, scratch, igneous = .CONKI

line identity certain = .IDC
line identity questionable = .IDQ

line position inferred = .INF
line position inferred beneath mapped covering unit = .INFM
line position may not meet map accuracy standard = .MNM
line position meets map accuracy standard = .MEE
line position observable = .OBS

1.1.2. Geologic Features Represented by Points

1.1.2.1. Quantitative-point attributes stored in **P-DEF** of data table **points.rel**

bedding orientation = .BED

bedding orientation, sedimentary = .BEDS

fault attribute = .PAF
fault attribute, fault-dip direction = .PAFD

foliation orientation, = .FOL
foliation orientation, igneous = .FOLI
foliation orientation, igneous, igneous-flow origin = .FLW
foliation orientation, metamorphic = .FOLM
foliation orientation, origin not determined = .FOLN
foliation orientation, strain-dominated origin = .FOLS

geologic information compiled from sources other than database authors = .CPD
geologic information generated by database authors = .ORG

geometry not determined (lineation and [or] fold form) = .GND

lineation = .LIN
lineation, defined by aligned mineral grains = .AMG
lineation, defined by aligned mineral grains (high-strain rock) = .AMGH
lineation, defined by crushed and streaked mineral grains = .CST
lineation, defined by crushed and streaked mineral grains (high-strain rock) = .CSTH
lineation, defined by crushed and streaked mineral grains (metamorphic rock) = .CSTM
lineation, defined by minor-fold axis in high-strain rock = .LINAH
lineation, defined by minor-fold axis in metamorphic rock = .LINAM
lineation, defined by minor-fold axis, kink-band fold = .KKF

lineation, occurring in high-strain rock = .LINH
lineation, occurring in metamorphic rock = .LINM
lineation, origin not determined = .LINN

minor-fold, rotation sense, point feature contains information about = .ROT
minor-fold, rotation sense dextral = .ROTD
minor-fold, rotation sense sinistral = .ROTS

orientation of planar or linear element, inclined = .INC
orientation of planar or linear element, inclined, bedding = .INCB
orientation of planar or linear element, inclined, foliation = .INCF
orientation of planar or linear element, overturned = .OVT
orientation of planar or linear element, overturned, bedding = .OVTB
orientation of planar or linear element, vertical = .VER
orientation of planar or linear element, vertical, bedding = .VERB
orientation of planar or linear element, vertical, foliation = .VERF

strike-and-dip direction, information about how determined = .SDP
strike-and-dip direction, approximated = .SDPA
strike-and-dip direction, approximated, estimated but not measured = .SDPAE
strike-and-dip direction, approximated, estimated but not measured, binocular observation = .SDPAEB
strike-and-dip direction, measured at site = .SDPM

1.1.2.2. Non-quantitative point attributes stored in data table "**points.rel**"

fault attribute, bar and ball on down-dropped fault block = .PAFB
fault attribute, strike-slip arrows, right-lateral = .PAFSR.

observation station = .OST
observation station, fossil information = .OSTF
observation station, fossil information, fossil collection = .OSTFC
observation station, fossil information, fossil description = .OSTFD
observation station, fossil information, fossils observed = .OSTFO
observation station, lithologic description = .OSTL
observation station, subsurface boring site = .OSTB
observation station, soil-profile information = .OSTS
observation station, soil-profile information, profile described = .OSTSD
observation station, soil-profile information, profile examined = .OSTSE

1.1.3. Attributes for Geologic-Map Units (Polygons)

1.1.3.1. Polygon attributes stored in the data table **yuc_summ.rel**

Geologic attributes for map units are stored in the following data fields of the INFO data table **yuc_summ.rel**:

AGEMIN
AGEMAX
AGECON
TYPE
CLASS
SURFACE
ORIGIN

1.1.3.2. Polygon attributes in **yuc_summ.rel** fields "**AGEMIN**" and "**AGEMAX**"

deformation age, Tertiary, late =-DCZOTL-
deformation age known, penetrative deformation, age likely but not certain = .ADFKPL
deformation age, Cretaceous, late = .DMZOKL

geologic age, Cenozoic = .CZO
geologic age, Cenozoic, Tertiary = .CZOT
geologic age, Cenozoic, Tertiary, Pliocene = .CZOTP
geologic age, Cenozoic, Tertiary, Pliocene, late = .CZOTPL
geologic age, Cenozoic, Quaternary = .CZOQ
geologic age, Cenozoic, Quaternary, Holocene = .CZOQH
geologic age, Cenozoic, Quaternary, Holocene, Modern = .CZOQHD
geologic age, Cenozoic, Quaternary, Holocene, late = .CZOQHL
geologic age, Cenozoic, Quaternary, Holocene, middle = .CZOQHM
geologic age, Cenozoic, Quaternary, Holocene, early = .CZOQHE
geologic age, Cenozoic, Quaternary, Pleistocene = .CZOQP
geologic age, Cenozoic, Quaternary, Pleistocene, early = .CZOQPE
geologic age, Cenozoic, Quaternary, Pleistocene, late = .CZOQPL
geologic age, Cenozoic, Quaternary, Pleistocene, middle = .CZOQPM
geologic age, Cenozoic, Tertiary, Miocene = .CZOTM
geologic age, Cenozoic, Tertiary, Miocene, late = .CZOTML
geologic age, Cenozoic, Neogene =-NGN-
geologic age, Mesozoic = .MZO
geologic age, Mesozoic, Cretaceous = .MZOK
geologic age, Mesozoic, Cretaceous, late = .MZOKL
geologic age, Mesozoic, Jurassic = .MZOJ
geologic age, Mesozoic, Triassic = .MZOT
geologic age, Paleozoic = .PZO
geologic age, Precambrian = .PRC
geologic age, Precambrian, Proterozoic = .PRCP

geologic-age subdivision, land-mammal age, Blancan = .LMAB
geologic-age subdivision, land-mammal age, Irvingtonian = .LMAI
geologic-age subdivision, magnetic chron C1 = .PMC01

geologic-age subdivision, magnetic chron C2 = .PMC02
geologic-age subdivision, magnetic chron, polygon contains information about = .PMC

1.1.3.3. Polygon attributes in **yuc_summ.rel** Field "**AGECON**"

age based on fossils = .FSL
age based on fossils, age certain = .FSLC

age based on geomorphic development, age certain = .GMDC
age based on geomorphic development, age uncertain = .GMDU
age based on geomorphic development = .GMD
age based on intrusive relations, age certain = .INRC
age based on intrusive relations, age uncertain = .INRU
age based on intrusive relations = .INR
age based on isotopic data = .IAG
age based on isotopic data, age certain = .IAGC
age based on paleomagnetism, age certain = .PMGC
age based on paleomagnetism = .PMG
age based on pedogenic-soil development, age certain = .SODC
age based on pedogenic-soil development, age uncertain = .SODU
age based on pedogenic-soil development = .SOD
age based on regional correlation, age certain = .RCOC
age based on regional correlation, age uncertain = .RCOU
age based on regional correlation = .RCO
age based on stratigraphic relations, age uncertain = .SRLU
age based on stratigraphic relations = .SRL
age of metamorphism Mesozoic = .MMZO
age of metamorphism Mesozoic, Cretaceous = .MMZOK
age of metamorphism Mesozoic, Cretaceous, late = .MMZOKL
age of metamorphism known, likely but not certain = .AMMKL

1.1.3.4. Polygon attributes in **yuc_summ.rel** Field "**TYPE**"

bedrock = .BRK

clast composition in sedimentary unit, polygon contains information about = .CCO

clast composition in sedimentary unit, clast provenance, polygon contains information about = .CCOA
clast composition in sedimentary unit, clast provenance, Transverse Ranges = .CCOAT
clast composition in sedimentary unit, clast provenance, Transverse Ranges, San Bernardino Mts type = .CCOATB
clast composition in sedimentary unit, clast provenance, Transverse Ranges, San Gabriel Mts type = .CCOATG
clast composition in sedimentary unit, clast provenance, Transverse Ranges, San Gabriel Mts type, Pelona-type schist = .CCOATGP
clast composition in sedimentary unit, clasts of recognizable map unit = .CCOU
clast composition in sedimentary unit, clasts of recognizable map unit, Mill Creek Formation = .CCOUM
clast composition in sedimentary unit, clasts of recognizable map unit, Pelona-type schist = .CCOUP
clast composition in sedimentary unit, clasts of recognizable map unit, Pelona-type schist, greenstone = .CCOUPE
clast composition in sedimentary unit, clasts of recognizable map unit, Pelona-type schist, grayschist = .CCOUPS
clast composition in sedimentary unit, clasts of recognizable map unit, Triassic megaporphyry = .CCOUT

clast composition in sedimentary unit, igneous = .CCOI
clast composition in sedimentary unit, igneous, plutonic = .CCOIP

clast composition in sedimentary unit, igneous, plutonic, granitic = .CCOIPG
clast composition in sedimentary unit, igneous, plutonic, granitic, monzodioritic = .CCOIPGZD
clast composition in sedimentary unit, igneous, plutonic, granitic, muscovite leucogranite = .CCOIPGL
clast composition in sedimentary unit, igneous, plutonic, mafic plutonic = .CCOIPM
clast composition in sedimentary unit, igneous, volcanic = .CCOIV
clast composition in sedimentary unit, igneous, volcanic, andesite = .CCOIVA
clast composition in sedimentary unit, igneous, volcanic, basalt = .CCOIVB

clast composition in sedimentary unit, metamorphic = .CCOM
clast composition in sedimentary unit, metamorphic, gneiss = .CCOMG
clast composition in sedimentary unit, metamorphic, schist = .CCOMC

igneous emplacement structure, polygon contains information about = .SFE
igneous emplacement structure, inclusions = .SFEI
igneous emplacement structure, inclusion-rich igneous rock = .SFEIR

igneous rock = .IGN
igneous rock (deformed) = .IGND
igneous rock, diorite = .DIO
igneous rock, diorite, quartz = .DIOQ
igneous rock, granitic composition = .GRN
igneous rock, granitic composition, (deformed) = .GRND
igneous rock, granitic composition, quartz-deficient = .GRNQD
igneous rock, granitic composition, quartz-poor = .GRNQP
igneous rock, granitic composition, quartz-rich = .GRNQR
igneous rock, granitic composition, quartz-rich (deformed) = .GRNQRD
igneous rock, granodiorite = .GDR
igneous rock, granodiorite (deformed) = .GDRD
igneous rock, monzogranite = .MGR
igneous rock, monzogranite (deformed) = .MGRD
igneous rock, monzonite, quartz-bearing = .MZNQ
igneous rock, tonalite = .TON
igneous rock, tonalite (deformed) = .TOND
igneous rock, intrusive = .IGNI
igneous rock, intrusive (deformed) = .IGNID
igneous rock, intrusive, hypabyssal body = .IGNIH
igneous rock, intrusive, hypabyssal body (deformed) = .IGNIHD
igneous rock, intrusive, hypabyssal body, sill = .IGNIHS
igneous rock, intrusive, hypabyssal body, stock = .IGNIHO
igneous rock, intrusive, plutonic body, pluton = .IGNIPP
igneous rock, intrusive, plutonic body (deformed) = .IGNIPD
igneous rock, intrusive, plutonic body, pluton (deformed) = .IGNIPPD
igneous rock, intrusive, plutonic body = .IGNIP
igneous rock, intrusive, volcanic feeder body, dike = .IGNIVK
igneous rock, volcanic = .VOL
igneous rock, volcanic, andesite = .AND
igneous rock, volcanic rock, composition quartz-poor = .VOLQP
igneous rock, volcanic rock, composition quartz-rich = .VOLQR
igneous rock, volcanic, dacite = .DAC

inclusions, mafic, in igneous rock = .INCM

isotopic age is emplacement age = .ISOE

isotopic age, determination from outside map area = .ISOAO
isotopic age, polygon contains information about = .ISO
isotopic age, U-Pb determination = .ISOUP
isotopic age, U-Pb determination from zircon = .ISOUPZ
isotopic age, U-Pb determination is isochron age = .ISOUPI

metamorphic rock = .MET
metamorphic rock, generic = .MMG
metamorphic rock, generic, gneiss = .MMGG
metamorphic rock, metaigneous = .MIG
metamorphic rock, metaigneous, greenstone = .MIGE
metamorphic rock, metaigneous, metavolcanic = .MIGVM
metamorphic rock, metasedimentary = .MSD
metamorphic rock, metasedimentary, metagraywacke = .MSDWM
metamorphic rock, metasedimentary, schist = .MSDS
metamorphic rock, origin, regional dynamothermal = .METR
metamorphic rock, origin, strain dominant = .METS
metamorphic rock, protolith, polygon contains information about = .PLI
metamorphic rock, protolith igneous = .PLII
metamorphic rock, protolith igneous, volcanic = .PLIIV
metamorphic rock, protolith sedimentary = .PLIS
metamorphic rock, protolith sedimentary, marine = .PLISM

provincial affinity, polygon contains information about = .PAF
provincial affinity, rock has affinities with Mojave Desert, Little San Bernardino Mts = .PAFML
provincial affinity, rock has affinities with Mojave Desert = .PAFM
provincial affinity, rock has affinities with Peninsular Ranges = .PAFP = .
provincial affinity, rock has affinities with San Gabriel Mountains = .PAFG

rock deformed during pluton emplacement = .DEFP
rock deformed under high-strain conditions = .DEFH

sedimentary rock = .SED
sedimentary rock, siliciclastic = .SEDS
sedimentary rock, grain composition, polygon contains information about = .GCO
sedimentary rock, grain composition, feldspar dominant = .GCOF
sedimentary rock, grain composition, muscovite = .GCOAM
sedimentary rock, grainrock, sandstone = .GRKSS
sedimentary rock, grainrock, sandstone, conglomeratic = .GRKSSC
sedimentary rock, grainrock, various types occur in map unit (sedimentary rock) = .GRKV
sedimentary rock, grainrock (grain-supported fabric) = .GRK
sedimentary rock, grainrock, conglomerate = .GRKC
sedimentary rock, matrix-supported = .MXS
sedimentary rock, matrix-supported, conglomerate = .MXSC
sedimentary rock, mudrock & grainrock, mixed = .MGM
sedimentary rock, mudrock & grainrock, mixed, grainrock dominant = .MGMGD
sedimentary rock, mudrock & grainrock, mixed, mudrock dominant = .MGMMD
sedimentary rock, mud-supported = .MRK
sedimentary rock, mud-supported, mudstone = .MRKM
sedimentary rock, siliciclastic rock interbedded with non-siliciclastic rock = .INS

strain-dominated rock = .SDR
strain-dominated rock, high-strain = .SDRH
strain-dominated rock, high-strain, cataclastic = .SDRHC

strain-dominated rock, high-strain, foliated = .SDRHF
strain-dominated rock, high-strain, gneissose = .SDRHG
strain-dominated rock, high-strain, mylonitic = .SDRHM

surficial deposit = .SUR
surficial deposit, alluvial = .SURA
surficial deposit, alluvial, alluvial-fan = .SURAF
surficial deposit, alluvial, alluvial-valley = .SURAA
surficial deposit, alluvial, very young wash = .SURAW
surficial deposit, alluvial, very young wash, active = .SURAWA
surficial deposit, alluvial, very young wash, intermittent = .SURAWI
surficial deposit, alluvial, very young wash, older = .SURAWO
surficial deposit, alluvial, unspecified = .SURAU
surficial deposit, hillslope deposit = .SURH
surficial deposit, hillslope deposit, colluvium = .SURHC
surficial deposit, sand & gravel = .SGD
surficial deposit, sand & gravel, gravel = .SGDG
surficial deposit, sand & gravel, gravel dominant over sand = .SGDGD
surficial deposit, sand & gravel, sand dominant over gravel = .SGDSD
surficial deposit, sand & gravel, sand and gravel subequal = .SGDQ
surficial deposit, sand & gravel, sand = .SGDS
surficial deposit, slope-failure = .SURS
surficial deposit, slope-failure, landslide = .SURSL
surficial deposit, unspecified = .SURU

1.1.3.5. Polygon attributes in **yuc_summ.rel** Field "**CLASS**"

classification of map unit, polygon contains information about = .RSC
classification of map unit, bedrock = .RSCB
classification of map unit, bedrock, formal = .RSCBF
classification of map unit, bedrock, formal, Formation-rank = .RSCBFF
classification of map unit, bedrock, formal, metamorphic Formation = .RSCBFFM
classification of map unit, bedrock, informal = .RSCBI
classification of map unit, bedrock, informal, formation rank = .RSCBIF
classification of map unit, bedrock, informal, formation rank, metamorphic = .RSCBIFM
classification of map unit, bedrock, informal, formation rank, sedimentary = .RSCBIFS
classification of map unit, bedrock, informal, formation rank, sedimentary, member of formation = .RSCBIFSM
classification of map unit, bedrock, informal, formation rank, plutonic = .RSCBIFP
classification of map unit, bedrock, informal, formation rank, volcanic formation = .RSCBIFV
classification of map unit, surficial = .RSCS
classification of map unit, surficial, informal = .RSCSI
classification of map unit, surficial, informal, alluvial unit = .RSCSIA
classification of map unit, surficial, informal, alluvial unit, alluvial-fan deposit, very young = .RSCSIAFM
classification of map unit, surficial, informal, alluvial unit, alluvial-fan deposit, young = .RSCSIAFY
classification of map unit, surficial, informal, alluvial unit, alluvial-fan deposit, old = .RSCSIAFO
classification of map unit, surficial, informal, alluvial unit, alluvial-fan deposit, very old = .RSCSIAFV
classification of map unit, surficial, informal, alluvial unit, alluvial-fan deposit = .RSCSIAF
classification of map unit, surficial, informal, alluvial unit, alluvial-valley deposit = .RSCSIAV
classification of map unit, surficial, informal, alluvial unit, alluvial-valley deposit, very young = .RSCSIAVM
classification of map unit, surficial, informal, alluvial unit, alluvial-valley deposit, young = .RSCSIAVY

classification of map unit, surficial, informal, alluvial unit, alluvial-valley deposit, old = .RSCSIAVO
classification of map unit, surficial, informal, alluvial unit, alluvial-valley deposit, very old = .RSCSIAVV
classification of map unit, surficial, informal, alluvial unit, wash deposit = .RSCSIAW
classification of map unit, surficial, informal, alluvial unit, wash deposit, very young = .RSCSIAWM
classification of map unit, surficial, informal, alluvial unit, wash deposit, very young, active = .RSCSIAWMA
classification of map unit, surficial, informal, alluvial unit, wash deposit, very young, active intermittently = .RSCSIAWMI
classification of map unit, surficial, informal, alluvial unit, wash deposit, very young, older = .RSCSIAWMO
classification of map unit, surficial, informal, hillslope unit = .RSCSIH
classification of map unit, surficial, informal, hillslope unit, colluvial deposit = .RSCSIHC
classification of map unit, surficial, informal, hillslope unit, colluvial deposit, very young = .RSCSIHCM
classification of map unit, surficial, informal, slope-failure unit = .RSCSIS
classification of map unit, surficial, informal, slope-failure unit, very young = .RSCSISM
classification of map unit, surficial, informal, slope-failure deposit, young = .RSCSISY
classification of map unit, surficial, informal, slope-failure deposit, old = .RSCSISO
classification of map unit, surficial, informal, slope-failure deposit, very old = .RSCSISV
classification of map unit, surficial, informal, undifferentiated deposit = .RSCSIU
classification of map unit, surficial, informal, undifferentiated deposit, very old = .RSCSIUV

1.1.3.6. Polygon attributes in **yuc_summ.rel** Field "**SURFACE**"

soil, surface, polygon contains information about = .SSO
soil, surface, with A horizon (surficial unit capped by) = .SSOAW
soil, surface, with A/C horizon (surficial unit capped by) = .SSOAC
soil, surface, with A/C/Bcambic horizon (surficial unit capped by) = .SSOBC
soil, surface, with B horizon, cambic and (or) argillic (surficial unit capped by) = .SSOB
soil, surface, with Bt horizon (surficial unit capped by) = .SSOBT
soil, surface, with moderate Bt horizon (surficial unit capped by) = .SSOBTM
soil, surface, with strong Bt horizon (surficial unit capped by) = .SSOBTS
soil, surface, degraded (surficial unit capped by) = .SSOD
soil, surface, moderate (surficial unit capped by) = .SSOM
soil, surface, no development (surficial unit capped by) = .SSOX
soil, surface, non-calcic (surficial unit capped by) = .SSONC
soil, surface, weak (surficial unit capped by) = .SSOW

surficial deposit, surface armor, polygon contains information about = .SAR
surficial deposit, surface armor, no pavement = .SARN

surficial deposit, surface dissection, polygon contains information about = .SDI
surficial deposit, surface dissection, moderate = .SDIM
surficial deposit, surface dissection, moderate to well = .SDIMW
surficial deposit, surface dissection, none = .SDIN
surficial deposit, surface dissection, none to slightly dissected = .SDINS
surficial deposit, surface dissection, slight = .SDIS
surficial deposit, surface dissection, strong = .SDIW

surficial deposit, surface morphology, polygon contains information about = .SMO
surficial deposit, surface morphology largely degraded (surficial deposit) = .SMOD
surficial deposit, surface morphology largely preserved = .SMOP
surficial deposit, surface morphology largely preserved, anastomosing channels = .SMOPC
surficial deposit, surface morphology largely preserved, bar and swale = .SMOPB

surficial deposit, surface morphology largely preserved, hillslope sediment veneer = .SMOPV
surficial deposit, surface morphology largely preserved, hummocky ground = .SMOPH

surficial deposit, surface varnish, polygon contains information about = .SVR
surficial deposit, surface varnish, none = .SVRN

1.1.3.7. Polygon attributes in **yuc_summ.rel** Field "**ORIGIN**"

sedimentary origin, alluvial-plain geographic setting = .ALP
sedimentary origin, mountain-margin geographic setting = .MTM
sedimentary origin, nonmarine = .NMA

sedimentary rock, origin, alluvial-fan deposit = .AFD
sedimentary rock, origin, basin deposit = .BAS
sedimentary rock, origin, basin deposit, transform-type = .BAST
sedimentary rock, origin, basin deposit, transform-type, braided-fault = .BASTB
sedimentary rock, origin, basin deposit, transform-type, pull-apart = .BASTP
sedimentary rock, origin, fluvial deposit = .FLU
sedimentary rock, origin, lake deposit = .LAC

1.2. Alphabetized by Database Code

1.2.1. Alphabetic List of Geologic-Line Codes

-NGN- = geologic age, Neogene

.CLNB = cartographic line, map boundary
.CONI = geologic contact, igneous
.CONKI = geologic contact, scratch, igneous
.CONL = geologic contact, landslide
.CONS = geologic contact, sedimentary
.CONST = geologic contact, sedimentary, separating terraced alluvial units
.CRW = geologic contact, landslide crown scarp
.CZO = geologic age, Cenozoic
.CZOQ = geologic age, Cenozoic, Quaternary
.CZOQH = geologic age, Cenozoic, Quaternary, Holocene
.CZOQHD = geologic age, Cenozoic, Quaternary, Modern
.CZOQHL = geologic age, Cenozoic, Quaternary, Holocene, late
.CZOQPL = geologic age, Cenozoic, Quaternary, Pleistocene, late
.CZOQPM = geologic age, Cenozoic, Quaternary, Pleistocene, middle
.CZOT = geologic age, Tertiary
.CZOTM = geologic age, Tertiary, Miocene
.CZOTML = geologic age, Tertiary, Miocene, late

.DIS = geologic contact, boundary is discrete

.EXC = fault, existence certain

.FFE = fault feature, line has information about
.FFES = fault feature, fault has associated seismicity
.FLT = fault
.FLTH = fault, geometry high angle
.FLTL = fault, geometry low angle
.FSC = fault scarp

.GMD = geologic age assignment based on geomorphic development
.GMDC = geologic age assignment based on geomorphic development, age is certain

.IDC = line identity certain
.IDQ = line identity questionable
.INFM = line position inferred beneath mapped covering unit

.MEE = line position meets map accuracy standard
.MNM = line position may not meet map accuracy standard
.MZO = geologic age, Mesozoic
.MZOK = geologic age, Mesozoic, Cretaceous
.MZOKL = geologic age, Mesozoic, Cretaceous, late

.OBS = line position observable

.PRO = fault scarp, identity questionable, probable

.RCO = geologic age assignment based on regional correlation
.RCOC = geologic age assignment based on regional correlation, age is certain

.SLP = fault-slip style, line has information about
.SLPN = fault-slip style, normal slip
.SLPNN = fault-slip style normal slip, normal fault
.SLPR = fault-slip style, reverse slip
.SLPRR = fault-slip style, reverse slip, reverse fault
.SLPS = fault-slip style, strike slip
.SLPSR = fault-slip style, strike slip, right lateral strike slip fault
.SLPT = fault-slip style, thrust slip
.SLPTT = fault-slip style, thrust slip, thrust fault
.SLPU = fault-slip style unspecified
.SLPUG = fault-slip style unspecified, generic fault
.SOD = geologic age assignment based on pedogenic-soil development
.SODC = geologic age assignment based on pedogenic-soil development, age is certain
.SRL = geologic age assignment based on stratigraphic relations
.SRLC = geologic age assignment based on stratigraphic relations, age is certain

.WRL = fault-wall relations, line has information about
.WRLO = fault-wall relations, older over younger

1.2.2. Alphabetic List of Geologic-Point Codes

.AMG = lineation, defined by aligned mineral grains
.AMGH = lineation, defined by aligned mineral grains (high-strain rock)

.BEDS = Bedding orientation, sedimentary

.CPD = geologic information compiled from sources other than database authors
.CST = lineation, defined by crushed and streaked mineral grains
.CSTH = lineation, defined by crushed and streaked mineral grains (high-strain rock)
.CSTM = lineation, defined by crushed and streaked mineral grains (metamorphic rock)

.FLW = foliation orientation, igneous, igneous-flow origin
.FOL = foliation orientation
.FOLI = foliation orientation, igneous
.FOLM = foliation orientation, metamorphic
.FOLN = foliation orientation, origin not determined
.FOLS = foliation orientation, strain-dominated origin

.GND = geometry not determined (lineation and [or] fold form)

.INC = orientation of planar or linear element, inclined
.INCB = orientation of planar or linear element, inclined, bedding
.INCF = orientation of planar or linear element, inclined, foliation

.KKF = lineation, defined by minor-fold axis, kink-band fold

.LIN = lineation
.LINAH = lineation, defined by minor-fold axis in high-strain rock
.LINAM = lineation, defined by minor-fold axis in metamorphic rock
.LINH = lineation, occurring in high-strain rock
.LINM = lineation, occurring in metamorphic rock
.LINN = lineation, origin not determined

.ORG = geologic information generated by database authors
.OST = observation station

.OSTF = observation station, fossil information
.OSTFC = observation station, fossil information, fossil collection
.OSTFD = observation station, fossil information, fossil description
.OSTFO = observation station, fossil information, fossils observed
.OSTL = observation station, lithologic description
.OSTB = observation station, subsurface boring site
.OSTS = observation station, soil-profile information
.OSTSD = observation station, soil-profile information, profile described
.OSTSE = observation station, soil-profile information, profile examined
.OVT = orientation of planar or linear element, overturned
.OVTB = orientation of planar or linear element, overturned, bedding

.PAF = fault attribute
.PAFB = fault attribute, bar and ball on down-dropped fault block
.PAFD = fault attribute, fault-dip direction
.PAFSR = fault attribute, strike-slip arrows, right-lateral

.ROT = minor-fold, rotation sense, point feature contains information about
.ROTD = minor-fold, rotation sense dextral
.ROTS = minor-fold, rotation sense sinistral

.SDP = strike-and-dip direction, information about how determined
.SDPA = strike-and-dip direction, approximated
.SDPAE = strike-and-dip direction, approximated, estimated but not measured
.SDPAEB = strike-and-dip direction, approximated, estimated but not measured, binocular observation
.SDPM = strike-and-dip direction, measured at site

.VER = orientation of planar or linear element, vertical
.VERB = orientation of planar or linear element, vertical, bedding
.VERF = orientation of planar or linear element, vertical, foliation

1.2.3. Alphabetic List of Geologic-Polygon Codes

-DCZOTL- = deformation age, Tertiary, late

-NGN- = geologic age, Cenozoic, Neogene

.ADFKPL = deformation age known, penetrative deformation, age likely but not certain
.AFD = sedimentary rock, origin, alluvial-fan deposit
.ALP = sedimentary origin, alluvial-plain geographic setting
.AMMKL = age of metamorphism known, likely but not certain
.AND = igneous rock, volcanic, andesite

.BAS = sedimentary rock, origin, basin deposit
.BAST = sedimentary rock, origin, basin deposit, transform-type
.BASTB = sedimentary rock, origin, basin deposit, transform-type, braided-fault
.BASTP = sedimentary rock, origin, basin deposit, transform-type, pull-apart
.BRK = bedrock

.CCO = clast composition in sedimentary unit, polygon contains information about
.CCOA = clast composition in sedimentary unit, clast provenance, polygon contains information about
.CCOAT = clast composition in sedimentary unit, clast provenance, Transverse Ranges
.CCOATB = clast composition in sedimentary unit, clast provenance, Transverse Ranges, San Bernardino Mts type

.CCOATG = clast composition in sedimentary unit, clast provenance, Transverse Ranges, San Gabriel Mts type
.CCOATGP = clast composition in sedimentary unit, clast provenance, Transverse Ranges, San Gabriel Mts type, Pelona-type schist
.CCOI = clast composition in sedimentary unit, igneous
.CCOIP = clast composition in sedimentary unit, igneous, plutonic
.CCOIPG = clast composition in sedimentary unit, igneous, plutonic, granitic
.CCOIPGL = clast composition in sedimentary unit, igneous, plutonic, granitic, muscovite leucogranite
.CCOIPGZD = clast composition in sedimentary unit, igneous, plutonic, granitic, monzodioritic
.CCOIPM = clast composition in sedimentary unit, igneous, plutonic, mafic plutonic
.CCOIV = clast composition in sedimentary unit, igneous, volcanic
.CCOIVA = clast composition in sedimentary unit, igneous, volcanic, andesite
.CCOIVB = clast composition in sedimentary unit, igneous, volcanic, basalt
.CCOM = clast composition in sedimentary unit, metamorphic
.CCOMC = clast composition in sedimentary unit, metamorphic, schist
.CCOMG = clast composition in sedimentary unit, metamorphic, gneiss
.CCOU = clast composition in sedimentary unit, clasts of recognizable map unit
.CCOUM = clast composition in sedimentary unit, clasts of recognizable map unit, Mill Creek Formation
.CCOUP = clast composition in sedimentary unit, clasts of recognizable map unit, Pelona-type schist
.CCOUPE = clast composition in sedimentary unit, clasts of recognizable map unit, Pelona-type schist, greenstone
.CCOUPS = clast composition in sedimentary unit, clasts of recognizable map unit, Pelona-type schist, grayschist
.CCOUT = clast composition in sedimentary unit, clasts of recognizable map unit, Triassic megaporphyry

.CZO = geologic age, Cenozoic
.CZOQ = geologic age, Cenozoic, Quaternary
.CZOQH = geologic age, Cenozoic, Quaternary, Holocene
.CZOQHD = geologic age, Cenozoic, Quaternary, Holocene, Modern
.CZOQHE = geologic age, Cenozoic, Quaternary, Holocene, early
.CZOQHL = geologic age, Cenozoic, Quaternary, Holocene, late
.CZOQHM = geologic age, Cenozoic, Quaternary, Holocene, middle
.CZOQP = geologic age, Cenozoic, Quaternary, Pleistocene
.CZOQPE = geologic age, Cenozoic, Quaternary, Pleistocene, early
.CZOQPL = geologic age, Cenozoic, Quaternary, Pleistocene, late
.CZOQPM = geologic age, Cenozoic, Quaternary, Pleistocene, middle
.CZOT = geologic age, Cenozoic, Tertiary
.CZOTM = geologic age, Cenozoic, Tertiary, Miocene
.CZOTML = geologic age, Cenozoic, Tertiary, Miocene, late
.CZOTP = geologic age, Cenozoic, Tertiary, Pliocene
.CZOTPL = geologic age, Cenozoic, Tertiary, Pliocene, late

.DAC = igneous rock, volcanic, dacite
.DEFH = rock deformed under high-strain conditions
.DEFP = rock deformed during pluton emplacement
.DIO = igneous rock, diorite
.DIOQ = igneous rock, diorite, quartz
.DMZOKL = deformation age, Cretaceous, late

.FLU = sedimentary rock, origin, fluvial deposit
.FSL = age based on fossils

.FSLC = age based on fossils, age certain

.GCO = sedimentary rock, grain composition, polygon contains information about
.GCOAM = sedimentary rock, grain composition, muscovite
.GCOF = sedimentary rock, grain composition, feldspar dominant
.GDR = igneous rock, granodiorite
.GDRD = igneous rock, granodiorite (deformed)
.GMD = age based on geomorphic development
.GMDC = age based on geomorphic development, age certain
.GMDU = age based on geomorphic development, age uncertain
.GRK = sedimentary rock, grainrock (grain-supported fabric)
.GRKC = sedimentary rock, grainrock, conglomerate
.GRKSS = sedimentary rock, grainrock, sandstone
.GRKSSC = sedimentary rock, grainrock, sandstone, conglomeratic
.GRKV = sedimentary rock, grainrock, various types occur in map unit
.GRN = igneous rock, granitic composition
.GRND = igneous rock, granitic composition, (deformed)
.GRNQD = igneous rock, granitic composition, quartz-deficient
.GRNQP = igneous rock, granitic composition, quartz-poor
.GRNQR = igneous rock, granitic composition, quartz-rich
.GRNQRD = igneous rock, granitic composition, quartz-rich (deformed)

.IAG = age based on isotopic data
.IAGC = age based on isotopic data, age certain
.IGN = igneous rock
.IGND = igneous rock (deformed)
.IGNI = igneous rock, intrusive
.IGNID = igneous rock, intrusive (deformed)
.IGNIH = igneous rock, intrusive, hypabyssal body
.IGNIHD = igneous rock, intrusive, hypabyssal body (deformed)
.IGNIHO = igneous rock, intrusive, hypabyssal body, stock
.IGNIHS = igneous rock, intrusive, hypabyssal body, sill
.IGNIP = igneous rock, intrusive, plutonic body
.IGNIPD = igneous rock, intrusive, plutonic body (deformed)
.IGNIPP = igneous rock, intrusive, plutonic body, pluton
.IGNIPPD = igneous rock, intrusive, plutonic body, pluton (deformed)
.IGNIVK = igneous rock, intrusive, volcanic feeder body, dike
.INCM = inclusions, mafic, in igneous rock
.INR = age based on intrusive relations
.INRC = age based on intrusive relations, age certain
.INRU = age based on intrusive relations, age uncertain
.INS = sedimentary rock, siliciclastic rock interbedded with non-siliciclastic rock
.ISO = isotopic age, polygon contains information about
.ISOAO = isotopic age, determination from outside map area
.ISOE = isotopic age is emplacement age
.ISOUP = isotopic age, U-Pb determination
.ISOUPI = isotopic age, U-Pb determination is isochron age
.ISOUPZ = isotopic age, U-Pb determination from zircon

.LAC = sedimentary rock, origin, lake deposit
.LMAB = geologic-age subdivision, land-mammal age, Blancan
.LMAI = geologic-age subdivision, land-mammal age, Irvingtonian

.MET = metamorphic rock
.METR = metamorphic rock, origin, regional dynamothermal
.METS = metamorphic rock, origin, strain dominant
.MGM = sedimentary rock, mudrock & grainrock, mixed
.MGMGD = sedimentary rock, mudrock & grainrock, mixed, grainrock dominant
.MGMMD = sedimentary rock, mudrock & grainrock, mixed, mudrock dominant
.MGR = igneous rock, monzogranite
.MGRD = igneous rock, monzogranite (deformed)
.MIG = metamorphic rock, metaigneous
.MIGE = metamorphic rock, metaigneous, greenstone
.MIGVM = metamorphic rock, metaigneous, metavolcanic
.MMG = metamorphic rock, generic
.MMGG = metamorphic rock, generic, gneiss
.MMZO = age of metamorphism Mesozoic
.MMZOK = age of metamorphism Mesozoic, Cretaceous
.MMZOKL = age of metamorphism Mesozoic, Cretaceous, late
.MRK = sedimentary rock, mud-supported
.MRKM = sedimentary rock, mud-supported, mudstone
.MSD = metamorphic rock, metasedimentary
.MSDS = metamorphic rock, metasedimentary, schist
.MSDWM = metamorphic rock, metasedimentary, metagraywacke
.MTM = sedimentary origin, mountain-margin geographic setting
.MXS = sedimentary rock, matrix-supported
.MXSC = sedimentary rock, matrix-supported, conglomerate
.MZNQ = igneous rock, monzonite, quartz-bearing
.MZO = geologic age, Mesozoic
.MZOJ = geologic age, Mesozoic, Jurassic
.MZOK = geologic age, Mesozoic, Cretaceous
.MZOKL = geologic age, Mesozoic, Cretaceous, late
.MZOT = geologic age, Mesozoic, Triassic

.NMA = sedimentary origin, nonmarine

.PAF = provincial affinity, polygon contains information about
.PAFG = provincial affinity, rock has affinities with San Gabriel Mountains
.PAFM = provincial affinity, rock has affinities with Mojave Desert
.PAFML = provincial affinity, rock has affinities with Mojave Desert, Little San Bernardino Mts
.PAFP = provincial affinity, rock has affinities with Peninsular Ranges
.PLI = metamorphic rock, protolith, polygon contains information about
.PLII = metamorphic rock, protolith igneous
.PLIIV = metamorphic rock, protolith igneous, volcanic
.PLIS = metamorphic rock, protolith sedimentary
.PLISM = metamorphic rock, protolith sedimentary, marine
.PMC = geologic-age subdivision, magnetic chron, polygon contains information about
.PMC01 = geologic-age subdivision, magnetic chron C1
.PMC02 = geologic-age subdivision, magnetic chron C2
.PMG = age based on paleomagnetism
.PMGC = age based on paleomagnetism, age certain
.PRC = geologic age, Precambrian
.PRCP = geologic age, Precambrian, Proterozoic
.PZO = geologic age, Paleozoic

.RCO = age based on regional correlation
.RCOC = age based on regional correlation, age certain
.RCOU = age based on regional correlation, age uncertain
.RSC = classification of map unit, polygon contains information about
.RSCB = classification of map unit, bedrock
.RSCBF = classification of map unit, bedrock, formal
.RSCBFF = classification of map unit, bedrock, formal, Formation-rank
.RSCBFFM = classification of map unit, bedrock, formal, metamorphic Formation
.RSCBI = classification of map unit, bedrock, informal
.RSCBIF = classification of map unit, bedrock, informal, formation rank
.RSCBIFM = classification of map unit, bedrock, informal, formation rank, metamorphic
.RSCBIFP = classification of map unit, bedrock, informal, formation rank, plutonic
.RSCBIFS = classification of map unit, bedrock, informal, formation rank, sedimentary
.RSCBIFSM = classification of map unit, bedrock, informal, formation rank, sedimentary, member of formation
.RSCBIFV = classification of map unit, bedrock, informal, formation rank, volcanic formation
.RSCS = classification of map unit, surficial
.RSCSI = classification of map unit, surficial, informal
.RSCSIA = classification of map unit, surficial, informal, alluvial unit
.RSCSIAF = classification of map unit, surficial, informal, alluvial unit, alluvial-fan deposit
.RSCSIAFM = classification of map unit, surficial, informal, alluvial unit, alluvial-fan deposit, very young
.RSCSIAFO = classification of map unit, surficial, informal, alluvial unit, alluvial-fan deposit, old
.RSCSIAFV = classification of map unit, surficial, informal, alluvial unit, alluvial-fan deposit, very old
.RSCSIAFY = classification of map unit, surficial, informal, alluvial unit, alluvial-fan deposit, young
.RSCSIAV = classification of map unit, surficial, informal, alluvial unit, alluvial-valley deposit
.RSCSIAVM = classification of map unit, surficial, informal, alluvial unit, alluvial-valley deposit, very young
.RSCSIAVO = classification of map unit, surficial, informal, alluvial unit, alluvial-valley deposit, old
.RSCSIAVV = classification of map unit, surficial, informal, alluvial unit, alluvial-valley deposit, very old
.RSCSIAVY = classification of map unit, surficial, informal, alluvial unit, alluvial-valley deposit, young
.RSCSIAW = classification of map unit, surficial, informal, alluvial unit, wash deposit
.RSCSIAWM = classification of map unit, surficial, informal, alluvial unit, wash deposit, very young
.RSCSIAWMA = classification of map unit, surficial, informal, alluvial unit, wash deposit, very young, active
.RSCSIAWMI = classification of map unit, surficial, informal, alluvial unit, wash deposit, very young, active intermittently
.RSCSIAWMO = classification of map unit, surficial, informal, alluvial unit, wash deposit, very young, older
.RSCSIH = classification of map unit, surficial, informal, hillslope unit
.RSCSIHC = classification of map unit, surficial, informal, hillslope unit, colluvial deposit
.RSCSIHCM = classification of map unit, surficial, informal, hillslope unit, colluvial deposit, very young
.RSCSIS = classification of map unit, surficial, informal, slope-failure unit
.RSCSISM = classification of map unit, surficial, informal, slope-failure unit, very young
.RSCSISO = classification of map unit, surficial, informal, slope-failure deposit, old
.RSCSISV = classification of map unit, surficial, informal, slope-failure deposit, very old
.RSCSISY = classification of map unit, surficial, informal, slope-failure deposit, young
.RSCSIU = classification of map unit, surficial, informal, undifferentiated deposit
.RSCSIUV = classification of map unit, surficial, informal, undifferentiated deposit, very old

.SAR = surficial deposit, surface armor, polygon contains information about
.SARN = surficial deposit, surface armor, no pavement

.SDI = surficial deposit, surface dissection, polygon contains information about
.SDIM = surficial deposit, surface dissection, moderate
.SDIMW = surficial deposit, surface dissection, moderate to well
.SDIN = surficial deposit, surface dissection, none
.SDINS = surficial deposit, surface dissection, none to slightly dissected
.SDIS = surficial deposit, surface dissection, slight
.SDIW = surficial deposit, surface dissection, strong
.SDR = strain-dominated rock
.SDRH = strain-dominated rock, high-strain
.SDRHC = strain-dominated rock, high-strain, cataclastic
.SDRHF = strain-dominated rock, high-strain, foliated
.SDRHG = strain-dominated rock, high-strain, gneissose
.SDRHM = strain-dominated rock, high-strain, mylonitic
.SED = sedimentary rock
.SEDS = sedimentary rock, siliciclastic
.SFE = igneous emplacement structure, polygon contains information about
.SFEI = igneous emplacement structure, inclusions
.SFEIR = igneous emplacement structure, inclusion-rich igneous rock
.SGD = surficial deposit, sand & gravel
.SGDG = surficial deposit, sand & gravel, gravel
.SGDGD = surficial deposit, sand & gravel, gravel dominant over sand
.SGDQ = surficial deposit, sand & gravel, sand and gravel subequal
.SGDS = surficial deposit, sand & gravel, sand
.SGDSD = surficial deposit, sand & gravel, sand dominant over gravel
.SMO = surficial deposit, surface morphology, polygon contains information about
.SMOD = surficial deposit, surface morphology largely degraded (surficial deposit)
.SMOP = surficial deposit, surface morphology largely preserved
.SMOPB = surficial deposit, surface morphology largely preserved, bar and swale
.SMOPC = surficial deposit, surface morphology largely preserved, anastomosing channels
.SMOPH = surficial deposit, surface morphology largely preserved, hummocky ground
.SMOPV = surficial deposit, surface morphology largely preserved, hillslope sediment veneer
.SOD = age based on pedogenic-soil development
.SODC = age based on pedogenic-soil development, age certain
.SODU = age based on pedogenic-soil development, age uncertain
.SRL = age based on stratigraphic relations
.SRLU = age based on stratigraphic relations, age uncertain
.SSO = soil, surface, polygon contains information about
.SSOAC = soil with A/C horizon (surficial unit capped by)
.SSOAW = soil with A horizon (surficial unit capped by)
.SSOB = soil with B horizon, cambic and (or) argillic (surficial unit capped by)
.SSOBC = soil with A/C/Bcambic horizon (surficial unit capped by)
.SSOBT = soil with Bt horizon (surficial unit capped by)
.SSOBTM = soil with moderate Bt horizon (surficial unit capped by)
.SSOBTS = soil with strong Bt horizon (surficial unit capped by)
.SSOD = soil, degraded (surficial unit capped by)
.SSOM = soil, moderate (surficial unit capped by)
.SSONC = soil, non-calcic (surficial unit capped by)
.SSOW = soil, weak (surficial unit capped by)
.SSOX = soil, no development (surficial unit capped by)
.SUR = surficial deposit
.SURA = surficial deposit, alluvial
.SURAA = surficial deposit, alluvial, alluvial-valley
.SURAF = surficial deposit, alluvial, alluvial-fan

.SURAU = surficial deposit, alluvial, unspecified
.SURAW = surficial deposit, alluvial, very young wash
.SURAWA = surficial deposit, alluvial, very young wash, active
.SURAWI = surficial deposit, alluvial, very young wash, intermittent
.SURAWO = surficial deposit, alluvial, very young wash, older
.SURH = surficial deposit, hillslope deposit
.SURHC = surficial deposit, hillslope deposit, colluvium
.SURS = surficial deposit, slope-failure
.SURSL = surficial deposit, slope-failure, landslide
.SURU = surficial deposit, unspecified
.SVR = surficial deposit, surface varnish, polygon contains information about
.SVRN = surficial deposit, surface varnish, none

.TON = igneous rock, tonalite
.TOND = igneous rock, tonalite (deformed)

.VOL = igneous rock, volcanic
.VOLQP = igneous rock, volcanic rock, composition quartz-poor
.VOLQR = igneous rock, volcanic rock, composition quartz-rich

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