Domain Name:domain\_ordering

| **Sequence** | **Obsolete?** | **ID** | **Data Entry Text** | **Label Text** | **Choice\_Description** |
| --- | --- | --- | --- | --- | --- |
| 1 | 0 | 1 | choice | Choice | No description available. |
| 2 | 0 | 3 | explicit | Explicit | No description available. |

Domain Name:horizontal\_datum\_name

| **Sequence** | **Obsolete?** | **ID** | **Data Entry Text** | **Label Text** | **Choice\_Description** |
| --- | --- | --- | --- | --- | --- |
| 1 | 0 | 4 | american samoa 1962 | American Samoa 1962 | No description available. |
| 2 | 0 | 5 | astro beacon e 1945 | Astro Beacon "E" 1945 | No description available. |
| 3 | 0 | 6 | astro tern island frig | Astro Tern Island (FRIG) | No description available. |
| 4 | 0 | 7 | astronomical station 1952 | Astronomical Station 1952 | No description available. |
| 5 | 0 | 8 | bellevue ign | Bellevue (IGN) | No description available. |
| 6 | 0 | 9 | canton astro 1966 | Canton Astro 1966 | No description available. |
| 7 | 0 | 10 | chatham island astro 1971 | Chatham Island Astro 1971 | No description available. |
| 8 | 0 | 11 | dos 1968 | DOS 1968 | No description available. |
| 9 | 0 | 12 | easter island 1967 | Easter Island 1967 | No description available. |
| 10 | 0 | 13 | geodetic datum 1949 | Geodetic Datum 1949 | No description available. |
| 11 | 0 | 14 | guam 1963 | Guam 1963 | No description available. |
| 12 | 0 | 15 | gux 1 astro | Gux 1 Astro | No description available. |
| 13 | 0 | 16 | johnston island 1961 | Johnston Island 1961 | No description available. |
| 14 | 0 | 17 | kusaie astro 1951 | Kusaie Astro 1951 | No description available. |
| 15 | 0 | 18 | luzon | Luzon | No description available. |
| 16 | 0 | 19 | midway astro 1961 | Midway Astro 1961 | No description available. |
| 17 | 0 | 1 | NAD27 | North American Datum of 1927 | North American Datum of 1927. |
| 18 | 0 | 2 | NAD83 | North American Datum of 1983 | North American Datum of 1983. |
| 19 | 0 | 3 | old hawaiian | Old Hawaiian | No description available. |
| 20 | 0 | 20 | pitcairn astro 1967 | Pitcairn Astro 1967 | No description available. |
| 21 | 0 | 21 | santo dos 1965 | Santo (DOS) 1965 | No description available. |
| 22 | 0 | 22 | viti levu 1916 | Viti Levu 1916 | No description available. |
| 23 | 0 | 24 | wake island astro 1952 | Wake Island Astro 1952 | No description available. |
| 24 | 0 | 23 | wake-eniwetok 1960 | Wake-Eniwetok 1960 | No description available. |
| 25 | 0 | 25 | WGS84 | World Geodetic System 1984 | No description available. |

Domain Name:horz\_desgn\_master

| **Sequence** | **Obsolete?** | **ID** | **Data Entry Text** | **Label Text** | **Choice\_Description** |
| --- | --- | --- | --- | --- | --- |
| 1 | 0 | 1 | O | O | Layers dominated by organic material. Some are saturated with water for long periods, or were once saturated but are now artificially drained; others have never been saturated. |
| 2 | 0 | 2 | A | A | Mineral horizons which have formed at the surface or below an O horizon; they exhibit obliteration of all or much of the original rock structure and show one or both of the following: (1) an accumulation of humified organic closely mixed with the mineral fraction and not dominated by properties characteristic of E or B horizons, or (2) properties resulting from cultivation, pasturing, or similar kinds of disturbance. |
| 3 | 0 | 3 | E | E | Mineral horizons in which the main feature is loss of silicate clay, iron, or aluminum, or some combination of these, leaving a concentration of sand and silt particles. These horizons exhibit obliteration of all or much of the original rock structure. |
| 4 | 0 | 4 | B | B | Horizons which have formed below an A, E, or O horizon. They are dominated by the obliteration of all or much of the original rock structure and show one or more of the following: 1. Illuvial concentration of silicate clay, iron, aluminum, humus, carbonates, gypsum, or silica, alone or in combination; 2. Evidence of the removal or addition of carbonates; 3. Residual concentration of oxides; 4. Coatings of sesquioxides that make the horizon conspicuously lower in color value, higher in chroma, or redder in hue, without apparent illuviation of iron; 5. Alteration that forms silicate clay or liberates oxides, or both, and that forms a granular, blocky, or prismatic structure if volume changes accompany changes in moisture content; 6. Brittleness; or 7. Strong gleying. |
| 5 | 0 | 5 | C | C | Horizons or layers, excluding hard bedrock, that are little affected by pedogenic processes and lack the properties of O, A, E, or B horizons. Most are mineral layers. The material of C layers may be either like or unlike the material from which the solum has presumably formed. The C horizon may have been modified, even if there is no evidence of pedogenesis. |
| 6 | 0 | 6 | R | R | Strongly cemented to indurated bedrock. |
| 7 | 0 | 7 | AB | AB | Horizons dominated by properties of one master horizon but having subordinate properties of another. The first of these symbols indicates that the properties of the horizon so designated dominate the transitional horizon. An AB horizon, for example, has characteristics of both an overlying A horizon and an underlying B horizon, but it is more like the A than like the B. |
| 8 | 0 | 8 | AE | AE | Horizons dominated by properties of one master horizon but having subordinate properties of another. The first of these symbols indicates that the properties of the horizon so designated dominate the transitional horizon. An AB horizon, for example, has characteristics of both an overlying A horizon and an underlying B horizon, but it is more like the A than like the B. |
| 9 | 0 | 9 | AC | AC | Horizons dominated by properties of one master horizon but having subordinate properties of another. The first of these symbols indicates that the properties of the horizon so designated dominate the transitional horizon. An AB horizon, for example, has characteristics of both an overlying A horizon and an underlying B horizon, but it is more like the A than like the B. |
| 10 | 0 | 10 | EA | EA | Horizons dominated by properties of one master horizon but having subordinate properties of another. The first of these symbols indicates that the properties of the horizon so designated dominate the transitional horizon. An AB horizon, for example, has characteristics of both an overlying A horizon and an underlying B horizon, but it is more like the A than like the B. |
| 11 | 0 | 11 | EB | EB | Horizons dominated by properties of one master horizon but having subordinate properties of another. The first of these symbols indicates that the properties of the horizon so designated dominate the transitional horizon. An AB horizon, for example, has characteristics of both an overlying A horizon and an underlying B horizon, but it is more like the A than like the B. |
| 12 | 0 | 12 | BA | BA | Horizons dominated by properties of one master horizon but having subordinate properties of another. The first of these symbols indicates that the properties of the horizon so designated dominate the transitional horizon. An AB horizon, for example, has characteristics of both an overlying A horizon and an underlying B horizon, but it is more like the A than like the B. |
| 13 | 0 | 13 | BE | BE | Horizons dominated by properties of one master horizon but having subordinate properties of another. The first of these symbols indicates that the properties of the horizon so designated dominate the transitional horizon. An AB horizon, for example, has characteristics of both an overlying A horizon and an underlying B horizon, but it is more like the A than like the B. |
| 14 | 0 | 14 | BC | BC | Horizons dominated by properties of one master horizon but having subordinate properties of another. The first of these symbols indicates that the properties of the horizon so designated dominate the transitional horizon. An AB horizon, for example, has characteristics of both an overlying A horizon and an underlying B horizon, but it is more like the A than like the B. |
| 15 | 0 | 15 | CA | CA | Horizons dominated by properties of one master horizon but having subordinate properties of another. The first of these symbols indicates that the properties of the horizon so designated dominate the transitional horizon. An AB horizon, for example, has characteristics of both an overlying A horizon and an underlying B horizon, but it is more like the A than like the B. |
| 16 | 0 | 16 | CB | CB | Horizons dominated by properties of one master horizon but having subordinate properties of another. The first of these symbols indicates that the properties of the horizon so designated dominate the transitional horizon. An AB horizon, for example, has characteristics of both an overlying A horizon and an underlying B horizon, but it is more like the A than like the B. |
| 17 | 0 | 17 | A/E | A/E | Horizons with two distinct parts that have recognizable properties of the two kinds of master horizons indicated by the capital letters. Most of the individual parts of one horizon component are surrounded by the other. |
| 18 | 0 | 18 | A/B | A/B | Horizons with two distinct parts that have recognizable properties of the two kinds of master horizons indicated by the capital letters. Most of the individual parts of one horizon component are surrounded by the other. |
| 19 | 0 | 19 | A/C | A/C | Horizons with two distinct parts that have recognizable properties of the two kinds of master horizons indicated by the capital letters. Most of the individual parts of one horizon component are surrounded by the other. |
| 20 | 0 | 20 | E/A | E/A | Horizons with two distinct parts that have recognizable properties of the two kinds of master horizons indicated by the capital letters. Most of the individual parts of one horizon component are surrounded by the other. |
| 21 | 0 | 21 | E/B | E/B | Horizons with two distinct parts that have recognizable properties of the two kinds of master horizons indicated by the capital letters. Most of the individual parts of one horizon component are surrounded by the other. |
| 22 | 0 | 22 | B/A | B/A | Horizons with two distinct parts that have recognizable properties of the two kinds of master horizons indicated by the capital letters. Most of the individual parts of one horizon component are surrounded by the other. |
| 23 | 0 | 23 | B/E | B/E | Horizons with two distinct parts that have recognizable properties of the two kinds of master horizons indicated by the capital letters. Most of the individual parts of one horizon component are surrounded by the other. |
| 24 | 0 | 24 | B/C | B/C | Horizons with two distinct parts that have recognizable properties of the two kinds of master horizons indicated by the capital letters. Most of the individual parts of one horizon component are surrounded by the other. |
| 25 | 0 | 25 | C/A | C/A | Horizons with two distinct parts that have recognizable properties of the two kinds of master horizons indicated by the capital letters. Most of the individual parts of one horizon component are surrounded by the other. |
| 26 | 0 | 26 | C/B | C/B | Horizons with two distinct parts that have recognizable properties of the two kinds of master horizons indicated by the capital letters. Most of the individual parts of one horizon component are surrounded by the other. |
| 27 | 0 | 27 | E and B | E and B | Horizons that are composed of lamellae that are separated from each other by eluvial layers. |
| 28 | 1 | 28 | O' | O' | No description available. |
| 29 | 1 | 29 | A' | A' | No description available. |
| 30 | 1 | 30 | E' | E' | No description available. |
| 31 | 1 | 31 | B' | B' | No description available. |
| 32 | 1 | 32 | C' | C' | No description available. |
| 33 | 1 | 33 | O'' | O'' | No description available. |
| 34 | 1 | 34 | A'' | A'' | No description available. |
| 35 | 1 | 35 | E'' | E'' | No description available. |
| 36 | 1 | 36 | B'' | B'' | No description available. |
| 37 | 1 | 37 | C'' | C'' | No description available. |
| 38 | 1 | 38 | H | H | A horizon designation that will only be used for conversion from SSSD layers to NASIS horizons. This designation should never be used aside for this one purpose. |
| 39 | 0 | 39 | W | W | Water. This symbol indicates water layers within or beneath the soil. The water layer is designated as Wf if it is permanently frozen and as W if it is not permanently frozen. The W (or Wf) designation is not used for shallow water, ice, or snow above the soil surface. |
| 40 | 0 | 40 | L | L | Layers dominated by limnic material. Limnic horizons or layers include both organic and mineral limnic materials that were either (1) deposited in water by precipitation or through the actions of aquatic organisms, such as algae and diatoms, or (2) derived from underwater and floating aquatic plants and subsequently modified by aquatic animals. |
| 41 | 0 | 41 | EC | EC | No description available. |
| 42 | 0 | 42 | B and E | B and E | Horizons that are composed of lamellae that are separated from each other by eluvial layers. |
| 43 | 0 | 43 | M | M | Root-limiting, subsoil layers consisting of nearly continuous, horizontally oriented, human manufactured materials. Examples of materials designated by the letter M include geotextile liners, asphalt, concrete, rubber, and plastic. |
| 44 | 0 | 44 | ^O | ^O | The "caret" symbol (^) is used as a prefix to master horizon designations to indicate mineral or organic layers of human-transported material. This material has been moved horizontally onto a pedon from a source area outside of that pedon by directed human activity, usually with the aid of machinery. All horizons and layers formed in human-transported material are indicated by a "caret" prefix (e.g., ^A-^C-Ab-Btb). The "O" indicates layers dominated by organic material. Some are saturated with water for long periods, or were once saturated but are now artificially drained; others have never been saturated. |
| 45 | 0 | 45 | ^A | ^A | The "caret" symbol (^) is used as a prefix to master horizon designations to indicate mineral or organic layers of human-transported material. This material has been moved horizontally onto a pedon from a source area outside of that pedon by directed human activity, usually with the aid of machinery. All horizons and layers formed in human-transported material are indicated by a "caret" prefix (e.g., ^A-^C-Ab-Btb). The "A" is assigned to mineral horizons which have formed at the surface or below an O horizon; they exhibit obliteration of all or much of the original rock structure and show one or both of the following: (1) an accumulation of humified organic closely mixed with the mineral fraction and not dominated by properties characteristic of E or B horizons, or (2) properties resulting from cultivation, pasturing, or similar kinds of disturbance. |
| 46 | 0 | 46 | ^E | ^E | The "caret" symbol (^) is used as a prefix to master horizon designations to indicate mineral or organic layers of human-transported material. This material has been moved horizontally onto a pedon from a source area outside of that pedon by directed human activity, usually with the aid of machinery. All horizons and layers formed in human-transported material are indicated by a "caret" prefix (e.g., ^A-^C-Ab-Btb). The "E" is assigned to mineral horizons in which the main feature is loss of silicate clay, iron, or aluminum, or some combination of these, leaving a concentration of sand and silt particles. These horizons exhibit obliteration of all or much of the original rock structure. |
| 47 | 0 | 47 | ^B | ^B | The "caret" symbol (^) is used as a prefix to master horizon designations to indicate mineral or organic layers of human-transported material. This material has been moved horizontally onto a pedon from a source area outside of that pedon by directed human activity, usually with the aid of machinery. All horizons and layers formed in human-transported material are indicated by a "caret" prefix (e.g., ^A-^C-Ab-Btb). The "B" is assiged to horizons which have formed below an A, E, or O horizon. They are dominated by the obliteration of all or much of the original rock structure and show one or more of the following: 1. Illuvial concentration of silicate clay, iron, aluminum, humus, carbonates, gypsum, or silica, alone or in combination; 2. Evidence of the removal or addition of carbonates; 3. Residual concentration of oxides; 4. Coatings of sesquioxides that make the horizon conspicuously lower in color value, higher in chroma, or redder in hue, without apparent illuviation of iron; 5. Alteration that forms silicate clay or liberates oxides, or both, and that forms a granular, blocky, or prismatic structure if volume changes accompany changes in moisture content; 6. Brittleness; or 7. Strong gleying. |
| 48 | 0 | 48 | ^C | ^C | The "caret" symbol (^) is used as a prefix to master horizon designations to indicate mineral or organic layers of human-transported material. This material has been moved horizontally onto a pedon from a source area outside of that pedon by directed human activity, usually with the aid of machinery. All horizons and layers formed in human-transported material are indicated by a "caret" prefix (e.g., ^A-^C-Ab-Btb). The "C" is assigned to horizons or layers, excluding hard bedrock, that are little affected by pedogenic processes and lack the properties of O, A, E, or B horizons. Most are mineral layers. The material of C layers may be either like or unlike the material from which the solum has presumably formed. The C horizon may have been modified, even if there is no evidence of pedogenesis. |
| 49 | 0 | 49 | ^AB | ^AB | The "caret" symbol (^) is used as a prefix to master horizon designations to indicate mineral or organic layers of human-transported material. This material has been moved horizontally onto a pedon from a source area outside of that pedon by directed human activity, usually with the aid of machinery. All horizons and layers formed in human-transported material are indicated by a "caret" prefix (e.g., ^A-^C-Ab-Btb). |
| 50 | 0 | 50 | ^BA | ^BA | The "caret" symbol (^) is used as a prefix to master horizon designations to indicate mineral or organic layers of human-transported material. This material has been moved horizontally onto a pedon from a source area outside of that pedon by directed human activity, usually with the aid of machinery. All horizons and layers formed in human-transported material are indicated by a "caret" prefix (e.g., ^A-^C-Ab-Btb). |
| 51 | 0 | 51 | ^AE | ^AE | The "caret" symbol (^) is used as a prefix to master horizon designations to indicate mineral or organic layers of human-transported material. This material has been moved horizontally onto a pedon from a source area outside of that pedon by directed human activity, usually with the aid of machinery. All horizons and layers formed in human-transported material are indicated by a "caret" prefix (e.g., ^A-^C-Ab-Btb). |
| 52 | 0 | 52 | ^EA | ^EA | The "caret" symbol (^) is used as a prefix to master horizon designations to indicate mineral or organic layers of human-transported material. This material has been moved horizontally onto a pedon from a source area outside of that pedon by directed human activity, usually with the aid of machinery. All horizons and layers formed in human-transported material are indicated by a "caret" prefix (e.g., ^A-^C-Ab-Btb). |
| 53 | 0 | 53 | ^EB | ^EB | The "caret" symbol (^) is used as a prefix to master horizon designations to indicate mineral or organic layers of human-transported material. This material has been moved horizontally onto a pedon from a source area outside of that pedon by directed human activity, usually with the aid of machinery. All horizons and layers formed in human-transported material are indicated by a "caret" prefix (e.g., ^A-^C-Ab-Btb). |
| 54 | 0 | 54 | ^BE | ^BE | The "caret" symbol (^) is used as a prefix to master horizon designations to indicate mineral or organic layers of human-transported material. This material has been moved horizontally onto a pedon from a source area outside of that pedon by directed human activity, usually with the aid of machinery. All horizons and layers formed in human-transported material are indicated by a "caret" prefix (e.g., ^A-^C-Ab-Btb). |
| 55 | 0 | 55 | ^AC | ^AC | The "caret" symbol (^) is used as a prefix to master horizon designations to indicate mineral or organic layers of human-transported material. This material has been moved horizontally onto a pedon from a source area outside of that pedon by directed human activity, usually with the aid of machinery. All horizons and layers formed in human-transported material are indicated by a "caret" prefix (e.g., ^A-^C-Ab-Btb). |
| 56 | 0 | 56 | ^CA | ^CA | The "caret" symbol (^) is used as a prefix to master horizon designations to indicate mineral or organic layers of human-transported material. This material has been moved horizontally onto a pedon from a source area outside of that pedon by directed human activity, usually with the aid of machinery. All horizons and layers formed in human-transported material are indicated by a "caret" prefix (e.g., ^A-^C-Ab-Btb). |
| 57 | 0 | 57 | ^BC | ^BC | The "caret" symbol (^) is used as a prefix to master horizon designations to indicate mineral or organic layers of human-transported material. This material has been moved horizontally onto a pedon from a source area outside of that pedon by directed human activity, usually with the aid of machinery. All horizons and layers formed in human-transported material are indicated by a "caret" prefix (e.g., ^A-^C-Ab-Btb). |
| 58 | 0 | 58 | ^CB | ^CB | The "caret" symbol (^) is used as a prefix to master horizon designations to indicate mineral or organic layers of human-transported material. This material has been moved horizontally onto a pedon from a source area outside of that pedon by directed human activity, usually with the aid of machinery. All horizons and layers formed in human-transported material are indicated by a "caret" prefix (e.g., ^A-^C-Ab-Btb). |
| 59 | 0 | 59 | ^A/B | ^A/B | The "caret" symbol (^) is used as a prefix to master horizon designations to indicate mineral or organic layers of human-transported material. This material has been moved horizontally onto a pedon from a source area outside of that pedon by directed human activity, usually with the aid of machinery. All horizons and layers formed in human-transported material are indicated by a "caret" prefix (e.g., ^A-^C-Ab-Btb). |
| 60 | 0 | 60 | ^B/A | ^B/A | The "caret" symbol (^) is used as a prefix to master horizon designations to indicate mineral or organic layers of human-transported material. This material has been moved horizontally onto a pedon from a source area outside of that pedon by directed human activity, usually with the aid of machinery. All horizons and layers formed in human-transported material are indicated by a "caret" prefix (e.g., ^A-^C-Ab-Btb). |
| 61 | 0 | 61 | ^A/E | ^A/E | The "caret" symbol (^) is used as a prefix to master horizon designations to indicate mineral or organic layers of human-transported material. This material has been moved horizontally onto a pedon from a source area outside of that pedon by directed human activity, usually with the aid of machinery. All horizons and layers formed in human-transported material are indicated by a "caret" prefix (e.g., ^A-^C-Ab-Btb). |
| 62 | 0 | 62 | ^E/A | ^E/A | The "caret" symbol (^) is used as a prefix to master horizon designations to indicate mineral or organic layers of human-transported material. This material has been moved horizontally onto a pedon from a source area outside of that pedon by directed human activity, usually with the aid of machinery. All horizons and layers formed in human-transported material are indicated by a "caret" prefix (e.g., ^A-^C-Ab-Btb). |
| 63 | 0 | 63 | ^A/C | ^A/C | The "caret" symbol (^) is used as a prefix to master horizon designations to indicate mineral or organic layers of human-transported material. This material has been moved horizontally onto a pedon from a source area outside of that pedon by directed human activity, usually with the aid of machinery. All horizons and layers formed in human-transported material are indicated by a "caret" prefix (e.g., ^A-^C-Ab-Btb). |
| 64 | 0 | 64 | ^C/A | ^C/A | The "caret" symbol (^) is used as a prefix to master horizon designations to indicate mineral or organic layers of human-transported material. This material has been moved horizontally onto a pedon from a source area outside of that pedon by directed human activity, usually with the aid of machinery. All horizons and layers formed in human-transported material are indicated by a "caret" prefix (e.g., ^A-^C-Ab-Btb). |
| 65 | 0 | 65 | ^B/C | ^B/C | The "caret" symbol (^) is used as a prefix to master horizon designations to indicate mineral or organic layers of human-transported material. This material has been moved horizontally onto a pedon from a source area outside of that pedon by directed human activity, usually with the aid of machinery. All horizons and layers formed in human-transported material are indicated by a "caret" prefix (e.g., ^A-^C-Ab-Btb). |
| 66 | 0 | 66 | ^C/B | ^C/B | The "caret" symbol (^) is used as a prefix to master horizon designations to indicate mineral or organic layers of human-transported material. This material has been moved horizontally onto a pedon from a source area outside of that pedon by directed human activity, usually with the aid of machinery. All horizons and layers formed in human-transported material are indicated by a "caret" prefix (e.g., ^A-^C-Ab-Btb). |
| 67 | 0 | 67 | V | V | V horizon can be defined as: Mineral horizons that have formed at the soil surface, or below a layer of rock fragments (e.g., desert pavement) or a physical or biological crust in arid environments. They are recognized by the predominance of vesicular pores indicating a soil morphology that drastically reduces or prevents the infiltration of rainfall, and air exchange with the atmosphere. They are unvegetated and appear with unbroken massive structural morphology that is often very friable when moist, slightly hard to very hard when dry, but not cemented. They have no or only very weak secondary structural aggregates. V horizons are often lighter in color ( higher value) and lower in organic carbon than the horizon below it. |

Domain Name:horz\_desgn\_master\_prime

| **Sequence** | **Obsolete?** | **ID** | **Data Entry Text** | **Label Text** | **Choice\_Description** |
| --- | --- | --- | --- | --- | --- |
| 1 | 0 | 1 | ' | ' | No description available. |
| 2 | 0 | 2 | '' | '' | No description available. |
| 3 | 0 | 3 | ''' | ''' | No description available. |
| 4 | 0 | 4 | '''' | '''' | No description available. |
| 5 | 0 | 5 | ''''' | ''''' | No description available. |

Domain Name:latitude\_direction

| **Sequence** | **Obsolete?** | **ID** | **Data Entry Text** | **Label Text** | **Choice\_Description** |
| --- | --- | --- | --- | --- | --- |
| 1 | 0 | 1 | north | North | Latitude north of equator. |
| 2 | 0 | 2 | south | South | Latitude south of the equator. |

Domain Name:layer\_type

| **Sequence** | **Obsolete?** | **ID** | **Data Entry Text** | **Label Text** | **Choice\_Description** |
| --- | --- | --- | --- | --- | --- |
| 1 | 0 | 1 | horizon | Horizon | The layer represents a morphological soil horizon. |
| 2 | 0 | 2 | reporting layer | Reporting layer | The layer represents some segment of the soil profile other than a whole morphological soil horizon, e.g. a portion of a morphological horizon. |
| 3 | 1 | 3 | true layer | True Layer | A layer which may or may not be a diagnostic horizon. The LIMS only requires that the true layer have depths. |

Domain Name:ldm\_area\_sub\_type

| **Sequence** | **Obsolete?** | **ID** | **Data Entry Text** | **Label Text** | **Choice\_Description** |
| --- | --- | --- | --- | --- | --- |
| 1 | 0 | 1 | autonomous province/viloyati mukEtor | autonomous province / viloyati mukEtor | No description available. |
| 2 | 0 | 2 | province/viloyati | province/viloyati | No description available. |
| 3 | 0 | 3 | Parish | Parish | No description available. |
| 4 | 0 | 4 | administraative region/astedader akababi | administrative region/astedader akababi | No description available. |
| 5 | 0 | 5 | administrative area | administrative area | No description available. |
| 6 | 0 | 6 | administrative region/region administrative | administrative region/region administrative | No description available. |
| 7 | 0 | 7 | area | area | No description available. |
| 8 | 0 | 8 | autonomous region | autonomous region | No description available. |
| 9 | 0 | 9 | autonomous community/comunidad autonoma | autonomous community/comunidad autonoma | No description available. |
| 10 | 0 | 10 | autonomous municipality | autonomous municipality | No description available. |
| 11 | 0 | 11 | autonomous oblast/avtonomnaya oblast' | autonomous oblast / avtonomnaya oblast' | No description available. |
| 12 | 0 | 12 | autonomous okrug/avtonomnyy okrug | autonomous okrug / avtonomnyy okrug | No description available. |
| 13 | 0 | 13 | autonomous region/region autonoma | autonomous region / region autonoma | No description available. |
| 14 | 0 | 14 | autonomous region/rasgez akababi | autonomous region/rasgez akababi | No description available. |
| 15 | 0 | 15 | autonomous region/regiao autonoma | autonomous region/regiao autonoma | No description available. |
| 16 | 0 | 16 | autonomous region/zizhiqu | autonomous region/zizhiqu | No description available. |
| 17 | 0 | 17 | autonomous republic/avtonomiuri respublika | autonomous republic / avtonomiuri respublika | No description available. |
| 18 | 0 | 18 | autonomous republic/muxtar respublikasi | autonomous republic / muxtar respublikasi | No description available. |
| 19 | 0 | 19 | autonomous republic/avtonomna respublika | autonomous republic/avtonomna respublika | No description available. |
| 20 | 0 | 20 | canton/caton (French), cantone (Italian), kanton ( | canton/caton (French), cantone (Italian), kanton | No description available. |
| 21 | 0 | 21 | capital city/fovaros | capital city/fovaros | No description available. |
| 22 | 0 | 22 | capital district/distrito capital | capital district/distrito capital | No description available. |
| 23 | 0 | 23 | capital territory | capital territory | No description available. |
| 24 | 0 | 24 | cercle | cercle | No description available. |
| 25 | 0 | 25 | charter city | charter city | No description available. |
| 26 | 0 | 26 | circumscription/circonscription | circumscription/circonscription | No description available. |
| 27 | 0 | 27 | city | city | No description available. |
| 28 | 0 | 28 | city/horad | city / horad | No description available. |
| 29 | 0 | 29 | city/k'aghak' | city / k'aghak' | No description available. |
| 30 | 0 | 30 | city/k'alak'i | city / k'alak'i | No description available. |
| 31 | 0 | 31 | city/kampheng nakhon | city / kampheng nakhon | No description available. |
| 32 | 0 | 32 | city/qalasy | city / qalasy | No description available. |
| 33 | 0 | 33 | city/sahari | city / sahari | No description available. |
| 34 | 0 | 34 | city/shaary | city / shaary | No description available. |
| 35 | 0 | 35 | city/shahri | city / shahri | No description available. |
| 36 | 0 | 36 | city/gorod | city/gorod | No description available. |
| 37 | 0 | 37 | city/misto | city/misto | No description available. |
| 38 | 0 | 38 | commonwealth district | commonwealth district | No description available. |
| 39 | 0 | 39 | commune | commune | No description available. |
| 40 | 0 | 40 | commune/obcina | commune / obcina | No description available. |
| 41 | 0 | 41 | commune/gemeinde | commune/gemeinde | No description available. |
| 42 | 0 | 42 | county | county | No description available. |
| 43 | 0 | 43 | county/amt | county/amt | No description available. |
| 44 | 0 | 44 | county/judet | county/judet | No description available. |
| 45 | 0 | 45 | county/maa | county/maa | No description available. |
| 46 | 0 | 46 | county/megye | county/megye | No description available. |
| 47 | 0 | 47 | county/sysia | county/sysia | No description available. |
| 48 | 0 | 48 | department/departamento | department/departamento | No description available. |
| 49 | 0 | 49 | department/departement | department/departement | No description available. |
| 50 | 0 | 50 | department/department | department/department | No description available. |
| 51 | 0 | 51 | department/nomos | department/nomos | No description available. |
| 52 | 0 | 52 | dependency | dependency | No description available. |
| 53 | 0 | 53 | district | district | No description available. |
| 55 | 0 | 55 | district/kray | district/kray | No description available. |
| 56 | 0 | 56 | district/marz | district/marz | No description available. |
| 57 | 0 | 57 | district/raionul | district/raionul | No description available. |
| 58 | 0 | 58 | district/atholhu | district/atholhu | No description available. |
| 59 | 0 | 59 | district/concelho | district/concelho | No description available. |
| 60 | 0 | 60 | district/district | district/district | No description available. |
| 61 | 0 | 61 | district/distrikt | district/distrikt | No description available. |
| 62 | 0 | 62 | district/distrito | district/distrito | No description available. |
| 63 | 0 | 63 | district/dzongkhag | district/dzongkhag | No description available. |
| 64 | 0 | 64 | district/mehoz | district/mehoz | No description available. |
| 65 | 0 | 65 | district/region | district/region | No description available. |
| 66 | 0 | 66 | district/rreth | district/rreth | No description available. |
| 67 | 0 | 67 | division | division | No description available. |
| 68 | 0 | 68 | economic perfecture/perfecture economique | economic perfecture/perfecture economique | No description available. |
| 69 | 0 | 69 | emirate | emirate | No description available. |
| 70 | 0 | 70 | emirate/mintaqah | emirate/mintaqah | No description available. |
| 71 | 0 | 71 | federal dependencise/dependencias federales | federal dependencise/dependencias federales | No description available. |
| 72 | 0 | 72 | federal district/distrito federal | federal district/distrito federal | No description available. |
| 73 | 0 | 73 | federal territory/wilayah persekutuan | federal territory/wilayah persekutuan | No description available. |
| 74 | 0 | 74 | governorate/muhafazat | governorate/muhafazat | No description available. |
| 75 | 0 | 75 | governorate/muhafazah | governorate/muhafazah | No description available. |
| 76 | 0 | 76 | governorate/wilayah | governorate/wilayah | No description available. |
| 77 | 0 | 77 | independent town/kaupstadir | independent town/kaupstadir | No description available. |
| 78 | 0 | 78 | intendancy/intendencia | intendancy/intendencia | No description available. |
| 79 | 0 | 79 | island | island | No description available. |
| 80 | 0 | 80 | island area | island area | No description available. |
| 81 | 0 | 81 | island group | island group | No description available. |
| 82 | 0 | 82 | islands | islands | No description available. |
| 83 | 0 | 83 | kray/kray | kray/kray | No description available. |
| 84 | 0 | 84 | lab | lab | No description available. |
| 85 | 0 | 85 | metropolitan county | metropolitan county | No description available. |
| 86 | 0 | 86 | municipality | municipality | No description available. |
| 87 | 0 | 87 | municipality/baladiyat | municipality/baladiyat | No description available. |
| 88 | 0 | 88 | municipality/bashki | municipality/bashki | No description available. |
| 89 | 0 | 89 | municipality/krong | municipality/krong | No description available. |
| 90 | 0 | 90 | municipality/municipiul | municipality/municipiul | No description available. |
| 91 | 0 | 91 | municipality/baladiyah | municipality/baladiyah | No description available. |
| 92 | 0 | 92 | municipality/castello | municipality/castello | No description available. |
| 93 | 0 | 93 | municipality/hot | municipality/hot | No description available. |
| 94 | 0 | 94 | municipality/municipiu | municipality/municipiu | No description available. |
| 95 | 0 | 95 | municipality/shi | municipality/shi | No description available. |
| 96 | 0 | 96 | municipality/shih | municipality/shih | No description available. |
| 97 | 0 | 97 | municipality/thanh pho | municipality/thanh pho | No description available. |
| 98 | 0 | 98 | municipality/wilaya | municipality/wilaya | No description available. |
| 99 | 0 | 99 | oblast/oblast' | oblast/oblast' | No description available. |
| 100 | 0 | 100 | oblast/oblasty | oblast/oblasty | No description available. |
| 101 | 0 | 101 | oblast/oblysy | oblast/oblysy | No description available. |
| 102 | 0 | 102 | oblast/voblasts' | oblast/voblasts' | No description available. |
| 103 | 0 | 103 | pakistan-administered area | pakistan-administered area | No description available. |
| 104 | 0 | 104 | parish2 | parish2 | No description available. |
| 105 | 0 | 105 | parish/parroquia | parish/parroquia | No description available. |
| 106 | 0 | 106 | perfecture | perfecture | No description available. |
| 107 | 0 | 107 | perfecture/perfecture | perfecture/perfecture | No description available. |
| 108 | 0 | 108 | prefecture/prefecture | prefecture/prefecture | No description available. |
| 109 | 0 | 109 | prefecture/prefecture (French), prefegitura (Kinya | prefecture/prefecture (French), prefegitura (Kinya | No description available. |
| 110 | 0 | 110 | province | province | No description available. |
| 113 | 0 | 113 | province/welayat | province/welayat | No description available. |
| 115 | 0 | 115 | province/wiloyati | province/wiloyati | No description available. |
| 117 | 0 | 117 | province/aymag | province/aymag | No description available. |
| 118 | 0 | 118 | province/changwat | province/changwat | No description available. |
| 119 | 0 | 119 | province/faritanin' | province/faritanin' | No description available. |
| 120 | 0 | 120 | province/fylke | province/fylke | No description available. |
| 121 | 0 | 121 | province/il | province/il | No description available. |
| 122 | 0 | 122 | province/khett | province/khett | No description available. |
| 123 | 0 | 123 | province/khoueng | province/khoueng | No description available. |
| 124 | 0 | 124 | province/laani | province/laani | No description available. |
| 125 | 0 | 125 | province/lan | province/lan | No description available. |
| 126 | 0 | 126 | province/muhafazah | province/muhafazah | No description available. |
| 127 | 0 | 127 | province/oblast | province/oblast | No description available. |
| 128 | 0 | 128 | province/ostan | province/ostan | No description available. |
| 129 | 0 | 129 | province/propinsi | province/propinsi | No description available. |
| 130 | 0 | 130 | province/province | province/province | No description available. |
| 131 | 0 | 131 | province/province (French)/provincie (Flemish) | province/province (French)/provincie (Flemish) | No description available. |
| 132 | 0 | 132 | province/provincia | province/provincia | No description available. |
| 133 | 0 | 133 | province/provincie | province/provincie | No description available. |
| 134 | 0 | 134 | province/sheng | province/sheng | No description available. |
| 135 | 0 | 135 | province/tinh | province/tinh | No description available. |
| 136 | 0 | 136 | province/velayat | province/velayat | No description available. |
| 137 | 0 | 137 | province/wilaya | province/wilaya | No description available. |
| 138 | 0 | 138 | province/wilayat | province/wilayat | No description available. |
| 139 | 0 | 139 | province/wojewodztwo | province/wojewodztwo | No description available. |
| 140 | 0 | 140 | quarter | quarter | No description available. |
| 141 | 0 | 141 | rayon/rayonu | rayon/rayonu | No description available. |
| 142 | 0 | 142 | region | region | No description available. |
| 143 | 0 | 143 | region/mintaqat | region/mintaqat | No description available. |
| 144 | 0 | 144 | region/raioni | region/raioni | No description available. |
| 145 | 0 | 145 | region/gobolka | region/gobolka | No description available. |
| 146 | 0 | 146 | region/region | region/region | No description available. |
| 147 | 0 | 147 | region/regione | region/regione | No description available. |
| 148 | 0 | 148 | republic/respublikasi | republic/respublikasi | No description available. |
| 149 | 0 | 149 | republic/respublika | republic/respublika | No description available. |
| 150 | 0 | 150 | special city | special city | No description available. |
| 151 | 0 | 151 | special district/daerah khusus ibukota | special district/daerah khusus ibukota | No description available. |
| 152 | 0 | 152 | special municipality/municipio especial | special municipality/municipio especial | No description available. |
| 153 | 0 | 153 | special region/daerah istimewa | special region/daerah istimewa | No description available. |
| 154 | 0 | 154 | special zone/khetphiset | special zone/khetphiset | No description available. |
| 155 | 0 | 155 | state | state | No description available. |
| 156 | 0 | 156 | state/bundesland | state/bundesland | No description available. |
| 157 | 0 | 157 | state/estado | state/estado | No description available. |
| 158 | 0 | 158 | state/land | state/land | No description available. |
| 159 | 0 | 159 | state/negeri | state/negeri | No description available. |
| 160 | 0 | 160 | territory | territory | No description available. |
| 161 | 0 | 161 | town district | town district | No description available. |
| 162 | 0 | 162 | town/ville | town/ville | No description available. |
| 163 | 0 | 163 | union territory | union territory | No description available. |
| 164 | 0 | 164 | urban commune/mestna obcina | urban commune/mestna obcina | No description available. |
| 165 | 0 | 165 | urban county/megyei varos | urban county/megyei varos | No description available. |
| 166 | 0 | 166 | ward | ward | No description available. |
| 167 | 0 | 167 | zone | zone | No description available. |

Domain Name:ldm\_area\_type

| **Sequence** | **Obsolete?** | **ID** | **Data Entry Text** | **Label Text** | **Choice\_Description** |
| --- | --- | --- | --- | --- | --- |
| 1 | 0 | 1 | country | Country | No description available. |
| 2 | 0 | 2 | state\_admin\_div | State Administrative Division | No description available. |
| 3 | 0 | 3 | county | County | No description available. |
| 4 | 0 | 4 | mlra | Major Land Resource Area | No description available. |
| 5 | 0 | 5 | ssa | Soil Survey Area | No description available. |

Domain Name:ldm\_column\_data\_type

| **Sequence** | **Obsolete?** | **ID** | **Data Entry Text** | **Label Text** | **Choice\_Description** |
| --- | --- | --- | --- | --- | --- |
| 1 | 0 | 1 | bit | bit | column contains bit data 1/0 0=off 1=on |
| 2 | 0 | 2 | datetime | datetime | column contains datetime data |
| 3 | 0 | 3 | decimal | decimal | column contains decimal data |
| 4 | 0 | 4 | int | int | column contains int data |
| 5 | 0 | 5 | smallint | smallint | column contains smallint data |
| 6 | 0 | 6 | tinyint | tinyint | column contains tinyint data |
| 7 | 0 | 7 | varchar | varchar | column contains character data |

Domain Name:ldm\_column\_type

| **Sequence** | **Obsolete?** | **ID** | **Data Entry Text** | **Label Text** | **Choice\_Description** |
| --- | --- | --- | --- | --- | --- |
| 1 | 0 | 1 | data | data | column contains generic data |
| 2 | 0 | 2 | date | date | column contains a date |
| 3 | 0 | 3 | domain | domain choice | column relates to a domain |
| 4 | 0 | 4 | foreign key | foreign key | column contains a foreign key value |
| 5 | 0 | 5 | primary key | primary key | column contains a primary key value |

Domain Name:longitude\_direction

| **Sequence** | **Obsolete?** | **ID** | **Data Entry Text** | **Label Text** | **Choice\_Description** |
| --- | --- | --- | --- | --- | --- |
| 1 | 0 | 1 | east | East | Longitude east of Greenwich (the Prime Meridian or origin). (Snyder, J.P., 1982, Map Projections Used by the USGS) |
| 2 | 0 | 2 | west | West | Longitude west of Greenwich (the Prime Meridian or origin). (Snyder, J.P., 1982, Map Projections Used by the USGS) |

Domain Name:moisture\_state

| **Sequence** | **Obsolete?** | **ID** | **Data Entry Text** | **Label Text** | **Choice\_Description** |
| --- | --- | --- | --- | --- | --- |
| 1 | 0 | 1 | air-dry | Air-dry | The moisture state where the sample is air-dried at 35 degrees C. before the sample is prepared. This is the default moisture state for most analyses. |
| 2 | 0 | 2 | field moist | Field Moist | The moisture state where the sample is not dried before the sample is prepared. This is the moisture state for most moist analyses. |
| 3 | 0 | 3 | ovendry | Ovendry | The moisture state where the sample is ovendried at 105 degrees C. before the sample is prepared. This is a special request moisture state and not likely to be used. |
| 4 | 0 | 4 | saturated | Saturated | The moisture state where the sample is saturated (saturated paste) when the sample is prepared. This is the special moisture state for special request analyses and this is not likely to be done. |

Domain Name:size\_fraction

| **Sequence** | **Obsolete?** | **ID** | **Data Entry Text** | **Label Text** | **Choice\_Description** |
| --- | --- | --- | --- | --- | --- |
| 1 | 0 | 1 | <2 mm | Less than 2 millimeter Soil Particles | Soil particles less than 2 mm, Soil |
| 2 | 0 | 2 | 2-5 mm | 2 to 5 millimeter Coarse Fragments | Coarse Fragments, 2 to 5 mm, Fine Pebbles, (Fine Gravelly) |
| 3 | 0 | 3 | 5-20 mm | 5 to 20 millimeter Coarse Fragments | Coarse Fragments, 5 to 20 mm, Medium Pebbles, (Medium Gravelly) |
| 4 | 0 | 4 | 20-75 mm | 20 to 75 millimeter Coarse Fragments | Coarse Fragments, 20 to 75 mm, Coarse Pebbles, (Coarse Gravelly) |
| 5 | 0 | 5 | 75-250 mm | 75 to 250 millimeter Coarse Fragments | Coarse Fragments, 75 to 250 mm, Cobbles, (Cobbly) |
| 6 | 0 | 6 | >250 mm | Greater than 250 millimeter Coarse Fragments | Coarse Fragments, greater than 250 mm |
| 7 | 0 | 7 | <20 mm | Less than 20 millimeter Soil and Coarse Fragments | Soil and Coarse Fragments, less than 20 mm. |
| 8 | 0 | 8 | whole soil | Soil and Coarse Fragments | Soil and Coarse Fragments |
| 9 | 0 | 9 | <75 mm | Less than 75 millimeter Soil and Coarse Fragments | Soil and Coarse Fragments, less than 75 mm. |
| 10 | 0 | 10 | >2 mm | Greater than 2 millimeter Coarse Fragments | Coarse Fragments, greater than 2 mm. |
| 11 | 0 | 11 | 2-75 mm | 2 to 75 millimeter Coarse Fragments | Coarse Fragments, 2 to 75 mm, Pebbles, (Gravelly) |
| 12 | 0 | 12 | 250-600 mm | 250 to 600 millimeter Coarse Fragments | Coarse Fragments, 250 to 600 mm, Stones, (Stony) |
| 13 | 0 | 13 | >=600 mm | Greater than or Equal to 600 millimeter Coarse Fragments | Coarse Fragments greater than or equal to 600 mm, Boulders, (Bouldery) |
| 14 | 0 | 14 | 2-20 mm | 2 to 20 millimeter Coarse Fragments | Coarse Fragments, 2 to 20 mm. |
| 15 | 0 | 15 | 2-150 mm (long) | 2 to 150 millimeter long, Flat Coarse Fragments | Coarse Fragments, 2 to 150 mm long, Channers, (Channery) |
| 16 | 0 | 16 | 150-380 mm (long) | 150 to 380 millimeter long, Flat Coarse Fragments | Coarse Fragments, 150 to 380 mm long, Flagstones, (Flaggy) |
| 17 | 0 | 17 | >=600 mm (long) | Greater than or Equal to 600 millimeters long, Flat Coarse Fragments | Coarse Fragments, greater than or equal to 600 mm, Boulders, (Bouldery) |
| 18 | 0 | 18 | <0.002 mm | Less than 0.002 millimeter (2 Microns) | USDA Clay, less than 0.002 mm particles |
| 19 | 0 | 19 | <0.0002 mm | Less than 0.0002 millimeter (0.2 Microns) | Fine Clay, less than 0.0002 mm particles |
| 20 | 0 | 20 | 0.002-0.05 mm | 0.002 to 0.05 millimeter | USDA Silt, 0.002 to 0.05 mm particles |
| 21 | 0 | 21 | 0.002-0.02 mm | 0.002 to 0.02 millimeter | Fine Silt, 0.002 to 0.02 mm particles |
| 22 | 0 | 22 | 0.02-0.05 mm | 0.02 to 0.05 millimeter | Coarse Silt, 0.02 to 0.05 mm particles |
| 23 | 0 | 23 | 0.05-2 mm | 0.05 to 2 millimeter | USDA Sand, 0.05 to 2 mm particles |
| 24 | 0 | 24 | 0.05-0.1 mm | 0.05 to 0.1 millimeter | Very Fine Sand, 0.05 to 0.1 mm particles |
| 25 | 0 | 25 | 0.1-0.25 mm | 0.1 to 0.25 millimeter | Fine Sand, 0.1 to 0.25 mm particles |
| 26 | 0 | 26 | 0.25-0.5 mm | 0.25 to 0.5 millimeter | Medium Sand, 0.25 to 0.5 mm particles |
| 27 | 0 | 27 | 0.5-1 mm | 0.5 to 1 millimeter | Coarse Sand, 0.5 to 1 mm particles |
| 28 | 0 | 28 | 1-2 mm | 1 to 2 millimeter | Very Coarse Sand, 1 to 2 mm particles |
| 29 | 0 | 29 | <80 Mesh | Less than U.S. Standard Sieve No. 80 | Passing U.S. Std. Sieve #80, less than 0.18 mm nominal |
| 30 | 0 | 30 | >75 mm | Greater than 75 millimeter Coarse Fragments | Coarse Fragments, greater than 75 mm |
| 31 | 0 | 31 | 0.053-2 mm | .053 to 2 millimeter | Particles between 0.053 and 2 mm. Less than 2 mm particles retained on U.S. Std. Sieve #270. |
| 32 | 0 | 32 | <270 Mesh | Less than U.S. Standard Sieve No. 270 | Passing U.S. Std. Sieve #270, less than 0.053 mm nominal |
| 33 | 0 | 33 | 0.0002-0.002 mm | 0.0002 to 0.002 millimeter | Coarse Clay, 0.0002 to 0.002 mm particles |
| 34 | 0 | 34 | 0.02-2 mm | 0.02 to 2 millimeter | Sand and Silt fractions, 0.02 to 2 mm particles |

Domain Name:texture\_class

| **Sequence** | **Obsolete?** | **ID** | **Data Entry Text** | **Label Text** | **Choice\_Description** |
| --- | --- | --- | --- | --- | --- |
| 1 | 0 | 21 | c | Clay | Reference: Soil Survey Manual, Agricultural Handbook No. 18, Soil Survey Staff, USDA, Natural Resources Conservation Service. |
| 2 | 0 | 17 | cl | Clay loam | Reference: Soil Survey Manual, Agricultural Handbook No. 18, Soil Survey Staff, USDA, Natural Resources Conservation Service. |
| 3 | 0 | 1 | cos | Coarse sand | Reference: Soil Survey Manual, Agricultural Handbook No. 18, Soil Survey Staff, USDA, Natural Resources Conservation Service. |
| 4 | 0 | 9 | cosl | Coarse sandy loam | Reference: Soil Survey Manual, Agricultural Handbook No. 18, Soil Survey Staff, USDA, Natural Resources Conservation Service. |
| 5 | 0 | 3 | fs | Fine sand | Reference: Soil Survey Manual, Agricultural Handbook No. 18, Soil Survey Staff, USDA, Natural Resources Conservation Service. |
| 6 | 0 | 11 | fsl | Fine sandy loam | Reference: Soil Survey Manual, Agricultural Handbook No. 18, Soil Survey Staff, USDA, Natural Resources Conservation Service. |
| 7 | 0 | 13 | l | Loam | Reference: Soil Survey Manual, Agricultural Handbook No. 18, Soil Survey Staff, USDA, Natural Resources Conservation Service. |
| 8 | 0 | 5 | lcos | Loamy coarse sand | Reference: Soil Survey Manual, Agricultural Handbook No. 18, Soil Survey Staff, USDA, Natural Resources Conservation Service. |
| 9 | 0 | 7 | lfs | Loamy fine sand | Reference: Soil Survey Manual, Agricultural Handbook No. 18, Soil Survey Staff, USDA, Natural Resources Conservation Service. |
| 10 | 0 | 6 | ls | Loamy sand | Reference: Soil Survey Manual, Agricultural Handbook No. 18, Soil Survey Staff, USDA, Natural Resources Conservation Service. |
| 11 | 0 | 8 | lvfs | Loamy very fine sand | Reference: Soil Survey Manual, Agricultural Handbook No. 18, Soil Survey Staff, USDA, Natural Resources Conservation Service. |
| 12 | 0 | 2 | s | Sand | Reference: Soil Survey Manual, Agricultural Handbook No. 18, Soil Survey Staff, USDA, Natural Resources Conservation Service. |
| 13 | 0 | 19 | sc | Sandy clay | Reference: Soil Survey Manual, Agricultural Handbook No. 18, Soil Survey Staff, USDA, Natural Resources Conservation Service. |
| 14 | 0 | 16 | scl | Sandy clay loam | Reference: Soil Survey Manual, Agricultural Handbook No. 18, Soil Survey Staff, USDA, Natural Resources Conservation Service. |
| 15 | 0 | 15 | si | Silt | Reference: Soil Survey Manual, Agricultural Handbook No. 18, Soil Survey Staff, USDA, Natural Resources Conservation Service. |
| 16 | 0 | 20 | sic | Silty clay | Reference: Soil Survey Manual, Agricultural Handbook No. 18, Soil Survey Staff, USDA, Natural Resources Conservation Service. |
| 17 | 0 | 18 | sicl | Silty clay loam | Reference: Soil Survey Manual, Agricultural Handbook No. 18, Soil Survey Staff, USDA, Natural Resources Conservation Service. |
| 18 | 0 | 14 | sil | Silt loam | Reference: Soil Survey Manual, Agricultural Handbook No. 18, Soil Survey Staff, USDA, Natural Resources Conservation Service. |
| 19 | 0 | 10 | sl | Sandy loam | Reference: Soil Survey Manual, Agricultural Handbook No. 18, Soil Survey Staff, USDA, Natural Resources Conservation Service. |
| 20 | 0 | 4 | vfs | Very fine sand | Reference: Soil Survey Manual, Agricultural Handbook No. 18, Soil Survey Staff, USDA, Natural Resources Conservation Service. |
| 21 | 0 | 12 | vfsl | Very fine sandy loam | Reference: Soil Survey Manual, Agricultural Handbook No. 18, Soil Survey Staff, USDA, Natural Resources Conservation Service. |