Field Key to Calveg Alliances
North Interior - Zone 2

Revised March 3, 2010
Using plant codes from the NRCS Plants Database
Pseudospecies lists are used in accuracy assessment protocols

I. Key to Lifeforms

1A. If absolute canopy closure (cover) of trees (conifers and/or hardwoods) is ≥ 10% of plot or area...2
1B. If absolute canopy closure (cover) of trees is < 10% of plot or area ... 4

2A. **Tree Dominated Order**: if conifers have relative canopy cover > 80% of total tree canopy closure ... **conifer lifeform** and go to **II. Key to Conifers**
2B.**Tree Dominated Order:** if conifers have relative canopy cover ≤ 80% of total tree canopy closure..3

3A. If hardwoods have relative canopy cover > 90% of total tree canopy closure ... **hardwood lifeform** and go to **III. Key to Hardwoods**
3B. If hardwoods have relative canopy cover ≥ 20% of total tree canopy closure and conifers have relative canopy cover ≥ 10% of total tree canopy closure ... **mixed lifeform** and go to **II. Key to Conifers** for conifer component and **III. Key to Hardwoods** for hardwood component

4A. **Shrub Dominated Order**: if absolute cover of shrubs is ≥ 10% of plot or area ... **shrub lifeform** and go to **IV. Key to Shrubs and Subshrubs**
4B. If absolute cover of shrubs is < 10% of plot or area ... 5

5A. **Herbaceous or Non-Vascular Dominated Order:** if absolute cover of other vascular vegetation is ≥ 10% of plot or area ... **herbaceous lifeform** and go to **V. Key to Grasses and Forbs**
5B. If absolute cover of other vascular vegetation is < 10% of plot or area ... sparsely vegetated or non-vegetated lifeform and go to VI. Key to Sparsely Vegetated and Non-Vegetated Types

II. Key to Conifers

cc = conifer canopy cover

1A. One conifer species or genus has ≥ 50% conifer canopy cover (cc) ... 2
1B. No single conifer species or genus has ≥ 50% cc ... 25

2A. McNab Cypress **(CUMA)** has ≥ 50% cc ... **McNab Cypress - MN**
2B. Otherwise ... 3

3A. Red Fir in combination with White Fir **(PSEUDO3: ABMA, ABCO, ABSH)** has ≥ 75% cc and Red Fir > White Fir ... **Red Fir - RF**
3B. Otherwise ... 4

4A. White Fir in combination with Red Fir **(PSEUDO3: ABCO, ABMA, ABSH)** has ≥75% cc and White Fir > Red Fir ... **White Fir - WF**
4B. Otherwise ... 5

5A. Western Juniper **(JUOC)** has ≥75% cc ... **Western Juniper - WJ**
5B. Otherwise ... 6

6A. Ponderosa Pine has ≥75% cc [or Ponderosa Pine and Jeffrey Pine **(PSEUDO28: PIPO, PIJE)** in combination has ≥75% and Ponderosa Pine cover is > Jeffrey Pine] and Great Basin species (**PSEUDO4SHB:** Bitterbrush**,** Curlleaf Mountain Mahogany**,** Big, Big Basin, Mountain, Low, Black, Silver and Wyoming Sagebrush**,** Rabbitbrush, Yellow and Rubber Rabbitbrush, and/or Fragrant Snowberry)**. PSEUDO4SHB: PUTR2, PUGL2, ARTR2, ARTRT, ARTRV, ARVA2, ARAR8, ARNO4, ARCA13, ARTRW8, CHRYS9, CHVI8, CHNA2, ERNA10, SYLO** do not occur in understory ... **Ponderosa Pine - PP**
6B. Otherwise ... 7

7A. Ponderosa Pine has ≥75% cc (or Ponderosa Pine and Jeffrey Pine in combination **(PSEUDO28)** has ≥75% cc) and Great Basin species (**PSEUDO4SHB)** occur in understory ... **Eastside Pine - EP**
7B. Otherwise ... 8

8A. Jeffrey Pine has ≥75% cc (or Ponderosa Pine and Jeffrey Pine in combination (**PSEUDO28)** has ≥75% and Jeffrey Pine cover is > Ponderosa Pine) and Great Basin species (**PSEUDO4SHB)** do not occur in understory ... **Jeffrey Pine - JP**
8B. Otherwise ... 9

9A. Jeffrey Pine has ≥75% cc and Great Basin species (**PSEUDO4SHB)** occur in understory ... **Eastside Pine - EP**
9B. Otherwise ... 10

10A. Pacific Douglas-Fir **(PSME)** has ≥ 75% cc ... **Pacific Douglas-Fir - DF**
10B. Otherwise ... 11

11A. Whitebark Pine **(PIAL)** has ≥ 75% cc ... **Whitebark Pine - WB**
11B. Otherwise ... 12

12A. Mountain Hemlock **(TSME)** has ≥ 75% cc ... **Mountain Hemlock - MH**
12B. Otherwise ... 13

13A. Knobcone Pine **(PIAT)** has ≥ 75% cc ... **Knobcone Pine - KP**
13B. Otherwise ... 14

14A. Gray Pine **(PISA2)** has ≥ 75% ... **Gray Pine - PD**
14B. Otherwise ... 15

15A. Lodgepole Pine **(PICO)** has ≥ 75% cc ... **Lodgepole Pine - LP**
15B. Otherwise ... 16

16A. Western White Pine **(PIMO3**) has ≥ 75%cc ... **Western White Pine - WW**
16B. Not as above ... 17

17A. Incense Cedar **(CADE27)** Has ≥ 75%cc … **Incense Cedar - MD**
17B. Not as above ... 18

18A. Sugar Pine **(PILA)** has ≥ 75% cc … **Sugar Pine - PE**
18B. Not as above ... 19

19A. Washoe Pine **(PIWA)** has ≥ 75% cc ... **Washoe Pine - WP**
19B. Otherwise ... 20

20A. Baker or Modoc Cypress (**CUBA**) has ≥ 50% cc … **Baker Cypress - MO**
20B. Otherwise … 21

REM: This starts the ≥ 50% and < 75% two-conifer groups

21A. Douglas-Fir **(PSME)** has ≥ 50% cc; Ponderosa Pine **(PIPO)** has ≥ 20% cc ... **Douglas-Fir - Pine - DP**
21B. Otherwise ... 22

22A. Douglas-Fir **(PSME)** has ≥ 50% cc; White Fir **(ABCO)** has ≥ 20% cc ... **Douglas-Fir - White Fir - DW**
22B. Otherwise ... 23

23A**.** Ponderosa Pine **(PIPO)** has ≥ 50% cc; White Fir **(ABCO)** has ≥ 20% cc ... **Ponderosa Pine - White Fir - PW**
23B. Otherwise ... 24

24A. Western Juniper has ≥ 50% cc and either Ponderosa Pine or Jeffrey Pine **(PSEUDO28**) has ≥ 25% cc and their combination (**PSEUDO34**: **JUOC, PIPO, PIJE**) has ≥ 75% cc … **Yellow Pine - Western Juniper - JJ**
24B. Not as above ... 25

REM: The following are mixed conifer types with no single dominant species

25A. Western Juniper **(JUOC**) has ≥ 25% cc and either Ponderosa Pine and/or Jeffrey Pine **(PSEUDO28**) has ≥ 25% cc and their combination (**PSEUDO34**) has ≥ 75% cc … **Yellow Pine - Western Juniper - JJ**
25B. Not as above ... 26

26A. Any of these species are present in any combination: Mountain Hemlock**,** Foxtail Pine**,** Western White Pine**,** Whitebark Pine (**PSEUDO7: TSME, PIBA, PIMO3, PIAL)** ... **Subalpine Conifers - SA**
26B. Otherwise ... 27

27A. White Fir and/or Red Fir **(PSEUDO3: ABCO, ABMA)** species singly or combined have ≥ 30% cc and Jeffrey Pine (**PIJE**) is often present ... **Mixed Conifer - Fir - MF**
27B. Otherwise ... 28

28A. Ponderosa Pine and/or Sugar Pine **(PSEUDO27: PIPO, PILA)** in combination have ≥ 10% cc ... **Mixed Conifer - Pine - MP**
28B. Otherwise ... 29

29A. Any of these species are present in any combination on serpentine soils: Lodgepole Pine**,** McNab Cypress**,** Sargent Cypress**,** Gray Pine and/or Western White Pine (**PSEUDO6: PICO, CUMA, CUSA3, PISA2, PIMO3)**; elevation is usually under 5000 ft (1525 m) ... **Ultramafic Mixed Conifer - MU**
29B. Otherwise ... 30

30A. Non-native ornamental conifers alone or in combination have ≥ 50% cc ... **Non-Native/Ornamental Conifers - IC**
30B. Otherwise ... 31

31A. Hardwoods have ≥ 20% of total plot cover. Non-native/ornamental conifer mixture is ≥50% cc and non-native hardwood mixture is ≥ 50% of hardwood canopy cover ... **Non-Native/Ornamental Conifer - Hardwood - IM**
31B. Otherwise ... 32

32A. Single or multiple species of conifers on agricultural sites have ≥ 50% cc and agricultural hardwoods have ≥ 20% total tree canopy cover … **Agricultural Nurseries - A8**
32 B. Not as above ... 33

33A. Single or multiple species of conifers on agricultural sites have ≥ 50% cc and agricultural hardwoods have < 20% total tree canopy cover … **Conifer Agriculture - A1**
33B. Not as above ... 34

34. Conifer type not determined ... XC

III. Key to Hardwoods

hc = hardwood canopy cover

1A. One hardwood species (or genus) has ≥ 50% hc ... 2
1B. No single hardwood species (or genus) has ≥ 50% hc ... 14

2A. Tanoak **(LIDE3)** has ≥ 50% hc ... **Tanoak - QT**
2B. Otherwise ... 3

3A. Any species of Willow alone or in combination **(SALIX,** etc**.)** has ≥ 50% hc ... **Willow - QO**
3B. Otherwise ... 4

4A. White Alder **(ALRH2)** has ≥ 50% hc ... **White Alder - QE**
4B. Otherwise ... 5

5A. Quaking Aspen **(POTR5)** has ≥ 50% hc ... **Aspen - QQ**
5B. Otherwise ... 6

6A. Bigleaf Maple **(ACMA3)** has ≥ 50% hc ... **Bigleaf Maple - QM**
6B. Otherwise ... 7

7A**.** Black Oak **(QUKE)** has ≥ 50% hc ... **Black Oak - QK**
7B. Otherwise ... 8

8A. Oregon White Oak **(QUGA4)** has ≥ 50% hc ... **Oregon White Oak - QG**
8B. Otherwise ... 9

9A. Blue Oak **(QUDO)** has ≥ 50% hc ... **Blue Oak - QD**
9B. Otherwise ... 10

10A. Canyon Live Oak **(QUCH2)** has ≥ 50% hc ... **Canyon Live Oak - QC**
10B. Otherwise ... 11

11A. Interior Live Oak **(QUWI2)** has ≥ 50% hc ... **Interior Live Oak - QW**
11B. Otherwise ... 12

12B. Curlleaf Mountain Mahogany **(CELE3** -- tree form**)** has ≥ 50% … **Curlleaf Mountain Mahogany - FM**
12B. Not as above ... 13

13A. Black Cottonwood **(POTR15**) has ≥ 50% hc ... **Black Cottonwood - QX**
13B. Not as above ... 14

REM: no genus or species is dominant in hardwood canopy in following groups

14A. Combination of Tanoak and Madrone **(PSEUDO9: LIDE3, ARME)** has ≥ 50% hc ... **Tanoak (Madrone) - QT**
14B. Otherwise ... 15

15A. Black and/or Fremont Cottonwood **(PSEUDO12: POTR15, POFR2)** and White and/or Mountain Alder are present **(PSEUDO13: ALRH2, ALTE2)** ... **Cottonwood - Alder - QJ**
15B. Otherwise ... 16

16A. Any species of Willow **(SALIX)** in combination with White and/or Mountain Alder **(PSEUDO13: ALRH2, ALTE2)** are present ... **Willow - Alder - QY**
16B. Otherwise ... 17

17A. Quaking Aspen and any tree species of Willow are present and in combination (**PSEUDO36: POTR5, SALIX**) have ≥ 50% hardwood cover ... **Willow-Aspen - QS**
17B. Not as above ... 18

18 A. A mixture of riparian hardwoods, including Fremont and Black Cottonwoods, Tree Willows, Unknown, White and/or Mountain Alders, and Aspen in combination have ≥ 50% hc **(PSEUDO33: POFR2, POTR15, SALIX, ALNUS, ALRH2, ALTE2, POTR5)** … **Riparian Mixed Hardwoods - NR**
18 B. Otherwise ... 19

19A. A mixture of hardwoods on productive sites, including Black Oak, Madrone, Tanoak, Bigleaf Maple and Tree Chinquapin in combination have ≥ 50% hc **(PSEUDO30: QUKE, ARME, LIDE3, ACMA3, CACH6, CHCH7)** ... **Montane Mixed Hardwoods - TX**
19B. Otherwise … 20

20 A. A mixture of hardwoods on non-productive sites, including Canyon Live Oak, Interior Live Oak, Oregon White Oak, Valley Oak California Buckeye and Blue Oak in combination have ≥ 50% hc

(PSEUDO32: QUCH2, QUWI2, QUGA4, QULO, AECA, QUDO) ... **Interior Mixed Hardwoods - NX**
20 B. Otherwise ... 21

21A. Agricultural lands have ≥ 50% hc ... **Orchard Agriculture - A4**
21B. Otherwise ... 22

22A. Non-native hardwoods alone or in combination have ≥ 50% hc ... **Non-Native/Ornamental Hardwood - IH**
22B. Otherwise … 23

23. Unknown Hardwood Type ... XH

IV. Key to Shrubs and Subshrubs

sc = shrub canopy cover

1A. Combination of shrub and dwarf shrub species occurring above treeline and usually above 8500 ft (2600 m) ... **Mixed Alpine Scrub - AX**
1B. Otherwise ... 2

2A. Curlleaf Mountain Mahogany **(CELE3)** has ≥ 50% sc ... **Curlleaf Mountain Mahogany - BM**
2B. Otherwise ... 3

3A. Big Sagebrush **(PSEUDO16: ARTR2)** has ≥ 50% sc ... **Big Sagebrush - BS**
3B. Otherwise ... 4

4A. Bitterbrush (PSEUDO44: PUTR2, PUGL2) has ≥ 50% sc ... Bitterbrush - BB
4B. Otherwise ... 5

5A. Low Sagebrush (PSEUDO17: ARAR8, ARARA, ARARN2) has ≥ 50% sc ... Low Sagebrush - BL
5B. Otherwise ... 6

6A. Any species of Rabbitbrush **(PSEUDO29: CHNA2, CHRYS9**, **CHVI8**, etc.**)** alone or in combination has ≥ 50% sc ... **Rabbitbrush - BR**
6B. Otherwise ... 7

7A**.** Whiteleaf Manzanita **(ARVI4)** has ≥ 50% sc ... **Whiteleaf Manzanita - CW**
7B. Otherwise ... 8

8A. Greenleaf Manzanita **(ARPA6)** has ≥ 50% sc ... **Greenleaf Manzanita - CG**
8B. Otherwise ... 9

9A. Pinemat Manzanita **(ARNE)** has ≥ 50% sc ... **Pinemat Manzanita - CN**
9B. Otherwise ... 10

10A. Huckleberry Oak **(QUVA)** has ≥ 50% sc ... **Huckleberry Oak - CH**
10B. Otherwise ... 11

11A. Wedgeleaf Ceanothus **(CECU)** has ≥ 50% sc ... **Wedgeleaf Ceanothus - CL**
11B. Otherwise ... 12

12A. Birchleaf Mountain Mahogany (PSEUDO38: CEBE3, CEMO2, CEMOG) has ≥ 50% sc … Birchleaf Mountain Mahogany - WM
12B. Otherwise ... 13

13A. Mountain Sagebrush (PSEUDO39: ARTRV, ARTRV2, ARVA2) has ≥ 50% sc … Mountain Sagebrush - TV
13B. Not as above ... 14

14A. Big Basin Sagebrush **(ARTRT)** has ≥ 50% sc … **Big Basin Sagebrush - TT**
14B. Not as above ... 15

15A. Silver Sagebrush (PSEUDO51: ARCA13) has ≥ 50% sc … Silver Sagebrush - TU
15B. Not as above ... 16

16A. Snowbrush **(CEVE)** has ≥ 50% sc … **Snowbush - CV**
16B. Not as above ... 17

17A. Bush Chinquapin (PSEUDO46: CHSE11) has ≥ 50% sc … Bush Chinquapin - CP
17B. Not as above ... 18

18A. Brewer Oak **(QUGAB)** has ≥ 50% sc … **Brewer Oak - CJ**
18B. Not as above ... 19

19A**.** Mountain Whitethorn **(CECO**) has ≥ 50% sc … **Mountain Whitethorn - CY**
19B. Not as above ... 20

20A. Shrub Willow of any species (PSEUDO49: SALIX, SAEX, SASC, SALU, SALU2) has ≥ 50% sc … Willow (shrub) - WL
20B. Not as above ... 21

21A. Mountain Alder (**ALTE2**) has ≥ 50% sc ... **Mountain Alder - TA**
21B. Not as above ... 22

22A. Snowberry of any species (**PSEUDO50**: **SYMPH, SYMO, SYRO**) has ≥ 50% sc … **Snowberry - TS**
22B. Not as above ... 23

23A. Greasewood (**SAVE4**) has ≥ 50% sc … **Greasewood - BG**
23B. Not as above … 24

24A. Quaking Aspen, shrub form (**POTR5**) has ≥ 50% sc … **Quaking Aspen - KQ**
24B. Not as above … 25

25A. Wyoming Sagebrush (**PSEUDO52**: **ARTRW, ARTRW8**) has ≥ 50% sc … **Wyoming Sagebrush - TW**
25B. Not as above … 26

REM: Mixed species types

26A. Any species of Ceanothus alone, including non-dominant Wedgeleaf, or in combination has ≥ 50% sc (PSEUDO20: CEANO, CECO, CECU, CEDI2,, CEIN, CEIN3, CELE2, CEPR, CEPU, CESA, CESO, CETH, CEVE) ... Ceanothus Chaparral - CC
26B. Otherwise ... 27

27A. Any species of scrubby oaks alone or in combination of the following have ≥ 50% sc: Unknown Shrub Oak**,** Shrub Canyon Live Oak, Huckleberry Oak, Shrub Oregon White or Brewer Oak, and/or Shrub Black Oak **(PSEUDO21: QUERC, QUCHN, QUVA, QUGAB, QUKE)** ... **Scrub Oak - CS**
27B. Otherwise ... 28

28A. Riparian shrub species such as Shrub Willows, Elderberry, Whitestem Gooseberry, etc. in combination have ≥ 50% **(PSEUDO43: SALIX, SABR, SAEX, SALA6, SALU, SALU2, SANIC4, RIIN2)** … **Riparian Mixed Shrub - NM**
28 B. Not as above ... 29

29A. Bitterbrush (PSEUDO44: PUGL2, PUTR2) and any species of Sagebrush (PSEUDO41: ARTR2, ARTRV, ARTRT, ARAR8, ARNO4, ARCA13, ARTRW, ARTRW8, ARVA2, ARTR, ARTEM) in combination have ≥ 50% sc, with Bitterbrush having ≥ 25% sc … Bitterbrush - Sagebrush - TB
29 B. Not as above ... 30

30**A.** Great Basin shrubs **[PSEUDO42: PSEUDO4SHB** and/or Fragrant Snowberry **(SYLO)** and/or Desert Peach **(PRAN2)]** in mixture have ≥ 50% … **Great Basin Mixed Scrub - BQ**
30B. Not as above ... 31

31A. Any combination of montane or upper montane mixed chaparral species such as Greenleaf and/or Pinemat Manzanita, Mountain Whitethorn, Bush Chinquapin, Deerbrush, Mahala Mat, Sierra Gooseberry, Sticky Currant, Snowbrush, Fremont Silktassel, Bitter Cherry, Klamath Plum, Western Chokecherry, Cascara, Sierra Coffeeberry, Creeping Snowberry, and/or Mountain or Roundleaf Snowberry **(PSEUDO24: ARPA6**, **ARNE, CECO, CHSE11, CEIN3, CEPR, RIRO, RIVI3, CEVE, GAFR, PREM, PRSU2, PRVID, RHPU, RHRU, SYMO, SYRO, SYROR)** having ≥ 25% sc and Great Basin species (**PSEUDO42)** having ≥ 25% sc … **Great Basin - Mixed Chaparral Transition - BX**
31B. Otherwise… 32

32A. Any of the following non-dominant species in combination have ≥ 20% sc: Wedgeleaf Ceanothus, Whiteleaf Manzanita, Birchleaf Mountain Mahogany, Pine Mat Ceanothus, and/or Hollyleaf Redberry (**PSEUDO23: CECU, ARVI4, CEBE3, CEPU, RHCRI2)** ... **Lower Montane Mixed Chaparral - CQ**
32B. Otherwise ... 33

33A. Any combination of two or more higher elevation shrub species (**PSEUDO24)** have ≥ 20% sc ... **Upper Montane Mixed Chaparral - CX**
33B. Otherwise ... 34

34A. Elevation < 5000 ft (1525 m), and any of the following in combination on serpentine rocks have ≥ 20% sc: Hollyleaved Barberry, Wedgeleaf Ceanothus, Whiteleaf Manzanita, Huckleberry Oak, Siskiyou Mat (**PSEUDO25: BEAQ, BEPI2, CECU, ARVI4, QUVA, CEPU)** ... **Ultramafic Mixed Chaparral - C1**
34B. Otherwise ... 35

35A. Elevation ≥ 5000 ft (1525 m); any of the following alone or in combination have ≥ 20% sc: Bush Chinquapin, Pinemat Manzanita, Bitter Cherry (**PSEUDO26: CHSE11, ARNE, PREM)** ... **Upper Montane Mixed Shrub - CM**
35B. Otherwise ... 36

36A. Non-native, invasive or ornamental cultivated shrubs have ≥ 50% sc ... **Non-Native/Ornamental Shub - IS**
36 B. Otherwise ... 37

37A. Agricultural lands have ≥ 50% sc ... **Vineyard - Shrub Agriculture - A2**
37B. Otherwise … Unknown Shrub Type ... XS

V. Key to Grasses and Forbs

hg = herbaceous/grass canopy cover

1A. Mixture of low-growing herbaceous plants and grasses growing in alpine and subalpine areas above 7900 ft (2400 m) … **Alpine Grasses and Forbs - AC**
1B. Not as above … 2

2A. Native grasses such as Ashy Ryegrass (**LECI4**), Alkali Sacaton (**SPAI**), Saltgrass (**DISP**), One-sided Bluegrass (**POSE**), and non-native forbs such as Herb Sophia (**DESO2**), and Halogeton (**HAGL**) occur in alkaline or saline flats ... **Alkaline Mixed Grasses and Forbs - HA**
2B. Not as above … 3

3A. Annual grasses (such as Cheatgrass**, BRTE)** mixed with other grasses and/or forbs which generally have limited surface or subsurface moisture in midsummer having ≥ 50% hg ... **Annual Grasses and Forbs - HG**
3B. Not as above ... 4

4A. Hydrophytic grasses and grass-like species [Sedges (**CAREX**), Rushes (**JUNCU**), Spikerushes (**ELEOC**), etc.] in mixture with hydrophytic herbaceous species [False Hellebore (**VERAT**), Lily (**LILIU**), Shooting Star (**DODEC**), Gentian (**GENTI**), etc.] growing mainly in organic soil have ≥ 50% hg ... **Wet Meadow - HJ**
4B. Otherwise ... 5

5A. Unmanaged or natural areas containing mixtures of grasses and/or forbs that retain some moisture in midsummer, such as those in middle or higher elevations having ≥-50% hg ... **Perennial Grasses and Forbs - HM**
5B. Otherwise ... 6

6A. Marshes adjacent to perennial fresh water sources containing mixtures of Tule (**SCACO2**) or other Bulrushes (**SCIRP**), Spikerushes (**ELEOC**) and Cattails (**TYPHA**) rooting below the water's surface have ≥ 50% hg ... **Tule - Cattail - HT**
6B. Otherwise… 7

7A. Agricultural lands have ≥ 50% hg in row crops and are not usually flooded during most of the growing season … **Pastures and Crop Agriculture - A6**

7B. Not as above … 8

8A. Agricultural lands have ≥ 50% hg in row crops and are usually flooded during most of the growing season … **Flooded Row Crop Agriculture - A5**
8B. Not as above … 9

9A. Non-native herbaceous species, either planted or invasive, have 50% hg … Non-Native/Invasive Forb Grasses - IF
9B. Not as above … 10

10A. Non-native cultivated grasses have ≥ 50% hg … **Non-Native/Ornamental Grass - IG**
10B. Not as above … 11

11A. Unknown dry grasses and forbs have ≥ 50% hg … **Unknown Grasses and Forbs - XG (dry)**
11B. Unknown wet or moist grasses and forbs have ≥ 50% hg ... **Unknown Grasses and Forbs - XJ (wet)**

VI. Key to Sparsely Vegetated and Non-Vegetated Types

nvc = non-vegetated cover

1A. Dry urbanized or developed lands have ≥ 50% nvc … **Urban-related Bare Soil - IB**
1B. Not as above ... 2

2A. Dry agricultural lands have ≥ 50% nvc … **Tilled Earth Agriculture - A3**
2B. Not as above ... 3

3A. Wet agricultural lands have ≥ 50% nvc … Agricultural Ponds or Surface Water Features - A7
3B. Not as above ... 4

4A. Wet urbanized or developed lands have ≥ 50% nvc ... **Developed Water Features - IW**
4B. Not as above ... 5

5A. Other agricultural uses comprise ≥ 50% nvc ... **Agriculture - AG**
5B. Otherwise ... 6

6A. Snow or ice fields at the highest elevations comprise ≥ 50% nvc ... **Snow/Ice - SN**
6B. Otherwise ... 7

7A. Other urban or otherwise developed landscapes (highways, etc.) have ≥ 50% nvc ... **Urban or Developed - UB**
7B. Otherwise ... 8

8A. Open water or confined water courses occupy ≥ 50% nvc ... **Water - WA**
8B. Otherwise ... 9

9A. Playas, dry alkaline lake beds and other alkaline flats occupy ≥ 50% nvc ... **Alkaline Flats - AK**
9B. Otherwise … 10

10A. Otherwise naturally barren landscapes (cliffs, bedrock, etc.) occupy ≥ 50% nvc ... **Barren - BA**
10B. Otherwise … Unknown Non-vegetated - XZ