NASIS 7.1.4
Tables and Columns

Table Physical Name: area
Table Label: Area

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	areatypeiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	areasymbol	Area Symbol	String	Varchar	Yes	20					
4	areaname	Area Name	String	Varchar	No	135					
5	areaacres	Area Acres	Integer	Int	No			0		acres	
6	obterm	Obsolete?	Boolean	Bit	Yes						
7	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
8	recuseriidref	Record Last Updated By	Integer	Int	No						
9	areaiid	Rec ID	Integer	Int	Yes						

The Area table lists the areas for each area type shown in the Area Type table. For example, the list of traditional soil survey areas is under the area type "Non-MLRA Soil Survey Areas". Nationally coordinated areas are listed under area types owned by the "NSSC Pangaea" database.

Areas listed under the area types "Non-MLRA Soil Survey Area" and "MLRA Soil Survey Area" are linked to legends in the Legend table. Areas listed under other area types are used to define areas of geographic coincidence with soil survey areas in the Legend Area Overlap table.

NASIS 7.1.4
Tables and Columns

Table Physical Name: areatext
Table Label: Area Text

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	areaiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	recdate	Date	Date/Time	Datetime	No						
4	recauthor	Author	String	Varchar	No	25					
5	areatextkind	Kind	Choice	Smallint	No						area_text_kind
6	textcat	Category	String	Varchar	No	20					
7	textsubcat	Subcategory	String	Varchar	No	20					
8	textentry	Text Entry	Narrative Text	Varchar(max)	No						
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	areatextiid	Rec ID	Integer	Int	Yes						

The Area Text table contains notes and narrative descriptions for each area. Area text is optional. In many cases, this table is empty.

NASIS 7.1.4
Tables and Columns

Table Physical Name: areatype
Table Label: Area Type

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	areatypename	Area Type Name	String	Varchar	Yes	45					
2	atdbiidref	Area Type NASIS Site	Integer	Int	Yes						
3	grpiidref	NASIS Group	Integer	Int	Yes						
4	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
5	objuseriidref	Object Last Updated By	Integer	Int	No						
6	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
7	recuseriidref	Record Last Updated By	Integer	Int	No						
8	areatypeiid	Rec ID	Integer	Int	Yes						

The Area Type table lists area types and the owner of each area type. In NASIS, different kinds of areas are organized by area type. For example, traditional soil survey areas are listed in the Area table under the "Non MLRA Soil Survey Area" type. Nationally coordinated area types are owned by "NSSC Pangaea", but users may create their own area types.

NASIS 7.1.4
Tables and Columns

Table Physical Name: attribute
Table Label: Attribute

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	sysiidref	Lineage	Integer	Int	Yes						
2	attlognm	Logical Name	String	Varchar	Yes	30					
3	attphynm	Physical Name	String	Varchar	Yes	33					
4	attlabel	Label	String	Varchar	No	80					
5	attlogdattyp	Logical Data Type	Choice	Smallint	Yes						logical_data_type_nasis
6	attfldsiz	Field Size	Integer	Smallint	No						
7	attprec	Precision	Integer	Smallint	No						
8	uomiidref	Unit of Measure	Integer	Int	No						
9	domiidref	Domain	Integer	Int	No						
10	attshortdtiq	Shorter DTIQ	Choice	Smallint	No						date_time_interval_qualifier
11	attlongdtiq	Longer DTIQ	Choice	Smallint	No						date_time_interval_qualifier
12	attmin	Minimum	String	Varchar	No	254					
13	attmax	Maximum	String	Varchar	No	254					
14	attcasesensitive	Case Sensitive	Boolean	Bit	Yes						
15	attoffdef	Official Definition	Narrative Text	Varchar(max)	No						
16	attextdef	Extended Definition	Narrative Text	Varchar(max)	No						
17	attributeid	Attribute Id	Integer	Int	No						
18	orgper	Originating Person	String	Varchar	No	60					
19	conper	Contact Person	String	Varchar	No	60					
20	pendact	Pending Action	Choice	Smallint	No						pending_action
21	pendstat	Pending Status	Choice	Smallint	No						pending_status
22	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
23	recuseriidref	Record Last Updated By	Integer	Int	No						
24	attiid	Rec ID	Integer	Int	Yes						

This table records the logical attributes of a particular system. A logical attribute corresponds to a physical column in one or more tables. The attributes of a logical attribute are those attributes of a data element that do not vary from column to column instance of that attribute. This makes it possible to record the definition of an attribute only once, regardless of how many times that attribute is instanciated as a physical column.

NASIS 7.1.4
Tables and Columns

Table Physical Name: attributehist
Table Label: Attribute History

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	attiidref	Lineage	Integer	Int	Yes						
2	notedate	Date	Date/Time	Datetime	No						
3	notes	Notes	Narrative Text	Varchar(max)	No						
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	attnoteiid	Rec ID	Integer	Int	Yes						

This table records notes about issues with and changes to a particular logical attribute.

NASIS 7.1.4
Tables and Columns

Table Physical Name: basalareatreescounted
Table Label: Basal Area Trees Counted

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	plotspeciebasalareaiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	treenumber	Tree #	Integer	Int	Yes			1			
4	treeheight	Tree Height	Float	Real	No		1	1	500	feet	
5	treediameterbreastheight	Tree DBH	Float	Real	No		1	1	360	inches	
6	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
7	recuseriidref	Record Last Updated By	Integer	Int	No						
8	basalareatreescountediid	Rec ID	Integer	Int	Yes						

This table contains data about individual trees of a particular species measured when collecting basal area data as part of a vegetation inventory on a plot.

NASIS 7.1.4
Tables and Columns

Table Physical Name: beltdata
Table Label: Belt Data

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	vegtransplantsummiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	plantheightcllowerlimit	Plant Ht Class Lower Limit	Float	Real	Yes		1	0	500	feet	
4	plantheightclupperlimit	Plant Ht Class Upper Limit	Float	Real	Yes		1	0	500	feet	
5	plantcount	# of Plants	Integer	Int	Yes			0	999		
6	speciesdensity	Species Density	Integer	Int	No			0		plants/acre	
7	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
8	recuseriidref	Record Last Updated By	Integer	Int	No						
9	beltdataiid	Rec ID	Integer	Int	Yes						

This table records data collected using the Belt Transect protocol along a transect as part of a vegetation inventory.

NASIS 7.1.4
Tables and Columns

Table Physical Name: belttransectsummary
Table Label: Belt Transect Summary

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	vegtransectiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	plantheightcllowerlimit	Plant Ht Class Lower Limit	Float	Real	Yes		1	0	500	feet	
4	plantheightclupperlimit	Plant Ht Class Upper Limit	Float	Real	Yes		1	0	500	feet	
5	plantcounttotal	Total # of Plants	Integer	Int	No			0			
6	htclassplantdensity	Ht. Class Plant Density	Integer	Int	No			0		plants/acre	
7	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
8	recuseriidref	Record Last Updated By	Integer	Int	No						
9	belttranssummiid	Rec ID	Integer	Int	Yes						

This table stored summary plant data for individual height classes from a belt transect.

NASIS 7.1.4
Tables and Columns

Table Physical Name: calctext
Table Label: Calculation Text

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	calciidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	recdate	Date	Date/Time	Datetime	No						
4	recauthor	Author	String	Varchar	No	25					
5	calctextkind	Kind	Choice	Smallint	No						calculation_text_kind
6	textcat	Category	String	Varchar	No	20					
7	textsubcat	Subcategory	String	Varchar	No	20					
8	textentry	Text Entry	Narrative Text	Varchar(max)	No						
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	calctextiid	Rec ID	Integer	Int	Yes						

The Calculation Text table contains notes and narrative descriptions for each calculation. Calculation text is typically used to document rationale for edits to calculation scripts, but is optional. In many cases, the table is empty.

NASIS 7.1.4
Tables and Columns

Table Physical Name: calculation
Table Label: Calculation

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	calc_seq	Sequence	Integer	Smallint	No						
2	calc_nm	Name	String	Varchar	Yes	60					
3	calc_type	Type	Choice	Smallint	Yes						calculation_type
4	calc_desc	Description	Narrative Text	Varchar(max)	No						
5	calc_tbl_iid	Base Table	Integer	Smallint	Yes						
6	calc	Script	Calculation	Varchar(max)	Yes						
7	dataafuse	Ready to use?	Boolean	Bit	Yes						
8	calcdbiidref	NASIS Site	Integer	Int	Yes						
9	grpiidref	NASIS Group	Integer	Int	Yes						
10	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
11	objuseriidref	Object Last Updated By	Integer	Int	No						
12	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
13	recuseriidref	Record Last Updated By	Integer	Int	No						
14	calc_iid	Rec ID	Integer	Int	Yes						

This table records procedures used to derive the value of a column or to check the logical consistency of the value in one column with the values of one or more other columns.

NASIS 7.1.4
Tables and Columns

Table Physical Name: chaashto
Table Label: Horizon AASHTO

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	chiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	aashtocl	AASHTO	Choice	Smallint	No						aashto_group_classification
4	aashtocl_s	S	Integer	Smallint	No						
5	rvindicator	Representative?	Boolean	Bit	Yes						
6	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
7	recuseriidref	Record Last Updated By	Integer	Int	No						
8	chaashtoiid	Rec ID	Integer	Int	Yes						

The Horizon AASHTO table contains the American Association of State Highway Transportation Officials classifications for each horizon. One row in this table is marked as the representative AASHTO classification for the horizon.

Table Physical Name: chconsistence
Table Label: Horizon Consistence

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	chiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	rupresblkmst	Rupture Moist	Choice	Smallint	No						rupture_resist_block_moist
4	rupresblkdry	Rupture Dry	Choice	Smallint	No						rupture_resist_block_dry
5	rupresblkcem	Rupture Cement	Choice	Smallint	No						rupture_resist_block_cem
6	rupresplate	Rupture Plate	Choice	Smallint	No						rupture_resist_plate
7	mannerfailure	Manner of Failure	Choice	Smallint	No						manner_of_failure
8	stickiness	Stickiness	Choice	Smallint	No						stickiness
9	plasticity	Plasticity	Choice	Smallint	No						plasticity
10	rvindicator	Representative?	Boolean	Bit	Yes						
11	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
12	recuseriidref	Record Last Updated By	Integer	Int	No						
13	chconsistiid	Rec ID	Integer	Int	Yes						

The Horizon Consistence table lists the range of rupture resistance, plasticity, and stickiness for each horizon. The row with the typically occurring characteristics is identified as the RV row.

NASIS 7.1.4
Tables and Columns

Table Physical Name: chdesgnsuffix
Table Label: Horizon Designation Suffix

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	chiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	desgnsuffix	Suffix	Choice	Smallint	No						horz_desgn_letter_suffix
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	chdesgnsfxiid	Rec ID	Integer	Int	Yes						

The Horizon Designation Suffix table contains the suffixes, one per row, for each horizon. For example, the "h" and "s" of a Bhs horizon appear as two rows in this table.

Table Physical Name: chfrags
Table Label: Horizon Fragments

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	chiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	fragvol_l	Low	Float	Real	No		1	0	100	percent	
4	fragvol_r	RV	Float	Real	No		1	0	100	percent	
5	fragvol_h	High	Float	Real	No		1	0	100	percent	
6	fragsize_l	Low	Integer	Smallint	No			2	3000	mm	
7	fragsize_r	RV	Integer	Smallint	No			2	3000	mm	
8	fragsize_h	High	Integer	Smallint	No			2	3000	mm	
9	fragkind	Kind	Choice	Smallint	No						fragment_kind
10	fragshp	Shape	Choice	Smallint	No						fragment_shape
11	fraground	Roundness	Choice	Smallint	No						fragment_roundness
12	fraghard	Hardness	Choice	Smallint	No						rupture_resist_block_cem
13	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
14	recuseriidref	Record Last Updated By	Integer	Int	No						
15	chfragsiid	Rec ID	Integer	Int	Yes						

The Horizon Fragments table lists the mineral and organic fragments included in the horizon shown in the Horizon table. If the Volume % is greater than zero (low=5, RV=10, high=15) in a row, the kind and size of fragment in that row exists everywhere this horizon and component occur in the mapunit. If the Volume % includes zero (low=0, RV=5, high=10), the kind and size of fragment may exist in some places, but not in others.

Table Physical Name: chhuarts
Table Label: Horizon Human Artifacts

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	chiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	huartvol_l	Low	Integer	Smallint	Yes			0	100	percent	
4	huartvol_r	RV	Integer	Smallint	Yes			0	100	percent	
5	huartvol_h	High	Integer	Smallint	Yes			0	100	percent	
6	huartsize_l	Low	Integer	Smallint	No			2	3000	mm	
7	huartsize_r	RV	Integer	Smallint	No			2	3000	mm	
8	huartsize_h	High	Integer	Smallint	No			2	3000	mm	
9	huartkind	Kind	Choice	Smallint	Yes						human_artifact_kind
10	huartco	Cohesion	Choice	Smallint	No						human_artifact_cohesion
11	huartshp	Shape	Choice	Smallint	No						human_artifact_shape
12	huartrnd	Roundness	Choice	Smallint	No						fragment_roundness
13	huartpen	Penetrability	Choice	Smallint	No						human_artifact_penetrability
14	huartsafety	Safety	Choice	Smallint	No						human_artifact_safety
15	huartper	Persistence	Choice	Smallint	No						human_artifact_persistence
16	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
17	recuseriidref	Record Last Updated By	Integer	Int	No						
18	chhuartiid	Rec ID	Integer	Int	Yes						

The Horizon Human Artifacts table lists the human created and/or modified objects included in the horizon shown in the Horizon table. These are objects or materials created (or modified) by humans for practical purposes related to activities such as manufacturing, construction, or waste disposal. Examples of artifacts include processed wood products, liquid petroleum products, coal combustion by-products, asphalt, fibers and fabrics, bricks, cinder blocks, concrete, plastic, glass, rubber, paper, cardboard, iron and steel, altered or manufactured metals and minerals, sanitary and medical waste, garbage and landfill waste.

If the Volume % is greater than zero (low=5, RV=10, high=15) in a row, the kind and size of artifact in that row exists everywhere this horizon and component occur in the mapunit. If the Volume % includes zero (low=0, RV=5, high=10), the kind and size of artifact may exist in some places, but not in others.

NASIS 7.1.4
Tables and Columns

Table Physical Name: chorizon
Table Label: Horizon

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	coiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	hzdept_l	Low	Integer	Smallint	No			0	9999	cm	
4	hzdept_r	RV	Integer	Smallint	No			0	9999	cm	
5	hzdept_h	High	Integer	Smallint	No			0	9999	cm	
6	hzdepb_l	Low	Integer	Smallint	No			0	9999	cm	
7	hzdepb_r	RV	Integer	Smallint	No			0	9999	cm	
8	hzdepb_h	High	Integer	Smallint	No			0	9999	cm	
9	hzthk_l	Low	Integer	Smallint	No			0	9999	cm	
10	hzthk_r	RV	Integer	Smallint	No			0	9999	cm	
11	hzthk_h	High	Integer	Smallint	No			0	9999	cm	
12	hzname	Designation	String	Varchar	No	12					
13	hzname_s	S	Integer	Smallint	No						
14	desgndisc	Disc	Integer	Smallint	No			2	99		
15	desgnmaster	Master	Choice	Smallint	No						horz_desgn_master
16	desgnmasterprime	Prime	Choice	Smallint	No						horz_desgn_master_prime
17	desgnvert	Sub	Integer	Smallint	No			1			
18	fragvoltot_l	Low	Integer	Smallint	No			0	100	percent	
19	fragvoltot_ls	S	Integer	Smallint	No						
20	fragvoltot_r	RV	Integer	Smallint	No			0	100	percent	
21	fragvoltot_rs	S	Integer	Smallint	No						
22	fragvoltot_h	High	Integer	Smallint	No			0	100	percent	
23	fragvoltot_hs	S	Integer	Smallint	No						
24	fraggt10_l	Low	Integer	Smallint	No			0	100	percent	
25	fraggt10_ls	S	Integer	Smallint	No						
26	fraggt10_r	RV	Integer	Smallint	No			0	100	percent	
27	fraggt10_rs	S	Integer	Smallint	No						
28	fraggt10_h	High	Integer	Smallint	No			0	100	percent	
29	fraggt10_hs	S	Integer	Smallint	No						
30	frag3to10_l	Low	Integer	Smallint	No			0	100	percent	
31	frag3to10_ls	S	Integer	Smallint	No						
32	frag3to10_r	RV	Integer	Smallint	No			0	100	percent	

Table Physical Name: chorizon
Table Label: Horizon

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
33	frag3to10_rs	S	Integer	Smallint	No						
34	frag3to10_h	High	Integer	Smallint	No			0	100	percent	
35	frag3to10_hs	S	Integer	Smallint	No						
36	huartvoltot_l	Low	Integer	Smallint	No			0	100	percent	
37	huartvoltot_r	RV	Integer	Smallint	No			0	100	percent	
38	huartvoltot_h	High	Integer	Smallint	No			0	100	percent	
39	sieveno4_l	Low	Float	Real	No		1	0	100	percent	
40	sieveno4_ls	S	Integer	Smallint	No						
41	sieveno4_r	RV	Float	Real	No		1	0	100	percent	
42	sieveno4_rs	S	Integer	Smallint	No						
43	sieveno4_h	High	Float	Real	No		1	0	100	percent	
44	sieveno4_hs	S	Integer	Smallint	No						
45	sieveno10_l	Low	Float	Real	No		1	0	100	percent	
46	sieveno10_ls	S	Integer	Smallint	No						
47	sieveno10_r	RV	Float	Real	No		1	0	100	percent	
48	sieveno10_rs	S	Integer	Smallint	No						
49	sieveno10_h	High	Float	Real	No		1	0	100	percent	
50	sieveno10_hs	S	Integer	Smallint	No						
51	sieveno40_l	Low	Float	Real	No		1	0	100	percent	
52	sieveno40_ls	S	Integer	Smallint	No						
53	sieveno40_r	RV	Float	Real	No		1	0	100	percent	
54	sieveno40_rs	S	Integer	Smallint	No						
55	sieveno40_h	High	Float	Real	No		1	0	100	percent	
56	sieveno40_hs	S	Integer	Smallint	No						
57	sieveno200_l	Low	Float	Real	No		1	0	100	percent	
58	sieveno200_ls	S	Integer	Smallint	No						
59	sieveno200_r	RV	Float	Real	No		1	0	100	percent	
60	sieveno200_rs	S	Integer	Smallint	No						
61	sieveno200_h	High	Float	Real	No		1	0	100	percent	
62	sieveno200_hs	S	Integer	Smallint	No						
63	sandtotal_l	Low	Float	Real	No		1	0	100	percent	
64	sandtotal_ls	S	Integer	Smallint	No						

Table Physical Name: chorizon
Table Label: Horizon

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
65	sandtotal_r	RV	Float	Real	No		1	0	100	percent	
66	sandtotal_rs	S	Integer	Smallint	No						
67	sandtotal_h	High	Float	Real	No		1	0	100	percent	
68	sandtotal_hs	S	Integer	Smallint	No						
69	sandvc_l	Low	Float	Real	No		1	0	100	percent	
70	sandvc_ls	S	Integer	Smallint	No						
71	sandvc_r	RV	Float	Real	No		1	0	100	percent	
72	sandvc_rs	S	Integer	Smallint	No						
73	sandvc_h	High	Float	Real	No		1	0	100	percent	
74	sandvc_hs	S	Integer	Smallint	No						
75	sandco_l	Low	Float	Real	No		1	0	100	percent	
76	sandco_ls	S	Integer	Smallint	No						
77	sandco_r	RV	Float	Real	No		1	0	100	percent	
78	sandco_rs	S	Integer	Smallint	No						
79	sandco_h	High	Float	Real	No		1	0	100	percent	
80	sandco_hs	S	Integer	Smallint	No						
81	sandmed_l	Low	Float	Real	No		1	0	100	percent	
82	sandmed_ls	S	Integer	Smallint	No						
83	sandmed_r	RV	Float	Real	No		1	0	100	percent	
84	sandmed_rs	S	Integer	Smallint	No						
85	sandmed_h	High	Float	Real	No		1	0	100	percent	
86	sandmed_hs	S	Integer	Smallint	No						
87	sandfine_l	Low	Float	Real	No		1	0	100	percent	
88	sandfine_ls	S	Integer	Smallint	No						
89	sandfine_r	RV	Float	Real	No		1	0	100	percent	
90	sandfine_rs	S	Integer	Smallint	No						
91	sandfine_h	High	Float	Real	No		1	0	100	percent	
92	sandfine_hs	S	Integer	Smallint	No						
93	sandvf_l	Low	Float	Real	No		1	0	100	percent	
94	sandvf_ls	S	Integer	Smallint	No						
95	sandvf_r	RV	Float	Real	No		1	0	100	percent	
96	sandvf_rs	S	Integer	Smallint	No						

Table Physical Name: chorizon
Table Label: Horizon

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
97	sandvf_h	High	Float	Real	No		1	0	100	percent	
98	sandvf_hs	S	Integer	Smallint	No						
99	silttotal_l	Low	Float	Real	No		1	0	100	percent	
100	silttotal_ls	S	Integer	Smallint	No						
101	silttotal_r	RV	Float	Real	No		1	0	100	percent	
102	silttotal_rs	S	Integer	Smallint	No						
103	silttotal_h	High	Float	Real	No		1	0	100	percent	
104	silttotal_hs	S	Integer	Smallint	No						
105	siltco_l	Low	Float	Real	No		1	0	100	percent	
106	siltco_r	RV	Float	Real	No		1	0	100	percent	
107	siltco_h	High	Float	Real	No		1	0	100	percent	
108	siltfine_l	Low	Float	Real	No		1	0	100	percent	
109	siltfine_r	RV	Float	Real	No		1	0	100	percent	
110	siltfine_h	High	Float	Real	No		1	0	100	percent	
111	claytotal_l	Low	Float	Real	No		1	0	100	percent	
112	claytotal_r	RV	Float	Real	No		1	0	100	percent	
113	claytotal_h	High	Float	Real	No		1	0	100	percent	
114	claysizedcarb_l	Low	Float	Real	No		1	0	100	percent	
115	claysizedcarb_r	RV	Float	Real	No		1	0	100	percent	
116	claysizedcarb_h	High	Float	Real	No		1	0	100	percent	
117	micakind	Mica Kind	Choice	Smallint	No						mica_kind
118	micaveryfinepct_l	Low	Float	Real	No		1	0	100	percent	
119	micaveryfinepct_r	RV	Float	Real	No		1	0	100	percent	
120	micaveryfinepct_h	High	Float	Real	No		1	0	100	percent	
121	micafinepct_l	Low	Float	Real	No		1	0	100	percent	
122	micafinepct_r	RV	Float	Real	No		1	0	100	percent	
123	micafinepct_h	High	Float	Real	No		1	0	100	percent	
124	om_l	Low	Float	Real	No		2	0	100	percent	
125	om_r	RV	Float	Real	No		2	0	100	percent	
126	om_h	High	Float	Real	No		2	0	100	percent	
127	fiberrubbedpct_l	Low	Integer	Smallint	No			0	100	percent	
128	fiberrubbedpct_r	RV	Integer	Smallint	No			0	100	percent	

Table Physical Name: chorizon
Table Label: Horizon

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
129	fiberrubbedpct_h	High	Integer	Smallint	No			0	100	percent	
130	fiberunrubbedpct_l	Low	Integer	Smallint	No			0	100	percent	
131	fiberunrubbedpct_r	RV	Integer	Smallint	No			0	100	percent	
132	fiberunrubbedpct_h	High	Integer	Smallint	No			0	100	percent	
133	dbtenthbar_l	Low	Float	Real	No		2	0.02	2.6	g/cm3	
134	dbtenthbar_ls	S	Integer	Smallint	No						
135	dbtenthbar_r	RV	Float	Real	No		2	0.02	2.6	g/cm3	
136	dbtenthbar_rs	S	Integer	Smallint	No						
137	dbtenthbar_h	High	Float	Real	No		2	0.02	2.6	g/cm3	
138	dbtenthbar_hs	S	Integer	Smallint	No						
139	dbthirdbar_l	Low	Float	Real	No		2	0.02	2.6	g/cm3	
140	dbthirdbar_ls	S	Integer	Smallint	No						
141	dbthirdbar_r	RV	Float	Real	No		2	0.02	2.6	g/cm3	
142	dbthirdbar_rs	S	Integer	Smallint	No						
143	dbthirdbar_h	High	Float	Real	No		2	0.02	2.6	g/cm3	
144	dbthirdbar_hs	S	Integer	Smallint	No						
145	dbfifteenbar_l	Low	Float	Real	No		2	0.02	2.6	g/cm3	
146	dbfifteenbar_ls	S	Integer	Smallint	No						
147	dbfifteenbar_r	RV	Float	Real	No		2	0.02	2.6	g/cm3	
148	dbfifteenbar_rs	S	Integer	Smallint	No						
149	dbfifteenbar_h	High	Float	Real	No		2	0.02	2.6	g/cm3	
150	dbfifteenbar_hs	S	Integer	Smallint	No						
151	dbovendry_l	Low	Float	Float	No		2	0.02	2.6	g/cm3	
152	dbovendry_ls	S	Integer	Smallint	No						
153	dbovendry_r	RV	Float	Float	No		2	0.02	2.6	g/cm3	
154	dbovendry_rs	S	Integer	Smallint	No						
155	dbovendry_h	High	Float	Float	No		2	0.02	2.6	g/cm3	
156	dbovendry_hs	S	Integer	Smallint	No						
157	partdensity	Dp	Float	Real	No		2	0.01	5	g/cm3	
158	partdensity_s	S	Integer	Smallint	No						
159	ksat_l	Low	Float	Real	No		4	0	705	um/s	
160	ksat_ls	S	Integer	Smallint	No						

Table Physical Name: chorizon
Table Label: Horizon

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
161	ksat_r	RV	Float	Real	No		4	0	705	um/s	
162	ksat_rs	S	Integer	Smallint	No						
163	ksat_h	High	Float	Real	No		4	0	705	um/s	
164	ksat_hs	S	Integer	Smallint	No						
165	awc_l	Low	Float	Real	No		2	0	0.7	cm/cm	
166	awc_ls	S	Integer	Smallint	No						
167	awc_r	RV	Float	Real	No		2	0	0.7	cm/cm	
168	awc_rs	S	Integer	Smallint	No						
169	awc_h	High	Float	Real	No		2	0	0.7	cm/cm	
170	awc_hs	S	Integer	Smallint	No						
171	wtenthbar_l	Low	Float	Real	No		1	0	100	percent	
172	wtenthbar_ls	S	Integer	Smallint	No						
173	wtenthbar_r	RV	Float	Real	No		1	0	100	percent	
174	wtenthbar_rs	S	Integer	Smallint	No						
175	wtenthbar_h	High	Float	Real	No		1	0	100	percent	
176	wtenthbar_hs	S	Integer	Smallint	No						
177	wthirdbar_l	Low	Float	Real	No		1	0	100	percent	
178	wthirdbar_ls	S	Integer	Smallint	No						
179	wthirdbar_r	RV	Float	Real	No		1	0	100	percent	
180	wthirdbar_rs	S	Integer	Smallint	No						
181	wthirdbar_h	High	Float	Real	No		1	0	100	percent	
182	wthirdbar_hs	S	Integer	Smallint	No						
183	wfifteenbar_l	Low	Float	Real	No		1	0	100	percent	
184	wfifteenbar_ls	S	Integer	Smallint	No						
185	wfifteenbar_r	RV	Float	Real	No		1	0	100	percent	
186	wfifteenbar_rs	S	Integer	Smallint	No						
187	wfifteenbar_h	High	Float	Real	No		1	0	100	percent	
188	wfifteenbar_hs	S	Integer	Smallint	No						
189	wsatiated_l	Low	Integer	Smallint	No			0	100	percent	
190	wsatiated_ls	S	Integer	Smallint	No						
191	wsatiated_r	RV	Integer	Smallint	No			0	100	percent	
192	wsatiated_rs	S	Integer	Smallint	No						

Table Physical Name: chorizon
Table Label: Horizon

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
193	wsatiated_h	High	Integer	Smallint	No			0	100	percent	
194	wsatiated_hs	S	Integer	Smallint	No						
195	lep_l	Low	Float	Real	No		1	0	30	percent	
196	lep_ls	S	Integer	Smallint	No						
197	lep_r	RV	Float	Real	No		1	0	30	percent	
198	lep_rs	S	Integer	Smallint	No						
199	lep_h	High	Float	Real	No		1	0	30	percent	
200	lep_hs	S	Integer	Smallint	No						
201	ll_l	Low	Float	Real	No		1	0	400	percent	
202	ll_ls	S	Integer	Smallint	No						
203	ll_r	RV	Float	Real	No		1	0	400	percent	
204	ll_rs	S	Integer	Smallint	No						
205	ll_h	High	Float	Real	No		1	0	400	percent	
206	ll_hs	S	Integer	Smallint	No						
207	pi_l	Low	Float	Real	No		1	0	130	percent	
208	pi_ls	S	Integer	Smallint	No						
209	pi_r	RV	Float	Real	No		1	0	130	percent	
210	pi_rs	S	Integer	Smallint	No						
211	pi_h	High	Float	Real	No		1	0	130	percent	
212	pi_hs	S	Integer	Smallint	No						
213	taucfact	TauC	Choice	Smallint	No					Pa	critical_shear_stress
214	aashind_l	Low	Integer	Smallint	No			0	120		
215	aashind_ls	S	Integer	Smallint	No						
216	aashind_r	RV	Integer	Smallint	No			0	120		
217	aashind_rs	S	Integer	Smallint	No						
218	aashind_h	High	Integer	Smallint	No			0	120		
219	aashind_hs	S	Integer	Smallint	No						
220	kwfact	Kw	Choice	Smallint	No						soil_erodibility_factor
221	kwfact_s	S	Integer	Smallint	No						
222	kffact	Kf	Choice	Smallint	No						soil_erodibility_factor
223	kffact_s	S	Integer	Smallint	No						
224	kifact	Ki	Choice	Smallint	No					kg/sec/m4	interrill_erodibility_factor

Table Physical Name: chorizon
Table Label: Horizon

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
225	krfact	Kr	Choice	Smallint	No					sec/m	rill_erodibility_factor
226	caco3_l	Low	Integer	Smallint	No			0	110	percent	
227	caco3_r	RV	Integer	Smallint	No			0	110	percent	
228	caco3_h	High	Integer	Smallint	No			0	110	percent	
229	gypsum_l	Low	Integer	Smallint	No			0	120	percent	
230	gypsum_r	RV	Integer	Smallint	No			0	120	percent	
231	gypsum_h	High	Integer	Smallint	No			0	120	percent	
232	sar_l	Low	Float	Real	No		1	0	9999		
233	sar_r	RV	Float	Real	No		1	0	9999		
234	sar_h	High	Float	Real	No		1	0	9999		
235	esp_l	Low	Integer	Smallint	No			0		percent	
236	esp_r	RV	Integer	Smallint	No			0		percent	
237	esp_h	High	Integer	Smallint	No			0		percent	
238	ec_l	Low	Float	Real	No		1	0	15000	dS/m	
239	ec_r	RV	Float	Real	No		1	0	15000	dS/m	
240	ec_h	High	Float	Real	No		1	0	15000	dS/m	
241	ec15_l	Low	Float	Real	No		1	0	100	dS/m	
242	ec15_r	RV	Float	Real	No		1	0	100	dS/m	
243	ec15_h	High	Float	Real	No		1	0	100	dS/m	
244	cec7_l	Low	Float	Real	No		1	0	400	cmol(+)/kg	
245	cec7_ls	S	Integer	Smallint	No						
246	cec7_r	RV	Float	Real	No		1	0	400	cmol(+)/kg	
247	cec7_rs	S	Integer	Smallint	No						
248	cec7_h	High	Float	Real	No		1	0	400	cmol(+)/kg	
249	cec7_hs	S	Integer	Smallint	No						
250	ecec_l	Low	Float	Real	No		1	0	400	cmol(+)/kg	
251	ecec_ls	S	Integer	Smallint	No						
252	ecec_r	RV	Float	Real	No		1	0	400	cmol(+)/kg	
253	ecec_rs	S	Integer	Smallint	No						
254	ecec_h	High	Float	Real	No		1	0	400	cmol(+)/kg	
255	ecec_hs	S	Integer	Smallint	No						
256	sumbases_l	Low	Float	Float	No		1	0	300	cmol(+)/kg	

Table Physical Name: chorizon
Table Label: Horizon

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
257	sumbases_ls	S	Integer	Smallint	No						
258	sumbases_r	RV	Float	Float	No		1	0	300	cmol(+)/kg	
259	sumbases_rs	S	Integer	Smallint	No						
260	sumbases_h	High	Float	Float	No		1	0	300	cmol(+)/kg	
261	sumbases_hs	S	Integer	Smallint	No						
262	ph1to1h2o_l	Low	Float	Real	No		1	1	13		
263	ph1to1h2o_r	RV	Float	Real	No		1	1	13		
264	ph1to1h2o_h	High	Float	Real	No		1	1	13		
265	ph01mcacl2_l	Low	Float	Real	No		1	1	13		
266	ph01mcacl2_r	RV	Float	Real	No		1	1	13		
267	ph01mcacl2_h	High	Float	Real	No		1	1	13		
268	phoxidized_l	Low	Float	Real	No		1	1	13		
269	phoxidized_r	RV	Float	Real	No		1	1	13		
270	phoxidized_h	High	Float	Real	No		1	1	13		
271	freeiron_l	Low	Float	Real	No		2	0	100	percent	
272	freeiron_r	RV	Float	Real	No		2	0	100	percent	
273	freeiron_h	High	Float	Real	No		2	0	100	percent	
274	feoxalate_l	Low	Float	Real	No		2	0	150000	mg/kg	
275	feoxalate_r	RV	Float	Real	No		2	0	150000	mg/kg	
276	feoxalate_h	High	Float	Real	No		2	0	150000	mg/kg	
277	extracid_l	Low	Float	Real	No		1	0	250	cmol(+)/kg	
278	extracid_ls	S	Integer	Smallint	No						
279	extracid_r	RV	Float	Real	No		1	0	250	cmol(+)/kg	
280	extracid_rs	S	Integer	Smallint	No						
281	extracid_h	High	Float	Real	No		1	0	250	cmol(+)/kg	
282	extracid_hs	S	Integer	Smallint	No						
283	extral_l	Low	Float	Real	No		2	0	150	cmol(+)/kg	
284	extral_r	RV	Float	Real	No		2	0	150	cmol(+)/kg	
285	extral_h	High	Float	Real	No		2	0	150	cmol(+)/kg	
286	aloxalate_l	Low	Float	Real	No		2	0	170000	mg/kg	
287	aloxalate_r	RV	Float	Real	No		2	0	170000	mg/kg	
288	aloxalate_h	High	Float	Real	No		2	0	170000	mg/kg	

Table Physical Name: chorizon
Table Label: Horizon

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
289	rmonosulfidep	Reduced Monosulfide Presence	Boolean	Bit	Yes						
290	pbray1_l	Low	Float	Real	No		1	0	500	mg/kg	
291	pbray1_r	RV	Float	Real	No		1	0	500	mg/kg	
292	pbray1_h	High	Float	Real	No		1	0	500	mg/kg	
293	poxalate_l	Low	Float	Real	No		1	0		mg/kg	
294	poxalate_r	RV	Float	Real	No		1	0		mg/kg	
295	poxalate_h	High	Float	Real	No		1	0		mg/kg	
296	ph2osoluble_l	Low	Float	Real	No		1	0	5000	mg/kg	
297	ph2osoluble_r	RV	Float	Real	No		1	0	5000	mg/kg	
298	ph2osoluble_h	High	Float	Real	No		1	0	5000	mg/kg	
299	ptotal_l	Low	Float	Real	No		2	0		percent	
300	ptotal_r	RV	Float	Real	No		2	0		percent	
301	ptotal_h	High	Float	Real	No		2	0		percent	
302	nzpretention_l	Low	Float	Real	No		1	0	100	percent	
303	nzpretention_r	RV	Float	Real	No		1	0	100	percent	
304	nzpretention_h	High	Float	Real	No		1	0	100	percent	
305	excavdifcl	Excav Diff	Choice	Smallint	No						excavation_difficulty_class
306	excavdifms	Excav Diff Moisture	Choice	Smallint	No						observed_soil_moisture_status
307	layerid	SIR Layer (obsolete)	Choice	Smallint	No						sir_layer_id_number
308	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
309	recuseriidref	Record Last Updated By	Integer	Int	No						
310	chiid	Rec ID	Integer	Int	Yes						

The Horizon table lists the horizons for each component. If the horizon thickness is greater than zero (low=5, RV=8, high=12), the horizon exists everywhere this component occurs in this mapunit. If the horizon thickness includes zero (low=0, RV=1, high=3), the horizon may exist in some places where this component occurs, but may not exist in other places.

Horizons that have two distinct parts, such as E/B or E&Bt, are recorded twice. Once for the characteristics of the first part; and again on another row, using the same depths and thicknesses, for the characteristics of the other part.

Table Physical Name: chpores
Table Label: Horizon Pores

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	chiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	poreqty_l	Low	Float	Real	No		1	0	99	pores/area	
4	poreqty_r	RV	Float	Real	No		1	0	99	pores/area	
5	poreqty_h	High	Float	Real	No		1	0	99	pores/area	
6	poresize	Size	Choice	Smallint	No						pore_root_size
7	porecont	Continuity	Choice	Smallint	No						pore_continuity_vertical
8	poreshp	Shape	Choice	Smallint	No						pore_shape
9	rvindicator	Representative?	Boolean	Bit	Yes						
10	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
11	recuseriidref	Record Last Updated By	Integer	Int	No						
12	chporesiid	Rec ID	Integer	Int	Yes						

The Horizon Pores table lists the voids for the horizon shown above in the Horizon table. If the Quantity is greater than zero (low=2, RV=5, high=10) in a row, the voids in that row exist everywhere the horizon and component occur in the mapunit. If the Quantity includes zero (low=0, RV=2, high=5), the void may exist in some places, but not in others. More than one row can be marked as an RV row because a horizon may have more than one size or shape of void.

Table Physical Name: chstruct
Table Label: Horizon Structure

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	chstructgrpiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	structgrade	Grade	Choice	Smallint	No						structure_grade
4	structsize	Size	Choice	Smallint	No						structure_size
5	structtype	Type	Choice	Smallint	No						structure_type
6	structid	Structure ID	Integer	Smallint	No			1			
7	structpartsto	Parts to Structure ID	Integer	Smallint	No			1			
8	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
9	recuseriidref	Record Last Updated By	Integer	Int	No						
10	chstructiid	Rec ID	Integer	Int	Yes						

The Horizon Structure table lists the soil structure size, grade, and shape for the structure group shown in the Horizon Structure Group table. It also provides an indicator of one structure type parting to another type.

NASIS 7.1.4
Tables and Columns

Table Physical Name: chstructgrp
Table Label: Horizon Structure Group

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	chiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	structgrpname	Structure	String	Varchar	No	254					
4	structgrpname_s	S	Integer	Smallint	No						
5	rvindicator	Representative?	Boolean	Bit	Yes						
6	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
7	recuseriidref	Record Last Updated By	Integer	Int	No						
8	chstructgrpiid	Rec ID	Integer	Int	Yes						

The Horizon Structure Group table lists the range of structures for each horizon. The row with the typically occurring structure is identified as the RV row. The entry in this table can be calculated based on entries in the Horizon Structure table.

Table Physical Name: chtext
Table Label: Horizon Text

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	chiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	recdate	Date	Date/Time	Datetime	No						
4	recauthor	Author	String	Varchar	No	25					
5	chorizontextkind	Kind	Choice	Smallint	No						chorizon_text_kind
6	textcat	Category	String	Varchar	No	20					
7	textsubcat	Subcategory	String	Varchar	No	20					
8	textentry	Text Entry	Narrative Text	Varchar(max)	No						
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	chtextiid	Rec ID	Integer	Int	Yes						

The Horizon Text table contains notes and narrative descriptions for each horizon. Horizon text is typically used to document rationale for edits to horizon data elements, but is optional. In many cases, the table is empty.

Table Physical Name: chtexture
Table Label: Horizon Texture

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	chtgiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	texcl	Texture	Choice	Smallint	No						texture_class
4	lieutex	In Lieu	Choice	Smallint	No						terms_used_in_lieu_of_texture
5	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
6	recuseriidref	Record Last Updated By	Integer	Int	No						
7	chtiid	Rec ID	Integer	Int	Yes						

The Horizon Texture table lists the texture, or in lieu of texture, for the texture group shown above in the Horizon Texture Group table. Only the unmodified texture is listed in the Horizon Texture table; modifiers are listed in the Horizon Texture Modifier table. For example, a gravelly loamy sand is shown as "GR-LS" in the Horizon Texture Group table, "ls" in this table, and "gr" in the Horizon Texture Modifier table.

NASIS 7.1.4
Tables and Columns

Table Physical Name: chtexturegrp
Table Label: Horizon Texture Group

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	chiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	texture	Tex Mod & Class	String	Varchar	No	30					
4	texture_s	S	Integer	Smallint	No						
5	stratextsflag	Stratified?	Boolean	Bit	Yes						
6	rvindicator	Representative?	Boolean	Bit	Yes						
7	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
8	recuseriidref	Record Last Updated By	Integer	Int	No						
9	chtgiid	Rec ID	Integer	Int	Yes						

The Horizon Texture Group table lists the range of textures for each horizon. For example, a horizon that is gravelly loamy sand in some places and gravelly loamy coarse sand in other places is shown as GR-LS on one row and GR-LCOS on another row in this table. The row with the typically occurring texture is identified as the RV row. Stratified textures are shown in one row. For example, a horizon that is stratified gravelly loamy fine sand and cobbly coarse sand is shown as SR- GR-LFS CB-COS on one row and the Stratified? column for that row is marked "yes". If two or more textures always occur together but are not stratified, all of the textures are listed on one row and the Stratified? column for that row is marked "no".

Table Physical Name: chtexturemod
Table Label: Horizon Texture Modifier

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	chtiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	texmod	Modifier	Choice	Smallint	No						texture_modifier
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	chtexmodiid	Rec ID	Integer	Int	Yes						

The Horizon Texture Modifier table lists the texture modifiers for the texture shown above in the Horizon Texture Group and Horizon Texture tables. For example, a gravelly loamy sand is shown as "GR-LS" in the Horizon Texture Group table, "ls" in the Horizon Texture table, and "gr" in this table.

Table Physical Name: chunified
Table Label: Horizon Unified

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	chiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	unifiedcl	Unified	Choice	Smallint	No						unified_soil_classification
4	unifiedcl_s	S	Integer	Smallint	No						
5	rvindicator	Representative?	Boolean	Bit	Yes						
6	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
7	recuseriidref	Record Last Updated By	Integer	Int	No						
8	chunifiediid	Rec ID	Integer	Int	Yes						

The Horizon Unified table contains the Unified classifications for the horizon shown above in the Horizon table. One row in the Horizon Unified table is marked as the representative Unified classification for the horizon.

Table Physical Name: cocanopycover
Table Label: Component Canopy Cover

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	coiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	plantcov	Canopy Cover %	Integer	Smallint	No			0	100	percent	
4	lplantiidref	Local Plant	Integer	Int	Yes						
5	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
6	recuseriidref	Record Last Updated By	Integer	Int	No						
7	cocanopycoviid	Rec ID	Integer	Int	Yes						

The Component Canopy Cover table lists the plants that typically occur on this component in this mapunit. The rows in this table, as a group, describe the representative situation for this component in this mapunit.

Table Physical Name: cocropyld
Table Label: Component Crop Yield

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	coiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	cropname	Crop Name	Choice	Smallint	No						crop_name
4	yldunits	Units	Choice	Smallint	No						crop_yield_units
5	nonirryield_l	Low	Float	Real	No		2	0	9999.99		
6	nonirryield_r	RV	Float	Real	No		2	0	9999.99		
7	nonirryield_h	High	Float	Real	No		2	0	9999.99		
8	irryield_l	Low	Float	Real	No		2	0	9999.99		
9	irryield_r	RV	Float	Real	No		2	0	9999.99		
10	irryield_h	High	Float	Real	No		2	0	9999.99		
11	cropprodindex	Prod Index	Integer	Smallint	No			0	100		
12	vasoiprdgrp	VA Soil Prod Grp	Choice	Smallint	No						va_soil_productivity_group
13	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
14	recuseriidref	Record Last Updated By	Integer	Int	No						
15	cocropyldiid	Rec ID	Integer	Int	Yes						

The Component Crop Yield table lists commonly grown crops and their expected range in yields when grown on this component in this mapunit.

Table Physical Name: codiagfeatures
Table Label: Component Diagnostic Features

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	coiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	featdept_l	Low	Integer	Smallint	No			0	9999	cm	
4	featdept_r	RV	Integer	Smallint	No			0	9999	cm	
5	featdept_h	High	Integer	Smallint	No			0	9999	cm	
6	featdepb_l	Low	Integer	Smallint	No			0	9999	cm	
7	featdepb_r	RV	Integer	Smallint	No			0	9999	cm	
8	featdepb_h	High	Integer	Smallint	No			0	9999	cm	
9	featthick_l	Low	Integer	Smallint	No			0	9999	cm	
10	featthick_r	RV	Integer	Smallint	No			0	9999	cm	
11	featthick_h	High	Integer	Smallint	No			0	9999	cm	
12	featkind	Kind	Choice	Smallint	No						diag_horz_feat_kind
13	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
14	recuseriidref	Record Last Updated By	Integer	Int	No						
15	codiagfeatiid	Rec ID	Integer	Int	Yes						

The Component Diagnostic Features table lists the typical features, such as ochric epipedon or cambic horizon, for this component in this data mapunit. The rows in this table, as a group, describe the representative situation for this component in this mapunit.

Table Physical Name: coecosite
Table Label: Component Ecological Site

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	coiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	ecositeiidref	Ecological Site	Integer	Int	Yes						
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	coecositeiid	Rec ID	Integer	Int	Yes						

The Component Ecological Site table records the NRCS ecological site(s) associated with a particular data mapunit component. Other vegetative classifications associated with a component are recorded in the Component Other Vegetative Classification table.

For a typical intensity of mapping (Order 2), one and only one NRCS ecological site should be associated with a component. It is permissible to associate more than one ecological site with a component in areas of higher order mapping.

Table Physical Name: coeplants
Table Label: Component Existing Plants

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	coiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	lplantiidref	Local Plant	Integer	Int	Yes						
4	forestunprod	Understory Comp %	Integer	Smallint	No			0	100	percent	
5	rangeprod	Range Comp %	Integer	Smallint	No			0	100	percent	
6	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
7	recuseriidref	Record Last Updated By	Integer	Int	No						
8	coeplantsiid	Rec ID	Integer	Int	Yes						

The Component Existing Plants table lists the plants, either rangeland or forestland, that typically occur on this component in this data mapunit. The rows in this table, as a group, describe the representative situation for this component in this data mapunit.

Table Physical Name: coerosionacc
Table Label: Component Erosion Accelerated

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	coiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	erokind	Kind	Choice	Smallint	No						erosion_accelerated_kind
4	rvindicator	Representative?	Boolean	Bit	Yes						
5	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
6	recuseriidref	Record Last Updated By	Integer	Int	No						
7	coeroacciid	Rec ID	Integer	Int	Yes						

The Component Erosion Accelerated table lists the kinds of accelerated erosion that occur on this component in this mapunit. One row in this table is marked as the representative kind of accelerated erosion for this component.

Table Physical Name: coforprod
Table Label: Component Forest Productivity

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	coiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	lplantiidref	Local Plant	Integer	Int	Yes						
4	siteindexbase	Site Index Base	Choice	Smallint	No						site_index_curves
5	siteindex_l	Low	Integer	Smallint	No			1	300	feet	
6	siteindex_r	RV	Integer	Smallint	No			1	300	feet	
7	siteindex_h	High	Integer	Smallint	No			1	300	feet	
8	siteindexstddev	Site Index Std Deviation	Float	Real	No		1	0	99.9	feet	
9	fprodcmai_l	Low	Float	Real	No		2	0	9999	ft3/ac/yr CMAI	
10	fprodcmai_r	RV	Float	Real	No		2	0	9999	ft3/ac/yr CMAI	
11	fprodcmai_h	High	Float	Real	No		2	0	9999	ft3/ac/yr CMAI	
12	fprodage	Productivity CMAI Age	Integer	Smallint	No			0	999	yrs	
13	mnfprodindex	MN Prod Index	Integer	Int	No			0	100		
14	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
15	recuseriidref	Record Last Updated By	Integer	Int	No						
16	cofprodiid	Rec ID	Integer	Int	Yes						

The Component Forest Productivity table lists the site index and the annual productivity in cubic feet per acre per year (ft3/ac/yr CMAI) of forest overstory tree species that typically occur on this component in this component.

Table Physical Name: coforprodo
Table Label: Component Forest Productivity - Other

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	cofprodiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	siteindexbase	Site Index Base	Choice	Smallint	No						site_index_curves
4	siteindex_l	Low	Integer	Smallint	No			1	300	feet	
5	siteindex_r	RV	Integer	Smallint	No			1	300	feet	
6	siteindex_h	High	Integer	Smallint	No			1	300	feet	
7	fprod_l	Low	Float	Real	No		2	0	9999		
8	fprod_r	RV	Float	Real	No		2	0	9999		
9	fprod_h	High	Float	Real	No		2	0	9999		
10	fprodunits	Units	Choice	Smallint	No						forest_productivity_units
11	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
12	recuseriidref	Record Last Updated By	Integer	Int	No						
13	cofprodoiid	Rec ID	Integer	Int	Yes						

The Component Forest Productivity - Other table lists the site index and annual productivity of forest overstory tree species in units other than cubic feet per acre per year for trees that typically occur on this component in this mapunit.

Table Physical Name: cogeomordesc
Table Label: Component Geomorphic Description

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	coiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	rvindicator	Representative?	Boolean	Bit	Yes						
4	geomfiidref	Geomorphic Feature	Integer	Int	Yes						
5	geomfmod	Feature Modifier	String	Varchar	No	60					
6	geomfeatid	Feature ID	Integer	Smallint	No						
7	existsonfeat	Exists On Feature ID	Integer	Smallint	No						
8	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
9	recuseriidref	Record Last Updated By	Integer	Int	No						
10	cogeomdiid	Rec ID	Integer	Int	Yes						

The Component Geomorphic Description table lists the geomorphic features on which this component occurs when mapped in this mapunit.

Table Physical Name: cohydcrit
Table Label: Component Hydric Criteria

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	coiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	hydriccriterion	Hydric Criterion	Choice	Smallint	Yes						hydric_criteria
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	cohydcritiid	Rec ID	Integer	Int	Yes						

The Component Hydric Criteria table lists the hydric soil criteria met for those referenced map unit components that are classified as a "hydric soil."

NASIS 7.1.4
Tables and Columns

Table Physical Name: columnlookup
Table Label: Column Lookup

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	tabcoliidref	Lineage	Integer	Int	Yes						
2	displayseq	Display Sequence	Integer	Int	Yes						
3	branch	Branch	Integer	Int	Yes						
4	relationshipiidref	Relationship	Integer	Int	Yes						
5	displaytabcoliidref	Display Column	Integer	Int	Yes						
6	displaycolumnlabel	Column Label Override	String	Varchar	No	80					
7	choicelistonly	Display Only in Choice List?	Boolean	Bit	Yes						
8	orgper	Originating Person	String	Varchar	No	60					
9	conper	Contact Person	String	Varchar	No	60					
10	pendact	Pending Action	Choice	Smallint	No						pending_action
11	pendstat	Pending Status	Choice	Smallint	No						pending_status
12	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
13	recuseriidref	Record Last Updated By	Integer	Int	No						
14	columnlookupiid	Rec ID	Integer	Int	Yes						

Column lookup data

NASIS 7.1.4
Tables and Columns

Table Physical Name: columnlookuphist
Table Label: Column Lookup History

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	columnlookupiidref	Lineage	Integer	Int	Yes						
2	notedate	Date	Date/Time	Datetime	No						
3	notes	Notes	Narrative Text	Varchar(max)	No						
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	collookupnoteiid	Rec ID	Integer	Int	Yes						

This table records notes about issues with and changes to a particular column lookup.

Table Physical Name: comonth
Table Label: Component Month

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	coiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	month	Month	Choice	Smallint	No						flooding_ponding_month
4	flodfreqcl	Flooding Frequency	Choice	Smallint	No						flooding_frequency_class
5	floddurcl	Flooding Duration	Choice	Smallint	No						flooding_duration_class
6	pondfreqcl	Ponding Frequency	Choice	Smallint	No						ponding_frequency_class
7	ponddurcl	Ponding Duration	Choice	Smallint	No						ponding_duration_class
8	ponddep_l	Low	Integer	Smallint	No			0	185	cm	
9	ponddep_r	RV	Integer	Smallint	No			0	185	cm	
10	ponddep_h	High	Integer	Smallint	No			0	185	cm	
11	dlyavgprecip_l	Low	Integer	Smallint	No			0	750	mm	
12	dlyavgprecip_r	RV	Integer	Smallint	No			0	750	mm	
13	dlyavgprecip_h	High	Integer	Smallint	No			0	750	mm	
14	dlyavgpotet_l	Low	Integer	Smallint	No			0	300	mm	
15	dlyavgpotet_r	RV	Integer	Smallint	No			0	300	mm	
16	dlyavgpotet_h	High	Integer	Smallint	No			0	300	mm	
17	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
18	recuseriidref	Record Last Updated By	Integer	Int	No						
19	comonthiid	Rec ID	Integer	Int	Yes						

The Component Month lists the monthly flooding and ponding characteristics for this component in this mapunit. This table has one row for each month of the year.

NASIS 7.1.4
Tables and Columns

Table Physical Name: comparativeyielddata
Table Label: Comparative Yield Data

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	vegtransectiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	quadratnumber	Quadrat #	Integer	Int	Yes			1	999		
4	transectpointlocation	Transect Point Location	Float	Real	No		1	0	1000	feet	
5	yieldrank	Yield Rank	Integer	Int	Yes			0	5		
6	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
7	recuseriidref	Record Last Updated By	Integer	Int	No						
8	compyielddataiid	Rec ID	Integer	Int	Yes						

This table contains data collected using the Comparative Yield protocol as part of a vegetation inventory.

Table Physical Name: comparativeyieldrefquadrats
Table Label: Comparative Yield Reference Quadrats

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	vegtransectiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	refyieldrank	Ref Yeild Rank	Choice	Smallint	Yes						reference_yield_rank
4	quadratsize	Quadrat Size	Float	Real	Yes		2	0.1	999	ft2	
5	quadratshape	Quadrat Shape	Choice	Smallint	Yes						quadrat_shape
6	clippedwtrefquadrat	Clipped Wieght	Integer	Int	Yes			0		g	
7	compyldconvfactor	Conversion Factor	Float	Real	Yes		2	0.01	999.99		
8	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
9	recuseriidref	Record Last Updated By	Integer	Int	No						
10	compyldrefquadiid	Rec ID	Integer	Int	Yes						

This table contains data about the reference quadrats from the Comparative Yield protocol as part of a vegetation inventory.

NASIS 7.1.4
Tables and Columns

Table Physical Name: component
Table Label: Component

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	dmuiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	comppct_l	Low	Integer	Smallint	No			0	100	percent	
4	comppct_r	RV	Integer	Smallint	No			0	100	percent	
5	comppct_h	High	Integer	Smallint	No			0	100	percent	
6	compname	Component Name	String	Varchar	No	60					
7	compname_s	S	Integer	Smallint	No						
8	localphase	Local Phase	String	Varchar	No	40					
9	compkind	Taxon Kind	Choice	Smallint	No						component_kind
10	majcompflag	Major Component	Boolean	Bit	Yes						
11	otherph	SIR phase - obsolete	String	Varchar	No	40					
12	slope_l	Low	Float	Real	No		1	0	999	percent	
13	slope_r	RV	Float	Real	No		1	0	999	percent	
14	slope_h	High	Float	Real	No		1	0	999	percent	
15	slopelenusle_l	Low	Integer	Smallint	No			0	4000	meters	
16	slopelenusle_r	RV	Integer	Smallint	No			0	4000	meters	
17	slopelenusle_h	High	Integer	Smallint	No			0	4000	meters	
18	runoff	Local Runoff Class	Choice	Smallint	No						runoff
19	runoff_s	S	Integer	Smallint	No						
20	tfact	T	Integer	Smallint	No			1	5	tons/acre/yr	
21	tfact_s	S	Integer	Smallint	No						
22	wei	WEI	Choice	Smallint	No					tons/acre/yr	wind_erodibility_index
23	wei_s	S	Integer	Smallint	No						
24	weg	WEG	Choice	Smallint	No						wind_erodibility_group
25	weg_s	S	Integer	Smallint	No						
26	erocl	Erosion Class	Choice	Smallint	No						erosion_class
27	earthcovkind1	Cover Kind 1	Choice	Smallint	No						earth_cover_kind_level_one
28	earthcovkind2	Cover Kind 2	Choice	Smallint	No						earth_cover_kind_level_two
29	hydricon	Hydric Condition	Choice	Smallint	No						hydric_condition
30	hydricrating	Hydric Rating	Choice	Smallint	No						hydric_rating
31	drainagecl	Drainage Class	Choice	Smallint	No						drainage_class
32	hydrologystatus	Hydrology Status	Choice	Smallint	No						hydrology_status

Table Physical Name: component
Table Label: Component

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
33	elev_l	Low	Float	Real	No		1	-300	8550	meters	
34	elev_r	RV	Float	Real	No		1	-300	8550	meters	
35	elev_h	High	Float	Real	No		1	-300	8550	meters	
36	aspectccwise	Aspect Counter Clockwise	Integer	Smallint	No			0	360	degrees	
37	aspectrep	Aspect Representative	Integer	Smallint	No			0	360	degrees	
38	aspectcwise	Aspect Clockwise	Integer	Smallint	No			0	360	degrees	
39	albedodry_l	Low	Float	Real	No		2	0	1		
40	albedodry_ls	S	Integer	Smallint	No						
41	albedodry_r	RV	Float	Real	No		2	0	1		
42	albedodry_rs	S	Integer	Smallint	No						
43	albedodry_h	High	Float	Real	No		2	0	1		
44	albedodry_hs	S	Integer	Smallint	No						
45	airtempa_l	Low	Float	Real	No		1	-50	50	degrees c	
46	airtempa_r	RV	Float	Real	No		1	-50	50	degrees c	
47	airtempa_h	High	Float	Real	No		1	-50	50	degrees c	
48	map_l	Low	Integer	Smallint	No			0	11500	mm	
49	map_r	RV	Integer	Smallint	No			0	11500	mm	
50	map_h	High	Integer	Smallint	No			0	11500	mm	
51	reannualprecip_l	Low	Integer	Smallint	No			0	11500	mm	
52	reannualprecip_r	RV	Integer	Smallint	No			0	11500	mm	
53	reannualprecip_h	High	Integer	Smallint	No			0	11500	mm	
54	ffd_l	Low	Integer	Smallint	No			0	365	days	
55	ffd_r	RV	Integer	Smallint	No			0	365	days	
56	ffd_h	High	Integer	Smallint	No			0	365	days	
57	soiltempa_l	Low	Float	Real	No		1	-40	50	degrees c	
58	soiltempa_r	RV	Float	Real	No		1	-40	50	degrees c	
59	soiltempa_h	High	Float	Real	No		1	-40	50	degrees c	
60	watertempa_l	Low	Float	Real	No		1	-10	50	degrees c	
61	watertempa_r	RV	Float	Real	No		1	-10	50	degrees c	
62	watertempa_h	High	Float	Real	No		1	-10	50	degrees c	
63	nirrcapcl	Nirr LCC	Choice	Smallint	No						capability_class
64	nirrcapscl	Nirr Subcl	Choice	Smallint	No						capability_subclass

Table Physical Name: component
Table Label: Component

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
65	nirrcapunit	Nirr LCU	Integer	Smallint	No			1	99		
66	irrcapcl	Irr LCC	Choice	Smallint	No						capability_class
67	irrcapscl	Irr Subcl	Choice	Smallint	No						capability_subclass
68	irrcapunit	Irr LCU	Integer	Smallint	No			1	99		
69	cropprodindex	Prod Index	Integer	Smallint	No			0	100		
70	constreeshrubgrp	Cons Tree Shrub Group	Choice	Smallint	No						conservation_tree_shrub_group
71	constreeshrubgrp_s	S	Integer	Smallint	No						
72	wndbrksuitgrp	Windbreak Suitability (Obsolete)	Choice	Smallint	No						windbreak_suitability_group
73	rsprod_l	Low	Integer	Int	No			0	20000	lbs/acre/yr	
74	rsprod_r	RV	Integer	Int	No			0	20000	lbs/acre/yr	
75	rsprod_h	High	Integer	Int	No			0	20000	lbs/acre/yr	
76	forsgrptype	Forage Suitability Group Type	Choice	Smallint	No						forage_suitability_grp_type
77	forsgrpmlra	Forage Suitability Group MLRA	Choice	Smallint	No						ecological_site_mlra
78	forsgrplru	Forage Suitability Group LRU	Choice	Smallint	No						ecological_site_lru
79	forsgrpnumber	Forage Suitability Group Number	String	Char	No	3					
80	forsgrpstate	Forage Suitability Group State	Choice	Smallint	No						state_alpha_fips_code
81	lplantiidref	Ord Species (Obsolete)	Integer	Int	No						
82	ordsymcl	Ord Class (Obsolete)	Integer	Smallint	No			0	50		
83	ordsymscl	Ord Subcl (Obsolete)	Choice	Smallint	No						ordination_symbol_subclass
84	ordsymgrp	Ord Group (Obsolete)	Integer	Smallint	No			1	99		
85	wderosionrtg	Erosion Hazard	Choice	Smallint	No						woodland_rating
86	wdequiprtg	Equipment Limitations	Choice	Smallint	No						woodland_rating
87	wdseedmortlty	Seedling Mortality	Choice	Smallint	No						woodland_rating
88	wdplantcompetn	Plant Competition	Choice	Smallint	No						woodland_rating
89	wdwindthrowhzd	Windthrow Hazard	Choice	Smallint	No						woodland_rating
90	wlgrain	Grain Habitat	Choice	Smallint	No						wildlife_rating
91	wlgrass	Grass Habitat	Choice	Smallint	No						wildlife_rating
92	wlherbaceous	Herbaceous Habitat	Choice	Smallint	No						wildlife_rating
93	wlshrub	Shrub Habitat	Choice	Smallint	No						wildlife_rating
94	wlconiferous	Conifer Habitat	Choice	Smallint	No						wildlife_rating
95	wlhardwood	Hardwood Habitat	Choice	Smallint	No						wildlife_rating

Table Physical Name: component
Table Label: Component

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
96	wlwetplant	Wetland Habitat	Choice	Smallint	No						wildlife_rating
97	wlshallowwat	Water Habitat	Choice	Smallint	No						wildlife_rating
98	wlrangeland	Rangeland Wildlife	Choice	Smallint	No						wildlife_rating
99	wlopenland	Openland Wildlife	Choice	Smallint	No						wildlife_rating
100	wlwoodland	Woodland Wildlife	Choice	Smallint	No						wildlife_rating
101	wlwetland	Wetland Wildlife	Choice	Smallint	No						wildlife_rating
102	soilslippot	Soil Slip Pot	Choice	Smallint	No						soil_slippage_potential
103	frostact	Frost Action	Choice	Smallint	No						potential_frost_action
104	frostact_s	S	Integer	Smallint	No						
105	initsub_l	Low	Integer	Smallint	No			0	999	cm	
106	initsub_ls	S	Integer	Smallint	No						
107	initsub_r	RV	Integer	Smallint	No			0	999	cm	
108	initsub_rs	S	Integer	Smallint	No						
109	initsub_h	High	Integer	Smallint	No			0	999	cm	
110	initsub_hs	S	Integer	Smallint	No						
111	totalsub_l	Low	Integer	Smallint	No			0	999	cm	
112	totalsub_ls	S	Integer	Smallint	No						
113	totalsub_r	RV	Integer	Smallint	No			0	999	cm	
114	totalsub_rs	S	Integer	Smallint	No						
115	totalsub_h	High	Integer	Smallint	No			0	999	cm	
116	totalsub_hs	S	Integer	Smallint	No						
117	hydgrp	Hydrologic Group	Choice	Smallint	No						hydrologic_group
118	hydgrp_s	S	Integer	Smallint	No						
119	corcon	Corrosion Concrete	Choice	Smallint	No						corrosion_concrete
120	corcon_s	S	Integer	Smallint	No						
121	corsteel	Corrosion Steel	Choice	Smallint	No						corrosion_uncoated_steel
122	corsteel_s	S	Integer	Smallint	No						
123	taxclname	Taxonomic Class	String	Varchar	No	120					
124	taxclname_s	S	Integer	Smallint	No						
125	taxorder	Order	Choice	Smallint	No						taxonomic_order
126	taxsuborder	Suborder	Choice	Smallint	No						taxonomic_suborder
127	taxgrtgroup	Great Group	Choice	Smallint	No						taxonomic_great_group

Table Physical Name: component
Table Label: Component

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
128	taxsubgrp	Subgroup	Choice	Smallint	No						taxonomic_subgroup
129	taxpartsize	Particle Size	Choice	Smallint	No						taxonomic_family_particle_size
130	taxpartsizemod	Particle Size Mod	Choice	Smallint	No						taxonomic_family_part_size_mod
131	taxceactcl	CEC Activity Cl	Choice	Smallint	No						taxonomic_family_c_e_act_class
132	taxreaction	Reaction	Choice	Smallint	No						taxonomic_family_reaction
133	taxtempcl	Temp Class	Choice	Smallint	No						taxonomic_family_temp_class
134	taxfamhahatmatcl	HAHT Material Class	Choice	Smallint	No						taxonomic_family_haht_mat_class
135	taxmoistscl	Moist Subclass	Choice	Smallint	No						taxonomic_moisture_subclass
136	taxtempregime	Temp Regime	Choice	Smallint	No						taxonomic_temp_regime
137	soiltaxedition	Keys to Taxonomy Edition Used	Choice	Smallint	No						soil_taxonomy_edition
138	castorieindex	CA Storie Index	Integer	Smallint	No			0	100		
139	ctwetland	CT Wetland	Choice	Smallint	Yes						yes_no_n.a.
140	flecolcomnum	FL Ecol Comm #	String	Varchar	No	5					
141	flsoilleachpot	FL Leach Pot	Choice	Smallint	No						fl_soil_leaching_potential
142	flsoirunoffpot	FL Runoff Pot	Choice	Smallint	No						fl_soil_runoff_potential
143	fltemik2use	FL Temik	Choice	Smallint	Yes						yes_no_n.a.
144	fltriumph2use	FL Triumph	Choice	Smallint	Yes						yes_no_n.a.
145	flhe	FL HE	Choice	Smallint	No						yes_no_n.a.
146	flphe	FL PHE	Choice	Smallint	No						yes_no_n.a.
147	iasubsoilp	IA Subsoil P	Choice	Smallint	No						ia_subsoil_p
148	iasubsoilk	IA Subsoil K	Choice	Smallint	No						ia_subsoil_k
149	indraingrp	IN Drainage Grp	String	Char	No	3					
150	innitrateleachi	IN NO3 Leach Index	Integer	Smallint	No			0	99		
151	misoimgmtgrp	MI Soil Mgmt Grp	Choice	Smallint	No						mi_soil_management_group
152	usfscompconcept	USFS Component Concept	Narrative Text	Varchar(max)	No						
153	vasoimgtgrp	VA Soil Mgmt Grp	Choice	Smallint	No						va_soil_management_group
154	s5id	SIR # - obsolete	String	Varchar	No	6					

Table Physical Name: component
Table Label: Component

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
155	miscellaneousarea	Miscellaneous Area	Choice	Smallint	No						miscellaneous_areas
156	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
157	recuseriidref	Record Last Updated By	Integer	Int	No						
158	coiid	Rec ID	Integer	Int	Yes						

The Component table lists the named soils and included soils in each mapunit. If the Component % is greater than zero (low=65, RV=75, high=90) for a component, that component exists in every delineation of that mapunit. If the Component % includes zero (low=0, RV=50, high=90), the component may exist in some delineations, but not in others.

Table Physical Name: coothvegclass
Table Label: Component Other Vegetative Classification

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	coiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	ovegcliidref	Other Veg Class	Integer	Int	Yes						
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	coovegcliid	Rec ID	Integer	Int	Yes						

The Component Other Vegetative Classification table records vegetative classifications associated with a particular mapunit component, other than the NRCS concept of an ecological site. The NRCS ecological site(s) associated with a particular component is recorded in the Component Ecological Site table.

The primary reason for the existence of the Component Other Vegetative Classification table is the need to record the U.S. Forest Service concept of ecological site or habitat type. It also accomodates listing of forage suitability groups and other classifications.

Table Physical Name: copedon
Table Label: Component Pedon

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	coiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	peiidref	Pedon	Integer	Int	Yes						
4	rvindicator	Representative?	Boolean	Bit	Yes						
5	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
6	recuseriidref	Record Last Updated By	Integer	Int	No						
7	copedoniid	Rec ID	Integer	Int	Yes						

This table lists the pedon descriptions used to establish the range in characteristics (and representative values) for the associated component in the Component table. One of the pedons listed (and only one) may be identified as representative for the component.

Table Physical Name: copm
Table Label: Component Parent Material

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	copmgrpiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	pmorder	Vertical Order	Integer	Smallint	No			1			
4	pmdept_l	Low	Integer	Smallint	No			0	9999	cm	
5	pmdept_r	RV	Integer	Smallint	No			0	9999	cm	
6	pmdept_h	High	Integer	Smallint	No			0	9999	cm	
7	pmdepb_l	Low	Integer	Smallint	No			0	9999	cm	
8	pmdepb_r	RV	Integer	Smallint	No			0	9999	cm	
9	pmdepb_h	High	Integer	Smallint	No			0	9999	cm	
10	pmmodifier	Textural Modifier	Choice	Smallint	No						parent_material_modifier
11	pmgenmod	General Modifier	String	Varchar	No	60					
12	pmkind	Kind	Choice	Smallint	No						parent_material_kind
13	pmorigin	Origin	Choice	Smallint	No						parent_material_origin
14	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
15	recuseriidref	Record Last Updated By	Integer	Int	No						
16	copmiid	Rec ID	Integer	Int	Yes						

The Component Parent Material table lists the individual parent materials for the Group Name shown above in the Component Parent Material Group table.

Table Physical Name: copmgrp
Table Label: Component Parent Material Group

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	coiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	pmgroupname	Parent Material Group Name	String	Varchar	No	252					
4	pmgroupname_s	S	Integer	Smallint	No						
5	rvindicator	Representative?	Boolean	Bit	Yes						
6	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
7	recuseriidref	Record Last Updated By	Integer	Int	No						
8	copmgrpiid	Rec ID	Integer	Int	Yes						

The Component Parent Material Group table lists the range of parent materials in which this component formed when mapped in this mapunit. For example, a component formed in one parent material, such as loess, or one vertical sequence of parent materials, such as loamy glacial drift over silty residuum weathered from shale, has one row in this table. A component formed in one parent material in some delineations of this data mapunit, but another parent material (or sequence of parent materials) in other delineations has two rows in this table, one for each parent material (or sequence of parent materials). One row is identified as the representative parent material.

Table Physical Name: copwindbreak
Table Label: Component Potential Windbreak

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	coiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	wndbrkht_l	Low	Float	Real	No		1	0.1	35	meters	
4	wndbrkht_r	RV	Float	Real	No		1	0.1	35	meters	
5	wndbrkht_h	High	Float	Real	No		1	0.1	35	meters	
6	lplantiidref	Local Plant	Integer	Int	Yes						
7	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
8	recuseriidref	Record Last Updated By	Integer	Int	No						
9	copwindbreakiid	Rec ID	Integer	Int	Yes						

The Component Potential Windbreak table lists the windbreak plant species commonly recommended for this component in this mapunit. A windbreak plant listed in this table may be used alone or in combination with other plants.

Table Physical Name: corestrictions
Table Label: Component Restrictions

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	coiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	resdept_l	Low	Integer	Smallint	No			0	9999	cm	
4	resdept_r	RV	Integer	Smallint	No			0	9999	cm	
5	resdept_h	High	Integer	Smallint	No			0	9999	cm	
6	resdepb_l	Low	Integer	Smallint	No			0	9999	cm	
7	resdepb_r	RV	Integer	Smallint	No			0	9999	cm	
8	resdepb_h	High	Integer	Smallint	No			0	9999	cm	
9	resthk_l	Low	Integer	Smallint	No			0	999	cm	
10	resthk_r	RV	Integer	Smallint	No			0	999	cm	
11	resthk_h	High	Integer	Smallint	No			0	999	cm	
12	reskind	Kind	Choice	Smallint	No						restriction_kind
13	reshard	Hardness	Choice	Smallint	No						rupture_resist_block_cem
14	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
15	recuseriidref	Record Last Updated By	Integer	Int	No						
16	corestrictiid	Rec ID	Integer	Int	Yes						

The Component Restrictions table lists the root restrictive features or layers for this component in this mapunit. If the thickness of the restrictive layer is greater than zero (low=5, RV=8, high=10), the restrictive layer exists in all delineations of this data mapunit where this component occurs. If the thickness of the restrictive layer includes zero (low=0, RV=2, high=5), this restrictive layer may exist in some delineations, but not in others. This table will be empty if the component does not have restrictive features, but could have several rows if several restrictive layers occur in the soil.

NASIS 7.1.4
Tables and Columns

Table Physical Name: correlation
Table Label: Correlation

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	muiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	dmuiidref	Data Mapunit	Integer	Int	Yes						
4	repdmu	Rep DMU	Boolean	Bit	Yes						
5	muconacres	Constituent Acres	Integer	Int	No			0		acres	
6	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
7	recuseriidref	Record Last Updated By	Integer	Int	No						
8	corriid	Rec ID	Integer	Int	Yes						

The Correlation table links the mapunit symbol shown above in the Mapunit table to its representative data mapunit, thus providing map unit composition and characteristics for this mapunit. This table may also link the mapunit symbol to other non-representative data mapunits, thus providing for correlation of older additional symbols used in this legend.

Table Physical Name: cosoilmoist
Table Label: Component Soil Moisture

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	comonthiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	soimoistdept_l	Low	Integer	Smallint	No			0	9999	cm	
4	soimoistdept_r	RV	Integer	Smallint	No			0	9999	cm	
5	soimoistdept_h	High	Integer	Smallint	No			0	9999	cm	
6	soimoistdepb_l	Low	Integer	Smallint	No			0	9999	cm	
7	soimoistdepb_r	RV	Integer	Smallint	No			0	9999	cm	
8	soimoistdepb_h	High	Integer	Smallint	No			0	9999	cm	
9	soimoiststat	Moisture Status	Choice	Smallint	No						soil_moisture_status
10	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
11	recuseriidref	Record Last Updated By	Integer	Int	No						
12	cosoilmoistiid	Rec ID	Integer	Int	Yes						

The Component Soil Moisture table describes the typical soil moisture profile in this component during the month shown above in the Component Month table. The soil moisture profiles for each month, taken as a group of twelve months, describe the representative situation for this component in this mapunit.

Table Physical Name: cosoiltemp
Table Label: Component Soil Temperature

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	comonthiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	soitempdept_l	Low	Integer	Smallint	No			0	9999	cm	
4	soitempdept_r	RV	Integer	Smallint	No			0	9999	cm	
5	soitempdept_h	High	Integer	Smallint	No			0	9999	cm	
6	soitempdepb_l	Low	Integer	Smallint	No			0	9999	cm	
7	soitempdepb_r	RV	Integer	Smallint	No			0	9999	cm	
8	soitempdepb_h	High	Integer	Smallint	No			0	9999	cm	
9	soitempmm	Monthly Temp	Integer	Smallint	No			-40	50	degrees c	
10	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
11	recuseriidref	Record Last Updated By	Integer	Int	No						
12	cosoiltempiid	Rec ID	Integer	Int	Yes						

The Component Soil Temperature table describes the typical soil temperature profile in this component during the month shown above in the Component Month table. The soil temperature profiles for each month, taken as a group of twelve months, describe the representative situation for this component in this mapunit.

Table Physical Name: cosurffrags
Table Label: Component Surface Fragments

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	coiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	sfragcov_l	Low	Float	Real	No		2	0	100	percent	
4	sfragcov_r	RV	Float	Real	No		2	0	100	percent	
5	sfragcov_h	High	Float	Real	No		2	0	100	percent	
6	distrocks_l	Low	Float	Real	No		2	0	50	meters	
7	distrocks_r	RV	Float	Real	No		2	0	50	meters	
8	distrocks_h	High	Float	Real	No		2	0	50	meters	
9	sfragsize_l	Low	Integer	Smallint	No			2		mm	
10	sfragsize_r	RV	Integer	Smallint	No			2		mm	
11	sfragsize_h	High	Integer	Smallint	No			2		mm	
12	sfragkind	Kind	Choice	Smallint	No						fragment_kind
13	sfragshp	Shape	Choice	Smallint	No						fragment_shape
14	sfraground	Roundness	Choice	Smallint	No						fragment_roundness
15	sfraghard	Hardness	Choice	Smallint	No						rupture_resist_block_cem
16	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
17	recuseriidref	Record Last Updated By	Integer	Int	No						
18	cosurffragsiid	Rec ID	Integer	Int	Yes						

The Component Surface Fragments table lists the organic or mineral fragments on the surface of the soil. If the cover percent is greater than zero (low=0.1, RV=1, high=3) for a row in this table, the fragment is in every delineation of this data mapunit where this component occurs. If the Cover % includes zero (low=0, RV=0.01, high=1) for a row in this table, the fragment may exist in some delineations and not in others.

Table Physical Name: cosurfmorphgc
Table Label: Component Three Dimensional Surface Morphometry

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	cogeomdiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	geomposmntn	Geomorphic Component - Mountains	Choice	Smallint	No						geomor_pos_mountain
4	geomposhill	Geomorphic Component - Hills	Choice	Smallint	No						geomor_pos_hill
5	geompostrce	Geomorphic Component - Terraces	Choice	Smallint	No						geomor_pos_terrace
6	geomposflats	Geomorphic Component - Flats	Choice	Smallint	No						geomor_pos_flat
7	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
8	recuseriidref	Record Last Updated By	Integer	Int	No						
9	cosurfmorgciid	Rec ID	Integer	Int	Yes						

The Component Three Dimensional Surface Morphometry table lists the typical geomorphic position (or positions) of the component, in three dimension terms. The geomorphic position(s) listed in this table apply to the geomorphic feature shown above in the Component Geomorphic Description table.

Table Physical Name: cosurfmorphhpp
Table Label: Component Two Dimensional Surface Morphometry

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	cogeomdiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	hillslopeprof	Hillslope Profile	Choice	Smallint	No						hillslope_profile
4	rvindicator	Representative?	Boolean	Bit	Yes						
5	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
6	recuseriidref	Record Last Updated By	Integer	Int	No						
7	cosurfmorhppiid	Rec ID	Integer	Int	Yes						

The Component Two Dimensional Surface Morphometry table lists the geomorphic position (or positions) of the component, in two dimensional hillslope profile terms. The geomorphic position(s) listed in this table apply to the geomorphic feature shown above in the Component Geomorphic Description table.

Table Physical Name: cosurfmorphmr
Table Label: Component Microrelief Surface Morphometry

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	cogeomdiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	geomicrorelief	Microrelief Kind	Choice	Smallint	No						microrelief_kind
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	cosurfmormriid	Rec ID	Integer	Int	Yes						

The Component Microrelief Surface Morphometry table lists the geomorphic position (or positions) of the component, in microrelief terms. The microrelief terms listed here apply to the geomorphic (microrelief) feature shown above in the Component Geomorphic Description table.

Table Physical Name: cosurfmorphss
Table Label: Component Slope Shape Surface Morphometry

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	cogeomdiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	shapeacross	Slope Shape Across	Choice	Smallint	No						slope_shape
4	shapedown	Slope Shape Up/Down	Choice	Smallint	No						slope_shape
5	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
6	recuseriidref	Record Last Updated By	Integer	Int	No						
7	cosurfmorssiid	Rec ID	Integer	Int	Yes						

The Component Slope Shape Surface Morphometry table lists the geomorphic shape (or shapes) of the component, in slope shape terms. The slope shape terms listed in this table apply to the geomorphic feature shown above in the Component Geomorphic Description table.

Table Physical Name: cotaxfmmin
Table Label: Component Taxonomic Family Mineralogy

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	coiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	minorder	Vertical Order	Integer	Smallint	Yes			1			
4	taxminalogy	Mineralogy	Choice	Smallint	Yes						taxonomic_family_mineralogy
5	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
6	recuseriidref	Record Last Updated By	Integer	Int	No						
7	cotaxfmminiid	Rec ID	Integer	Int	Yes						

The Component Taxonomic Family Mineralogy table lists the mineralogy characteristics that apply to this component. The characteristics listed in this table, as a group, describe the representative situation for this component in this mapunit.

Table Physical Name: cotaxmoistcl
Table Label: Component Taxonomic Moisture Class

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	coiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	taxmoistcl	Moisture Class	Choice	Smallint	Yes						taxonomic_moisture_class
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	cotaxmciid	Rec ID	Integer	Int	Yes						

The Component Taxonomic Moisture Class table provides clear identification of the intended taxonomic moisture class, even though moisture class is implied at a higher taxonomic level. The class or classes listed in this table describe the representative situation for the component in this mapunit.

Table Physical Name: cotext
Table Label: Component Text

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	coiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	recdate	Date	Date/Time	Datetime	No						
4	recauthor	Author	String	Varchar	No	25					
5	comptextkind	Kind	Choice	Smallint	No						component_text_kind
6	textcat	Category	String	Varchar	No	20					
7	textsubcat	Subcategory	String	Varchar	No	20					
8	textentry	Text Entry	Narrative Text	Varchar(max)	No						
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	cotextiid	Rec ID	Integer	Int	Yes						

The Component Text table contains notes and narrative descriptions for this component. Component text is typically used to document rationale for edits to component data elements, but is optional. In many cases, the table will be empty.

Table Physical Name: cotreestomng
Table Label: Component Trees To Manage

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	coiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	lplantiidref	Local Plant	Integer	Int	Yes						
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	cotreestopiid	Rec ID	Integer	Int	Yes						

The Component Recommended Trees To Manage table lists the trees commonly recommended for managing on this component in this mapunit.

Table Physical Name: cotxfmother
Table Label: Component Taxonomic Family Other Criteria

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	coiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	taxfamother	Family Other	Choice	Smallint	Yes						taxonomic_family_other
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	cotaxfoiid	Rec ID	Integer	Int	Yes						

The Component Taxonomic Family Other Criteria table lists the other taxonomic characteristics, such as classes of coatings or permanent cracks, that apply to the component. The characteristics listed in this table, as a group, describe the representative situation for this component in this mapunit.

Table Physical Name: cousfsecoclass
Table Label: Component USFS Ecological Classification

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	coiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	usfseciidref	USFS Ecological Classification	Integer	Int	Yes						
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	cousfsecoclsiid	Rec ID	Integer	Int	Yes						

This table records the U.S. ecological classifications for the corresponding component.

Table Physical Name: cousfsgrndcvr
Table Label: Component USFS Ground Cover

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	coiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	usfsgrndcovpct	USFS Ground Cover Percent	Float	Real	Yes		2	0	100	percent	
4	usfsgrndcovtyp	USFS Ground Cover Type	Choice	Smallint	Yes						usfs_ground_cover_type
5	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
6	recuseriidref	Record Last Updated By	Integer	Int	No						
7	cousfsgrndcvriid	Rec ID	Integer	Int	Yes						

This table records the U.S. Forest Service ground cover(s) for the corresponding component.

Table Physical Name: cousfsinterp
Table Label: Component USFS Interpretation

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	coiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	usfsinterpiidref	USFS Interpretation	Integer	Int	Yes						
4	usfsirclassiidref	USFS Interpretation Rating Class	Integer	Int	No						
5	usfsirnumval	USFS Interpretation Rating Numeric Value	Float	Float	No		2				
6	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
7	recuseriidref	Record Last Updated By	Integer	Int	No						
8	cousfsinterpiid	Rec ID	Integer	Int	Yes						

This table records the U.S. Forest Service soil interpretation results for the corresponding component.

Table Physical Name: cousfsirestrict
Table Label: Component USFS Interpretation Restriction

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	cousfsinterpiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	usfsirstrctiidref	USFS Interpretation Restriction	Integer	Int	Yes						
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	cousfsirestrictiid	Rec ID	Integer	Int	Yes						

This table records the U.S. Forest Service soil interpretation restrictions for the corresponding U.S. Forest Service soil interpretation for the corresponding component.

Table Physical Name: croptreedetails
Table Label: Crop Tree Details

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	croptreesummiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	treenumber	Tree ID #	Integer	Int	No			1			
4	plantiidref	Plant	Integer	Int	Yes						
5	treediameterbreastheight	Tree DBH	Float	Real	No		1	1	360	inches	
6	croptreeprimarycat	Primary Category	Choice	Smallint	No						crop_tree_category
7	croptreesecondarycat	Secondary Category	Choice	Smallint	No						crop_tree_category
8	cuttreeindicator	Cut Tree ?	Boolean	Bit	Yes						
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	croptreedetailsiid	Rec ID	Integer	Int	Yes						

This table contains the detailed tree inventory data collected using the Crop Tree Inventory protocol.

Table Physical Name: croptreesubplotdetails
Table Label: Crop Tree Subplot Details

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	croptreesummiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	subplotnumber	Subplot #	Integer	Int	Yes			1			
4	leavetreebasalarea	Leave Tree Basal Area	Integer	Int	No			0	500	ft2/acre	
5	cuttreebasalarea	Cut Tree Basal Area	Integer	Int	No			0	500	ft2/acre	
6	basalareasubplottotal	Total Basal Area	Integer	Int	No			0	500	ft2/acre	
7	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
8	recuseriidref	Record Last Updated By	Integer	Int	No						
9	croptreesubplotdetailsiid	Rec ID	Integer	Int	Yes						

This table contains data pertaining to subplots as part of the Crop Tree Inventory.

Table Physical Name: croptreesummary
Table Label: Crop Tree Summary

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	vegplotiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	treecounttotal	Total # of Trees	Integer	Int	No			0			
4	currenttreedensity	Current Tree Density	Integer	Int	No			1		trees/ac	
5	currentbasalarea	Total Basal Area	Integer	Int	No			0	500	ft2/acre	
6	currentplotavedbh	Average DBH	Float	Real	No		1	1	360	inches	
7	cuttreebasalareaave	Cut Tree Basal Area Ave.	Integer	Int	No			0	500	ft2/acre	
8	leavetreebasalareaave	Leave Tree Basal Area Ave.	Integer	Int	No			0	500	ft2/acre	
9	cuttreecount	# of Cut Trees	Integer	Int	No			0			
10	cuttreedensity	Cut Tree Density	Integer	Int	No			1		trees/ac	
11	cuttreeavedbh	Cut Tree Ave. DBH	Float	Real	No		1	1	360	inches	
12	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
13	recuseriidref	Record Last Updated By	Integer	Int	No						
14	croptreesummaryiid	Rec ID	Integer	Int	Yes						

This table contains summary data for the crop tree inventory plot.

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Table Physical Name: croptreetotals
Table Label: Crop Tree Totals

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	croptreesummiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	croptreeprimarycat	Crop Tree Category	Choice	Smallint	Yes						crop_tree_category
4	categorytreecount	# of Trees	Integer	Int	No			0			
5	categorytreedensity	Tree Density	Integer	Int	No			1		trees/ac	
6	categorydbhave	Ave. DBH	Float	Real	No		1	1	360	inches	
7	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
8	recuseriidref	Record Last Updated By	Integer	Int	No						
9	croptreetotalsiid	Rec ID	Integer	Int	Yes						

This table contains summary data of the individual crop tree categories.

Table Physical Name: customchoicedomain
Table Label: Custom Choice Domain

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	customchoicelistsetiidre	Custom Choice List Set	Integer	Int	Yes						
2	domainid	Domain ID	Integer	Int	Yes						
3	unselecteddomainchoices	Unselected Domain Choices	Narrative Text	Varchar(max)	Yes						
4	customchoicedomainiid	Rec ID	Integer	Int	Yes						

A record in this table corresponds to a customized domain. A customized domain is a domain where only a subset of the choices in that domain are displayed in the choice list. In this context, a domain corresponds to one of the static domains in table MetadataDomainMaster.

Table Physical Name: customchoicelistset
Table Label: Custom Choice List Set

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	customchoicelistsetname	Custom Choice List Set Name	String	Varchar	Yes	60					
2	customchoicelistsetdesc	Custom Choice List Set Description	Narrative Text	Varchar(max)	No						
3	cclsdbiidref	Custom Choice List Set NASIS Site	Integer	Int	Yes						
4	grpiidref	NASIS Group	Integer	Int	Yes						
5	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
6	objuseriidref	Object Last Updated By	Integer	Int	No						
7	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
8	recuseriidref	Record Last Updated By	Integer	Int	No						
9	customchoicelistsetiid	Rec ID	Integer	Int	Yes						

A record in this table corresponds to a set of zero or more customized domains and zero or more customized lookups.

A customized domain is a domain where only a subset of the choices in that domain are displayed in the choice list. In this context, a domain corresponds to one of the static domains in table MetadataDomainMaster.

A customized lookup is a lookup where the choices come from some NASIS table collection, and only a subset of the records in that NASIS table collection are displayed in the choice list.

Table Physical Name: customchoicelookup
Table Label: Custom Choice Lookup

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	customchoicelistsetiidre	Custom Choice List Set	Integer	Int	Yes						
2	tableid	Table ID	Integer	Int	Yes						
3	unselectedlookupchoices	Unselected Lookup Choices	Narrative Text	Varchar(max)	Yes						
4	customchoicelookupiid	Rec ID	Integer	Int	Yes						

A record in this table corresponds to a customized lookup. A customized lookup is a lookup where the choices come from some NASIS table collection, and only a subset of the records in that NASIS table collection are displayed in the choice list.

Table Physical Name: datamapunit
Table Label: Data Mapunit

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	dmudesc	DMU Description	String	Varchar	No	252					
2	muhelcl	HEL (obsolete)	Choice	Smallint	No						mapunit_hel_class
3	muwathelcl	HEL Water (obsolete)	Choice	Smallint	No						mapunit_hel_class
4	muwndhelcl	HEL Wind (obsolete)	Choice	Smallint	No						mapunit_hel_class
5	dmuinterpfocus	Interpretive Focus	String	Varchar	No	30					
6	dmuinvesintens	Order of Mapping	Choice	Smallint	No						dmu_investigation_intensity
7	cropprodindex	Prod Index	Integer	Smallint	No			0	100		
8	ctsepticpot	CT Septic Potential	Choice	Smallint	No						ct_septic_potential
9	iacornsr	IA CSR	Integer	Smallint	No			5	100		
10	nhiforsoigrp	NH Forest Soil Grp	Choice	Smallint	No						nh_important_forest_soil_group
11	nhspiagr	NH SPI Agr	Float	Float	No		1	0	100		
12	njfmlassessment	NJ Farmland Assessment	Choice	Smallint	No						nj_farmland_assessment
13	vtsepticsyscl	VT Septic System	Choice	Smallint	No						vt_septic_system_class_2007
14	dmudbiidref	DMU NASIS Site	Integer	Int	Yes						
15	grpiidref	NASIS Group	Integer	Int	Yes						
16	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
17	objuseriidref	Object Last Updated By	Integer	Int	No						
18	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
19	recuseriidref	Record Last Updated By	Integer	Int	No						
20	dmuiid	Rec ID	Integer	Int	Yes						

The Data Mapunit table lists data mapunits and the owner of each data mapunit. The data mapunit object includes the relative extent, physical and chemical properties, interpretations, and other features for each component in the map unit. Data mapunits are linked to mapunit symbols and names through the Correlation table.

Table Physical Name: daubenmirecancovclasssumm
Table Label: Daubenmire Canopy Cover Class Summary

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	vegtransplantsummiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	daubcancovclass	Canopy Cover Class	Choice	Smallint	Yes						daubenmire_canopy_cover_class
4	cancovclassmidpoint	Class Midpoint %	Float	Real	No		1	0.1	99.9	percent	
5	cancovclasscount	# of Quadrat Hits	Integer	Int	No			0			
6	cancovproduct	Canopy Cover Product	Float	Real	No		1	0			
7	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
8	recuseriidref	Record Last Updated By	Integer	Int	No						
9	daubcancovclsummiid	Rec ID	Integer	Int	Yes						

This table contains data pertaining to canopy cover of individual species collected using the Daubenmire protocol.

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Table Physical Name: daubenmirecancovquaddetail
Table Label: Daubenmire Canopy Cover Quad Details

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	daubcancovclsummiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	quadratnumber	Quadrat #	Integer	Int	Yes			1	999		
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	daubcancovquaddetailiid	Rec ID	Integer	Int	Yes						

This table contains data pertaining to canopy cover of individual plant species collected from individual quadrats using the Daubenmire protocol.

Table Physical Name: densityquadratdetails
Table Label: Density Quadrat Details

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	vegtransplantsummiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	quadratnumber	Quadrat #	Integer	Int	Yes			1	999		
4	transectpointlocation	Transect Point Location	Float	Real	No		1	0	1000	feet	
5	maturecount	# of Mature Plants	Integer	Int	No			1			
6	maturedensityclass	Mature Density Class	Choice	Smallint	No						plant_density_class
7	seedlingcount	# of Seedling Plants	Integer	Int	No			1			
8	seedlingdensityclass	Seedling Density Class	Choice	Smallint	No						plant_density_class
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	densityquaddetailsiid	Rec ID	Integer	Int	Yes						

This table contains data collected along a transect regarding plant density.

Table Physical Name: distcompmd
Table Label: Distribution Component Metadata

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	distmumdiidref	Lineage	Integer	Int	Yes						
2	dmuiidref	Data Mapunit Rec ID	Integer	Int	Yes						
3	coiidref	Component Rec ID	Integer	Int	Yes						
4	compname	Component Name	String	Varchar	No	60					
5	localphase	Local Phase	String	Varchar	No	40					
6	comppct_l	Low	Integer	Smallint	No			0	100	percent	
7	comppct_r	RV	Integer	Smallint	No			0	100	percent	
8	comppct_h	High	Integer	Smallint	No			0	100	percent	
9	compkind	Taxon Kind	Choice	Smallint	No						component_kind
10	otherph	SIR phase - obsolete	String	Varchar	No	40					
11	majcompflag	Major Component	Boolean	Bit	Yes						
12	distcompmdiid	Rec ID	Integer	Int	Yes						

The Distribution Component Metadata table records information about the map unit components selected for inclusion in a set of distributed data. A set of distribution data may include only selected map units from a legend or legends, and only selected components of those map units. The record of the criteria used for selecting map units and components may be found in the Distribution Metadata table.

Table Physical Name: distinterpmd
Table Label: Distribution Interp Metadata

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	distmdiidref	Lineage	Integer	Int	Yes						
2	ruleiidref	Rule Rec ID	Integer	Int	Yes						
3	rulename	Rule Name	String	Varchar	No	60					
4	ruledesc	Description	Narrative Text	Varchar(max)	No						
5	dataafuse	Ready to use?	Boolean	Bit	Yes						
6	mrecentrulecwlu	Most Recent Rule Component When Last Updated	Date/Time	Datetime	No						
7	distinterpmdiid	Rec ID	Integer	Int	Yes						

The Distribution Interp Metadata table records the set of which NASIS fuzzy logic interpretations were generated for the map unit components included in a set of distribution data.

Table Physical Name: distlegendmd
Table Label: Distribution Legend Metadata

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	distmdiidref	Lineage	Integer	Int	Yes						
2	liidref	Legend Rec ID	Integer	Int	Yes						
3	areatypename	Area Type Name	String	Varchar	No	45					
4	areasymbol	Area Symbol	String	Varchar	No	20					
5	areaname	Area Name	String	Varchar	No	135					
6	legenddesc	Legend Description	String	Varchar	No	60					
7	ssastatus	Survey Status	Choice	Smallint	No						soil_survey_area_status
8	cordate	Correlation Date	Date/Time	Datetime	No						
9	legendcertstat	Legend Certification Status	Choice	Smallint	No						legend_certification_status
10	legendsuituse	Geographic Applicability	Choice	Smallint	No						legend_suitability_for_use
11	exportcertstatus	Export Certification Status	Choice	Smallint	No						export_certification_status
12	exportcertdate	Export Certification Date	Date/Time	Datetime	No						
13	exportmetadata	Export Metadata	Narrative Text	Varchar(max)	No						
14	legendwlupdated	Legend Last Updated	Date/Time	Datetime	No						
15	mostrecentdmuwlu	Most Recent Data Mapunit When Last Updated	Date/Time	Datetime	No						
16	legendtotalmus	Legend Total Mapunits	Integer	Int	No						
17	totalexportmus	Total Exported Mapunits	Integer	Int	No						
18	legendtotalamus	Legend Total Additional Mapunits	Integer	Int	No						
19	totalexportamus	Total Exported Additional Mapunits	Integer	Int	No						
20	totalexportdmus	Total Exported Data Mapunits	Integer	Int	No						
21	distlegendmdiid	Rec ID	Integer	Int	Yes						

The Distribution Legend Metadata table records information about the legends or soil survey areas selected for inclusion in a set of distributed data. The presence of a legend in this table does not imply that all of the available data for that legend was included in the set of data that was distributed. Only certain map units and components for that legend may have been selected. The record of the criteria used for selecting map units and components may be found in the Distribution Metadata table.

Table Physical Name: distmapunitmd
Table Label: Distribution Mapunit Metadata

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	distlegendmdiidref	Lineage	Integer	Int	Yes						
2	liidref	Legend Rec ID	Integer	Int	Yes						
3	muiidref	Mapunit Rec ID	Integer	Int	Yes						
4	musym	Mapunit Symbol	String	Varchar	No	6					
5	mustatus	Status	Choice	Smallint	No						mapunit_status
6	muname	Mapunit Name	String	Varchar	No	240					
7	corrtomuiidref	Correlated To Mapunit Rec ID	Integer	Int	No						
8	corrtomusym	Correlated To Mapunit Symbol	String	Varchar	No	6					
9	corrtomustatus	Correlated To Status	Choice	Smallint	No						mapunit_status
10	corrtomuname	Correlated To Mapunit Name	String	Varchar	No	175					
11	dmuiidref	Data Mapunit Rec ID	Integer	Int	No						
12	dmudesc	DMU Description	String	Varchar	No	252					
13	dmucertstat	DMU Certification Status	Choice	Smallint	No						dmu_certification_status
14	dmuwlupdated	Data Mapunit Last Updated	Date/Time	Datetime	No						
15	norepdmureason	No Representative Data Mapunit Reason	String	Varchar	No	254					
16	distmumdiid	Rec ID	Integer	Int	Yes						

The Distribution Mapunit Metadata table records information about the map units selected for inclusion in a set of distributed data. The presence of a map unit in this table does not imply that all of the available data for that map unit was included in the set of data that was distributed. Only certain components for that map unit may have been selected. The record of the criteria used for selecting components may be found in the Distribution Metadata table.

Table Physical Name: distmd
Table Label: Distribution Metadata

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	distreqdate	Distribution Request Date	Date/Time	Datetime	Yes						
2	username	NASIS User Name	String	Varchar	Yes	30					
3	useremailaddr	E-mail Address	String	Varchar	Yes	60					
4	exporttarget	Export Target	Choice	Smallint	No						export_target
5	distgendate	Distribution Generation Date	Date/Time	Datetime	No						
6	diststatus	Distribution Status	Choice	Smallint	Yes						distribution_status
7	interpmaxreasons	Interpretation Maximum Reasons	Integer	Smallint	No			0			
8	muselectcrit	Mapunit Selection Criteria	Choice	Smallint	No						mapunit_selection_criteria
9	mustatprovsnlbool	Mapunit Status Provisional Boolean	Boolean	Bit	Yes						
10	mustatapprvdbool	Mapunit Status Approved Boolean	Boolean	Bit	Yes						
11	mustatcorrbool	Mapunit Status Correlated Boolean	Boolean	Bit	Yes						
12	mustataddtnlbool	Mapunit Status Additional Boolean	Boolean	Bit	Yes						
13	addtnlmudmuselcrit	Additional Mapunit Data Mapunit Selection Criteria	Choice	Smallint	No						addtnl_mu_dmu_select_criteria
14	compselectcrit	Component Selection Criteria	Choice	Smallint	No						component_selection_criteria
15	minpctcomp	Minimum Percent Composition	Integer	Smallint	No			0	100		
16	dmuselectcrit	Data Mapunit Selection Criteria	Choice	Smallint	No						data_mapunit_selection_criteria
17	dmudcsnfdbool	DMU Cert Stat - Not For Distribution Boolean	Boolean	Bit	Yes						
18	dmudcsncbool	DMU Cert Stat - Not Certified Boolean	Boolean	Bit	Yes						
19	dmudcspcbool	DMU Cert Stat - Partly Certified Boolean	Boolean	Bit	Yes						
20	dmudcspcmdbool	DMU Cert Stat - Partly Certified Min Data Boolean	Boolean	Bit	Yes						
21	dmudcspcmcbool	DMU Cert Stat - Partly Certified Major Comps Boolean	Boolean	Bit	Yes						
22	dmudcspcacbool	DMU Cert Stat - Partly Certified All Comps Boolean	Boolean	Bit	Yes						
23	dmudcscbool	DMU Cert Stat - Certified Boolean	Boolean	Bit	Yes						
24	dmudcscmdbool	DMU Cert Stat - Certified Min Data Boolean	Boolean	Bit	Yes						

Table Physical Name: distmd
Table Label: Distribution Metadata

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
25	dmudcscmcbool	DMU Cert Stat - Certified Major Comps Boolean	Boolean	Bit	Yes						
26	dmudcscacbool	DMU Cert Stat - Certified All Comps Boolean	Boolean	Bit	Yes						
27	distdbiidref	Distribution NASIS Site	Integer	Int	Yes						
28	grpiidref	NASIS Group	Integer	Int	Yes						
29	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
30	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
31	distmdiid	Rec ID	Integer	Int	Yes						

The Distribution Metadata table records information associated with the selection of a set of data for distribution to some entity or information system external to NASIS. A set of distribution data may include only selected map units from a legend or legends, and only selected components of those map units. This table records the criteria used for selecting map units and components for inclusion in the set of distributed data. Other recorded information includes the name of the NASIS user who initiated a distribution request, and the times when that request was made, and when that request was ultimately processed.

Table Physical Name: disttextmd
Table Label: Distribution Text Metadata

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	distmdiidref	Lineage	Integer	Int	Yes						
2	tablab	Table Label	String	Varchar	Yes	80					
3	textkindstring	Text Kind String	String	Varchar	Yes	128					
4	disttextmdiid	Rec ID	Integer	Int	Yes						

The Distribution Text Metadata table records which kinds of text entries were included in a distribution.

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Table Physical Name: dmucerthistory
Table Label: Data Mapunit Certification History

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	dmuiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	revieweruseriidref	Reviewer	Integer	Int	No						
4	certificationdate	Certification Date	Date/Time	Datetime	Yes						
5	certificationkind	Certification Kind	Choice	Smallint	Yes						certification_kind
6	dmucertstat	DMU Certification Status	Choice	Smallint	Yes						dmu_certification_status
7	certificationtext	Certification Text	Narrative Text	Varchar(max)	No						
8	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
9	recuseriidref	Record Last Updated By	Integer	Int	No						
10	dmucerthistoryiid	Rec ID	Integer	Int	Yes						

This table records information about the review and certification of the data in the Data mapunit object. As new records are created the previous records are retained in order to maintain a certification history.

Table Physical Name: dmucropyld
Table Label: Data Mapunit Crop Yield

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	dmuiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	cropname	Crop Name	Choice	Smallint	No						crop_name
4	yldunits	Units	Choice	Smallint	No						crop_yield_units
5	nonirryield_l	Low	Float	Real	No		2	0	9999.99		
6	nonirryield_r	RV	Float	Real	No		2	0	9999.99		
7	nonirryield_h	High	Float	Real	No		2	0	9999.99		
8	irryield_l	Low	Float	Real	No		2	0	9999.99		
9	irryield_r	RV	Float	Real	No		2	0	9999.99		
10	irryield_h	High	Float	Real	No		2	0	9999.99		
11	cropprodindex	Prod Index	Integer	Smallint	No			0	100		
12	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
13	recuseriidref	Record Last Updated By	Integer	Int	No						
14	dmucrpyldiid	Rec ID	Integer	Int	Yes						

The Data Mapunit Crop Yield table lists commonly grown crops and their expected yields for this data mapunit.

Table Physical Name: dmutext
Table Label: Data Mapunit Text

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	dmuiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	recdate	Date	Date/Time	Datetime	No						
4	recauthor	Author	String	Varchar	No	25					
5	dmutextkind	Kind	Choice	Smallint	No						data_mapunit_text_kind
6	textcat	Category	String	Varchar	No	20					
7	textsubcat	Subcategory	String	Varchar	No	20					
8	textentry	Text Entry	Narrative Text	Varchar(max)	No						
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	dmutextiid	Rec ID	Integer	Int	Yes						

The Data Mapunit Text table contains notes and narrative descriptions for this data mapunit. Data mapunit text is optional. In many cases, this table is empty.

NASIS 7.1.4
Tables and Columns

Table Physical Name: domaindetail
Table Label: Domain Detail

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	domiidref	Lineage	Integer	Int	Yes						
2	choseq	Sequence	Integer	Smallint	Yes						
3	choid	ID	Integer	Int	Yes						
4	chodetxt	Data Entry Text	String	Varchar	Yes	128					
5	cholabtxt	Label Text	String	Varchar	Yes	248					
6	choaltetxt	Alternate Entry Text	String	Varchar	No	128					
7	chodesc	Description	Narrative Text	Varchar(max)	No						
8	choobbool	Obsolete?	Boolean	Bit	Yes						
9	orgper	Originating Person	String	Varchar	No	60					
10	conper	Contact Person	String	Varchar	No	60					
11	pendact	Pending Action	Choice	Smallint	No						pending_action
12	pendstat	Pending Status	Choice	Smallint	No						pending_status
13	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
14	recuseriidref	Record Last Updated By	Integer	Int	No						
15	domdetiid	Rec ID	Integer	Int	Yes						

This table records the individual members of the domains associated with a particular database. A domain is a finite set of ASCII strings, only one of which at any one time may be assigned as the value of an attribute whose values are restricted to that domain. Other terms used for domain members are choices or codes.

Table Physical Name: domaingroup
Table Label: Domain Group

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	domgrpname	Domain Group Name	String	Varchar	Yes	30					
2	domgrpdesc	Domain Group Description	Narrative Text	Varchar(max)	No						
3	domgrpdbiidref	Domain Group NASIS Site	Integer	Int	Yes						
4	grpiidref	NASIS Group	Integer	Int	Yes						
5	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
6	objuseriidref	Object Last Updated By	Integer	Int	No						
7	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
8	recuseriidref	Record Last Updated By	Integer	Int	No						
9	domgrpiid	Rec ID	Integer	Int	Yes						

A record in this table represent a group of domains that may be shared by more than one application or information system. For example, a domain group named "NASIS" would include domains used by NASIS, SSURGO and Windows Pedon, since all three of these information systems have domains in common.

NASIS 7.1.4
Tables and Columns

Table Physical Name: domainhist
Table Label: Domain History

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	domiidref	Lineage	Integer	Int	Yes						
2	notedate	Date	Date/Time	Datetime	No						
3	notes	Notes	Narrative Text	Varchar(max)	No						
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	domnoteiid	Rec ID	Integer	Int	Yes						

This table records notes about issues with and changes to a particular domain.

NASIS 7.1.4
Tables and Columns

Table Physical Name: domainmaster
Table Label: Domain

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	domgrpiidref	Lineage	Integer	Int	Yes						
2	domnm	Domain Name	String	Varchar	Yes	60					
3	domording	Ordering	Choice	Smallint	Yes						domain_ordering
4	domordbool	Ordered?	Boolean	Bit	Yes						
5	domdlabbool	Display Label?	Boolean	Bit	Yes						
6	domcustbool	Customizable?	Boolean	Bit	Yes						
7	domdesc	Description	Narrative Text	Varchar(max)	No						
8	domainid	Domain ID	Integer	Int	No						
9	orgper	Originating Person	String	Varchar	No	60					
10	conper	Contact Person	String	Varchar	No	60					
11	pendact	Pending Action	Choice	Smallint	No						pending_action
12	pendstat	Pending Status	Choice	Smallint	No						pending_status
13	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
14	recuseriidref	Record Last Updated By	Integer	Int	No						
15	domiid	Rec ID	Integer	Int	Yes						

This table records information about domains that may be associated with one or more attributes. The information in this table pertains to the domain as a whole, not to an individual member of that domain. A domain is a finite set of ASCII strings, only one of which at any one time may be assigned as the value an an attribute whose values are restricted to that domain. Other terms used for domains are choice lists and code sets.

Table Physical Name: domdethist
Table Label: Domain Detail History

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	domdetiidref	Lineage	Integer	Int	Yes						
2	notedate	Date	Date/Time	Datetime	No						
3	notes	Notes	Narrative Text	Varchar(max)	No						
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	domdetnoteiid	Rec ID	Integer	Int	Yes						

This table records notes about issues with and changes to a particular domain choice.

NASIS 7.1.4
Tables and Columns

Table Physical Name: dwrquadratdetails
Table Label: Dry Weight Rank Quadrat Details

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	vegtransplantsummiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	quadratnumber	Quadrat #	Integer	Int	Yes			1	999		
4	transectpointlocation	Transect Point Location	Float	Real	No		1	0	1000	feet	
5	dwrone	DWR 1 ?	Boolean	Bit	Yes						
6	dwrtwo	DWR 2 ?	Boolean	Bit	Yes						
7	dwrthree	DWR 3 ?	Boolean	Bit	Yes						
8	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
9	recuseriidref	Record Last Updated By	Integer	Int	No						
10	dwrquaddetailsiid	Rec ID	Integer	Int	Yes						

This table contains data from individual quadrats along a transect collected using the Dry Weight Rank (DWR) protocol as part of a vegetation inventory.

NASIS 7.1.4
Tables and Columns

Table Physical Name: ecologicalsite
Table Label: Ecological Site

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	ecositeid	Ecological Site ID	String	Char	Yes	11					
2	ecositenm	Ecological Site Name	String	Varchar	No	302					
3	ecositenm_s	S	Integer	Smallint	No						
4	ecositeorigin	Ecological Site Origin	Choice	Smallint	No						ecological_site_origin
5	ecositetype	Ecological Site Type	Choice	Smallint	Yes						ecological_site_type
6	ecositemlra	Ecological Site MLRA	Choice	Smallint	Yes						ecological_site_mlra
7	ecositelru	Ecological Site LRU	Choice	Smallint	Yes						ecological_site_lru
8	ecositenumber	Ecological Site Number	Integer	Smallint	Yes			0	999		
9	ecositestate	Ecological Site State	Choice	Smallint	Yes						state_alpha_fips_code
10	ecositepnm	Ecological Site Primary Name	String	Varchar	No	100					
11	ecositesnm	Ecological Site Secondary Name	String	Varchar	No	100					
12	ecositetnm	Ecological Site Tertiary Name	String	Varchar	No	100					
13	ecositetree1	Ecological Site Tree 1	String	Varchar	No	127					
14	ecositetree2	Ecological Site Tree 2	String	Varchar	No	127					
15	ecositeshrub1	Ecological Site Shrub 1	String	Varchar	No	127					
16	ecositeshrub2	Ecological Site Shrub 2	String	Varchar	No	127					
17	ecositeherb1	Ecological Site Herb 1	String	Varchar	No	127					
18	ecositeherb2	Ecological Site Herb 2	String	Varchar	No	127					
19	ecositenasisiid	Ecological Site Nasis_IID	Integer	Smallint	No						
20	obterm	Obsolete?	Boolean	Bit	Yes						
21	ecositedbiidref	Ecological Site NASIS Site	Integer	Int	Yes						
22	grpiidref	NASIS Group	Integer	Int	Yes						
23	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
24	objuseriidref	Object Last Updated By	Integer	Int	No						
25	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
26	recuseriidref	Record Last Updated By	Integer	Int	No						
27	ecositeiid	Rec ID	Integer	Int	Yes						

The Ecological Site table records the official list of range and forest ecological sites maintained by NRCS and described in the Ecological Site Information System (ESIS). This table records only the identifier and name of an ecological site. The complete ecological site characterization resides in the ESIS database. The official list of ecological sites is maintained in ESIS.

Table Physical Name: editsetup
Table Label: Edit Setup

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	edtsuname	Table Layout Name	String	Varchar	Yes	60					
2	edtsudesc	Description	Narrative Text	Varchar(max)	No						
3	edtsudbiidref	Table Layout NASIS Site	Integer	Int	Yes						
4	grpiidref	NASIS Group	Integer	Int	Yes						
5	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
6	objuseriidref	Object Last Updated By	Integer	Int	No						
7	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
8	recuseriidref	Record Last Updated By	Integer	Int	No						
9	edtsuiid	Rec ID	Integer	Int	Yes						

The edit setup table contains edit setup specifications and the owner of each edit setup specification. An edit setup specifies what columns are visible in the NASIS editor, the order in which those columns are displayed and how the rows in a table should be sorted. Users may create new edit setups at any time. Although edit setups are created and edited in this table, a particular edit setup is selected and applied through the Options Menu.

NASIS 7.1.4
Tables and Columns

Table Physical Name: editsetupelement
Table Label: Edit Setup Element

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	edtsutabiidref	Edit Setup Table	Integer	Int	Yes						
2	elm_iid	Element Internal ID	Integer	Int	Yes			1			
3	natelm_iid	Native Element Internal ID	Integer	Int	No						
4	bandposition	Band Position	Integer	Int	Yes			0			
5	elmposition	Element Position	Integer	Smallint	Yes						
6	elmwidth	Element Width	Integer	Smallint	Yes						
7	elmsortseq	Element Sort Sequence	Integer	Smallint	Yes						
8	elmsortdir	Element Sort Direction	String	Char	Yes	1					
9	edtsuelmiid	Rec ID	Integer	Int	Yes						

This table records edit setup information that pertains to a particular column, such as "is it visible" and what is its width. This table is not visible in the NASIS editor. Its contents are managed though the edit setup editor.

NASIS 7.1.4
Tables and Columns

Table Physical Name: editsetuptable
Table Label: Edit Setup Table

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	edtsuiidref	Edit Setup	Integer	Int	Yes						
2	tbl_iid	Table Internal ID	Integer	Int	Yes			1			
3	tabnumfrozcols	Number of Frozen Columns	Integer	Smallint	Yes						
4	tabnumsortcols	Number of Sort Columns	Integer	Smallint	Yes						
5	edtsutabiid	Rec ID	Integer	Int	Yes						

This table records summary edit setup information that pertains to the table as a whole, such as total number of visible columns. This table is not visible in the NASIS editor. Its contents are managed through the edit setup editor.

Table Physical Name: evaluation
Table Label: Evaluation

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	seqnum	Seq	Integer	Smallint	No			1			
2	evalname	Evaluation Name	String	Varchar	Yes	60					
3	evaldesc	Description	Narrative Text	Varchar(max)	No						
4	eval	Evaluation	Evaluation	Varchar(max)	Yes						
5	evaluationtype	Evaluation Type	Choice	Smallint	Yes						evaluation_type
6	usepropertydomain	Use Property Domain?	Boolean	Bit	Yes						
7	invertevaluationresults	Invert Evaluation Results?	Boolean	Bit	Yes						
8	propiidref	Property	Integer	Int	Yes						
9	dataafuse	Ready to use?	Boolean	Bit	Yes						
10	evaldbiidref	Evaluation NASIS Site	Integer	Int	Yes						
11	grpiidref	NASIS Group	Integer	Int	Yes						
12	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
13	objuseriidref	Object Last Updated By	Integer	Int	No						
14	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
15	recuseriidref	Record Last Updated By	Integer	Int	No						
16	evaliid	Rec ID	Integer	Int	Yes						

The Evaluation table lists the evaluations and the owner of each evaluation. Evaluations are part of the criteria used in making interpretations of soil survey data. Evaluations "evaluate", or give a approximate reasoning value from 0 to 1 to a soil property for use in rules.

Table Physical Name: evaluationtext
Table Label: Evaluation Text

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	evaliidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	recdate	Date	Date/Time	Datetime	No						
4	recauthor	Author	String	Varchar	No	25					
5	textkind	Kind	Choice	Smallint	No						text_kind_general
6	textcat	Category	String	Varchar	No	20					
7	textsubcat	Subcategory	String	Varchar	No	20					
8	textentry	Text Entry	Narrative Text	Varchar(max)	No						
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	evaltextiid	Rec ID	Integer	Int	Yes						

The Evaluation Text table contains notes and narrative descriptions for each evaluation script. Text included may be related to edits or changes made to the script. Evaluation text is optional. In many cases, this table is empty.

Table Physical Name: frequencyquadratdetails
Table Label: Frequency Quadrat Details

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	vegtransplantsummiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	quadratnumber	Quadrat #	Integer	Int	Yes			1	999		
4	transectpointlocation	Transect Point Location	Float	Real	No		1	0	1000	feet	
5	speciespresentindicator	Species Present ?	Boolean	Bit	Yes						
6	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
7	recuseriidref	Record Last Updated By	Integer	Int	No						
8	freqquaddetailsiid	Rec ID	Integer	Int	Yes						

This table contains data from individual quadrats along a transect collected using the Frequency protocol as part of a vegetation inventory.

Table Physical Name: geomorfeat
Table Label: Geomorphic Feature

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	geomftiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	geomfname	Feature Name (singular)	String	Varchar	Yes	50					
4	geomfnamep	Feature Name (plural)	String	Varchar	No	50					
5	geomfnamesp	Feature Name Spanish (singular)	String	Varchar	No	50					
6	geomfnamepsp	Feature Name Spanish (plural)	String	Varchar	No	50					
7	geomfdesc	Description	Narrative Text	Varchar(max)	No						
8	obterm	Obsolete?	Boolean	Bit	Yes						
9	fieldcode	Field Code	String	Varchar	No	6					
10	notes	Notes	Narrative Text	Varchar(max)	No						
11	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
12	recuseriidref	Record Last Updated By	Integer	Int	No						
13	geomfiid	Rec ID	Integer	Int	Yes						

The Geomorphic Feature table lists the terms (drumlin, esker) available to users as a choice list in the Component Geomorphic Description and Site Geomorphic Description tables. The terms displayed in this table relate to the kind of geomorphic feature shown above in the Geomorphic Feature Type table.

NASIS 7.1.4
Tables and Columns

Table Physical Name: geomorfeattype
Table Label: Geomorphic Feature Type

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	geomftname	Feature Type	String	Varchar	Yes	30					
2	geomftdesc	Description	Narrative Text	Varchar(max)	No						
3	fieldcode	Field Code	String	Varchar	No	6					
4	notes	Notes	Narrative Text	Varchar(max)	No						
5	geomftdbiidref	Geomorphic Feature Type NASIS Site	Integer	Int	Yes						
6	grpiidref	NASIS Group	Integer	Int	Yes						
7	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
8	objuseriidref	Object Last Updated By	Integer	Int	No						
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	geomftiid	Rec ID	Integer	Int	Yes						

The Geomorphic Feature Type table lists the kinds of geomorphic features (landscapes, landforms, etc.) available to users as choice lists in the Geomorphic Description system.

Table Physical Name: groundcovdetails
Table Label: Ground Cover Details

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	transectgrcoviidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	transectpointlocation	Transect Point Location	Float	Real	Yes		1	0	1000	feet	
4	quadratnumber	Quadrat #	Integer	Int	No			1	999		
5	quadratcoverpct	Quadrat Cover %	Integer	Smallint	No			0	100	percent	
6	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
7	recuseriidref	Record Last Updated By	Integer	Int	No						
8	groundcovdetailsiid	Rec ID	Integer	Int	Yes						

This table contains data about ground cover found at individual observation points along a transect.

NASIS 7.1.4
Tables and Columns

Table Physical Name: groundsurfcovdetails
Table Label: Ground Surface Cover Details

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	transectgrsurfcoviidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	transectpointlocation	Transect Point Location	Float	Real	Yes		1	0	1000	feet	
4	quadratnumber	Quadrat #	Integer	Int	No			1	999		
5	quadratcoverpct	Quadrat Cover %	Integer	Smallint	No			0	100	percent	
6	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
7	recuseriidref	Record Last Updated By	Integer	Int	No						
8	groundsurfcovdetailsiid	Rec ID	Integer	Int	Yes						

This table contains data about ground surface cover found at individual observation points along a transect.

NASIS 7.1.4
Tables and Columns

Table Physical Name: indexdetail
Table Label: Index Detail

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	indexiidref	Lineage	Integer	Int	Yes						
2	systabiidref	System Table	Integer	Int	Yes						
3	indexcolumnseq	Index Column Sequence	Integer	Int	Yes						
4	tabcoliidref	Table Column	Integer	Int	Yes						
5	includeclause	Include Clause Column?	Boolean	Bit	Yes						
6	notnullclause	Not null clause column?	Boolean	Bit	Yes						
7	orgper	Originating Person	String	Varchar	No	60					
8	conper	Contact Person	String	Varchar	No	60					
9	pendact	Pending Action	Choice	Smallint	No						pending_action
10	pendstat	Pending Status	Choice	Smallint	No						pending_status
11	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
12	recuseriidref	Record Last Updated By	Integer	Int	No						
13	indexdetailiid	Rec ID	Integer	Int	Yes						

Index detail data

Table Physical Name: indexdetailhist
Table Label: Index Detail History

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	indexdetailiidref	Lineage	Integer	Int	Yes						
2	notedate	Date	Date/Time	Datetime	No						
3	notes	Notes	Narrative Text	Varchar(max)	No						
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	indexdetailnoteiid	Rec ID	Integer	Int	Yes						

This table records notes about issues with and changes to a index details.

NASIS 7.1.4
Tables and Columns

Table Physical Name: indexmaster
Table Label: Index Master

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	systabiidref	Lineage	Integer	Int	Yes						
2	sysiidref	System	Integer	Int	Yes						
3	constraintorindexname	Constraint or Index Name	String	Varchar	No	128					
4	uniqueindex	Unique Index?	Boolean	Bit	Yes						
5	foreignkeyindex	Foreign Key?	Boolean	Bit	Yes						
6	primaryindex	Primary Index?	Boolean	Bit	Yes						
7	clusteredindex	Clustered Index	Boolean	Bit	Yes						
8	indexdeferrable	Index Deferrable?	Boolean	Bit	Yes						
9	performanceindex	Performance Index?	Boolean	Bit	Yes						
10	spatialindex	Spatial?	Boolean	Bit	Yes						
11	indexcolnum	Number of Columns	Integer	Int	No						
12	indexcolnames	Index Column Names	String	Varchar	No	128					
13	indexdesc	Index Description	String	Varchar	No	254					
14	indexid	Index ID	Integer	Int	No						
15	orgper	Originating Person	String	Varchar	No	60					
16	conper	Contact Person	String	Varchar	No	60					
17	pendact	Pending Action	Choice	Smallint	No						pending_action
18	pendstat	Pending Status	Choice	Smallint	No						pending_status
19	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
20	recuseriidref	Record Last Updated By	Integer	Int	No						
21	indexiid	Rec ID	Integer	Int	Yes						

Index master data

Table Physical Name: indexmasterhist
Table Label: Index Master History

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	indexiidref	Lineage	Integer	Int	Yes						
2	notedate	Date	Date/Time	Datetime	No						
3	notes	Notes	Narrative Text	Varchar(max)	No						
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	indexnoteiid	Rec ID	Integer	Int	Yes						

This table records notes about issues with and changes to a particular index master record.

Table Physical Name: keyrangeclient
Table Label: Key Range - Client

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	tabphynm	Table Physical Name	String	Varchar	Yes	33					
2	nextkeyvalue	Next Key Value	Integer	Int	Yes						
3	rangeendvalue	Range End Value	Integer	Int	Yes						
4	reservekeyrangestart	Reserved Key Range Start	Integer	Int	Yes						
5	reservekeyrangeend	Reserve Key Range End	Integer	Int	Yes						

This table controls key assignment in a NASIS client database.

Table Physical Name: laoverlap
Table Label: Legend Area Overlap

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	liidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	areaiidref	Area	Integer	Int	Yes						
4	areaovacres	Overlap Acres	Integer	Int	No			0		acres	
5	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
6	recuseriidref	Record Last Updated By	Integer	Int	No						
7	lareaoviid	Rec ID	Integer	Int	Yes						

The Legend Area Overlap table lists the geographic areas that are coincident with the soil survey area shown above in the Legend table. For example, a survey area that covers two counties would have two rows in this table, one for each county.

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Tables and Columns

Table Physical Name: lcerthistory
Table Label: Legend Certification History

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	liidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	revieweruseriidref	Reviewer	Integer	Int	No						
4	certificationdate	Certification Date	Date/Time	Datetime	Yes						
5	certificationkind	Certification Kind	Choice	Smallint	Yes						certification_kind
6	legendcertstat	Legend Certification Status	Choice	Smallint	Yes						legend_certification_status
7	certificationtext	Certification Text	Narrative Text	Varchar(max)	No						
8	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
9	recuseriidref	Record Last Updated By	Integer	Int	No						
10	lcerthistoryiid	Rec ID	Integer	Int	Yes						

This table records information about the review and certification of the data in the Legend object. As new records are created the previous records are retained in order to maintain a certification history.

Table Physical Name: legend
Table Label: Legend

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	areaiidref	Area	Integer	Int	Yes						
2	ssastatus	Survey Status	Choice	Smallint	No						soil_survey_area_status
3	cordate	Correlation Date	Date/Time	Datetime	No						
4	legenddesc	Legend Description	String	Varchar	No	60					
5	mlraoffice	MLRA Office	Choice	Smallint	No						mlra_office
6	mousigned	MOU Signed	Date/Time	Datetime	No						
7	mouagncyresp	MOU Agency Responsible	Choice	Smallint	No						mou_agency_responsible
8	mouprojcomp	MOU Projected Completion	Date/Time	Datetime	No						
9	projectscale	Project Scale	Integer	Int	No						
10	legendsuituse	Geographic Applicability	Choice	Smallint	No						legend_suitability_for_use
11	ldbiidref	Legend NASIS Site	Integer	Int	Yes						
12	grpiidref	NASIS Group	Integer	Int	Yes						
13	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
14	objuseriidref	Object Last Updated By	Integer	Int	No						
15	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
16	recuseriidref	Record Last Updated By	Integer	Int	No						
17	liid	Rec ID	Integer	Int	Yes						

The Legend table lists survey area legends and the owner of each legend.

Legends are linked to area types and areas. Legends are linked to map units that occur in the Legend through the Legend Mapunit table.

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Tables and Columns

Table Physical Name: lexportcerthistory
Table Label: Legend Export Certification History

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	liidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	revieweruseriidref	Reviewer	Integer	Int	No						
4	exportcertdate	Export Certification Date	Date/Time	Datetime	Yes						
5	exportcertstatus	Export Certification Status	Choice	Smallint	Yes						export_certification_status
6	exportmetadata	Export Metadata	Narrative Text	Varchar(max)	No						
7	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
8	recuseriidref	Record Last Updated By	Integer	Int	No						
9	lexportcerthistoryiid	Rec ID	Integer	Int	Yes						

This table records information about the export of all data associated with a legend - map units, soil property data and interpretations. As new records are created the previous records are retained in order to maintain an export certification history.

Table Physical Name: lmapunit
Table Label: Legend Mapunit

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	liidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	musym	Mapunit Symbol	String	Varchar	Yes	6					
4	muiidref	Mapunit	Integer	Int	Yes						
5	mustatus	Status	Choice	Smallint	Yes						mapunit_status
6	muacres	Total Acres	Integer	Int	No			0		acres	
7	farmlndcl	Farm Class	Choice	Smallint	No						farmland_classification
8	farmlndclsec	Secondary Farm Class	Choice	Smallint	No						farmland_class_secondary
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	lmapunitiid	Rec ID	Integer	Int	Yes						

This is a link table that provides a listing of map units identified in the Mapunit table that are part of a particular legend.

Table Physical Name: lmuaoverlap
Table Label: Legend Mapunit Area Overlap

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	lareaoviidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	lmapunitiidref	Legend Mapunit	Integer	Int	Yes						
4	liidref	Legend	Integer	Int	Yes						
5	areaovacres	Overlap Acres	Integer	Int	No			0		acres	
6	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
7	recuseriidref	Record Last Updated By	Integer	Int	No						
8	lmuareaoviid	Rec ID	Integer	Int	Yes						

The Mapunit Area Overlap table lists the mapunits that exist in the overlap between the entire survey area and the geographic area shown in the Legend Area Overlap table.

Table Physical Name: lmuhistory
Table Label: Legend Mapunit History

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	lmapunitiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	recdate	Date	Date/Time	Datetime	Yes						
4	recauthor	Author	String	Varchar	No	25					
5	corkind	Correlation Kind	Choice	Smallint	No						correlation_kind
6	corevent	Correlation Event	Choice	Smallint	No						correlation_event
7	munamehist	Historical Name	String	Varchar	No	240					
8	mustathist	Historical Status	Choice	Smallint	No						mapunit_status
9	textentry	Text Entry	Narrative Text	Varchar(max)	No						
10	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
11	recuseriidref	Record Last Updated By	Integer	Int	No						
12	lmuhistoryiid	Rec ID	Integer	Int	Yes						

This table records the history of a particular map unit in a particular legend.

Table Physical Name: lmutext
Table Label: Legend Mapunit Text

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	lmapunitiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	recdate	Date	Date/Time	Datetime	No						
4	recauthor	Author	String	Varchar	No	25					
5	lmutextkind	Kind	Choice	Smallint	No						legend_mapunit_text_kind
6	textcat	Category	String	Varchar	No	20					
7	textsubcat	Subcategory	String	Varchar	No	20					
8	textentry	Text Entry	Narrative Text	Varchar(max)	No						
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	lmutextiid	Rec ID	Integer	Int	Yes						

The Legend Mapunit Text table contains notes and narrative descriptions related to map unit entries in the Legend Mapunit table.

Table Physical Name: localplant
Table Label: Local Plant

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	lplantname	Common Name	String	Varchar	Yes	127					
2	plantiidref	Plant	Integer	Int	Yes						
3	obterm	Obsolete?	Boolean	Bit	Yes						
4	lplantdbiidref	Local Plant NASIS Site	Integer	Int	Yes						
5	grpiidref	NASIS Group	Integer	Int	Yes						
6	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
7	objuseriidref	Object Last Updated By	Integer	Int	No						
8	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
9	recuseriidref	Record Last Updated By	Integer	Int	No						
10	lplantiid	Rec ID	Integer	Int	Yes						

The Local Plant table records a subset of plants commonly referenced in some loosely defined geographic area. Plant lookups for soil survey tables that reference plants are based on the Local Plant table as opposed to the complete official Plant table in order to reduce the size of the choice list and increase performance.

Each record in the Local Plant table must be related to a record in the complete official Plant table. The plant choice list used to relate a local plant to an official plant is based on the complete official Plant table. This choice list can take anywhere from 5 to 10 minutes to open. At the time NASIS 3.0 was released, the complete official Plant table contained approximately 80,000 records. The performance of huge choice lists will be reengineered in a future relase.

Table Physical Name: lpaoccurrence
Table Label: Local Plant Area Occurrence

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	lplantiidref	Lineage	Integer	Int	Yes						
2	areaiidref	Area	Integer	Int	Yes						
3	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
4	recuseriidref	Record Last Updated By	Integer	Int	No						
5	lplantareaoccurrenceiid	Rec ID	Integer	Int	Yes						

The Local Plant Area Occurrence table records geographic areas in which the corresponding plant is known to occur.

Table Physical Name: ltext
Table Label: Legend Text

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	liidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	recdate	Date	Date/Time	Datetime	No						
4	recauthor	Author	String	Varchar	No	25					
5	legendtextkind	Kind	Choice	Smallint	No						legend_text_kind
6	textcat	Category	String	Varchar	No	20					
7	textsubcat	Subcategory	String	Varchar	No	20					
8	textentry	Text Entry	Narrative Text	Varchar(max)	No						
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	legtextiid	Rec ID	Integer	Int	Yes						

The Legend Text table contains notes and narrative descriptions for the legend shown above in the Legend table. Legend text is optional. In many cases, this table is empty.

Table Physical Name: mapunit
Table Label: Mapunit

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	muname	Mapunit Name	String	Varchar	No	240					
2	muname_s	S	Integer	Smallint	No						
3	mukind	Kind	Choice	Smallint	No						mapunit_kind
4	mutype	Mapunit Type	Choice	Smallint	No						mapunit_type
5	nationalmusym	National Mapunit Symbol	String	Varchar	Yes	6					
6	mapunitlfw_l	Low	Integer	Smallint	No					meters	
7	mapunitlfw_r	RV	Integer	Smallint	No					meters	
8	mapunitlfw_h	High	Integer	Smallint	No					meters	
9	mapunitpfa_l	Low	Float	Real	No		1	0.1	10	acres	
10	mapunitpfa_r	RV	Float	Real	No		1	0.1	10	acres	
11	mapunitpfa_h	High	Float	Real	No		1	0.1	10	acres	
12	usfsmuconcept	USFS Map Unit Concept	Narrative Text	Varchar(max)	No						
13	mudbiidref	Mapunit NASIS Site	Integer	Int	Yes						
14	grpiidref	NASIS Group	Integer	Int	Yes						
15	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
16	objuseriidref	Object Last Updated By	Integer	Int	No						
17	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
18	recuseriidref	Record Last Updated By	Integer	Int	No						
19	muiid	Rec ID	Integer	Int	Yes						

The Mapunit table lists all mapunits in the national database.

All mapunits ever used in any soil survey area are included in this table and are not deleted when correlated to another symbol. Instead, correlated symbols are changed to additional status and their links to data mapunits are copied to the Correlation table for the new mapunit symbol. Such correlation decisions are recorded in the Mapunit History table.

Individual map units that are part of a particular soil survey area legend are linked to that legend in the Legend Mapunit table.

Likewise, map units that are covered by a defined 'project' in the Project table are linked to that project in the Project Mapunit table.

Table Physical Name: MetadataAlignment
Table Label: Alignment Metadata

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	Alignment	Alignment	Choice	Smallint	Yes						Alignment (NASIS 6 metadata)
2	AlignmentName	Alignment Name	Choice	Varchar	Yes	255					Alignment (NASIS 6 metadata)

This lookup table records the list of allowable alignment values and names.

Table Physical Name: MetadataCardinality
Table Label: Cardinality Metadata

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	Cardinality	Cardinality	Choice	Smallint	Yes						Cardinality (NASIS 6 metadata)
2	CardinalityName	Cardinality Name	Choice	Varchar	Yes	255					Cardinality (NASIS 6 metadata)

This lookup table records the list of allowable cardinality values and names.

Table Physical Name: MetadataColumnLookup
Table Label: Column Lookup Metadata

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	TableID	Table ID	Integer	Int	Yes						
2	ColumnID	Column ID	Integer	Int	Yes						
3	TableColumnSequence	Table Column Sequence	Integer	Smallint	Yes						
4	RelationshipID	Relationship ID	Integer	Int	Yes						
5	DisplaySequence	Display Sequence	Integer	Smallint	Yes						
6	Branch	Branch	Integer	Int	Yes						
7	DisplayTableID	Display Table ID	Integer	Int	No						
8	DisplayColumnID	DisplayColumn ID	Integer	Int	No						
9	DisplayTableColumnSequence	Display Table Column Sequence	Integer	Smallint	No						
10	DisplayColumnLabel	Display Column Label	String	Varchar	No	80					
11	DisplayOnlyInChoiceList	Display Only in Choice List?	Boolean	Smallint	Yes						

A record in this table corresponds to one of the lookups required for an end user to select a value for the corresponding column. Selecting a value for a column may require multiple lookups down a table hierarchy.

Table Physical Name: MetadataDatetimePrecision
Table Label: Datetime Precision Metadata

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	DatetimePrecision	Datetime Precision	Choice	Smallint	Yes						Datetime Precision (NASIS 6 Metadata)
2	DatetimePrecisionName	Datetime Precision Name	Choice	Varchar	Yes	255					Datetime Precision (NASIS 6 Metadata)

This lookup table records the list of allowable datetime precision values and names.

Table Physical Name: MetadataDefaultType
Table Label: Default Type Metadata

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	DefaultType	Default Type	Choice	Smallint	Yes						Default Type (NASIS 6 metadata)
2	DefaultTypeName	Default Type Name	Choice	Varchar	Yes	255					Default Type (NASIS 6 metadata)

This lookup table records the list of allowable default type values and names.

Table Physical Name: MetadataDomainDetail
Table Label: Domain Detail Metadata

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	DomainID	Domain ID	Integer	Int	Yes						
2	ChoiceSequence	Choice Sequence	Integer	Smallint	Yes						
3	ChoiceValue	Choice Value	Integer	Smallint	Yes						
4	ChoiceName	Choice Name	String	Varchar	Yes	128					
5	ChoiceLabel	Choice Label	String	Varchar	Yes	254					
6	ChoiceDescription	Choice Description	Narrative Text	Varchar(max)	No						
7	ChoiceObsolete	Obsolete Choice?	Boolean	Smallint	Yes						

A record in this table corresponds to a member of a domain.

Table Physical Name: MetadataDomainMaster
Table Label: Domain Master Metadata

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	DomainID	Domain ID	Integer	Int	Yes						
2	DomainName	Domain Name	String	Varchar	Yes	40					
3	DomainRanked	Domain Ranked?	Boolean	Smallint	Yes						
4	DisplayLabel	Display Label?	Boolean	Smallint	Yes						
5	DomainCustomizable	Domain Customizable?	Boolean	Smallint	Yes						

A record in this table corresponds to a domain. A domain is a fixed set of values to which a column may be restricted. The same domain may serve as the domain for more than one column in a database.

Table Physical Name: MetadataIndexDetail
Table Label: Index Detail Metadata

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	IndexID	Index ID	Integer	Int	Yes						
2	IndexColumnSequence	Index Column Sequence	Integer	Smallint	Yes						
3	TableID	Table ID	Integer	Int	Yes						
4	ColumnID	Column ID	Integer	Int	Yes						
5	TableColumnSequence	Table Column Sequence	Integer	Smallint	Yes						

A record in this table corresponds to a column in an index for a table in a relational database.

Table Physical Name: MetadataIndexMaster
Table Label: Index Master Metadata

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	IndexID	Index ID	Integer	Int	Yes						
2	TableID	Table ID	Integer	Int	Yes						
3	ConstraintOrIndexName	Constraint or Index Name	String	Varchar	Yes	128					
4	UniqueIndex	Unique Index?	Boolean	Smallint	Yes						
5	PrimaryIndex	Primary Index?	Boolean	Smallint	Yes						
6	ConstraintDeferrable	Constraint Deferrable?	Boolean	Smallint	Yes						

A record in this table corresponds to an index for a table in a relational database. The corresponding index may be either a unique index or a duplicate index.

Table Physical Name: MetadataLogicalDataType
Table Label: Logical Data Type Metadata

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	LogicalDataType	Logical Data Type	Choice	Smallint	Yes						Logical Data Type (NASIS 6 metadata)
2	LogicalDataTypeName	Logical Data Type Name	Choice	Varchar	Yes	255					Logical Data Type (NASIS 6 metadata)

This lookup table records the list of allowable logical data type values and names.

Table Physical Name: MetadataPhysicalDataType
Table Label: Physical Data Type Metadata

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	PhysicalDataType	Physical Data Type	Choice	Smallint	Yes						Physical Data Type (NASIS 6 metadata)
2	PhysicalDataTypeName	Physical Data Type Name	Choice	Varchar	Yes	255					Physical Data Type (NASIS 6 metadata)

This lookup table records the list of allowable physical data type values and names.

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Tables and Columns

Table Physical Name: MetadataRelationshipDetail
Table Label: Relationship Detail Metadata

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	RelationshipID	Relationship ID	Integer	Int	Yes						
2	LeftTableID	Left Table ID	Integer	Int	Yes						
3	LeftColumnID	Left Column ID	Integer	Int	Yes						
4	LeftTableColumnSequence	Left Table Column Sequence	Integer	Smallint	Yes						
5	RightTableID	Right Table ID	Integer	Int	Yes						
6	RightColumnID	Right Column ID	Integer	Int	Yes						
7	RightTableColumnSequence	Right Table Column Sequence	Integer	Smallint	Yes						

A record in this table corresponds to one of the column pairs used to join two tables in a relational database. A join between two tables may be based on one or more column pairs.

Table Physical Name: MetadataRelationshipMaster
Table Label: Relationship Master Metadata

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	RelationshipID	Relationship ID	Integer	Int	Yes						
2	LeftTableID	Left Table ID	Integer	Int	Yes						
3	RightTableID	Right Table ID	Integer	Int	Yes						
4	RelationshipName	Relationship Name	String	Varchar	Yes	30					
5	ForeignKeyConstraintName	Foreign Key Constraint Name	String	Varchar	Yes	128					
6	Cardinality	Cardinality	Choice	Smallint	Yes						Cardinality (NASIS 6 metadata)
7	CardinalityMinimum	Cardinality Minimum	Integer	Smallint	Yes			0	1		
8	CardinalityMaximum	Cardinality Maximum	Integer	Smallint	Yes			-1			
9	Mandatory	Mandatory?	Boolean	Smallint	Yes						
10	DeleteFail	Delete Fail?	Boolean	Smallint	Yes						
11	InHierarchy	In Hierarchy?	Boolean	Smallint	Yes						
12	FavoriteChild	Favorite Child?	Boolean	Smallint	Yes						
13	LoadFindRelated	Load/Find Related?	Boolean	Smallint	Yes						
14	Paste	Paste?	Boolean	Smallint	Yes						
15	ConstraintDeferrable	Constraint Deferrable?	Boolean	Smallint	Yes						

A record in this table corresponds to a relationship between two tables in a relational database. There may be more than one relationship between the same two tables in a relational database.

Table Physical Name: MetadataSortDirection
Table Label: Sort Direction Metadata

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	SortDirection	Sort Direction	Choice	Smallint	Yes						Sort Direction (NASIS 6 metadata)
2	SortDirectionName	Sort Direction Name	Choice	Varchar	Yes	255					Sort Direction (NASIS 6 metadata)

This lookup table records the list of allowable sort direction values and names.

Table Physical Name: MetadataSortType
Table Label: Sort Type Metadata

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	SortType	Sort Type	Choice	Smallint	Yes						Sort Type (NASIS 6 metadata)
2	SortTypeName	Sort Type Name	Choice	Varchar	Yes	255					Sort Type (NASIS 6 metadata)

This lookup table records the list of allowable sort type values and names.

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Table Physical Name: MetadataTable
Table Label: Table Metadata

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	TableID	Table ID	Integer	Int	Yes						
2	TablePhysicalName	Table Physical Name	String	Varchar	Yes	33					
3	TableLogicalName	Table Logical Name	String	Varchar	Yes	33					
4	TableLabel	Table Label	String	Varchar	Yes	80					
5	TableDescription	Table Description	Narrative Text	Varchar(max)	Yes						
6	ImportExportFileName	Import/Export File Name	String	Varchar	Yes	30					
7	TableCollectionID	Table Collection ID	Integer	Int	No						
8	DAGLevel	Directed Acyclic Graph Level	Integer	Smallint	Yes						
9	Visible	Visible?	Boolean	Smallint	Yes						
10	Selectable	Selectable?	Boolean	Smallint	Yes						
11	Editable	Editable?	Boolean	Smallint	Yes						
12	NoInsertOrDelete	No Insert or Delete?	Boolean	Smallint	Yes						
13	RootTable	Root Table?	Boolean	Smallint	Yes						
14	CreateAsView	Create As View?	Boolean	Smallint	Yes						
15	ClientDatabaseOnly	Client Database Only	Boolean	Smallint	Yes						
16	ServerDatabaseOnly	Server Database Only	Boolean	Smallint	Yes						

A record in this table corresponds to a table in a relational database.

Table Physical Name: MetadataTableCollection
Table Label: Table Collection Metadata

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	TableCollectionID	Table Collection ID	Integer	Int	Yes						
2	TableCollectionName	Table Collection Name	String	Varchar	Yes	30					
3	TableCollectionSequence	Table Collection Sequence	Integer	Smallint	Yes			1			
4	TableCollectionInsertSequence	TableCollectionInsertSequence	Integer	Smallint	No						
5	RestrictedNASISSiteID	Restricted NASIS Site ID	Integer	Smallint	No						
6	NonRestrictedVisible	Non-restricted Visible?	Boolean	Smallint	Yes						
7	LoadAll	Load All?	Boolean	Smallint	Yes						
8	VisibleInGridEditor	Visible in Grid Editor?	Boolean	Smallint	Yes						
9	SelectableForReplication	Selectable for Replication?	Boolean	Smallint	Yes						
10	Autoreplicate	Autoreplicate?	Boolean	Smallint	No						
11	CustomizationQuery	Customization Query	Narrative Text	Varchar(max)	No						
12	CustomizationColumnID	Customization Column ID	Integer	Int	No						

A record in this table corresponds to a collection of tables in a relational database that are managed as a group. A table may be a member of only one table collection.

Table Physical Name: MetadataTableColumn
Table Label: Table Column Metadata

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	TableID	Table ID	Integer	Int	Yes						
2	ColumnID	Column ID	Integer	Int	Yes						
3	TableColumnSequence	Table Column Sequence	Integer	Smallint	Yes						
4	BaseColumnPhysicalName	Base Column Physical Name	String	Varchar	Yes	30					
5	ColumnPhysicalName	Column Physical Name	String	Varchar	Yes	33					
6	ColumnLogicalName	Column Logical Name	String	Varchar	Yes	33					
7	ColumnGroupLabel	Column Group Label	String	Varchar	No	80					
8	ColumnLabel	Column Label	String	Varchar	Yes	80					
9	PhysicalDataType	Physical Data Type	Choice	Smallint	Yes						Physical Data Type (NASIS 6 metadata)
10	LogicalDataType	Logical Data Type	Choice	Smallint	Yes						Logical Data Type (NASIS 6 metadata)
11	DomainID	Domain ID	Integer	Int	No						
12	ColumnDescription	Column Description	Narrative Text	Varchar(max)	Yes						
13	ColumnHelpText	Column Help Text	Narrative Text	Varchar(max)	No						
14	FieldSize	Field Size	Integer	Smallint	No						
15	DecimalPrecision	Decimal Precision	Integer	Smallint	No						
16	DatetimePrecision	Datetime Precision	Choice	Smallint	No						Datetime Precision (NASIS 6 Metadata)
17	Minimum	Minimum	Float	Float	No		2				
18	Maximum	Maximum	Float	Float	No		2				
19	DefaultType	Default Type	Choice	Smallint	No						Default Type (NASIS 6 metadata)
20	DefaultValue	Default Value	String	Varchar	No	254					
21	Alignment	Alignment	Choice	Smallint	No						Alignment (NASIS 6 metadata)
22	DisplaySize	Display Size	Integer	Smallint	No			0	255		
23	SortSequence	Sort Sequence	Integer	Smallint	No						
24	SortType	Sort Type	Choice	Smallint	No						Sort Type (NASIS 6 metadata)
25	SortDirection	Sort Direction	Choice	Smallint	No						Sort Direction (NASIS 6 metadata)

Table Physical Name: MetadataTableColumn
Table Label: Table Column Metadata

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
26	UnitsOfMeasureUnabbreviated	Units of Measure Unabbreviated	String	Varchar	No	60					
27	UnitsOfMeasureAbbreviated	Units of Measure Abbreviated	String	Varchar	No	30					
28	NotNull	Not Null?	Boolean	Smallint	Yes						
29	Visible	Visible?	Boolean	Smallint	Yes						
30	Protected	Protected?	Boolean	Smallint	Yes						
31	SetDefaultOnObjectChange	Set Default on Object Change?	Boolean	Smallint	Yes						
32	SetDefaultOnRowChange	Set Default on Row Change?	Boolean	Smallint	Yes						
33	IncludeInReplicationSelectList	Include in Replication Select List?	Boolean	Smallint	Yes						
34	FileContentColumnID	File Content Column ID	Integer	Int	No						

A record in this table corresponds to a column in a table in a relational database.

NASIS 7.1.4
Tables and Columns

Table Physical Name: MetadataVersion
Table Label: Version Metadata

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	DatabaseDataModelVersion	Database Data Model Version	String	Varchar	Yes	11					
2	DatabaseLastAltered	Database Last Altered	Date/Time	Datetime	Yes						
3	DatabaseDataModelLog	Database Data Model Log	Narrative Text	Varchar(max)	Yes						
4	MetadataDataModelVersion	Metadata Data Model Version	String	Varchar	Yes	11					
5	MetadataLastUpdated	Metadata Last Updated	Date/Time	Datetime	Yes						
6	MetadataDataModelLog	Metadata Data Model Log	Narrative Text	Varchar(max)	Yes						

The table records the version of the data model of the corresponding database and the version of the data model of the corresponding metadata. This table also records when the corresponding database was last altered and when the corresponding metadata was last loaded.

NASIS 7.1.4
Tables and Columns

Table Physical Name: milestonetype
Table Label: Milestone Type

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	milestonetypename	Milestone Type Name	String	Varchar	Yes	120					
2	milestonetypedesc	Description	String	Varchar	No	240					
3	obterm	Obsolete?	Boolean	Bit	Yes						
4	milestonetypedbiidref	Milestone Type NASIS Site	Integer	Int	Yes						
5	grpiidref	NASIS Group	Integer	Int	Yes						
6	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
7	objuseriidref	Object Last Updated By	Integer	Int	No						
8	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
9	recuseriidref	Record Last Updated By	Integer	Int	No						
10	milestonetypeiid	Rec ID	Integer	Int	Yes						

This table is used to define milestones. Contents in this table serve as a lookup list for the Milestone table.

Table Physical Name: muhistory
Table Label: Mapunit History

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	muiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	recdate	Date	Date/Time	Datetime	No						
4	recauthor	Author	String	Varchar	No	25					
5	corkind	Correlation Kind	Choice	Smallint	No						correlation_kind
6	corevent	Correlation Event	Choice	Smallint	No						correlation_event
7	munamehist	Historical Name	String	Varchar	No	240					
8	mustathist	Status (obsolete)	Choice	Smallint	No						mapunit_status
9	textentry	Text Entry	Narrative Text	Varchar(max)	No						
10	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
11	recuseriidref	Record Last Updated By	Integer	Int	No						
12	muhistiid	Rec ID	Integer	Int	Yes						

The Mapunit History table contains the complete correlation history and documentation for the mapunit shown above in the Mapunit table. The first record added to this table documents the date at which the mapunit was added to the database. Subsequent records added to this table document changes in mapunit name or status, and other correlation decisions.

Table Physical Name: mutext
Table Label: Mapunit Text

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	muiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	recdate	Date	Date/Time	Datetime	No						
4	recauthor	Author	String	Varchar	No	25					
5	mapunittextkind	Kind	Choice	Smallint	No						mapunit_text_kind
6	textcat	Category	String	Varchar	No	20					
7	textsubcat	Subcategory	String	Varchar	No	20					
8	textentry	Text Entry	Narrative Text	Varchar(max)	No						
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	mutextiid	Rec ID	Integer	Int	Yes						

The Mapunit Text table contains the non-technical descriptions and other miscellaneous notes for the mapunit shown above in the Mapunit table. Notes related to correlation decisions should be entered in the Mapunit History table.

Table Physical Name: muusfsecoclass
Table Label: Mapunit USFS Ecological Classification

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	muiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	usfseciidref	USFS Ecological Classification	Integer	Int	Yes						
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	muusfsecoclsiid	Rec ID	Integer	Int	Yes						

This table records the U.S. Forest Service ecological classifications for the corresponding map unit.

Table Physical Name: muusfsinterp
Table Label: Mapunit USFS Interpretation

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	muiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	usfsinterpiidref	USFS Interpretation	Integer	Int	Yes						
4	usfsirclassiidref	USFS Interpretation Rating Class	Integer	Int	No						
5	usfsirnumval	USFS Interpretation Rating Numeric Value	Float	Float	No		2				
6	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
7	recuseriidref	Record Last Updated By	Integer	Int	No						
8	muusfsinterpiid	Rec ID	Integer	Int	Yes						

This table records the U.S. Forest Service soil interpretation results for the corresponding map unit.

Table Physical Name: muusfsirestrict
Table Label: Mapunit USFS Interpretation Restriction

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	muusfsinterpiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	usfsirstrctiidref	USFS Interpretation Restriction	Integer	Int	Yes						
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	muusfsirestrictiid	Rec ID	Integer	Int	Yes						

This table records the U.S. Forest Service soil interpretation restrictions for the corresponding U.S. Forest Service soil interpretation for the corresponding map unit.

Table Physical Name: nasisgroup
Table Label: NASIS Group

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	nasissiteiidref	Lineage	Integer	Int	Yes						
2	grpname	NASIS Group Name	String	Varchar	Yes	30					
3	grpdesc	Description	String	Varchar	No	60					
4	grpcontact	Contact	String	Varchar	No	30					
5	grpphone	Phone	String	Varchar	No	20					
6	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
7	grpiid	Rec ID	Integer	Int	Yes						

The Group table lists the groups established for the database shown in the NASIS Site table.

This table is part of the NASIS security system. It can be edited, but only by a user who is a member of the group identified in the Security Group column in the NASIS Site table.

The Group Table includes one group that has authority to edit the NASIS Site object, which includes the NASIS Site, Group, and Group Member tables. The group name with this authority is typically named "MO-xx Security" or another similar name.

Table Physical Name: nasisgroupmember
Table Label: NASIS Group Member

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	grpiidref	Lineage	Integer	Int	Yes						
2	useriidref	NASIS User	Integer	Int	Yes						
3	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
4	grpmemiid	Rec ID	Integer	Int	Yes						

The Group Member table lists the users who are members of the group shown in the Group table. This table is part of the NASIS security system. It can be edited, but only by a user who is a member of the group identified in the Security Group column in the NASIS Site table.

NASIS 7.1.4
Tables and Columns

Table Physical Name: nasissession
Table Label: NASIS Session

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	useriidref	NASIS User	Integer	Int	Yes						
2	sessionpasscode	Session Passcode	String	Char	Yes	32					
3	sessioncommenced	Session Commenced	Date/Time	Datetime	Yes						
4	sessionexpires	Session Expires	Date/Time	Datetime	Yes						
5	sessionlastactive	Session Last Active	Date/Time	Datetime	No						
6	sessionid	Session ID	Integer	Int	Yes						

The NASIS Session table tracks connected NASIS client sessions.

NASIS 7.1.4
Tables and Columns

Table Physical Name: nasissite
Table Label: NASIS Site

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	nasissitename	NASIS Site Name	String	Varchar	Yes	30					
2	nasissitedesc	Description	String	Varchar	No	60					
3	nasissitestate	State	Choice	Smallint	No						state_fips_code_alpha
4	nasissitecounty	County	String	Varchar	No	30					
5	nasissitecity	City	String	Varchar	No	30					
6	nasissiteofficetype	Office Type	Choice	Smallint	No						nasis_site_office_type
7	nasissitecontact	Contact	String	Varchar	No	30					
8	nasissitephone	Phone	String	Varchar	No	20					
9	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
10	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
11	nasissiteiid	Rec ID	Integer	Int	Yes						

The NASIS Site table lists all of the NASIS Sites known to the NASIS Central Server. This table is part of the NASIS security system.

A NASIS Site can be edited, but only by a user who is a member of the group identified in the Security Group column.

Table Physical Name: nasissiteadmin
Table Label: NASIS Site Administrator

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	nasissiteiidref	Lineage	Integer	Int	Yes						
2	useriidref	NASIS User	Integer	Int	Yes						
3	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
4	nasissiteadminiid	Rec ID	Integer	Int	Yes						

The NASIS Site Administrator table lists the NASIS users who have administrative privileges for the corresponding NASIS Site.

Table Physical Name: nasisuser
Table Label: NASIS User

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	username	NASIS User Name	String	Varchar	Yes	30					
2	useraffiliation	Affiliation	Choice	Smallint	No						user_affiliation
3	userdesc	Description	String	Varchar	No	60					
4	userjobtitle	Job Title	String	Varchar	No	60					
5	userphone	Phone	String	Varchar	No	20					
6	useremailaddr	E-mail Address	String	Varchar	No	60					
7	eauthid	eAuth ID	String	Char	No	23					
8	windowslogin	Windows Login	String	Varchar	Yes	60					
9	lastlogin	Last Login	Date/Time	Datetime	No						
10	defaultgrpiidref	Default NASIS Group	Integer	Int	No						
11	nasisuserdbiidref	NASIS User NASIS Site	Integer	Int	Yes						
12	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
13	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
14	useriid	Rec ID	Integer	Int	Yes						

The User table lists the users authorized to run NASIS.

Users can edit some of the data in their individual data records, but cannot create new user records nor delete existing user records. Special procedures are required to create or delete records in this table. Contact the NASIS hotline for assistance if a user record needs to be created, deleted, or modified in a way that cannot be accomplished by the individual user.

Table Physical Name: ncsslayerlabdata
Table Label: NCSS Layer Lab Data

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	ncsspedonlabdataiidref	Lineage	Integer	Int	Yes						
2	layerseqnum	Layer Seq	Integer	Int	No			1			
3	labsampnum	Lab Sample #	String	Varchar	Yes	10					
4	hzdept	Top Depth	Integer	Smallint	Yes			0	9999	cm	
5	hzdepb	Bottom Depth	Integer	Smallint	Yes			0	9999	cm	
6	layertype	Layer Type	Choice	Smallint	No						layer_type
7	hzname	Designation	String	Varchar	No	12					
8	hznameoriginal	Designation - Orig	String	Varchar	No	20					
9	stratextsflag	Stratified ?	Boolean	Bit	Yes						
10	moistprepstate	Moisture State	Choice	Smallint	No						moisture_prep_state
11	texcl	Lab Texture	Choice	Smallint	No						texture_class
12	sandvcmeasured	VC Sand - Measured	Float	Real	No		1	0	100	percent	
13	sandcomeasured	Co. Sand - Measured	Float	Real	No		1	0	100	percent	
14	sandmedmeasured	Med. Sand - Measured	Float	Real	No		1	0	100	percent	
15	sandfinemeasured	Fine Sand - Measured	Float	Real	No		1	0	100	percent	
16	sandvfmeasured	VF Sand - Measured	Float	Real	No		1	0	100	percent	
17	sandtotmeasured	Total Sand - Measured	Float	Real	No		1	0	100	percent	
18	siltcomeasured	Co. Silt - Measured	Float	Real	No		1	0	100	percent	
19	siltfinemeasured	Fine Silt - Measured	Float	Real	No		1	0	100	percent	
20	silttotmeasured	Total Silt - Measured	Float	Real	No		1	0	100	percent	
21	claycarbmeasured	CaCO3 Clay - Measured	Float	Real	No		1	0	100	percent	
22	clayfinemeasured	Fine Clay - Measured	Float	Real	No		1	0	100	percent	
23	claytotmeasured	Total Clay - Measured	Float	Real	No		1	0	100	percent	
24	carbonorganicpctmeasured	Organic Carbon %	Float	Real	No		2	0	100	percent	
25	carbontotalpctmeasured	Total Carbon %	Float	Real	No		2	0	100	percent	
26	ompctest	OM % Est.	Float	Real	No		2	0	100	percent	
27	fiberrubbedpct	Rubbed Fiber %	Integer	Smallint	No			0	100	percent	
28	fiberunrubbedpct	Unrubbed Fiber %	Integer	Smallint	No			0	100	percent	
29	fragwt25	Frag%, 2-5 mm, by wt.	Integer	Smallint	No			0	100	percent	
30	fragwt520	Frag%, 5-20 mm, by wt.	Integer	Smallint	No			0	100	percent	
31	fragwt2075	Frag%, 20-75 mm, by wt.	Integer	Smallint	No			0	100	percent	

Table Physical Name: ncsslayerlabdata
Table Label: NCSS Layer Lab Data

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
32	fragwt275	Frag%, 2-75 mm, by wt.	Integer	Smallint	No			0	100	percent	
33	wtpct0175	Wt %, 0.1-75 mm	Integer	Smallint	No			0	100	percent	
34	wtpctgt2ws	Wt %, =>2 mm, ws	Integer	Smallint	No			0	100	percent	
35	ph1to1h2o	pH 1:1 water	Float	Real	No		1	1	13		
36	ph01mcacl2	pH .01M CaCl2	Float	Real	No		1	1	13		
37	phnaf	pH NaF	Float	Real	No		1	1	13		
38	phoxidized	pH Oxidized	Float	Real	No		1	1	13		
39	resistivity	Resistivity	Integer	Int	No			0		ohm/cm	
40	ecmeasured	EC	Float	Real	No		2	0	15000	dS/m	
41	esp	ESP	Integer	Smallint	No			0		percent	
42	sar	SAR	Float	Real	No		1	0	9999		
43	cecsumcations	CEC, sum of cations	Float	Real	No		1	0		cmol(+)/kg	
44	cec7	CEC-7	Float	Real	No		1	0	400	cmol(+)/kg	
45	ecec	ECEC	Float	Real	No		1	0	400	cmol(+)/kg	
46	sumbases	Sum of Bases	Float	Float	No		1	0	300	cmol(+)/kg	
47	basesatsumcations	BS, sum of cations	Integer	Smallint	No			0		percent	
48	basesatnh4oac	BS, NH4OAc	Integer	Smallint	No			0		percent	
49	caco3equivmeasured	CaCO3 <2 mm	Integer	Smallint	No			0	110	percent	
50	caco3lt20measured	CaCO3 <20 mm	Integer	Smallint	No			0	110	percent	
51	gypsumequivlt2measured	Gypsum <2 mm	Integer	Int	No			0		percent	
52	gypsumequivmeasured	Gypsum <20 mm	Integer	Smallint	No			0		percent	
53	feoxalatemeasured	Oxalate Fe	Float	Real	No		2	0	100	percent	
54	feextractable	Extractable Fe	Float	Real	No		1	0	100	percent	
55	fetotal	Total Fe	Float	Real	No		1	0		mg/kg	
56	sioxalatemeasured	Oxalate Si	Float	Real	No		2	0	100	percent	
57	extracid	Extractable Acidity	Float	Real	No		1	0	250	cmol(+)/kg	
58	extral	KCl Extractable Al	Float	Real	No		2	0	150	cmol(+)/kg	
59	aloxalatemeasured	Oxalate Al	Float	Real	No		2	0	100	percent	
60	altotal	Total Al	Integer	Int	No			0		mg/kg	
61	pmehlich3	Mechlich 3 P	Float	Real	No		1	0		mg/kg	
62	ph2osolublemeasured	Water Soluble P	Float	Real	No		1	0		mg/kg	

Table Physical Name: ncsslayerlabdata
Table Label: NCSS Layer Lab Data

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
63	poxalatemeasured	Oxalate P	Float	Real	No		1	0		mg/kg	
64	polsenmeasured	Olsen P	Float	Real	No		1	0		mg/kg	
65	ptotalmeasured	Total P	Integer	Smallint	No			0		percent	
66	nzpretention	NZ Phos Retention	Float	Real	No		1	0	100	percent	
67	dbthirdbar	Db 0.33 bar H2O	Float	Real	No		2	0.02	2.6	g/cm3	
68	dbovendry	Db oven dry	Float	Float	No		2	0.02	2.6	g/cm3	
69	aggstabpct	Aggregate Stab %	Integer	Smallint	No			0	100	percent	
70	wtenthbarclod	H2O 1/10 bar clod	Float	Real	No		1	0		percent	
71	wtenthbarsieve	H2O 1/10 bar sieve	Float	Real	No		1	0		percent	
72	wthirdbarclod	H2O 1/3 bar clod	Float	Real	No		1	0		percent	
73	wthirdbarsieve	H20 1/3 bar sieve	Float	Real	No		1	0		percent	
74	wfifteenbarmeasured	H2O 15 bar	Float	Real	No		1	0		percent	
75	wretentiondiffws	WRD	Float	Real	No		2	0		cm/cm	
76	wfifteenbartoclay	H2O 15 bar:clay ratio	Float	Real	No		2	0			
77	adod	ADOD ratio	Float	Real	No		3	1			
78	lep	LEP	Float	Real	No		1	0	30	percent	
79	cole	COLE	Float	Real	No		2	0	0.3	cm/cm	
80	liquidlimitmeasured	LL - Measured	Float	Real	No		1	0	400	percent	
81	pi	PI	Float	Real	No		1	0	130	percent	
82	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
83	recuseriidref	Record Last Updated By	Integer	Int	No						
84	ncsslayerlabdataiid	Rec ID	Integer	Int	Yes						

This table stores information about layers or horizons of a pedon that has had samples submitted to the SSL at the National Soil Survey Center or one of the various laboratories at NCSS cooperating universities. Data is periodically transferred from the SSL database to this table.

NASIS 7.1.4
Tables and Columns

Table Physical Name: ncsspedonlabdata
Table Label: NCSS Pedon Lab Data

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	pedlabsampnum	Pedon Lab Sample #	String	Varchar	Yes	12					
2	peiidref	Correlated Pedon	Integer	Int	Yes						
3	psctopdepth	PSC Top Depth	Integer	Int	No			0	999	cm	
4	psctopdepth_s	S	Integer	Smallint	No						
5	pscbotdepth	PSC Bottom Depth	Integer	Int	No			0	999	cm	
6	pscbotdepth_s	S	Integer	Smallint	No						
7	noncarbclaywtavg	Noncarb. Clay % - wt avg	Float	Real	No		1	0	100	percent	
8	claytotwtavg	Clay Total % - wt avg	Float	Real	No		1	0	100	percent	
9	le0to100	LE 0-100 cm	Float	Real	No		2	0	100	cm	
10	wf0175wtavgpsc	Wt Fraction 0.1 to 75 mm - wt avg	Float	Real	No		1	0	100	percent	
11	volfractgt2wtavg	Vol. >2 mm - wt avg	Float	Real	No		1	0	100	percent	
12	cec7clayratiowtavg	CEC7 to Clay Ratio - wt avg	Float	Real	No		2	0			
13	labdatasheeturl	Data Sheet URL	Hyperlink	Varchar	No	254					
14	ncsspedbiidref	NCSS Pedon NASIS Site	Integer	Int	Yes						
15	grpiidref	NASIS Group	Integer	Int	Yes						
16	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
17	objuseriidref	Object Last Updated By	Integer	Int	No						
18	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
19	recuseriidref	Record Last Updated By	Integer	Int	No						
20	ncsspedonlabdataiid	Rec ID	Integer	Int	Yes						

This table stores information about the pedon that has had samples submitted to the SSL at the National Soil Survey Center or one of the various laboratories at NCSS cooperating universities. Data is periodically transferred from the SSL database to this table.

Analytical results for layers or horizons within a pedon are stored in the NCSS Layer Lab Data table, which is a child of this table.

Table Physical Name: nestedfreqquadratdetails
Table Label: Nested Frequency Quadrat Details

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	vegtransplantsummiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	quadratnumber	Quadrat #	Integer	Int	Yes			1	999		
4	transectpointlocation	Transect Point Location	Float	Real	No		1	0	1000	feet	
5	smallestquadratin	Smallest Quadrat In ?	Integer	Int	Yes			1	4		
6	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
7	recuseriidref	Record Last Updated By	Integer	Int	No						
8	nestedfreqquaddetailsiid	Rec ID	Integer	Int	Yes						

This table contains data from individual quadrats along a transect collected using the Nested Frequency protocol as part of a vegetation inventory.

Table Physical Name: nestedfrequencysummary
Table Label: Nested Frequency Summary

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	vegtransplantsummiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	subquadratnumber	Subquadrat #	Integer	Int	Yes			1	4		
4	subquadratsize	Subquadrat Size	Integer	Int	Yes			1	50	inches	
5	subquadrathitcount	# of Subquadrat Hits	Integer	Int	No			1	100		
6	subquadratspeciesfreq	Species Frequency	Integer	Smallint	No			0	100	percent	
7	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
8	recuseriidref	Record Last Updated By	Integer	Int	No						
9	nestedfreqsummaryiid	Rec ID	Integer	Int	Yes						

This table contains summary data collected using the Nested Frequency protocol as part of a vegetation inventory.

Table Physical Name: othvegclass
Table Label: Other Vegetative Classification

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	ovegcltypiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	ovegclid	Other Veg Class ID	String	Varchar	Yes	30					
4	ovegclname	Other Veg Class Name	String	Varchar	Yes	254					
5	ovegcldesc	Other Veg Class Description	Narrative Text	Varchar(max)	No						
6	obterm	Obsolete?	Boolean	Bit	Yes						
7	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
8	recuseriidref	Record Last Updated By	Integer	Int	No						
9	ovegcliid	Rec ID	Integer	Int	Yes						

The Other Vegetative Classification table is designed to record the individual "sites" that belong to a particular vegetative classification type in the Other Vegetation Classification Type table.

Table Physical Name: othvegclasstype
Table Label: Other Vegetative Classification Type

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	ovegcltypname	Other Veg Class Type Name	String	Varchar	Yes	60					
2	ovegcltypref	Other Veg Class Type Reference	String	Varchar	No	254					
3	ovegcltypdesc	Other Veg Class Type Description	Narrative Text	Varchar(max)	No						
4	ovegcltypdbiidref	Other Veg Class Type NASIS Site	Integer	Int	Yes						
5	grpiidref	NASIS Group	Integer	Int	Yes						
6	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
7	objuseriidref	Object Last Updated By	Integer	Int	No						
8	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
9	recuseriidref	Record Last Updated By	Integer	Int	No						
10	ovegcltypiid	Rec ID	Integer	Int	Yes						

The Other Vegetative Classification Type table is designed to store vegetative classification types other than those defined according to NRCS standards. An example is the USFS Forest Habitat type.

The individual "sites" that belong to each classification type are recorded in the Other Vegetation Classification table.

Ecological sites defined according to NRCS standards are recorded in the Ecological Site table.

Table Physical Name: paoccurrence
Table Label: Plant Area Occurrence

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	plantiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	areaiidref	Area	Integer	Int	Yes						
4	plantareacomnm	Area Common Name	String	Varchar	No	60					
5	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
6	recuseriidref	Record Last Updated By	Integer	Int	No						
7	plantareaociid	Rec ID	Integer	Int	Yes						

The Plant Area Occurrence table records the geographic areas in which a plant can be expected to be found. This table also optionally records the most widely used common name by which a plant is referred to in a geographic area.

Table Physical Name: pediagfeatures
Table Label: Pedon Diagnostic Features

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	peiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	featdept	Top Depth	Integer	Smallint	No			0	9999	cm	
4	featdepb	Bottom Depth	Integer	Smallint	No			0	9999	cm	
5	featthick_l	Low	Integer	Smallint	No			0	9999	cm	
6	featthick_r	RV	Integer	Smallint	No			0	9999	cm	
7	featthick_h	High	Integer	Smallint	No			0	9999	cm	
8	featkind	Kind	Choice	Smallint	No						diag_horz_feat_kind
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	pediagfeatiid	Rec ID	Integer	Int	Yes						

The Pedon Diagnostic Features table lists elements that describe individual diagnostic horizons and features, as defined in Soil Taxonomy, for the pedon being described. The rows in this table, as a group, describe the situation for this pedon.

Table Physical Name: pedon
Table Label: Pedon

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	siteobsiidref	Site/Site Observation	Integer	Int	Yes						
2	upedonid	User Pedon ID	String	Varchar	Yes	60					
3	pedrecorigin	Pedon Record Origin	String	Varchar	No	60					
4	descname	Describer's Name	String	Varchar	No	150					
5	taxonname	Current Taxon Name	String	Varchar	No	60					
6	taxonname_s	S	Integer	Smallint	No						
7	localphase	Local Phase	String	Varchar	No	40					
8	taxclname	Current Taxonomic Class	String	Varchar	No	120					
9	taxclname_s	S	Integer	Smallint	No						
10	taxonkind	Current Taxon Kind	Choice	Smallint	No						component_kind
11	taxonkind_s	S	Integer	Smallint	No						
12	pedontype	Pedon Type	Choice	Smallint	No						pedon_type
13	pedonpurpose	Pedon Purpose	Choice	Smallint	No						pedon_purpose
14	pedonunit	Pedon #	Integer	Smallint	No			1	9999		
15	labdatadescflag	Certified Lab Pedon Description ?	Boolean	Bit	Yes						
16	relexpsize	Exposure Size	Integer	Smallint	No			1			
17	relexpuom	Exposure UOM	Choice	Smallint	No						relative_exposure_uom
18	earthcovkind1	Cover Kind 1	Choice	Smallint	No						earth_cover_kind_level_one
19	earthcovkind2	Cover Kind 2	Choice	Smallint	No						earth_cover_kind_level_two
20	erocl	Erosion Class	Choice	Smallint	No						erosion_class
21	labsourceid	Lab Source ID	String	Varchar	No	7					
22	pedlabsampnum	Lab Pedon #	String	Varchar	No	12					
23	tsectiidref	Transect	Integer	Int	No						
24	tsectstopnum	Transect Stop Number	Integer	Smallint	No			1			
25	tsectinterval	Transect Interval	Float	Real	No		1	0.1		meters	
26	rcapointnumber	RaCA Point #	Integer	Int	No			1	5		
27	soilreplicatenumber	Soil Replicate #	Integer	Int	No			1			
28	azimuthfromplotcenter	Azimuth From Plot Center	Integer	Int	No			0	360		
29	distancefromplotcenter	Distance From Plot Center	Float	Real	No		1	0		meters	
30	rectangularplotlinenumber	Rectangular Plot Line #	Integer	Int	No			1	10		
31	distancefrombaseline	Distance From Baseline	Float	Real	No		1	0	35	meters	

Table Physical Name: pedon
Table Label: Pedon

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
32	pedodermclass	Pedoderm Class	Choice	Smallint	No						pedoderm_class
33	pedodermcovind	Pedoderm Loose Cover Indicator	Boolean	Bit	Yes						
34	biolcrusttypedom	Biol. Crust Type Dominant	Choice	Smallint	No						biological_crust_type
35	biolcrusttypesecond	Biol. Crust Type Secondary	Choice	Smallint	No						biological_crust_type
36	physcrustsubtype	Phys Crust Subtype	Choice	Smallint	No						physical_crust_subtype
37	crustdevcl	Crust Dev Class	Choice	Smallint	No						crust_development_class
38	rangevegcanopytypedom	Range Veg. Canopy Type Dominant	Choice	Smallint	No						vegetation_canopy_type
39	rangevegcanopytypesec	Range Veg. Canopy Type Secondary	Choice	Smallint	No						vegetation_canopy_type
40	forestoverstoryvegtype	Forest Overstory Veg. Type	Choice	Smallint	No						vegetation_canopy_type
41	forestunderstoryvegtype	Forest Understory Veg. Type	Choice	Smallint	No						vegetation_canopy_type
42	forestgroundcovvegtypedom	Forest Groundcover Veg. Type Dominant	Choice	Smallint	No						vegetation_canopy_type
43	forestgroundcovvegtypesec	Forest Groundcover Veg. Type Secondary	Choice	Smallint	No						vegetation_canopy_type
44	agronomicfeature	Agronomic Feature	Choice	Smallint	No						agronomic_feature
45	otherfeaturedescription	Other Feature Description	String	Varchar	No	100					
46	currentcropname	Current Crop	Choice	Smallint	No						crop_name
47	littercoverpct	Litter Cover %	Integer	Smallint	No			0	100	percent	
48	residuedescription	Residue Description	String	Varchar	No	256					
49	pedonhydricrating	Hydric?	Boolean	Bit	Yes						
50	pecertstatus	Certification Status	Choice	Smallint	No						pedon_cert_status
51	peqcstatus	QC Status	Choice	Smallint	No						qc_qa_status
52	peqastatus	QA Status	Choice	Smallint	No						qc_qa_status
53	saspipelengthtot	SAS Pipe Length Total	Float	Real	No		1			cm	
54	saspipelengthext	SAS Pipe Length External	Float	Real	No		1			cm	
55	saspipelengthunfilled	SAS Pipe Length Unfilled	Float	Real	No		1			cm	
56	sascoresettlement	SAS Core Settlement	Float	Real	No		1			cm	
57	sascorelength	SAS Core Length	Float	Real	No		1			cm	
58	sascorestoragesite	SAS Core Storage Site	String	Varchar	No	30					
59	sasexposurebegin	SAS Exposure Begin	Date/Time	Datetime	No						
60	sasexposureend	SAS Exposure End	Date/Time	Datetime	No						

Table Physical Name: pedon
Table Label: Pedon

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
61	pedbiidref	Pedon NASIS Site	Integer	Int	Yes						
62	grpiidref	NASIS Group	Integer	Int	Yes						
63	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
64	objuseriidref	Object Last Updated By	Integer	Int	No						
65	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
66	recuseriidref	Record Last Updated By	Integer	Int	No						
67	peiid	Rec ID	Integer	Int	Yes						

The Pedon table contains information collected at the time a soil profile description is made. It has data that relates to the profile as a whole.

Table Physical Name: pedondbcolumnmetadata
Table Label: Pedon Database Column Metadata

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	pedondbtableid	Pedon Database Table ID	Integer	Int	Yes						
2	pedondbcolumnid	Pedon Database Column ID	Integer	Int	Yes						
3	pedondbcolumnsequence	Pedon Database Column Sequence	Integer	Smallint	Yes						
4	pedondbcolumnname	Pedon Database Column Name	String	Varchar	Yes	33					
5	ipdiagmsgcolumnlabel	Import Pedon Diagnostic Message Column Label	String	Varchar	Yes	80					

This table records information used to generate diagnostic messages during the import of pedon data from a pedon database.

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Table Physical Name: pedondbtablemetadata
Table Label: Pedon Database Table Metadata

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	pedondbtableid	Pedon Database Table ID	Integer	Int	Yes						
2	pedondbtablename	Pedon Database Table Name	String	Varchar	Yes	33					
3	pedondbobjectname	Pedon Database Object Name	String	Varchar	Yes	30					
4	ipdiagmsgtablelabel	Import Pedon Diagnostic Message Table Label	String	Varchar	Yes	80					
5	ipdiagmsgsqlstmt	Import Pedon Diagnostic Message SQL Statement	Narrative Text	Varchar(max)	Yes						

This table records information used to generate diagnostic messages during the import of pedon data from a pedon database.

Table Physical Name: pefmp
Table Label: Pedon Field Measured Property

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	peiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	fmpname	Name	String	Varchar	No	80					
4	fmpvalue	Value	Float	Float	No		2				
5	fmpunits	Unit of Measure	String	Varchar	No	30					
6	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
7	recuseriidref	Record Last Updated By	Integer	Int	No						
8	pefmpiid	Rec ID	Integer	Int	Yes						

The Pedon Field Measured Property table contains the results of field or office conducted soil property analyses that apply to the profile as a whole, that cannot be stored elsewhere in the database as separate data elements in other tables. Analyses that apply to specific horizons are entered into the Pedon Horizon Field Measured Property table.

Table Physical Name: pehydricfieldindicator
Table Label: Pedon Hydric Field Indicator

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	peiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	hydricsoilfieldindicator	Hydric Field Indicator	Choice	Smallint	Yes						hydric_soil_indicator
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	pehydricfieldindiid	Rec ID	Integer	Int	Yes						

This table records the hydric field indicator(s) present at this location.

Table Physical Name: peinfiltrationch
Table Label: Pedon Infiltration Constant Head

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	peinfilsumiidref	Lineage	Integer	Int	Yes						
2	testdate	Test Date	Date/Time	Datetime	Yes						
3	repnum	Rep #	Integer	Int	Yes			1			
4	infiltrationmeasured	Infiltration Rate	Float	Real	No		2	0		cm/hr	
5	infiltrationringconfig	Ring Configuration	Choice	Smallint	Yes						ring_configuraton
6	ringinsertiondepth	Ring Insertion Depth	Float	Real	Yes		1	0.1	50	cm	
7	ringradius	Ring Radius	Float	Real	Yes		2	0.1	50	cm	
8	waterponddepth	Water Ponding Depth	Float	Real	Yes		1	0	50	cm	
9	mariottebottleradius	Mariotte Bottle Radius	Float	Real	No		2	0.1	50	cm	
10	notes	Notes	Narrative Text	Varchar(max)	No						
11	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
12	recuseriidref	Record Last Updated By	Integer	Int	No						
13	peinfilconstheadiid	Rec ID	Integer	Int	Yes						

This table records the summarization of a replication of infiltration data collected by constant head method for a particular pedon on a particular date.

Table Physical Name: peinfiltrationchdata
Table Label: Pedon Infiltration Constant Head Data

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	peinfilconstheadiidref	Lineage	Integer	Int	Yes						
2	infiltrationrunnum	Run #	Integer	Int	Yes			1			
3	waterdrop	Water Drop	Float	Real	Yes		1	0		cm	
4	deltatime	Delta Time	Float	Real	Yes		2	0.01	2000	min	
5	infiltrationmeasured	Infiltration Rate	Float	Real	No		2	0		cm/hr	
6	steadystateflag	Steady State ?	Boolean	Bit	Yes						
7	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
8	recuseriidref	Record Last Updated By	Integer	Int	No						
9	peinfilchdataiid	Rec ID	Integer	Int	Yes						

This table records the actual data measurements of a replication of infiltration data collected by constant head method for a particular pedon on a particular date.

Table Physical Name: peinfiltrationfh
Table Label: Pedon Infiltration Falling Head

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	peinfilsumiidref	Lineage	Integer	Int	Yes						
2	testdate	Test Date	Date/Time	Datetime	Yes						
3	repnum	Rep #	Integer	Int	Yes			1			
4	infiltrationmeasured	Infiltration Rate	Float	Real	No		2	0		cm/hr	
5	infiltrationringconfig	Ring Configuration	Choice	Smallint	Yes						ring_configuraton
6	ringinsertiondepth	Ring Insertion Depth	Float	Real	Yes		1	0.1	50	cm	
7	ringradius	Ring Radius	Float	Real	Yes		2	0.1	50	cm	
8	notes	Notes	Narrative Text	Varchar(max)	No						
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	peinfilfallheadiid	Rec ID	Integer	Int	Yes						

This table records the summarization of a replication of infiltration data collected by falling head method for a particular pedon on a particular date.

Table Physical Name: peinfiltrationfhdata
Table Label: Pedon Infiltration Falling Head Data

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	peinfilfallheadiidref	Lineage	Integer	Int	Yes						
2	infiltrationrunnum	Run #	Integer	Int	Yes			1			
3	deltatime	Delta Time	Float	Real	Yes		2	0.01	2000	min	
4	infiltrationwatervolume	Water Volume	Float	Real	Yes		2	0		ml	
5	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
6	recuseriidref	Record Last Updated By	Integer	Int	No						
7	pedoninfilfhdataiid	Rec ID	Integer	Int	Yes						

This table records the actual data measurements of a replication of infiltration data collected by falling head method for a particular pedon on a particular date.

Table Physical Name: peinfiltrationsummary
Table Label: Pedon Infiltration Summary

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	peiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	testdate	Test Date	Date/Time	Datetime	Yes						
4	datacollector	Data Collector	String	Varchar	No	60					
5	infiltrationmean	Infiltration Mean	Float	Real	No		2	0		cm/hr	
6	infiltrationstddev	Infiltation Std. Dev.	Float	Real	No		2	0			
7	infiltrationtestmethod	Test Method	Choice	Smallint	Yes						infiltration_test_method
8	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
9	recuseriidref	Record Last Updated By	Integer	Int	No						
10	pedoninfilsumiid	Rec ID	Integer	Int	Yes						

This table records the summarization of infiltration data collected for a particular pedon on a particular date.

Table Physical Name: pepenetrationresistance
Table Label: Pedon Penetration Resistance

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	peiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	penetrometerdepth	Depth	Integer	Int	Yes			0	9999	cm	
4	obssoimoiststat	Observed Moisture State	Choice	Smallint	No						observed_soil_moisture_status
5	penetrometertiptype	Tip Type	Choice	Smallint	Yes						penetrometer_tip_type
6	penetrometerspringtype	Spring Type	Choice	Smallint	Yes						penetrometer_spring_type
7	penetorient	Penetration Orientation	Choice	Smallint	Yes						penetration_orientation
8	penetrometerreading1	Reading 1	Float	Real	Yes		2	0.25	4.75	tons/ft2	
9	penetrometerreading2	Reading 2	Float	Real	No		2	0.25	4.75	tons/ft2	
10	penetrometerreading3	Reading 3	Float	Real	No		2	0.25	4.75	tons/ft2	
11	penetrometerreading4	Reading 4	Float	Real	No		2	0.25	4.75	tons/ft2	
12	datacollector	Data Collector	String	Varchar	No	60					
13	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
14	recuseriidref	Record Last Updated By	Integer	Int	No						
15	pepenetrometeriid	Rec ID	Integer	Int	Yes						

This table records penetration resistance data for a particular pedon.

Table Physical Name: perestrictions
Table Label: Pedon Restrictions

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	peiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	resdept	Top Depth	Integer	Smallint	No			0	9999	cm	
4	resdepb	Bottom Depth	Integer	Smallint	No			0	9999	cm	
5	resthk_l	Low	Integer	Smallint	No			0	999	cm	
6	resthk_r	RV	Integer	Smallint	No			0	999	cm	
7	resthk_h	High	Integer	Smallint	No			0	999	cm	
8	reskind	Kind	Choice	Smallint	No						restriction_kind
9	reshard	Hardness	Choice	Smallint	No						rupture_resist_block_cem
10	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
11	recuseriidref	Record Last Updated By	Integer	Int	No						
12	perestrictiid	Rec ID	Integer	Int	Yes						

The Pedon Restrictions table lists the root restrictive features or layers for this pedon. If the thickness of the restrictive layer is greater than zero (low=5, RV=8, high=10), the restrictive layer exists throughout the pedon. If the thickness of the restrictive layer includes zero (low=0, RV=2, high=5), this restrictive layer may exist in parts of the pedon, but not in others. This table will be empty if the pedon does not have any restrictive features, but could have several rows if several restrictive layers occur in the soil.

Table Physical Name: pesoilstability
Table Label: Pedon Soil Stability

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	peiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	soilstabilitydepth	Depth	Float	Real	Yes		1	0	9999		
4	samplecollector	Sample Collector	String	Varchar	No	60					
5	datacollector	Data Collector	String	Varchar	No	60					
6	testdate	Test Date	Date/Time	Datetime	No						
7	soilstabilityclass1	Stability Class Rep 1	Choice	Smallint	Yes						soil_stability_class
8	soilstabilityclass2	Stability Class Rep 2	Choice	Smallint	Yes						soil_stability_class
9	soilstabilityclass3	Stability Class Rep 3	Choice	Smallint	Yes						soil_stability_class
10	soilstabilityclasspredom	Stability Class Predominant	Choice	Smallint	No						soil_stability_class
11	soilhydrophobicind1	Rep 1 Hydrophobic?	Boolean	Bit	Yes						
12	soilhydrophobicind2	Rep 2 Hydrophobic?	Boolean	Bit	Yes						
13	soilhydrophobicind3	Rep 3 Hydrophobic?	Boolean	Bit	Yes						
14	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
15	recuseriidref	Record Last Updated By	Integer	Int	No						
16	pesoilstabilityiid	Rec ID	Integer	Int	Yes						

This table records data collected related to soil aggregate stability.

Table Physical Name: petaxhistfmmin
Table Label: Pedon Taxonomic History Family Mineralogy

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	pedtaxhistoryiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	minorder	Vertical Order	Integer	Smallint	Yes			1			
4	taxminalogy	Mineralogy	Choice	Smallint	Yes						taxonomic_family_mineralogy
5	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
6	recuseriidref	Record Last Updated By	Integer	Int	No						
7	petaxfmminiid	Rec ID	Integer	Int	Yes						

The Pedon Taxonomic History Family Mineralogy table lists the mineralogy characteristics that apply to this pedon. The characteristics listed in this table, as a group, describe the representative situation for this pedon.

Table Physical Name: petaxhistmoistcl
Table Label: Pedon Taxonomic History Moisture Class

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	pedtaxhistoryiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	taxmoistcl	Moisture Class	Choice	Smallint	Yes						taxonomic_moisture_class
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	petaxmciid	Rec ID	Integer	Int	Yes						

The Pedon Taxonomic History Moisture Class table provides clear identification of the intended taxonomic moisture class, even though moisture class is implied at a higher taxonomic level. The class or classes listed in this table describe the representative situation for the pedon.

Table Physical Name: petaxhistory
Table Label: Pedon Taxonomic History

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	peiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	classdate	Classification Date	Date/Time	Datetime	Yes						
4	classtype	Classification Type	Choice	Smallint	No						classification_type
5	classifier	Classifier	String	Varchar	No	60					
6	taxonname	Taxon Name	String	Varchar	Yes	60					
7	localphase	Local Phase	String	Varchar	No	40					
8	taxonkind	Taxon Kind	Choice	Smallint	No						component_kind
9	seriesstatus	Series Status	Choice	Smallint	No						series_status
10	taxclname	Taxonomic Class	String	Varchar	No	120					
11	taxclname_s	S	Integer	Smallint	No						
12	taxorder	Order	Choice	Smallint	No						taxonomic_order
13	taxsuborder	Suborder	Choice	Smallint	No						taxonomic_suborder
14	taxgrtgroup	Great Group	Choice	Smallint	No						taxonomic_great_group
15	taxsubgrp	Subgroup	Choice	Smallint	No						taxonomic_subgroup
16	taxpartsize	Particle Size	Choice	Smallint	No						taxonomic_family_particle_size
17	taxpartsizemod	Particle Size Mod	Choice	Smallint	No						taxonomic_family_part_size_mod
18	taxceactcl	CEC Activity Cl	Choice	Smallint	No						taxonomic_family_c_e_act_class
19	taxreaction	Reaction	Choice	Smallint	No						taxonomic_family_reaction
20	taxtempcl	Temp Class	Choice	Smallint	No						taxonomic_family_temp_class
21	taxmoistscl	Moist Subclass	Choice	Smallint	No						taxonomic_moisture_subclass
22	taxtempregime	Temp Regime	Choice	Smallint	No						taxonomic_temp_regime
23	taxfamhahatmatcl	HAHT Material Class	Choice	Smallint	No						taxonomic_family_haht_mat_class
24	soiltaxedition	Keys to Taxonomy Edition Used	Choice	Smallint	No						soil_taxonomy_edition
25	psctopdepth	PSC Top Depth	Integer	Int	No			0	999	cm	
26	pscbotdepth	PSC Bottom Depth	Integer	Int	No			0	999	cm	
27	osdtypelocflag	OSD Type Location ?	Boolean	Bit	Yes						
28	recwlupdated	Record Last Updated	Date/Time	Datetime	No						

Table Physical Name: petaxhistory
Table Label: Pedon Taxonomic History

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
29	recuseriidref	Record Last Updated By	Integer	Int	No						
30	petaxhistoryiid	Rec ID	Integer	Int	Yes						

This table records the taxonomic classification history of a pedon record from the time it is first described and classified in the field and throughout the life of the data record.

Table Physical Name: petext
Table Label: Pedon Text

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	peiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	recdate	Date	Date/Time	Datetime	No						
4	recauthor	Author	String	Varchar	No	25					
5	pedontextkind	Kind	Choice	Smallint	No						pedon_text_kind
6	textcat	Category	String	Varchar	No	20					
7	textsubcat	Subcategory	String	Varchar	No	20					
8	textentry	Text Entry	Narrative Text	Varchar(max)	No						
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	petextiid	Rec ID	Integer	Int	Yes						

The Pedon Text table contains notes and narrative descriptions for this pedon as a whole that can not be described using existing data elements in other tables. In many cases, the table will be empty. Notes that apply to a specific soil horizon should be entered in the Pedon Horizon Text table.

Table Physical Name: petxhistfmother
Table Label: Pedon Taxonomic History Family Other Criteria

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	pedtaxhistoryiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	taxfamother	Family Other	Choice	Smallint	Yes						taxonomic_family_other
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	petaxfoiid	Rec ID	Integer	Int	Yes						

The Pedon Taxonomic History Family Other Criteria table lists the other taxonomic characteristics, such as classes of coatings or permanent cracks, that apply to the pedon. The characteristics listed in this table, as a group, describe the representative situation for this pedon.

Table Physical Name: phcemagent
Table Label: Pedon Horizon Cementing Agent

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	ruprescem	Cementing Agent	Choice	Smallint	No						rupture_resist_cem_agent
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	phcemagentiid	Rec ID	Integer	Int	Yes						

The Pedon Horizon Cementing Agent table describes the chemical compound(s) that act as binding agents in cemented horizons.

Table Physical Name: phcoledata
Table Label: Pedon Horizon COLE Data

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phlabresultiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	repnum	Rep #	Integer	Int	Yes			1			
4	phcolereading	COLE Reading	Float	Real	Yes		2	0	0.3	cm/cm	
5	phcolemethod	COLE Method	Choice	Smallint	Yes						cole_method
6	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
7	recuseriidref	Record Last Updated By	Integer	Int	No						
8	phcoledataiid	Rec ID	Integer	Int	Yes						

This table records measurement taken when determinig COLE for a particular sample layer.

Table Physical Name: phcolor
Table Label: Pedon Horizon Color

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	colorpct	Color %	Integer	Smallint	No			1	100	percent	
4	colorhue	Hue	Choice	Smallint	No						color_hue
5	colorvalue	Value	Choice	Smallint	No						color_value
6	colorchroma	Chroma	Choice	Smallint	No						color_chroma
7	colorphysst	Phys State	Choice	Smallint	No						color_physical_state
8	colormoiststt	Moist State	Choice	Smallint	No						color_moisture_status
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	phcoloriid	Rec ID	Integer	Int	Yes						

The Pedon Horizon Color table describes the Munsell color of the soil matrix of each horizon described. Colors of other features are recorded in other tables used to describe those features.

Table Physical Name: phconccolor
Table Label: Pedon Horizon Concentrations Color

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phconceniidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	colorpct	Color %	Integer	Smallint	No			1	100	percent	
4	colorhue	Hue	Choice	Smallint	No						color_hue
5	colorvalue	Value	Choice	Smallint	No						color_value
6	colorchroma	Chroma	Choice	Smallint	No						color_chroma
7	colormoiststt	Moist State	Choice	Smallint	No						color_moisture_status
8	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
9	recuseriidref	Record Last Updated By	Integer	Int	No						
10	phconcencoloriid	Rec ID	Integer	Int	Yes						

The Pedon Horizon Concentrations Color table describes the Munsell color(s) of an individual concentration described in the Pedon Horizon Concentrations table.

Table Physical Name: phconcs
Table Label: Pedon Horizon Concentrations

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	concpct	Percent	Integer	Smallint	No			1	100	percent	
4	concsize	Size	Choice	Smallint	No						concen_rmf_mottle_size
5	conccntrst	Contrast	Choice	Smallint	No						concen_rmf_mottle_contrast
6	conchardness	Hardness	Choice	Smallint	No						concen_redox_hardness
7	concshape	Shape	Choice	Smallint	No						concen_rmf_mottle_shape
8	conckind	Kind	Choice	Smallint	No						concentration_kind
9	conclocation	Location	Choice	Smallint	No						concen_redox_location
10	concboundary	Boundary	Choice	Smallint	No						concen_redox_boundary
11	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
12	recuseriidref	Record Last Updated By	Integer	Int	No						
13	phconceniid	Rec ID	Integer	Int	Yes						

The Pedon Horizon Concentration table describes accumulations of material (both pedogenic and non-pedogenic) that are identified in each soil profile horizon at the time of description. They may be chemical or biological in nature. Multiple rows may be entered to describe different combinations of size, composition, shape, hardness, etc.

Table Physical Name: phcracks
Table Label: Pedon Horizon Cracks

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	crackfreq	Frequency	Integer	Smallint	Yes			1		count/m	
4	crackkind	Kind	Choice	Smallint	Yes						crack_kind
5	crackdepth	Depth	Float	Real	No		1	0.1		cm	
6	crackwidth	Width	Float	Real	No		1	0.1		cm	
7	crackextabove	Extends to Horizon Above?	Boolean	Bit	Yes						
8	crackextbelow	Extends to Horizon Below?	Boolean	Bit	Yes						
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	phcracksiid	Rec ID	Integer	Int	Yes						

The Pedon Horizon Cracks table describes cracks found in a particular soil horizon at the time of description.

Table Physical Name: phdb
Table Label: Pedon Horizon Bulk Density

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	bddepthtop	Depth to Top	Integer	Int	Yes			0	9999		
4	bddepthbottom	Depth to Bottom	Integer	Int	Yes			0	9999		
5	bdmethod	Method	Choice	Smallint	Yes						bulk_density_method
6	datacollector	Data Collector	String	Varchar	No	60					
7	samplevolfieldmoist	Field Moist Volume	Float	Real	No		1	1	10000	cm3	
8	totalsamplewtfm	Field Moist Sample Wt.	Float	Real	No		1	0.1		g	
9	totalsamplewtairdry	Air Dry Sample Wt	Float	Real	No		1	0.1		g	
10	coarsefragwtfm	Field Moist Co. Fragment Wt.	Float	Real	No		1	0.1		g	
11	coarsefragwtairdry	Air Dry Fragment Wt.	Float	Real	No		1	0		g	
12	coarsefragdensity	Fragment Density	Float	Real	No		2	0.1	5	g/cm3	
13	coarsefragvolmeasured	Coarse Fragment Volume	Float	Real	No		1	0.1		cm3	
14	subsamplewtairdry	Air Dry Subsample Wt.	Float	Real	No		1	0.1		g	
15	subsamplewtod	Oven Dry Subsample Wt.	Float	Real	No		1	0.1		g	
16	obsgrsoimoist	Grav. Soil Moist % Whole Soil	Integer	Smallint	No			0		percent	
17	obsgrsoimoist_s	S	Integer	Smallint	No						
18	obsgravsoilmoistfe	Grav. Soil Moist % Fine Earth	Integer	Smallint	No			0		percent	
19	obsgravsoilmoistfe_s	S	Integer	Smallint	No						
20	bdfieldmoistfineearth	Bulk Density FM Fine Earth	Float	Real	No		2	0.02	2.6	g/cm3	
21	bdfieldmoistwhole	Bulk Density FM Whole Soil	Float	Real	No		2	0.02	2.6	g/cm3	
22	bdovendrywhole	Bulk Density OD Whole Soil	Float	Real	No		2	0.02	2.6	g/cm3	
23	bdovendrywhole_s	S	Integer	Smallint	No						
24	bdovendryfineearth	Bulk Density OD Fine Earth	Float	Real	No		2	0.02	2.6	g/cm3	
25	bdovendryfineearth_s	S	Integer	Smallint	No						
26	bdsatiated	Bulk Density Satiated	Float	Real	No		2	0.02	2.6	g/cm3	
27	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
28	recuseriidref	Record Last Updated By	Integer	Int	No						
29	phbulkdensityiid	Rec ID	Integer	Int	Yes						

This table records individual bulk density measurements taken for a particular pedon and its horizons.

Table Physical Name: phdbcompliantcavity
Table Label: Pedon Horizon Bulk Density Compliant Cavity

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phbulkdensityiidref	Lineage	Integer	Int	Yes						
2	bulkdensitycavitydiameter	Cavity Diameter	Float	Real	No		1	1		cm	
3	bulkdensitycavitylength	Cavity Length	Float	Real	No		1	1		cm	
4	bulkdensitycavitywidth	Cavity Width	Float	Real	No		1	1		cm	
5	bulkdensitycavityinitvol	Cavity Initial Volume	Float	Real	No		1	1	10000	cm3	
6	bulkdensitycavityinitvol_s	S	Integer	Smallint	No						
7	bulkdensitycavityfinalvol	Cavity Final Volume	Float	Real	No		1	1	10000	cm3	
8	bulkdensitycavityfinalvol_s	S	Integer	Smallint	No						
9	cavityavedepthpredig	Cavity Depth Pre Dig	Float	Real	No		1	0.1		cm	
10	cavityavedepthpostdig	Cavity Depth Post Dig	Float	Real	No		1	0.1		cm	
11	bulkdensitycavitysampvol	Sample Volume	Float	Real	No		1	10	10000	cm3	
12	bulkdensitycavitysampvol_s	S	Integer	Smallint	No						
13	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
14	recuseriidref	Record Last Updated By	Integer	Int	No						
15	phbulkdencavityiid	Rec ID	Integer	Int	Yes						

This table record bulk density measurements collected using the compliant cavity sample method.

Table Physical Name: phdbcore
Table Label: Pedon Horizon Bulk Density Core

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phbulkdensityiidref	Lineage	Integer	Int	Yes						
2	sampletubelength	Total Tube Length	Float	Real	Yes		1	1		cm	
3	unfilledtubelength	Unfilled Tube Length	Float	Real	No		1	0		cm	
4	unfilledtubelength_s	S	Integer	Smallint	No						
5	coresamplelength	Core Sample Length	Float	Real	No		1	0.1		cm	
6	coresamplelength_s	S	Integer	Smallint	No						
7	sampletubediameter	Tube Diameter	Float	Real	Yes		1	1		cm	
8	coresamplevolume	Core Sample Volume	Float	Real	No		2	10		cm3	
9	coresamplevolume_s	S	Integer	Smallint	No						
10	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
11	recuseriidref	Record Last Updated By	Integer	Int	No						
12	phbulkdencoreiid	Rec ID	Integer	Int	Yes						

This table record bulk density measurements collected using the core sample method.

Table Physical Name: phdbcorereading
Table Label: Pedon Horizon Bulk Density Core Reading

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phbulkdencoreiidref	Lineage	Integer	Int	Yes						
2	bulkdensitytubeheadspace	Unfilled Tube Length	Float	Real	Yes		1	0		cm	
3	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
4	recuseriidref	Record Last Updated By	Integer	Int	No						
5	phbdcorereadingiid	Rec ID	Integer	Int	Yes						

This table records the individual unfilled core tube readings related to collecting bulk density samples.

Table Physical Name: phdbscoop
Table Label: Pedon Horizon Bulk Density Scoop

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phbulkdensityiidref	Lineage	Integer	Int	Yes						
2	scooplength	Scoop Length	Float	Real	No		1	1	25	cm	
3	scoopwidth	Scoop Width	Float	Real	No		1	1	25	cm	
4	scoopdepthtotal	Scoop Depth	Float	Real	No		1	1	10	cm	
5	scoopvolume	Scoop Volume	Float	Real	Yes		2	100	1000	cm3	
6	scoopvolume_s	S	Integer	Smallint	No						
7	scoopdepthunfilled	Scoop Depth Unfilled	Float	Real	No		1	0	10	cm	
8	scoopdepthunfilled_s	S	Integer	Smallint	No						
9	scoopsamplevolume	Sample Volume	Float	Real	No		2	50	1000	cm3	
10	scoopsamplevolume_s	S	Integer	Smallint	No						
11	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
12	recuseriidref	Record Last Updated By	Integer	Int	No						
13	phbulkdenscoopiid	Rec ID	Integer	Int	Yes						

This table records bulk density measurements collected using the scoop sample method.

Table Physical Name: phdbscoopreading
Table Label: Pedon Horizon Bulk Density Scoop Reading

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phbulkdenscoopiidref	Lineage	Integer	Int	Yes						
2	scoopheadspace	Unfilled Scoop Depth	Float	Real	Yes		1	0	10	cm	
3	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
4	recuseriidref	Record Last Updated By	Integer	Int	No						
5	phbulkdenscoopreadiid	Rec ID	Integer	Int	Yes						

This table records the individual unfilled scoop readings related to collecting bulk density samples.

Table Physical Name: phdesgnsuffix
Table Label: Pedon Horizon Designation Suffix

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	desgnsuffix	Suffix	Choice	Smallint	No						horz_desgn_letter_suffix
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	phdesgnsfxiid	Rec ID	Integer	Int	Yes						

The Horizon Designation Suffix table contains the suffixes, one per row, for each horizon. For example, the "h" and "s" of a Bhs horizon appear as two rows in this table.

Table Physical Name: phfeatcolor
Table Label: Pedon Horizon Features Color

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phfeatsiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	colorpct	Color %	Integer	Smallint	No			1	100	percent	
4	colorhue	Hue	Choice	Smallint	No						color_hue
5	colorvalue	Value	Choice	Smallint	No						color_value
6	colorchroma	Chroma	Choice	Smallint	No						color_chroma
7	colormoiststt	Moist State	Choice	Smallint	No						color_moisture_status
8	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
9	recuseriidref	Record Last Updated By	Integer	Int	No						
10	phfeatcoloriid	Rec ID	Integer	Int	Yes						

The Pedon Horizon Feature Color table describes the Munsell color(s) of an individual feature described in the Pedon Horizon Features table.

Table Physical Name: phfeatures
Table Label: Pedon Horizon Features

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	horfeatkind	Kind	Choice	Smallint	No						horizon_feature_kind
4	horfeatvtpct_l	Low	Integer	Smallint	No			1	100	percent	
5	horfeatvtpct_r	RV	Integer	Smallint	No			1	100	percent	
6	horfeatvtpct_h	High	Integer	Smallint	No			1	100	percent	
7	horfeatlapct_l	Low	Integer	Smallint	No			1	100	percent	
8	horfeatlapct_r	RV	Integer	Smallint	No			1	100	percent	
9	horfeatlapct_h	High	Integer	Smallint	No			1	100	percent	
10	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
11	recuseriidref	Record Last Updated By	Integer	Int	No						
12	phfeatsiid	Rec ID	Integer	Int	Yes						

The Pedon Horizon Features table describes special soil features found in a particular soil horizon at the time of description.

Table Physical Name: phfmp
Table Label: Pedon Horizon Field Measured Property

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	fmpname	Name	String	Varchar	No	80					
4	fmpvalue	Value	Float	Float	No		2				
5	fmpunits	Unit of Measure	String	Varchar	No	30					
6	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
7	recuseriidref	Record Last Updated By	Integer	Int	No						
8	phfmpiid	Rec ID	Integer	Int	Yes						

The Pedon Horizon Field Measured Property table contains the results of field or office conducted soil property analyses that apply to an individual horizon, that cannot be stored elsewhere in the database as separate data elements in other tables. Analyses that apply to the profile as a whole are entered into the Pedon Field Measured Property table.

Table Physical Name: phfrags
Table Label: Pedon Horizon Fragments

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	fragvol	Vol %	Float	Real	No		1	0	100	percent	
4	fragweight	Weight %	Float	Real	No		1	0	100	percent	
5	fragsize_l	Low	Integer	Smallint	No			2	3000	mm	
6	fragsize_r	RV	Integer	Smallint	No			2	3000	mm	
7	fragsize_h	High	Integer	Smallint	No			2	3000	mm	
8	fragkind	Kind	Choice	Smallint	No						fragment_kind
9	fragshp	Shape	Choice	Smallint	No						fragment_shape
10	fraground	Roundness	Choice	Smallint	No						fragment_roundness
11	fraghard	Hardness	Choice	Smallint	No						rupture_resist_block_cem
12	fragestmethod	Estimate Method	Choice	Smallint	No						fragment_estimate_method
13	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
14	recuseriidref	Record Last Updated By	Integer	Int	No						
15	phfragsiid	Rec ID	Integer	Int	Yes						

The Horizon Fragments table lists the mineral and organic fragments included in the horizon shown in the Pedon Horizon table. The Volume % in a row, is the estimated average for the kind and size of fragment identified in that row.

Table Physical Name: phgrcountdata
Table Label: Pedon Horizon Grain Count Data

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phgrcountsumiidref	Lineage	Integer	Int	Yes						
2	testdate	Test Date	Date/Time	Datetime	No						
3	repnum	Rep #	Integer	Int	Yes			1			
4	phgrcounttotal	Total Grain Count	Integer	Int	Yes			100	999		
5	phgrcountquartz	Quartz	Integer	Int	No			0	999		
6	phgrcountmica	Micaceous	Integer	Int	No			0	999		
7	phgrcountglass	Glass	Integer	Int	No			0	999		
8	phgrcountglasscoated	Glass Coated Minerals	Integer	Int	No			0	999		
9	phgrcountglassagg	Glass Aggregate	Integer	Int	No			0	999		
10	phgrcountother	Other Minerals	Integer	Int	No			0	999		
11	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
12	recuseriidref	Record Last Updated By	Integer	Int	No						
13	phgrcountiid	Rec ID	Integer	Int	Yes						

This table records the actual grain counts from a individual replicate samples from a particular sampled horizon or layer.

Table Physical Name: phgrcountsummary
Table Label: Pedon Horizon Grain Count Summary

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phlabresultiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	phgrcountquartz	Quartz	Integer	Int	No			0	999		
4	phgrcountmica	Micaceous	Integer	Int	No			0	999		
5	phgrcountglass	Glass	Integer	Int	No			0	999		
6	phgrcountglasscoated	Glass Coated Minerals	Integer	Int	No			0	999		
7	phgrcountglassagg	Glass Aggregate	Integer	Int	No			0	999		
8	phgrcountother	Other Minerals	Integer	Int	No			0	999		
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	phgrcountsumiid	Rec ID	Integer	Int	Yes						

This table records the summary of grain counts from a particular sampled horizon or layer.

Table Physical Name: phhuarts
Table Label: Pedon Horizon Human Artifacts

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	huartvol	Vol %	Integer	Smallint	Yes			0	100	percent	
4	huartsize_l	Low	Integer	Smallint	No			2	3000	mm	
5	huartsize_r	RV	Integer	Smallint	No			2	3000	mm	
6	huartsize_h	High	Integer	Smallint	No			2	3000	mm	
7	huartkind	Kind	Choice	Smallint	Yes						human_artifact_kind
8	huartco	Cohesion	Choice	Smallint	No						human_artifact_cohesion
9	huartshp	Shape	Choice	Smallint	No						human_artifact_shape
10	huartrnd	Roundness	Choice	Smallint	No						fragment_roundness
11	huartpen	Penetrability	Choice	Smallint	No						human_artifact_penetrability
12	huartsafety	Safety	Choice	Smallint	No						human_artifact_safety
13	huartper	Persistence	Choice	Smallint	No						human_artifact_persistence
14	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
15	recuseriidref	Record Last Updated By	Integer	Int	No						
16	phhuartiid	Rec ID	Integer	Int	Yes						

The Horizon Human Artifacts table lists the human created and/or modified objects included in the horizon shown in the Horizon table. These are objects or materials created (or modified) by humans for practical purposes related to activities such as manufacturing, construction, or waste disposal. Examples of artifacts include processed wood products, liquid petroleum products, coal combustion by-products, asphalt, fibers and fabrics, bricks, cinder blocks, concrete, plastic, glass, rubber, paper, cardboard, iron and steel, altered or manufactured metals and minerals, sanitary and medical waste, garbage and landfill waste.

Table Physical Name: phhydrometeranalysis
Table Label: Pedon Horizon Hydrometer Analysis

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phlabresultiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	testdate	Test Date	Date/Time	Datetime	No						
4	hydrosamplewt	Sample Weight	Float	Real	Yes		1	1	999	g	
5	hydroshmpconc	SHMP Concentration	Float	Real	No		3	0	0.999	g/ml	
6	hydroblankread	Blank Reading	Float	Real	No		1	0	99	g/l	
7	hydromethod	Method	Choice	Smallint	No						hydrometer_method
8	obsgrsoimoist	Grav. Soil Moist % Whole Soil	Integer	Smallint	No			0		percent	
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	phhydromanalysisiid	Rec ID	Integer	Int	Yes						

This table records data related to hydrometer analysis of a soil sample to determine particle size distribution.

Table Physical Name: phhydrometerdata
Table Label: Pedon Horizon Hydrometer Data

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phhydromanalysisiidref	Lineage	Integer	Int	Yes						
2	hydroreadingnum	Reading #	Integer	Int	Yes			1			
3	deltatime	Delta Time	Float	Real	Yes		2	0.01	2000	min	
4	hydrotemp	Temperature	Float	Real	No		1	10	30	degrees c	
5	hydroreading	Hydrometer Reading	Float	Real	Yes		1	0	99	g/l	
6	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
7	recuseriidref	Record Last Updated By	Integer	Int	No						
8	phhydrometerdataiid	Rec ID	Integer	Int	Yes						

This table records actual measurements taken during PSDA using hydrometer method.

Table Physical Name: phksatamoozedata
Table Label: Pedon Horizon Ksat Amoozemeter Data

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	peksatamoozeiidref	Lineage	Integer	Int	Yes						
2	ksatreadingnum	Reading #	Integer	Int	No			1			
3	waterdrop	Water Drop	Float	Real	Yes		1	0		cm	
4	deltatime	Delta Time	Float	Real	Yes		2	0.01	2000	min	
5	outflowchamberconvfact	Conversion Factor	Choice	Smallint	No					cm2	outflow_chamber_conv_factor
6	sathydcondmeasured	Ksat Measured	Float	Real	No		4	0	705	um/s	
7	steadystateflag	Steady State ?	Boolean	Bit	Yes						
8	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
9	recuseriidref	Record Last Updated By	Integer	Int	No						
10	peksatamoozedataiid	Rec ID	Integer	Int	Yes						

This table records actual measurements from an individual replicate of Ksat measurement in the field by Amoozemeter method.

Table Physical Name: phksatamoozemeter
Table Label: Pedon Horizon Ksat Amoozemeter

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phksatsumiidref	Lineage	Integer	Int	Yes						
2	repnum	Rep #	Integer	Int	Yes			1			
3	testdate	Test Date	Date/Time	Datetime	Yes						
4	sathydcondrepmean	Ksat Mean	Float	Real	No		4	0	705	um/s	
5	sathydcondrepstd	Ksat Std. Dev.	Float	Real	No		4	0	705	um/s	
6	sathydcondclass	Ksat Class	Choice	Smallint	No						sat_hyd_conductivity_class
7	boreholedepth	Borehole Depth	Float	Real	Yes		1	0	9999	cm	
8	boreholeradius	Borehole Radius	Float	Real	Yes		1	0.1		cm	
9	boreholewaterlevelinit	Initial Water Level	Float	Real	Yes		1			cm	
10	boreholewaterlevelfinal	Final Water Level	Float	Real	Yes		1			cm	
11	notes	Notes	Narrative Text	Varchar(max)	No						
12	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
13	recuseriidref	Record Last Updated By	Integer	Int	No						
14	phksatamoozemeteriid	Rec ID	Integer	Int	Yes						

This table records data about individual replications of Ksat measurements in the field by Amoozemeter method.

Table Physical Name: phksatring
Table Label: Pedon Horizon Ksat Ring

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phksatsumiidref	Lineage	Integer	Int	Yes						
2	repnum	Rep #	Integer	Int	Yes			1			
3	testdate	Test Date	Date/Time	Datetime	Yes						
4	sathydcondrepmean	Ksat Mean	Float	Real	No		4	0	705	um/s	
5	sathydcondrepstd	Ksat Std. Dev.	Float	Real	No		4	0	705	um/s	
6	sathydcondclass	Ksat Class	Choice	Smallint	No						sat_hyd_conductivity_class
7	ringconfiguration	Ring Configuration	Choice	Smallint	Yes						ring_configuraton
8	ringinsertiondepth	Ring Insertion Depth	Float	Real	Yes		1	0.1	50	cm	
9	ringradius	Ring Radius	Float	Real	Yes		2	0.1	50	cm	
10	waterponddepth	Water Ponding Depth	Float	Real	Yes		1	0	50	cm	
11	mariottebottleradius	Mariotte Bottle Radius	Float	Real	No		2	0.1	50	cm	
12	texturestructurecat	Texture/Structure Category	Choice	Smallint	No						texture_structure_category
13	notes	Notes	Narrative Text	Varchar(max)	No						
14	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
15	recuseriidref	Record Last Updated By	Integer	Int	No						
16	phksatringiid	Rec ID	Integer	Int	Yes						

This table records data about individual replications of Ksat measurements in the field by ring method.

Table Physical Name: phksatringdata
Table Label: Pedon Horizon Ksat Ring Data

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	peksatringiidref	Lineage	Integer	Int	Yes						
2	ksatreadingnum	Reading #	Integer	Int	No			1			
3	waterdrop	Water Drop	Float	Real	No		1	0		cm	
4	deltatime	Delta Time	Float	Real	No		2	0.01	2000	min	
5	sathydcondmeasured	Ksat Measured	Float	Real	No		4	0	705	um/s	
6	steadystateflag	Steady State ?	Boolean	Bit	Yes						
7	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
8	recuseriidref	Record Last Updated By	Integer	Int	No						
9	peksatringdataiid	Rec ID	Integer	Int	Yes						

This table records actual measurements from an individual replicate of Ksat measurement in the field by ring method.

Table Physical Name: phksatsummary
Table Label: Pedon Horizon Ksat Summary

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	testdate	Test Date	Date/Time	Datetime	Yes						
4	datacollector	Data Collector	String	Varchar	No	60					
5	sathydcondmean	Ksat Mean	Float	Real	No		4	0	705	um/s	
6	sathydcondstd	Ksat Std Dev	Float	Real	No		2	0	705	um/s	
7	sathydcondmethod	Test Method	Choice	Smallint	Yes						sat_hyd_conduct_method
8	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
9	recuseriidref	Record Last Updated By	Integer	Int	No						
10	pedonksatsummaryiid	Rec ID	Integer	Int	Yes						

This table records the summarization of saturated hydraulic conductivity (Ksat) data collected for a particular pedon on a particular date.

Table Physical Name: phlabresults
Table Label: Pedon Horizon Lab Results

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	sampledepthtop	Top Depth	Float	Real	Yes		1	0	9999	cm	
4	sampledepthbottom	Bottom Depth	Float	Real	No		1	0	9999	cm	
5	sampleid	Sample ID	String	Varchar	No	20					
6	datacollector	Data Collector	String	Varchar	No	60					
7	claytotmeasured	Total Clay - Measured	Float	Real	No		1	0	100	percent	
8	claycarbmeasured	CaCO3 Clay - Measured	Float	Real	No		1	0	100	percent	
9	silttotmeasured	Total Silt - Measured	Float	Real	No		1	0	100	percent	
10	siltfinemeasured	Fine Silt - Measured	Float	Real	No		1	0	100	percent	
11	siltcomeasured	Co. Silt - Measured	Float	Real	No		1	0	100	percent	
12	sandtotmeasured	Total Sand - Measured	Float	Real	No		1	0	100	percent	
13	sandtotmethod	Total Sand Method	Choice	Smallint	No						sand_total_method
14	sandvcmeasured	VC Sand - Measured	Float	Real	No		1	0	100	percent	
15	sandcomeasured	Co. Sand - Measured	Float	Real	No		1	0	100	percent	
16	sandmedmeasured	Med. Sand - Measured	Float	Real	No		1	0	100	percent	
17	sandfinemeasured	Fine Sand - Measured	Float	Real	No		1	0	100	percent	
18	sandvfmeasured	VF Sand - Measured	Float	Real	No		1	0	100	percent	
19	sandvfmethod	VF Sand Method	Choice	Smallint	No						sand_very_fine_method
20	textureclfieldlab	Texture Class - Field Lab	Choice	Smallint	No						texture_class
21	fiberrubbedpct	Rubbed Fiber %	Integer	Smallint	No			0	100	percent	
22	fiberunrubbedpct	Unrubbed Fiber % 2	Integer	Smallint	No			0	100	percent	
23	ph1to1h2o	pH 1:1 water	Float	Real	No		1	1	13		
24	ph01mcacl2	pH .01M CaCl2	Float	Real	No		1	1	13		
25	phnaf	pH NaF	Float	Real	No		1	1	13		
26	phoxidized	pH Oxidized	Float	Real	No		1	1	13		
27	phdeltah2o2	Delta pH - H2O2	Float	Real	No		1	1	13		
28	liquidlimitmeasured	LL - Measured	Float	Real	No		1	0	400	percent	
29	plasticlimitmeasured	PL - Measured	Float	Real	No		1	0	400	percent	
30	pi	PI	Float	Real	No		1	0	130	percent	
31	atterbergsampcond	Atterberg Sample Condition	Choice	Smallint	No						atterberg_sample_condition
32	cole	COLE	Float	Real	No		2	0	0.3	cm/cm	

Table Physical Name: phlabresults
Table Label: Pedon Horizon Lab Results

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
33	esttotpotacidityetpa	Est. Pot. Acidity - ETPA	Float	Real	No		1			meq/100g	
34	camgmeh2	Ca + Mg - Meh 2	Float	Real	No		1	0		cmol(+)/kg	
35	potassiummeh2	Potassium - Meh 2	Float	Real	No		1	0		cmol(+)/kg	
36	camgsatpaste	Ca + Mg - Sat. Paste	Float	Real	No		1	0		mmol(+)/l	
37	extractacidityk cl	KCl Extract. Acidity	Float	Real	No		1	0		cmol(+)/kg	
38	basesatmeh2	Base Sat. - Meh 2	Integer	Smallint	No			0		percent	
39	cec7	CEC-7	Float	Real	No		1	0	400	cmol(+)/kg	
40	cec82	CEC-8.2	Float	Real	No		1	0	400	cmol(+)/kg	
41	ecec	ECEC	Float	Real	No		1	0	400	cmol(+)/kg	
42	phosphatephos	Phosphate Phosphorous	Float	Real	No		1			mg/kg	
43	nitratenitrogen	NO3-N	Float	Real	No		1			mg/kg	
44	ecmeasured	EC	Float	Real	No		2	0	15000	dS/m	
45	ecdeterminemeth	EC Method	Choice	Smallint	No						elec_cond_method
46	ec15	EC 1:5 by volume	Float	Real	No		1	0	100	dS/m	
47	caco3equivmeasured	CaCO3 Equiv. Measured	Integer	Smallint	No			0	110	percent	
48	gypsumequiv	Equiv. Gypsum	Integer	Smallint	No					percent	
49	sodium	Sodium	Float	Real	No		1	0		mmol(+)/l	
50	sar	SAR	Float	Real	No		1	0	9999		
51	gypsumreq	Gypsum Req.	Integer	Int	No					cmol(+)/kg	
52	humiccolor	Humic Color	Float	Real	No		1	0	500	L-pcu/g	
53	fulviccolor	Fulvic Color	Float	Real	No		1	0	500	L-pcu/g	
54	humicfulviccolor	Humic+Fulvic Color	Float	Real	No		1	0	500	L-pcu/g	
55	alummeasured	Aluminum	Float	Real	No		1			percent	
56	pyrophoshue	Pyrophosphate Hue	Choice	Smallint	No						color_hue
57	pyrophosvalue	Pyrophosphate Value	Choice	Smallint	No						color_value
58	pyrophoschroma	Pyrophosphate Chroma	Choice	Smallint	No						color_chroma
59	melanicindex	Melanic Index	Float	Real	No		2	0	20		
60	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
61	recuseriidref	Record Last Updated By	Integer	Int	No						
62	phlabresultiid	Rec ID	Integer	Int	Yes						

NASIS 7.1.4
Tables and Columns

Table Physical Name: phlabresults
Table Label: Pedon Horizon Lab Results

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name

This table records the results of analytical tests of soil chemical and physical properties.

Table Physical Name: phmottles
Table Label: Pedon Horizon Mottles

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	mottlepct	Percent	Integer	Smallint	No			1	100	percent	
4	mottlesize	Size	Choice	Smallint	No						concen_rmf_mottle_size
5	mottlecntrst	Contrast	Choice	Smallint	No						concen_rmf_mottle_contrast
6	colorhue	Hue	Choice	Smallint	No						color_hue
7	colorvalue	Value	Choice	Smallint	No						color_value
8	colorchroma	Chroma	Choice	Smallint	No						color_chroma
9	mottleshape	Shape	Choice	Smallint	No						concen_rmf_mottle_shape
10	colormoiststt	Moist State	Choice	Smallint	No						color_moisture_status
11	mottleloc	Location - obsolete	Choice	Smallint	No						mottle_location
12	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
13	recuseriidref	Record Last Updated By	Integer	Int	No						
14	phmottlesiid	Rec ID	Integer	Int	Yes						

The Pedon Horizon Mottles tables describes those color patterns found in soil horizons that are NOT associated with concentrations, redoximorphic features, or ped and void coatings. Mottles are now defined as being non-wetness related color separations. They are generally lithochromic or lithomorphic in nature.

Table Physical Name: phorizon
Table Label: Pedon Horizon

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	peiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	hzdept	Top Depth	Integer	Smallint	No			0	9999	cm	
4	hzdepb	Bottom Depth	Integer	Smallint	No			0	9999	cm	
5	hzthk_l	Low	Integer	Smallint	No			0	9999	cm	
6	hzthk_r	RV	Integer	Smallint	No			0	9999	cm	
7	hzthk_h	High	Integer	Smallint	No			0	9999	cm	
8	obsmethod	Observation Method	Choice	Smallint	No						observation_method
9	hzname	Designation	String	Varchar	No	12					
10	hzname_s	S	Integer	Smallint	No						
11	desgndisc	Disc	Integer	Smallint	No			2	99		
12	desgnmaster	Master	Choice	Smallint	No						horz_desgn_master
13	desgnmasterprime	Prime	Choice	Smallint	No						horz_desgn_master_prime
14	desgnvert	Sub	Integer	Smallint	No			1			
15	texture	Tex Mod & Class	String	Varchar	No	30					
16	texture_s	S	Integer	Smallint	No						
17	stratextsflag	Stratified?	Boolean	Bit	Yes						
18	claytotest	Est Clay %	Float	Real	No		1	0	100	percent	
19	claycarbest	Carbonate Clay - Est.	Float	Real	No		1	0	100	percent	
20	silttotest	Est Silt %	Float	Real	No		1	0	100	percent	
21	sandtotest	Est Sand %	Float	Real	No		1	0	100	percent	
22	fragvoltot	Total Fragment Volume	Integer	Smallint	No			0	100	percent	
23	horcolorvflag	Variegated Colors?	Boolean	Bit	Yes						
24	obssoimoiststat	Observed Moisture State	Choice	Smallint	No						observed_soil_moisture_status
25	rupresblkmst	Rupture Moist	Choice	Smallint	No						rupture_resist_block_moist
26	rupresblkdry	Rupture Dry	Choice	Smallint	No						rupture_resist_block_dry
27	rupresblkcem	Rupture Cement	Choice	Smallint	No						rupture_resist_block_cem
28	rupresplate	Rupture Plate	Choice	Smallint	No						rupture_resist_plate
29	mannerfailure	Manner of Failure	Choice	Smallint	No						manner_of_failure
30	stickiness	Stickiness	Choice	Smallint	No						stickiness
31	plasticity	Plasticity	Choice	Smallint	No						plasticity

Table Physical Name: phorizon
Table Label: Pedon Horizon

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
32	toughclass	Tough Class	Choice	Smallint	No						toughness_class
33	penetrres	Penetration Resistance	Choice	Smallint	No						penetration_resistance
34	penetorient	Penetration Orientation	Choice	Smallint	No						penetration_orientation
35	ksatpedon	Ksat	Float	Real	No		4	0	705	um/s	
36	ksatstddev	Ksat Std Dev	Float	Float	No		3	0	100	um/s	
37	ksatrepnum	Ksat Rep #	Integer	Smallint	No			1			
38	horzpermclass	Permeability Class	Choice	Smallint	No						permeability_class
39	obsinfiltrationrate	Infiltration Rate	Float	Real	No		2	0		cm/hr	
40	phfield	Field pH	Float	Real	No		1	1	13		
41	phdetermeth	pH Method	Choice	Smallint	No						ph_determination_method
42	effclass	Efferv Class	Choice	Smallint	No						effervescence_class
43	efflocation	Efferv Loc - obsolete	Choice	Smallint	No						effervescence_location
44	effagent	Efferv Agent	Choice	Smallint	No						effervescence_agent
45	carbdevstagefe	Carbonate Dev Stage - FE	Choice	Smallint	No						carbonate_dev_stage_fe
46	carbdevstagecf	Carbonate Dev Stage - CF	Choice	Smallint	No						carbonate_dev_stage_cf
47	mneffclass	MN Efferv Class	Choice	Smallint	No						effervescence_class
48	mneffagent	MN Efferv Agent	Choice	Smallint	No						effervescence_agent_mn
49	reactadipyridyl	A-A Dipyridyl Reaction	Choice	Smallint	No						reaction_to_alpha_dipyridyl
50	dipyridylpct	A-A Dipyridyl Percent	Integer	Smallint	No			1	100		
51	dipyridylloc	A-A Dipyridyl Location	Choice	Smallint	No						concen_redox_location
52	excavdifcl	Excav Diff	Choice	Smallint	No						excavation_difficulty_class
53	soilodor	Odor	Choice	Smallint	No						soil_odor
54	soilodorintensity	Odor Intensity	Choice	Smallint	No						soil_odor_intensity
55	rmonosulfidep	Reduced Monosulfide Presence	Boolean	Bit	Yes						
56	bounddistinct	Boundary Distinctness	Choice	Smallint	No						boundary_distinctness
57	boundtopo	Boundary Topography	Choice	Smallint	No						boundary_topography
58	horzvoltotpct_l	Low	Integer	Smallint	No			1	100	percent	
59	horzvoltotpct_r	RV	Integer	Smallint	No			1	100	percent	
60	horzvoltotpct_h	High	Integer	Smallint	No			1	100	percent	
61	horzlatareapct_l	Low	Integer	Smallint	No			1	100	percent	
62	horzlatareapct_r	RV	Integer	Smallint	No			1	100	percent	
63	horzlatareapct_h	High	Integer	Smallint	No			1	100	percent	

Table Physical Name: phorizon
Table Label: Pedon Horizon

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
64	dspcomplayerid	Comp Layer ID	String	Varchar	No	25					
65	aashtocl	AASHTO	Choice	Smallint	No						aashto_group_classification
66	unifiedcl	Unified	Choice	Smallint	No						unified_soil_classification
67	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
68	recuseriidref	Record Last Updated By	Integer	Int	No						
69	phiid	Rec ID	Integer	Int	Yes						

The Pedon Horizon table lists the horizons for each pedon. If the horizon thickness is greater than zero (low=5, RV=8, high=12), the horizon exists throughout the exposure of the profile. If the horizon thickness includes zero (low=0, RV=1, high=3), the horizon may exist in some places, but may not exist in other places.

Horizons that have two distinct parts, such as E/B or E&Bt, are recorded twice. Once for the characteristics of the first part; and again on another row, using the same depths and thicknesses, for the characteristics of the other part.

Table Physical Name: phpores
Table Label: Pedon Horizon Pores

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	poreqty	Quantity	Float	Real	No		1	0	99	pores/area	
4	poreqtyclass	Quantity Class	Choice	Smallint	No						pore_quantity_class
5	poresize	Size	Choice	Smallint	No						pore_root_size
6	porecont	Continuity	Choice	Smallint	No						pore_continuity_vertical
7	poreshp	Shape	Choice	Smallint	No						pore_shape
8	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
9	recuseriidref	Record Last Updated By	Integer	Int	No						
10	phporesiid	Rec ID	Integer	Int	Yes						

The Pedon Horizon Pores table lists the voids for the horizon shown above in the Pedon Horizon table. More than one row can be listed because a horizon may have more than one size or shape of void.

Table Physical Name: phpvsf
Table Label: Pedon Horizon Ped Void Surface Features

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	pvsfpct	Percent	Integer	Smallint	No			1	100	percent	
4	pvsfkind	Kind	Choice	Smallint	No						pvsf_kind
5	pvsfdistinct	Distinctness	Choice	Smallint	No						pvsf_distinctness
6	pvsfcont	Continuity (Obsolete)	Choice	Smallint	No						pvsf_continuity
7	pvsflocation	Location	Choice	Smallint	No						pvsf_location
8	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
9	recuseriidref	Record Last Updated By	Integer	Int	No						
10	phpvsfiid	Rec ID	Integer	Int	Yes						

The Pedon Horizon Ped Void Surface Feature table describes those features found on the surface of peds or voids in the respective soil horizon.

Table Physical Name: phpvsfcolor
Table Label: Pedon Horizon Ped Void Surface Features Color

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phpvsfiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	colorpct	Color %	Integer	Smallint	No			1	100	percent	
4	colorhue	Hue	Choice	Smallint	No						color_hue
5	colorvalue	Value	Choice	Smallint	No						color_value
6	colorchroma	Chroma	Choice	Smallint	No						color_chroma
7	colormoiststt	Moist State	Choice	Smallint	No						color_moisture_status
8	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
9	recuseriidref	Record Last Updated By	Integer	Int	No						
10	phpvsfcoloriid	Rec ID	Integer	Int	Yes						

The Pedon Horizon Ped Void Surface Feature Color table describes the Munsell color(s) of an individual feature described in the Pedon Horizon Ped Void Surface Features table.

Table Physical Name: phrdxfeatures
Table Label: Pedon Horizon Redoximorphic Features

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	rdxfeatpct	Percent	Integer	Smallint	No			1	100	percent	
4	rdxfeatsize	Size	Choice	Smallint	No						concen_rmf_mottle_size
5	rdxfeatcntrst	Contrast	Choice	Smallint	No						concen_rmf_mottle_contrast
6	rdxfeathardness	Hardness	Choice	Smallint	No						concen_redox_hardness
7	rdxfeatshape	Shape	Choice	Smallint	No						concen_rmf_mottle_shape
8	rdxfeatkind	Kind	Choice	Smallint	No						redox_feat_kind
9	rdxfeatlocation	Location	Choice	Smallint	No						concen_redox_location
10	rdxfeatboundary	Boundary	Choice	Smallint	No						concen_redox_boundary
11	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
12	recuseriidref	Record Last Updated By	Integer	Int	No						
13	phrdxfiid	Rec ID	Integer	Int	Yes						

The Pedon Horizon Redoximorphic Features table describes those soil horizon features that are the result of the accumulation or depletion of minerals caused by the oxidation and/or reduction of iron and/or manganese.

Table Physical Name: phredoxfcolor
Table Label: Pedon Horizon Redoximorphic Features Color

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phrdxfiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	colorpct	Color %	Integer	Smallint	No			1	100	percent	
4	colorhue	Hue	Choice	Smallint	No						color_hue
5	colorvalue	Value	Choice	Smallint	No						color_value
6	colorchroma	Chroma	Choice	Smallint	No						color_chroma
7	colormoiststt	Moist State	Choice	Smallint	No						color_moisture_status
8	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
9	recuseriidref	Record Last Updated By	Integer	Int	No						
10	phrdxfcoloriid	Rec ID	Integer	Int	Yes						

The Pedon Horizon Redox Feature Color table describes the Munsell color(s) of an individual feature described in the Pedon Horizon Redoximorphic Features table.

Table Physical Name: phroots
Table Label: Pedon Horizon Roots

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	rootsquantity	Quantity	Float	Real	No		1	0	99	roots/area	
4	rootsquantityclass	Quantity Class	Choice	Smallint	No						root_quantity_class
5	rootssize	Size	Choice	Smallint	No						pore_root_size
6	rootslocation	Location	Choice	Smallint	No						roots_location
7	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
8	recuseriidref	Record Last Updated By	Integer	Int	No						
9	phrootsiid	Rec ID	Integer	Int	Yes						

The Pedon Horizon Roots table describes the abundance, size and location of roots in each soil horizon.

Table Physical Name: phsample
Table Label: Pedon Horizon Sample

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	labsampnum	Lab Sample #	String	Varchar	No	10					
4	fldsampid	Field Sample ID	String	Varchar	No	20					
5	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
6	recuseriidref	Record Last Updated By	Integer	Int	No						
7	phlabsampiid	Rec ID	Integer	Int	Yes						

The Pedon Horizon Sample table describes the relationship between a soil horizon description and other types of data that may be in the database that relate to that specific horizon, i.e. laboratory analysis results.

Table Physical Name: phstructure
Table Label: Pedon Horizon Soil Structure

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	structgrade	Grade	Choice	Smallint	No						structure_grade
4	structsize	Size	Choice	Smallint	No						structure_size
5	structtype	Type	Choice	Smallint	No						structure_type
6	structid	Structure ID	Integer	Smallint	No			1			
7	structpartsto	Parts to Structure ID	Integer	Smallint	No			1			
8	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
9	recuseriidref	Record Last Updated By	Integer	Int	No						
10	phstructureiid	Rec ID	Integer	Int	Yes						

The Pedon Horizon Soil Structure table describes the soil structure of each horizon described. Multiple types, size and grades of structure may be described as well as their relationship to one another.

Table Physical Name: phtext
Table Label: Pedon Horizon Text

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	recdate	Date	Date/Time	Datetime	No						
4	recauthor	Author	String	Varchar	No	25					
5	phorizontextkind	Kind	Choice	Smallint	No						phorizon_text_kind
6	textcat	Category	String	Varchar	No	20					
7	textsubcat	Subcategory	String	Varchar	No	20					
8	textentry	Text Entry	Narrative Text	Varchar(max)	No						
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	phtextiid	Rec ID	Integer	Int	Yes						

The Horizon Text table contains notes and narrative descriptions for each horizon. Horizon text is typically used to document additional features observed for a horizon, but no data elements exist for these features. An entry is optional. In many cases, the table is empty.

Table Physical Name: phtexture
Table Label: Pedon Horizon Texture

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	texcl	Texture	Choice	Smallint	No						texture_class
4	lieutex	In Lieu	Choice	Smallint	No						terms_used_in_lieu_of_texture
5	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
6	recuseriidref	Record Last Updated By	Integer	Int	No						
7	phtiid	Rec ID	Integer	Int	Yes						

The Horizon Texture table lists the texture, or terms in lieu of texture, for the texture modifier and class shown above in the Pedon Horizon table. Only the unmodified texture term is listed in the Pedon Horizon Texture table; modifiers are listed in the Pedon Horizon Texture Modifier table. For example, a gravelly loamy sand is shown as "GR-LS" in the Pedon Horizon table, "ls" in this table, and "gr" in the Pedon Horizon Texture Modifier table.

Table Physical Name: phtexturemod
Table Label: Pedon Horizon Texture Modifier

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phtiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	texmod	Modifier	Choice	Smallint	No						texture_modifier
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	phtexmodiid	Rec ID	Integer	Int	Yes						

The Pedon Horizon Texture Modifier table lists the texture modifiers for the texture shown above in the Pedon Horizon and Pedon Horizon Texture tables. For example, a gravelly loamy sand is shown as "GR-LS" in the Pedon Horizon table, "ls" in the Pedon Horizon Texture table, and "gr" in this table.

Table Physical Name: phvnirscan
Table Label: Pedon Horizon VNIR Scan

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phiidref	Lineage	Integer	Int	Yes						
2	vnirdepthtop	Depth to Top	Integer	Int	Yes			0	9999	cm	
3	vnirdepthbottom	Depth to Bottom	Integer	Int	Yes			0	9999	cm	
4	vnirsamplecondition	Sample Condition	Choice	Smallint	Yes						vnir_sample_condition
5	vnirlightsource	Light Source	Choice	Smallint	Yes						vnir_light_source
6	vnirscandate	VNIR Scan Date	Date/Time	Datetime	Yes						
7	vnirfilename	VNIR File Name	File Reference	Varchar	Yes	260					
8	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
9	recuseriidref	Record Last Updated By	Integer	Int	No						
10	phvnirscaniid	Rec ID	Integer	Int	Yes						

This table records information about VNIR scans run on samples for a particular pedon and its horizons.

Table Physical Name: phvnirscanrawdata
Table Label: Pedon Horizon VNIR Scan Raw Data

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phvnirscaniidref	Lineage	Integer	Int	Yes						
2	vnirdata	VNIR Data	Binary	Varbinary(max)	Yes						
3	phvnirscanrawdataiid	Rec ID	Integer	Int	Yes						

The table stores the VNIR binary file for a particular pedon and its horizons.

Table Physical Name: phvnirscanresult
Table Label: Pedon Horizon VNIR Scan Result

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	phvnirscaniidref	Lineage	Integer	Int	Yes						
2	vnirmodelid	VNIR Model ID	String	Varchar	Yes	20					
3	vnirmodelrundate	Date	Date/Time	Datetime	Yes						
4	carbontotalpct	Total Carbon %	Float	Real	No		2	0.01	100	percent	
5	carboninorganicpct	Inorganic Carbon %	Float	Real	No		2	0.01	100	percent	
6	carbonorganicpct	Organic Carbon %	Float	Real	No		2	0.01	100	percent	
7	carbonorganicpct_s	S	Integer	Smallint	No						
8	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
9	recuseriidref	Record Last Updated By	Integer	Int	No						
10	phvnirscanresultiid	Rec ID	Integer	Int	Yes						

This table records soil property estimates generated from VNIR scan data.

Table Physical Name: plant
Table Label: Plant

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	plantsym	Plant Symbol	String	Varchar	Yes	8					
2	plantsciname	Scientific Name	String	Varchar	No	127					
3	plantnatvernm	National Vernacular Name	String	Varchar	No	60					
4	plantgenus	Genus Name	String	Varchar	No	30					
5	plantspecies	Species Name	String	Varchar	No	30					
6	plantsubspecies	Subspecies Name	String	Varchar	No	30					
7	plantvariety	Variety Name	String	Varchar	No	30					
8	obterm	Obsolete?	Boolean	Bit	Yes						
9	plantdbiidref	Plant NASIS Site	Integer	Int	Yes						
10	grpiidref	NASIS Group	Integer	Int	Yes						
11	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
12	objuseriidref	Object Last Updated By	Integer	Int	No						
13	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
14	recuseriidref	Record Last Updated By	Integer	Int	No						
15	plantiid	Rec ID	Integer	Int	Yes						

Each record in the Plant table represents a plant, where a plant is defined as a unique instance of a scientific (taxonomic) name. While scientific name author may be required in order to make a scientific name unique, scientific name author is not included as part of the scientific name in this table. The plant symbol attribute is a business oriented field that uniquely identifies a plant.

The Plant table contains a mixture or currently accepted nomenclature and obsolete nomenclature. If a plant in this table represents obsolete nomenclature, it will have one or more corresponding records in the Plant Synonym table denoting the currently accepted nomenclature for that plant.

Table Physical Name: plantprodquadratdetails
Table Label: Plant Production Quadrat Details

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	vegtransplantsummiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	quadratnumber	Quadrat #	Integer	Int	Yes			1	999		
4	transectpointlocation	Transect Point Location	Float	Real	No		1	0	1000	feet	
5	quadratclippedindicator	Quadrat Clipped ?	Boolean	Bit	Yes						
6	specieswtairdry	Species Wt. Air-dry	Integer	Int	No			0		g	
7	specieswtclipped	Species Wt. Clipped	Integer	Int	No			0		g	
8	specieswtestimated	Species Wt. Estimated	Integer	Int	No			0		g	
9	speciestraceamtflag	Trace Amount ?	Boolean	Bit	Yes						
10	weightunitcount	# of Weight Units	Float	Real	No		2	0	99		
11	speciescancovpct	Species Canopy Cover %	Integer	Smallint	No			0	100	percent	
12	speciescancovclass	Species Canopy Cover Class	Choice	Smallint	No						canopy_cover_class
13	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
14	recuseriidref	Record Last Updated By	Integer	Int	No						
15	plantprodquaddetailsiid	Rec ID	Integer	Int	Yes						

This table contains data collected from individual quadrats along a transect collected using the Double Sampling, Harvest, and/or Weight Unit protocols as part of a vegetation inventory.

Table Physical Name: plantsyn
Table Label: Plant Synonym

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	plantiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	plantiidref2	Accepted Plant	Integer	Int	Yes						
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	plantsyniid	Rec ID	Integer	Int	Yes						

The Plant Synonym table records the relationship between obsolete plant nomenclature and currently accepted nomenclature. Typically there is a single counterpart for an obsolete plant, but some obsolete plants are split into more than one new plant.

Table Physical Name: plotdisturbance
Table Label: Plot Disturbance

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	vegplotiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	disturbancetype	Disturbance Type	Choice	Smallint	Yes						disturbance_type
4	disturbancefrequency	Frequency	Choice	Smallint	No						disturbance_frequency
5	disturbanceimpact	Disturbance Impact	Choice	Smallint	No						disturbance_impact
6	disturbancelastapplied	When Last Applied ?	Choice	Smallint	No						disturbance_last_applied
7	notes	Notes	Narrative Text	Varchar(max)	No						
8	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
9	recuseriidref	Record Last Updated By	Integer	Int	No						
10	plotdisturbanceiid	Rec ID	Integer	Int	Yes						

This table contains data pertaining to disturbances that have occurred at the plot location.

Table Physical Name: plotgrazinguse
Table Label: Plot Grazing Use

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	vegplotiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	animalkind	Animal Kind	Choice	Smallint	Yes						animal_kind
4	usefrequency	Frequency of Use	Choice	Smallint	No						use_frequency
5	seasonofuse	Season of Use	Choice	Smallint	No						season_of_use
6	stockingratecl	Stocking Rate	Choice	Smallint	No						stocking_rate
7	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
8	recuseriidref	Record Last Updated By	Integer	Int	No						
9	plotgrazinguseiid	Rec ID	Integer	Int	Yes						

This table contains data pertaining to the grazing use of the plot area.

Table Physical Name: plotmainforeststanddetails
Table Label: Main Forest Stand Details

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	vegplotiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	transectpointlocation	Transect Point Location	Float	Real	Yes		1	0	1000	feet	
4	distancefromprevious	Distance From Previous Point	Float	Real	Yes		1	1		feet	
5	plantiidref	Plant	Integer	Int	Yes						
6	treediameterbreastheight	Tree DBH	Float	Real	No		1	1	360	inches	
7	treeconditions	Tree Condition	Choice	Smallint	No						tree_condition
8	notes	Notes	Narrative Text	Varchar(max)	No						
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	plotmainforstanddetailiid	Rec ID	Integer	Int	Yes						

This table contains data collected about the 'main' forest stand present on a particular vegetation plot.

Table Physical Name: plotplantinventory
Table Label: Plot Plant Inventory

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	vegplotiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	plantiidref	Plant	Integer	Int	Yes						
4	planttypegroup	Plant Type Group	Choice	Smallint	No						plant_type
5	plantheightcllowerlimit	Height Class Lower Limit	Float	Real	No		1	0	500	feet	
6	plantheightclupperlimit	Height Class Upper Limit	Float	Real	No		1	0	500	feet	
7	plantnativity	Plant Nativity	Choice	Smallint	No						plant_nativity
8	sociabilityclass	Sociability Class	Choice	Smallint	No						sociability_class
9	livecanopyhtbottom	Live Canopy Ht. Bottom	Integer	Int	No			0	500	feet	
10	livecanopyhttop	Live Canopy Ht. Top	Integer	Int	No			0	500	feet	
11	overstorydbhmin	Overstory DBH Minimum	Float	Real	No		1	0.1	99	inches	
12	overstorydbhmax	Overstory DBH Maximum	Float	Real	No		1	0.1	360	inches	
13	speciescancovpct	Canopy Cover %	Integer	Smallint	No			0	100	percent	
14	speciescancovclass	Canopy Cover Class	Choice	Smallint	No						canopy_cover_class
15	speciesbasalarea	Basal Area	Integer	Int	No			1	500	ft2/acre	
16	understorygrcovpct	Understory Ground Cover %	Integer	Smallint	No			0	100	percent	
17	understorygrcovclass	Understory Ground Cover Class	Choice	Smallint	No						ground_cover_class
18	seedlingdensityclass	Seedling Density Class	Choice	Smallint	No						plant_density_class
19	maturedensityclass	Mature Density Class	Choice	Smallint	No						plant_density_class
20	vegetationstratalevel	Vegetation Strata Level	Choice	Smallint	No						vegetation_strata_level
21	orderofdominance	Order of Dominance	Integer	Int	No			1	10		
22	outsideplotindicator	Observed Outside Plot ?	Boolean	Bit	Yes						
23	estannualprod	Estimated Annual Prod.	Integer	Int	No			0		lbs/acre	
24	esdannualprod	ESD Annual Prod.	Integer	Int	No			0		lbs/acre	
25	allowableannualprod	Allowable Prod.	Integer	Int	No			0		lbs/acre	
26	palatableannualprod	Palatable Prod.	Integer	Int	No			0		lbs/acre	
27	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
28	recuseriidref	Record Last Updated By	Integer	Int	No						
29	plotplantinventoryiid	Rec ID	Integer	Int	Yes						

Table Physical Name: plotplantinventory
Table Label: Plot Plant Inventory

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name

This table contains data collected pertaining to individual plant species found on the plot. The inventory data were collected from the plot as a whole as opposed to collecting plant data along transects within the plot.

Table Physical Name: plotplanttypecanopycover
Table Label: Plot Plant Type Canopy Cover

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	vegplotiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	planttypegroup	Plant Type Group	Choice	Smallint	Yes						plant_type
4	plantheightcllowerlimit	Height Class Lower Limit	Float	Real	Yes		1	0	500	feet	
5	plantheightclupperlimit	Height Class Upper Limit	Float	Real	Yes		1	0	500	feet	
6	planttypecancovpct	Canopy Cover %	Integer	Smallint	No			0	100	percent	
7	planttypecancovclass	Canopy Cover Class	Choice	Smallint	No						canopy_cover_class
8	cancovassessmethod	Assessment Method	Choice	Smallint	No						assessment_method
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	plotplanttypecancoviid	Rec ID	Integer	Int	Yes						

This table contains data pertaining to canopy cover by various plant type groups within a vegetation plot.

Table Physical Name: plotsamplingprotocolused
Table Label: Plot Sampling Protocol Used

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	vegplotiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	plotsampprotocolname	Protocol Name	Choice	Smallint	Yes						plot_protocol
4	datacollector	Data Collector	String	Varchar	No	60					
5	datarecorder	Data Recorder	String	Varchar	No	50					
6	samplingintensity	Sampling Intensity	Choice	Smallint	No						sampling_intensity
7	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
8	recuseriidref	Record Last Updated By	Integer	Int	No						
9	plotsampprotocolusediid	Rec ID	Integer	Int	Yes						

This table lists the sampling protocol(s) used to collected vegetation inventory data from the plot as a whole.

Protocols used along individual vegetation transects are recorded in the Transect Sampling Protocol Used table.

Table Physical Name: plotspeciesbasalarea
Table Label: Plot Species Basal Area

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	vegplotiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	plantiidref	Plant	Integer	Int	Yes						
4	basalareafactor	Basal Area Factor	Choice	Smallint	Yes						basal_area_factor
5	speciesnumbertreesin	# of Trees In	Integer	Int	No			0			
6	speciesbasalarea	Species Basal Area	Integer	Int	No			1	500	ft2/acre	
7	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
8	recuseriidref	Record Last Updated By	Integer	Int	No						
9	plotspeciebasalareaiid	Rec ID	Integer	Int	Yes						

This table contains data pertaining to basal area of individual species collected as part of a vegetation inventory within a vegetation plot.

NASIS 7.1.4
Tables and Columns

Table Physical Name: plottreeinventory
Table Label: Plot Tree Inventory

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	vegplotiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	plantiidref	Plant	Integer	Int	Yes						
4	speciestreecount	# of Trees	Integer	Int	No			1	999		
5	speciescomppct	Composition %	Integer	Smallint	No			0	100	percent	
6	speciesdbhaverage	DBH Average	Float	Real	No		1	1	360	inches	
7	speciesbasalarea	Species Basal Area	Integer	Int	No			1	500	ft2/acre	
8	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
9	recuseriidref	Record Last Updated By	Integer	Int	No						
10	plottreeinventoryiid	Rec ID	Integer	Int	Yes						

This table contains data about tree species found on a plot.

Table Physical Name: plottreescounted
Table Label: Plot Trees Counted

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	plottreeinventoryiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	dbhclassmidpoint	DBH Class Midpoint	Integer	Int	Yes			2	360	inches	
4	dbhclassspeciestreecount	# of Trees	Integer	Int	Yes			1			
5	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
6	recuseriidref	Record Last Updated By	Integer	Int	No						
7	plottreescountediid	Rec ID	Integer	Int	Yes						

This table contains data about the trees of a species counted in various DBH size classes within a plot.

Table Physical Name: plottreesiteindexdetails
Table Label: Plot Tree Site Index Details

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	plottreesiteindsumiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	treenumber	Tree #	Integer	Int	Yes			1			
4	crownclass	Crown Class	Choice	Smallint	No						crown_class
5	reproductionsource	Reproduction Source	Choice	Smallint	No						reproduction_source
6	treediameterbreastheight	Tree DBH	Float	Real	No		1	1	360	inches	
7	tenyeargrowthradius	10 Yr. Growth Radius	Float	Real	No		1	0.1	100	inches	
8	growthringcount	Growth Ring Count	Integer	Int	No			1	5000		
9	growthringcountheight	Growth Ring Count Height	Float	Real	No		1	0	9	feet	
10	growthringcountage	Growth Ring Count Age	Integer	Int	No			1	5000	yrs	
11	treeage	Tree Age	Integer	Int	No			1	5000	yrs	
12	treecanopyhtbottom	Canopy Ht. Bottom	Integer	Int	No			1	500	feet	
13	treecanopyhttop	Canopy Ht. Top	Integer	Int	No			1	500	feet	
14	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
15	recuseriidref	Record Last Updated By	Integer	Int	No						
16	plottreesiteinddetailsiid	Rec ID	Integer	Int	Yes						

This table contains measurements from individual trees of a species collected for site index purposes.

Table Physical Name: plottreesiteindexsummary
Table Label: Plot Tree Site Index Summary

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	vegplotiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	plantiidref	Plant	Integer	Int	Yes						
4	plantnativity	Plant Nativity	Choice	Smallint	No						plant_nativity
5	siteindexbase	Site Index Base	Choice	Smallint	Yes						site_index_curves
6	speciestreecount	# of Trees	Integer	Int	No			1	999		
7	siteindexplotave	Average Site Index	Integer	Int	No			1	999		
8	speciesdbhaverage	DBH Average	Float	Real	No		1	1	360	inches	
9	treeageave	Average Tree Age	Integer	Int	No			1	5000	yrs	
10	treecanopyhttopave	Average Canopy Top Ht.	Integer	Int	No			1	500	feet	
11	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
12	recuseriidref	Record Last Updated By	Integer	Int	No						
13	plottreesiteindsumiid	Rec ID	Integer	Int	Yes						

This table contains tree species data collected from a vegetation plot for site index purposes.

Table Physical Name: plottreesummary
Table Label: Plot Tree Summary

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	vegplotiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	dbhclassmidpoint	DBH Class Midpoint	Integer	Int	Yes			2	360	inches	
4	dbhclasstreecount	# of Trees	Integer	Int	No			1			
5	dbhclassbasalarea	DBH Class Basal Area	Integer	Int	No			1	500	ft2/acre	
6	dbhclasstreedensity	DBH Class Tree Density	Integer	Int	No			1		trees/ac	
7	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
8	recuseriidref	Record Last Updated By	Integer	Int	No						
9	plottreesummaryiid	Rec ID	Integer	Int	Yes						

This table contains summary data about trees in various DBH size classes within a plot.

Table Physical Name: pointplantcoverdetails
Table Label: Point Plant Cover Details

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	vegtransplantsummiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	transectpointlocation	Transect Point Location	Float	Real	Yes		1	0	1000	feet	
4	livecanopyhtbottom	Live Canopy Ht. Bottom	Integer	Int	No			0	500	feet	
5	livecanopyhttop	Live Canopy Ht. Top	Integer	Int	No			0	500	feet	
6	canopycoverpresent	Canopy Cover Present ?	Boolean	Bit	Yes						
7	foliarcoverpresent	Foliar Cover Present ?	Boolean	Bit	Yes						
8	basalcoverpresent	Basal Cover Present ?	Boolean	Bit	Yes						
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	pointplantcovdetailsiid	Rec ID	Integer	Int	Yes						

This table contains data pertaining to plant cover collected a points along a vegetation transect.

Table Physical Name: project
Table Label: Project

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	uprojectid	User Project Id	String	Varchar	Yes	60					
2	projectname	Project Name	String	Varchar	Yes	120					
3	projectdesc	Description	Narrative Text	Varchar(max)	No						
4	projectapprovedflag	Approved?	Boolean	Bit	Yes						
5	projecttypeiidref	Project Type	Integer	Int	No						
6	mlrassoareaiidref	MLRA Soil Survey Office Area	Integer	Int	No						
7	mlrassoareatypeiidref	MLRA Soil Survey Office Area Type	Integer	Int	Yes						
8	nonmlrassaareaiidref	Non-MLRA Soil Survey Area	Integer	Int	No						
9	nonmlrassaareatypeiidref	Non-MLRA Soil Survey Area Type	Integer	Int	Yes						
10	stateresponsible	State Responsible	Choice	Smallint	No						state_fips_code_alpha
11	editorsite	English Edit Site	Choice	Smallint	No						editor_site
12	compfundyr	Compilation Funding Year	Date/Time	Datetime	No						
13	dmfsite	Digital Map Finishing Site	Choice	Smallint	No						dmf_site
14	mapfinishmeth	Map Finish Method	Choice	Smallint	No						map_finish_method
15	ssurgoinitiative	SSURGO Initiative?	Boolean	Bit	Yes						
16	digfundyr	Digitizing Funding Year	Date/Time	Datetime	No						
17	digunit	Digitizing Unit	Choice	Smallint	No						digitizing_unit
18	projectdbiidref	Project NASIS Site	Integer	Int	Yes						
19	grpiidref	NASIS Group	Integer	Int	Yes						
20	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
21	objuseriidref	Object Last Updated By	Integer	Int	No						
22	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
23	recuseriidref	Record Last Updated By	Integer	Int	No						
24	projectiid	Rec ID	Integer	Int	Yes						

This table provides for the listing of projects to be completed.

Table Physical Name: projectconcern
Table Label: Project Concern Need

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	projectiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	projectconcerntypeiidref	Project Concern Type	Integer	Int	Yes						
4	recwlupdated	Record Last Updated	Date/Time	Datetime	Yes						
5	recuseriidref	Record Last Updated By	Integer	Int	Yes						
6	projectconcerniid	Rec Id	Integer	Int	Yes						

Project concern need data.

Table Physical Name: projectconcerntype
Table Label: Project Concern Type

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	projectconcerntypename	Project Concern Type Name	String	Varchar	Yes	60					
2	projectconcerntypedesc	Project Concern Description	String	Varchar	No	240					
3	obterm	Obsolete?	Boolean	Bit	Yes						
4	projectconcerntypedbiidref	Project Concern Type NASIS Site	Integer	Int	Yes						
5	grpiidref	NASIS Group	Integer	Int	Yes						
6	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
7	objuseriidref	Object Last Updated By	Integer	Int	No						
8	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
9	recuseriidref	Record Last Updated By	Integer	Int	No						
10	projectconcerntypeiid	Rec Id	Integer	Int	Yes						

Project concern type data.

Table Physical Name: projectcorrelation
Table Label: Project Correlation

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	projectiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	recdate	Date	Date/Time	Datetime	Yes						
4	recauthor	Author	String	Varchar	No	25					
5	corrtype	Correlation Type	Choice	Smallint	Yes						correlation_type
6	corramendnum	Amendment Number	Integer	Int	No			1			
7	corrdoc	Correlation Document	Narrative Text	Varchar(max)	Yes						
8	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
9	recuseriidref	Record Last Updated By	Integer	Int	No						
10	projectcorrelationiid	Rec ID	Integer	Int	Yes						

The Legend Correlation table contains the narrative Final Correlation documents and respective Correlation Amendments.

Table Physical Name: projectdataneed
Table Label: Project Data Need

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	projectiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	projectdatatypeiidref	Project Data Type	Integer	Int	Yes						
4	projectimageryscale	Project Imagery Scale	Integer	Int	No						
5	dateneeded	Date Needed	Date/Time	Datetime	No						
6	dateordered	Date Ordered	Date/Time	Datetime	No						
7	datereceived	Date Received	Date/Time	Datetime	No						
8	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
9	recuseriidref	Record Last Updated By	Integer	Int	No						
10	projectdataneediid	Rec ID	Integer	Int	Yes						

This table provides for listing various data layers and products that are needed to complete a particular project.

Table Physical Name: projectdatatype
Table Label: Project Data Type

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	projectdatatypename	Project Data Type Name	String	Varchar	Yes	60					
2	projectdatatypedesc	Project Data Type Description	String	Varchar	No	240					
3	obterm	Obsolete?	Boolean	Bit	Yes						
4	projectdatatypedbiidref	Project Data Type NASIS Site	Integer	Int	Yes						
5	grpiidref	NASIS Group	Integer	Int	Yes						
6	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
7	objuseriidref	Object Last Updated By	Integer	Int	No						
8	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
9	recuseriidref	Record Last Updated By	Integer	Int	No						
10	projectdatatypeiid	Rec ID	Integer	Int	Yes						

This table provides a listing of data layers and imagery products that might be needed to complete a soil survey project. Items listed serve as a lookup list for the Project Data Needs table.

Table Physical Name: projectecologicalsite
Table Label: Project Ecological Site

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	projectiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	ecositeiidref	Ecological Site	Integer	Int	Yes						
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	projectecologicalsiteiid	Rec ID	Integer	Int	Yes						

This table records a linkage to the Ecological Site(s) that are associated with a particular Project.

Table Physical Name: projectfieldreview
Table Label: Project Field Review

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	projectiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	recdate	Date	Date/Time	Datetime	Yes						
4	recauthor	Author	String	Varchar	No	25					
5	corevent	Correlation Event	Choice	Smallint	Yes						correlation_event
6	reviewdoc	Review Document	Narrative Text	Varchar(max)	Yes						
7	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
8	recuseriidref	Record Last Updated By	Integer	Int	No						
9	projectfieldreviewiid	Rec ID	Integer	Int	Yes						

The Project Field Review table contains the narrative document associated with a particular field review or visit.

Table Physical Name: projectlandcatbreakdown
Table Label: Project Land Category Breakdown

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	projectiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	projectlandcategory	Land Category	Choice	Smallint	Yes						legend_land_category
4	projectlandcategoryacres	Land Category Acres	Integer	Int	Yes			0			
5	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
6	recuseriidref	Record Last Updated By	Integer	Int	No						
7	projectlandcatbrkdniid	Rec ID	Integer	Int	Yes						

This table records the land ownership breakdown of a project, in acres, by a standard set of land ownership categories.

Table Physical Name: projectmappinggoal
Table Label: Project Mapping Goal

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	projectiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	fiscalyear	Fiscal Year	Integer	Smallint	Yes			1890	2100		
4	projectstaffiidref	Project Staff Member	Integer	Int	No						
5	initnrcsacresg	Initial NRCS Acres Goal	Integer	Int	No			0		acres	
6	initcoopacresg	Initial Cooperator Acres Goal	Integer	Int	No			0		acres	
7	updtnrcsacresg	Update NRCS Acres Goal	Integer	Int	No			0		acres	
8	updtcoopacresg	Update Cooperator Acres Goal	Integer	Int	No			0		acres	
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	projectmappinggoaliid	Rec ID	Integer	Int	Yes						

This table records mapping goals for the project on a fiscal year basis. Goals for initial mapping are recorded separately from goals for update mapping. A mapping goal may be assigned to an individual member of the project staff, but such an assignment is optional.

Table Physical Name: projectmappingprogress
Table Label: Project Mapping Progress

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	projectlandcatbrkdniidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	progrptdate	Progress Reporting Date	Date/Time	Datetime	Yes						
4	initnrcsacres	Initial NRCS Acres	Integer	Int	No			0		acres	
5	initcoopacres	Initial Cooperator Acres	Integer	Int	No			0		acres	
6	updtnrcsacres	Update NRCS Acres	Integer	Int	No			0		acres	
7	updtcoopacres	Update Cooperator Acres	Integer	Int	No			0		acres	
8	projectstaffiidref	Project Staff Member	Integer	Int	No						
9	projectiidref	Project	Integer	Int	Yes						
10	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
11	recuseriidref	Record Last Updated By	Integer	Int	No						
12	projectmappingprogressiid	Rec ID	Integer	Int	Yes						

This table records the mapping progress in a project throughout the life of a project. Each progress entry shows additional acres that have been mapped since progress was last reported. Cumulative mapping is not shown in this table, instead it is calculated in a report. Mapping progress for initial acres mapped mapping is recorded separately from update acres mapped. Mapping progress may be assigned to an individual member of the project staff, but such an assignment is optional.

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Table Physical Name: projectmapunit
Table Label: Project Mapunit

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	projectiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	muiidref	Mapunit	Integer	Int	Yes						
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	projectmapunitiid	Rec ID	Integer	Int	Yes						

This table provides a linkage between a project and the map units (in the Mapunit table) that are a part of that project. The list of map units may come from multiple legends.

Table Physical Name: projectmilestone
Table Label: Project Milestone

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	projectiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	milestonetypeiidref	Milestone Type	Integer	Int	Yes						
4	milestonedesc	Milestone Description	String	Varchar	No	240					
5	scheduledstartdate	Scheduled Start Date	Date/Time	Datetime	No						
6	scheduledcompletiondate	Scheduled Completion Date	Date/Time	Datetime	No						
7	milestonedatestarted	Milestone Date Started	Date/Time	Datetime	No						
8	milestonedatecompleted	Milestone Date Completed	Date/Time	Datetime	No						
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	projectmilestoneiid	Rec ID	Integer	Int	Yes						

This table is used to identify milestones that have been identified for the associated project in the Project table. Progress towards completion of each milestone can be entered in the Milestone Progress table.

Table Physical Name: projectmilestoneprogress
Table Label: Project Milestone Progress

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	projectmilestoneiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	fiscalyear	Fiscal Year	Integer	Smallint	Yes			1890	2100		
4	milestoneprogressamount	Milestone Progress Amount	Integer	Int	Yes						
5	milestoneprogressunit	Milestone Progress Unit	Choice	Smallint	Yes						milestone_progress_unit
6	projectstaffiidref	Project Staff Member	Integer	Int	No						
7	projectiidref	Project	Integer	Int	Yes						
8	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
9	recuseriidref	Record Last Updated By	Integer	Int	No						
10	projectmilestoneprogressiid	Rec ID	Integer	Int	Yes						

This table is used to identify progress made towards completion of each milestone that has been identified in the Milestone table.

Table Physical Name: projectproduct
Table Label: Project Product

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	projectiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	prodtype	Product Type	Choice	Smallint	Yes						product_type
4	proddesc	Product Description	String	Varchar	No	254					
5	prodsch	Scheduled Delivery	Date/Time	Datetime	No						
6	ptextform	Product Text Formatted	Date/Time	Datetime	No						
7	ptextproof	Product Text Proofed	Date/Time	Datetime	No						
8	ptextcomplete	Product Text Completed	Date/Time	Datetime	No						
9	ptextsubmit	Product Text Submitted	Date/Time	Datetime	No						
10	proddel	Actual Delivery	Date/Time	Datetime	No						
11	prodastat	Availability Status	Boolean	Bit	Yes						
12	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
13	recuseriidref	Record Last Updated By	Integer	Int	No						
14	projectproductiid	Rec ID	Integer	Int	Yes						

This table records all types of final products that are produced for a particular soil survey. Text formatting and editing progress may be tracked independently for each product. Each entry can identify the projected availability of a product, the actual delivery date of a product, and whether a particular product is still available.

NASIS 7.1.4
Tables and Columns

Table Physical Name: projectstaff
Table Label: Project Staff

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	projectiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	projectstaffuseriidref	Project Staff Member	Integer	Int	Yes						
4	projectleaderflag	Project Leader?	Boolean	Bit	Yes						
5	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
6	recuseriidref	Record Last Updated By	Integer	Int	No						
7	projectstaffiid	Rec ID	Integer	Int	Yes						

This table records the staff members associated with a particular project.

Table Physical Name: projecttext
Table Label: Project Text

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	projectiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	recdate	Date	Date/Time	Datetime	Yes						
4	recauthor	Author	String	Varchar	No	25					
5	projecttextkind	Kind	Choice	Smallint	Yes						project_text_kind
6	textcat	Category	String	Varchar	No	20					
7	textsubcat	Subcategory	String	Varchar	No	20					
8	textentry	Text Entry	Narrative Text	Varchar(max)	No						
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	projecttextiid	Rec ID	Integer	Int	Yes						

The Project Text table contains notes and narrative descriptions for the corresponding project. Project text is optional.

NASIS 7.1.4
Tables and Columns

Table Physical Name: projecttype
Table Label: Project Type

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	projecttypename	Project Type Name	String	Varchar	Yes	60					
2	projecttypedesc	Description	String	Varchar	No	240					
3	obterm	Obsolete?	Boolean	Bit	Yes						
4	projecttypedbiidref	Project Type NASIS Site	Integer	Int	Yes						
5	grpiidref	NASIS Group	Integer	Int	Yes						
6	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
7	objuseriidref	Object Last Updated By	Integer	Int	No						
8	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
9	recuseriidref	Record Last Updated By	Integer	Int	No						
10	projecttypeiid	Rec ID	Integer	Int	Yes						

Added as a lookup table for NHQ management requirements to aid in managing different types of projects.

Table Physical Name: property
Table Label: Property

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	seqnum	Seq	Integer	Smallint	No			1			
2	propname	Property Name	String	Varchar	Yes	60					
3	propdesc	Description	Narrative Text	Varchar(max)	No						
4	propdatatype	Data Type	Choice	Smallint	Yes						property_data_type
5	prop	Property	Property	Varchar(max)	Yes						
6	propmod	Modality	Choice	Smallint	Yes						property_modality
7	propuom	Units	String	Varchar	No	30					
8	propmin	Minimum	Float	Float	No		4				
9	propmax	Maximum	Float	Float	No		4				
10	propdefval	Default Value	String	Varchar	No	254					
11	dataafuse	Ready to use?	Boolean	Bit	Yes						
12	propdbiidref	Property NASIS Site	Integer	Int	Yes						
13	grpiidref	NASIS Group	Integer	Int	Yes						
14	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
15	objuseriidref	Object Last Updated By	Integer	Int	No						
16	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
17	recuseriidref	Record Last Updated By	Integer	Int	No						
18	propiid	Rec ID	Integer	Int	Yes						

The Property table lists the properties and the owner of each property. Properties are part of the criteria used in making interpretations of soil survey data. Properties are SQL-like statements that acquire soil data from the database for use in evaluations.

Table Physical Name: propertytext
Table Label: Property Text

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	propiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	recdate	Date	Date/Time	Datetime	No						
4	recauthor	Author	String	Varchar	No	25					
5	textkind	Kind	Choice	Smallint	No						text_kind_general
6	textcat	Category	String	Varchar	No	20					
7	textsubcat	Subcategory	String	Varchar	No	20					
8	textentry	Text Entry	Narrative Text	Varchar(max)	No						
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	proptextiid	Rec ID	Integer	Int	Yes						

The Property Text table contains notes and narrative descriptions for each property script. Text included may be related to edits or changes made to the script. Property text is optional. In many cases, this table is empty.

Table Physical Name: query
Table Label: Query

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	seqnum	Seq	Integer	Smallint	No			1			
2	qryname	Query Name	String	Varchar	Yes	60					
3	qrydesc	Description	Narrative Text	Varchar(max)	No						
4	query	Query	Query	Varchar(max)	Yes						
5	dataafuse	Ready to use?	Boolean	Bit	Yes						
6	qrydbiidref	Query NASIS Site	Integer	Int	Yes						
7	grpiidref	NASIS Group	Integer	Int	Yes						
8	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
9	objuseriidref	Object Last Updated By	Integer	Int	No						
10	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
11	recuseriidref	Record Last Updated By	Integer	Int	No						
12	qryiid	Rec ID	Integer	Int	Yes						

The Query table contains queries and the owner of each query. Queries are used to select data for viewing in NASIS tables. Users may create new queries at any time. Although queries are created and edited in this table, the Select Manager (accessed through the File menu) is used to actually run queries.

Table Physical Name: queryfavorites
Table Label: Query Favorites

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	useriidref	NASIS User	Integer	Int	Yes						
2	qryiidref	Query	Integer	Int	Yes						
3	queryfavoriteiid	Rec ID	Integer	Int	Yes						

A record in this table represents a favorite query for the corresponding NASIS user.

Table Physical Name: querytext
Table Label: Query Text

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	qryiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	recdate	Date	Date/Time	Datetime	No						
4	recauthor	Author	String	Varchar	No	25					
5	textkind	Kind	Choice	Smallint	No						text_kind_general
6	textcat	Category	String	Varchar	No	20					
7	textsubcat	Subcategory	String	Varchar	No	20					
8	textentry	Text Entry	Narrative Text	Varchar(max)	No						
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	qrytextiid	Rec ID	Integer	Int	Yes						

The Query Text table contains notes and narrative descriptions for each query script. Text included may be related to edits or changes made to the script. Query text is optional. In many cases, this table is empty.

NASIS 7.1.4
Tables and Columns

Table Physical Name: relationshipmaster
Table Label: Relationship Master

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	indexiidref	Lineage	Integer	Int	Yes						
2	depindexiidref	Dependency Index	Integer	Int	Yes						
3	sysiidref	System	Integer	Int	Yes						
4	relationshipname	Relationship Name	String	Varchar	Yes	30					
5	deletefail	Fail on Delete?	Boolean	Bit	Yes						
6	cardinality	Cardinality	Choice	Smallint	Yes						cardinality_nasis
7	mandatory	Mandatory?	Boolean	Bit	Yes						
8	inhierarchy	In Hierarchy?	Boolean	Bit	Yes						
9	favoritechild	Favorite Child?	Boolean	Bit	Yes						
10	loadfindrelated	Traverse?	Boolean	Bit	Yes						
11	paste	Allow Paste?	Boolean	Bit	Yes						
12	constraintdeferrable	Constraint Deferrable?	Boolean	Bit	Yes						
13	foreignkeyconstraintname	Foreign Key Constraint Name	String	Varchar	No	128					
14	relationshipid	Relationship ID	Integer	Int	No						
15	orgper	Originating Person	String	Varchar	No	60					
16	conper	Contact Person	String	Varchar	No	60					
17	pendact	Pending Action	Choice	Smallint	No						pending_action
18	pendstat	Pending Status	Choice	Smallint	No						pending_status
19	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
20	recuseriidref	Record Last Updated By	Integer	Int	No						
21	relationshipiid	Relationship	Integer	Int	Yes						

Relationship master data

NASIS 7.1.4
Tables and Columns

Table Physical Name: relationshipmasterhist
Table Label: Relationship Master History

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	relationshipiidref	Lineage	Integer	Int	Yes						
2	notedate	Date	Date/Time	Datetime	No						
3	notes	Notes	Narrative Text	Varchar(max)	No						
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	relationshipnoteiid	Rec ID	Integer	Int	Yes						

This table records changes made to a particular Relationship Master.

Table Physical Name: replicationparameter
Table Label: Replication Parameter

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	dblastrefreshedtimestamp	Database Last Refreshed Timestamp	Date/Time	Datetime	No						
2	lockuseriidref	Lock NASIS User	Integer	Int	No						

This single record table records assorted replication related parameters.

Table Physical Name: report
Table Label: Report

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	seqnum	Seq	Integer	Smallint	No			1			
2	rptname	Report Name	String	Varchar	Yes	60					
3	rptdesc	Description	Narrative Text	Varchar(max)	No						
4	rptfmt	Report Format	Choice	Smallint	Yes						report_format
5	report	Report	Report	Varchar(max)	Yes						
6	dataafuse	Ready to use?	Boolean	Bit	Yes						
7	rptdbiidref	Report NASIS Site	Integer	Int	Yes						
8	grpiidref	NASIS Group	Integer	Int	Yes						
9	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
10	objuseriidref	Object Last Updated By	Integer	Int	No						
11	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
12	recuseriidref	Record Last Updated By	Integer	Int	No						
13	rptiid	Rec ID	Integer	Int	Yes						

The Report table contains reports and the owner of each report. Reports are used to print data from the selected set being viewed in the NASIS tables. Users may create new reports at any time. Although reports are created and edited in this table, the Report Manager (accessed through the Options menu) is used to actually run reports.

Table Physical Name: reportcolumn
Table Label: Report Column

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	rptiidref	Report	Integer	Int	Yes						
2	tabphynm	Table Physical Name	String	Varchar	Yes	33					
3	colphynm	Column Physical Name	String	Varchar	Yes	33					
4	reportcolumniid	Rec ID	Integer	Int	Yes						

A record in this table corresponds to a column in the NASIS database that is referenced in a Select statement of the corresponding CVIR report script. The column in question may not actually be displayed in the report.

NASIS 7.1.4
Tables and Columns

Table Physical Name: reportfavorites
Table Label: Report Favorites

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	useriidref	NASIS User	Integer	Int	Yes						
2	rptiidref	Report	Integer	Int	Yes						
3	reportfavoriteiid	Rec ID	Integer	Int	Yes						

A record in this table represents a favorite report for the corresponding NASIS user.

Table Physical Name: reporttext
Table Label: Report Text

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	rptiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	recdate	Date	Date/Time	Datetime	No						
4	recauthor	Author	String	Varchar	No	25					
5	textkind	Kind	Choice	Smallint	No						text_kind_general
6	textcat	Category	String	Varchar	No	20					
7	textsubcat	Subcategory	String	Varchar	No	20					
8	textentry	Text Entry	Narrative Text	Varchar(max)	No						
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	rpttextiid	Rec ID	Integer	Int	Yes						

The Report Text table contains notes and narrative descriptions for each report script. Text included may be related to edits or changes made to the script. Report text is optional. In many cases, this table is empty.

Table Physical Name: rule
Table Label: Rule

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	seqnum	Seq	Integer	Smallint	No			1			
2	rulename	Rule Name	String	Varchar	Yes	60					
3	ruledesc	Description	Narrative Text	Varchar(max)	No						
4	rule	Rule	Rule	Varchar(max)	Yes						
5	primaryinterp	Primary Interpretation?	Boolean	Bit	Yes						
6	ruledesign	Rule Design	Choice	Smallint	Yes						rule_design
7	notratedphrase	Not Rated Phrase	String	Varchar	Yes	254					
8	dataafuse	Ready to use?	Boolean	Bit	Yes						
9	ruledbiidref	Rule NASIS Site	Integer	Int	Yes						
10	grpiidref	NASIS Group	Integer	Int	Yes						
11	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
12	objuseriidref	Object Last Updated By	Integer	Int	No						
13	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
14	recuseriidref	Record Last Updated By	Integer	Int	No						
15	ruleiid	Rec ID	Integer	Int	Yes						

The rule table lists the rules and the owner of each rule. Rules are part of the criteria used in making interpretations of soil survey data. Rules use one or more evaluations and (optionally) other rules to form an interpretive statement.

Table Physical Name: ruleevalcomp
Table Label: Rule Evaluation Component

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	ruleiidref	Rule	Integer	Int	Yes						
2	evaliidref	Evaluation	Integer	Int	Yes						
3	ruleeciid	Rec ID	Integer	Int	Yes						

The Rule Evaluation Component table lists the evaluations included in the rule shown above in the Rule table. This table is normally not visible.

Table Physical Name: ruleratingclass
Table Label: Rule Rating Class

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	ruleiidref	Lineage	Integer	Int	Yes						
2	ratingclassname	Rating Class Name	String	Varchar	Yes	254					
3	ratingclassupperboundary	Rating Class Upper Boundary	Float	Float	Yes		3				
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	ruleratingclassiid	Rec ID	Integer	Int	Yes						

A record in this table corresponds to a rating class for the corresponding fuzzy logic soil interpretation.

Table Physical Name: rulerulecomp
Table Label: Rule Rule Component

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	ruleiidref	Rule	Integer	Int	Yes						
2	ruleiidref2	Subrule	Integer	Int	Yes						
3	rulerciid	Rec ID	Integer	Int	Yes						

The Rule Rule Component table lists the rules included in the rule shown above in the Rule table. This table is normally not visible.

Table Physical Name: ruletext
Table Label: Rule Text

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	ruleiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	recdate	Date	Date/Time	Datetime	No						
4	recauthor	Author	String	Varchar	No	25					
5	textkind	Kind	Choice	Smallint	No						text_kind_general
6	textcat	Category	String	Varchar	No	20					
7	textsubcat	Subcategory	String	Varchar	No	20					
8	textentry	Text Entry	Narrative Text	Varchar(max)	No						
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	ruletextiid	Rec ID	Integer	Int	Yes						

The Rule Text table contains notes and narrative descriptions for each rule script. Text included may be related to edits or changes made to the script. Rule text is optional. In many cases, this table is empty.

Table Physical Name: site
Table Label: Site

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	usiteid	User Site ID	String	Varchar	Yes	60					
2	stateareaiidref	State FIPS	Integer	Int	No						
3	stateareatypeiidref	State	Integer	Int	Yes						
4	countyareaiidref	County Name	Integer	Int	No						
5	countyareatypeiidref	County	Integer	Int	Yes						
6	mlraareaiidref	MLRA Symbol	Integer	Int	No						
7	mlraareatypeiidref	MLRA	Integer	Int	Yes						
8	rcasiteid	RaCA Site ID	String	Varchar	No	10					
9	rcasoilgroupid	RaCA Soil Group ID	String	Varchar	No	10					
10	dspplotid	DSP Plot ID	String	Varchar	No	10					
11	sampleplotconfiguration	Plot Configuration	Choice	Smallint	No						sample_plot_configuraton
12	plotbaselineazimuth	Plot Baseline Azimuth	Integer	Int	No			0	360	degrees	
13	plotbaselinelength	Plot Baseline Length	Integer	Int	No			1	1000	meters	
14	plotwidth	Plot Width	Integer	Int	No			1	1000	meters	
15	plotradius	Plot Radius	Integer	Int	No			1	1000	meters	
16	plottrianglesidelength	Triangle Plot Side Length	Integer	Int	No			1	100	meters	
17	plotchainmaxwidth	Chain Plot Max. Width	Integer	Int	No			1	1000	meters	
18	plotchainmaxlength	Chain Plot Max. Length	Integer	Int	No			1	1000	meters	
19	plotoffsetazimuth	Plot Offset Azimuth	Integer	Int	No			0	360	degrees	
20	plotoffsetdistance	Plot Offset Distance	Integer	Int	No			1	500	meters	
21	plotcreator	Plot/Site Set Up By	String	Varchar	No	100					
22	recorder	Plot or Site Recorder	String	Varchar	No	60					
23	latdegrees	Lat. Degrees	Integer	Smallint	No			0	90	degrees	
24	latminutes	Lat. Minutes	Integer	Smallint	No			0	60	minutes (lat/long)	
25	latseconds	Lat. Seconds	Float	Real	No		2	0	60	seconds (lat/long)	
26	latdir	Lat. Direction	Choice	Smallint	No						latitude_direction
27	longdegrees	Long. Degrees	Integer	Smallint	No			0	180	degrees	
28	longminutes	Long. Minutes	Integer	Smallint	No			0	60	minutes (lat/long)	
29	longseconds	Long. Seconds	Float	Real	No		2	0	60	seconds (lat/long)	

Table Physical Name: site
Table Label: Site

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
30	longdir	Long. Direction	Choice	Smallint	No						longitude_direction
31	horizdatnm	Datum Name	Choice	Smallint	No						horizontal_datum_name
32	locdesc	Location Description	Narrative Text	Varchar(max)	No						
33	plsssdetails	PLSS Section Details	String	Varchar	No	254					
34	plsssection	PLSS Section	Integer	Smallint	No			1	60		
35	plsstownship	PLSS Township	String	Char	No	10					
36	plssrange	PLSS Range	String	Char	No	10					
37	plssmeridian	PLSS Meridian	Choice	Smallint	No						plss_meridian
38	utmzone	UTM Zone	Integer	Smallint	No			1	60		
39	utmnorthing	UTM Northing	Float	Float	No		2	0	10000000	meters	
40	utmeasting	UTM Easting	Float	Float	No		2	0	1000000	meters	
41	latstddecimaldegrees	Std Latitude	Float	Float	No		7	-90	90	degrees	
42	longstddecimaldegrees	Std Longitude	Float	Float	No		7	-180	180	degrees	
43	geocoordsource	Coordinate Source	Choice	Smallint	No						geographic_coord_source
44	elev	Elevation	Float	Real	No		1	-300	8550	meters	
45	geomposhill	Geomorphic Component - Hills	Choice	Smallint	No						geomor_pos_hill
46	geomposmntn	Geomorphic Component - Mountains	Choice	Smallint	No						geomor_pos_mountain
47	geompostrce	Geomorphic Component - Terraces	Choice	Smallint	No						geomor_pos_terrace
48	geomposflats	Geomorphic Component - Flats	Choice	Smallint	No						geomor_pos_flat
49	hillslopeprof	Hillslope Profile	Choice	Smallint	No						hillslope_profile
50	geomslopeseg	Slope Position	Choice	Smallint	No						slope_segment
51	slope	Slope Gradient	Float	Real	No		1	0	999	percent	
52	aspect	Aspect	Integer	Smallint	No			0	360	degrees	
53	slopelenusle	Slope Length USLE	Integer	Smallint	No			0	4000	meters	
54	slopelenuptro	Upslope Length	Float	Real	No		1	0	99999	meters	
55	shapeacross	Slope Shape Across	Choice	Smallint	No						slope_shape
56	shapedown	Slope Shape Up/Down	Choice	Smallint	No						slope_shape
57	slopecomplex	Slope Complexity	Choice	Smallint	No						slope_complexity
58	locphysnm	Local Physiographic Name	String	Varchar	No	50					
59	drainagecl	Drainage Class	Choice	Smallint	No						drainage_class

Table Physical Name: site
Table Label: Site

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
60	siteksatclassupper	Ksat Class Upper	Choice	Smallint	No						sat_hyd_conductivity_class
61	siteksatclasslower	Ksat Class Lower	Choice	Smallint	No						sat_hyd_conductivity_class
62	siteperm	Site Permeability - obsolete	Choice	Smallint	No						permeability_class
63	runoff	Local Runoff Class	Choice	Smallint	No						runoff
64	drainagepattern	Drainage Pattern	Choice	Smallint	No						drainage_pattern
65	pmgroupname	Parent Material Group Name	String	Varchar	No	252					
66	pmgroupname_s	S	Integer	Smallint	No						
67	climstaid	Climate Station ID	String	Varchar	No	8					
68	climstanm	Climate Station Name	String	Varchar	No	50					
69	climstatype	Climate Station Type	String	Varchar	No	15					
70	ffd	Frost Free Days	Integer	Smallint	No			0	365	days	
71	map	MAP	Integer	Smallint	No			0	11500	mm	
72	reannualprecip	REAP	Integer	Smallint	No			0	11500	mm	
73	airtempa	MAAT	Float	Real	No		1	-50	50	degrees c	
74	soiltempa	MAST	Float	Real	No		1	-40	50	degrees c	
75	airtemps	MSAT	Float	Real	No		1	-50	50	degrees c	
76	soiltemps	MSST	Float	Real	No		1	-40	50	degrees c	
77	airtempw	MWAT	Float	Real	No		1	-50	50	degrees c	
78	soiltempw	MWST	Float	Real	No		1	-40	50	degrees c	
79	benchmarksoilflag	Benchmark Soil?	Boolean	Bit	Yes						
80	flodfreqcl	Flooding Frequency	Choice	Smallint	No						flooding_frequency_class
81	floddurcl	Flooding Duration	Choice	Smallint	No						flooding_duration_class
82	flodmonthbeg	Flooding Month	Choice	Smallint	No						flooding_ponding_month
83	pondfreqcl	Ponding Frequency	Choice	Smallint	No						ponding_frequency_class
84	ponddurcl	Ponding Duration	Choice	Smallint	No						ponding_duration_class
85	pondmonthbeg	Ponding Month	Choice	Smallint	No						flooding_ponding_month
86	wtabledur	Wet Soil Moisture Duration	Integer	Smallint	No			0	365	days	
87	gpspositionalerror	GPS - Positional Error	Float	Real	No		2	0	999.99	meters	
88	gpspdop	GPS - PDOP	Integer	Int	No			0	50		
89	elevcorrected	Corrected Elevation	Float	Real	No		1	-300	8550	meters	
90	cowardinwetlandsystem	Cowardin Wetland System	Choice	Smallint	No						cowardin_wetland_system

Table Physical Name: site
Table Label: Site

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
91	cowardinwetlandsubsystem	Cowardin Wetland Subsystem	Choice	Smallint	No						cowardin_wetland_subsystem
92	cowardinwetlandclass	Cowardin Wetland Class	Choice	Smallint	No						cowardin_wetland_class
93	cowardinwetlandsubclass	Cowardin Wetland Subclass	Choice	Smallint	No						cowardin_wetland_subclass
94	hgmclass	HGM Class	Choice	Smallint	No						hgm_class
95	hgmsubclass	HGM Subclass	String	Varchar	No	100					
96	hgmmodifier	HGM Modifier	String	Varchar	No	100					
97	legacyecositeid	Legacy Ecol. Site ID	String	Varchar	No	10					
98	legacyecositename	Legacy Ecol. Site Name	String	Varchar	No	25					
99	meanfrostfreeprecip	MFFP	Integer	Int	No			0	11500	mm	
100	peindex	PE Index	Integer	Int	No			1	400		
101	plotestablishedyear	Plot Estab. Year	Integer	Int	No			1900	3000		
102	plotnum	Plot #	Integer	Int	No			1	999		
103	sdbiidref	Site NASIS Site	Integer	Int	Yes						
104	grpiidref	NASIS Group	Integer	Int	Yes						
105	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
106	objuseriidref	Object Last Updated By	Integer	Int	No						
107	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
108	recuseriidref	Record Last Updated By	Integer	Int	No						
109	siteiid	Rec ID	Integer	Int	Yes						

The Site table describes the locational information and characteristics of a particular geographic location. A site may be a specific location such as a point where a soil profile description is taken, or it may have some spatial area that is chosen to be treated as a single point. Various kinds of data such as soil profile descriptions, lab data, vegetative data, etc. may be linked to a site in this database.

Table Physical Name: siteaoverlap
Table Label: Site Area Overlap

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	siteiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	areaiidref	Area	Integer	Int	Yes						
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	sareaoviid	Rec ID	Integer	Int	Yes						

The Site Area Overlap table records the names and symbols of geographic areas that a particular site occurs in, i.e. state, county, MLRA, etc.

Table Physical Name: siteassoc
Table Label: Site Association

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	usiteassocid	User Site Association ID	String	Varchar	Yes	60					
2	sadbiidref	Site Association NASIS Site	Integer	Int	Yes						
3	grpiidref	NASIS Group	Integer	Int	Yes						
4	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
5	objuseriidref	Object Last Updated By	Integer	Int	No						
6	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
7	recuseriidref	Record Last Updated By	Integer	Int	No						
8	siteassociid	Rec ID	Integer	Int	Yes						

The Site Association table is used to record some natural or artificial grouping of sites. Various types of groupings may be recorded as needed by the user. Examples might include sites that are included in a special soil temperature or soil moisture study.

Transects are now recorded in the "transect" table.

Table Physical Name: siteassocsite
Table Label: Site Association Site

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	siteassociidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	siteiidref	Associated Site	Integer	Int	Yes						
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	siteasiteiid	Rec ID	Integer	Int	Yes						

This table records the identifier of a site that is a member of a particular site association. A site association may contain any number of sites, and a site may be a member of more than one site association.

Table Physical Name: siteassocsoi
Table Label: Site Associated Soils

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	siteiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	assocsoi	Associated Soil	String	Varchar	No	60					
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	siteassocsoiiid	Rec ID	Integer	Int	Yes						

The Site Associated Soils table lists those soils that occur in the same or adjacent landscape segments as the site being described.

Table Physical Name: siteassoctext
Table Label: Site Association Text

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	siteassociidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	recdate	Date	Date/Time	Datetime	No						
4	recauthor	Author	String	Varchar	No	25					
5	siteassoctextkind	Kind	Choice	Smallint	No						site_association_text_kind
6	textcat	Category	String	Varchar	No	20					
7	textsubcat	Subcategory	String	Varchar	No	20					
8	textentry	Text Entry	Narrative Text	Varchar(max)	No						
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	siteatextiid	Rec ID	Integer	Int	Yes						

The Site Association Text table records notes and other narrative descriptions that help to describe a particular site association.

Table Physical Name: sitebedrock
Table Label: Site Bedrock

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	siteiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	bedrockorder	Vertical Order	Integer	Int	No			1			
4	geogroup	Geologic Group	String	Varchar	No	60					
5	geoform	Geologic Formation	String	Varchar	No	60					
6	geomember	Geologic Member	String	Varchar	No	60					
7	bedrckdepth	Bedrock Depth	Integer	Int	No			0	9999	cm	
8	bedrckkind	Bedrock Kind	Choice	Smallint	No						bedrock_kind
9	bedrckhardness	Bedrock Hardness	Choice	Smallint	No						rupture_resist_block_cem
10	bedrckfractint	Bedrock Fracture Interval	Choice	Smallint	No						bedrock_fracture_interval_class
11	bedrckweather	Bedrock Weathering	Choice	Smallint	No						weathering
12	bedrckstrike	Bedrock Strike	Integer	Int	No			0	360	degrees	
13	bedrckdip_l	Low	Integer	Int	No			0	90	degrees	
14	bedrckdip_h	High	Integer	Int	No			0	90	degrees	
15	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
16	recuseriidref	Record Last Updated By	Integer	Int	No						
17	sitebedrockiid	Rec ID	Integer	Int	Yes						

This table records the kind(s) of bedrock layers observed at the site. Multiple layers of bedrock can be described.

Table Physical Name: siteecositehistory
Table Label: Site Ecological Site History

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	siteiidref	Lineage	Integer	Int	Yes						
2	ecositecorrdate	Correlation Date	Date/Time	Datetime	No						
3	ecositeiidref	Ecological Site	Integer	Int	Yes						
4	classifier	Classifier	String	Varchar	No	60					
5	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
6	recuseriidref	Record Last Updated By	Integer	Int	No						
7	siteecositehistoryiid	Rec ID	Integer	Int	Yes						

This table records the history of ecological site correlation with this Site table record.

Table Physical Name: siteerosionacc
Table Label: Site Erosion Accelerated

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	siteobsiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	erokind	Kind	Choice	Smallint	No						erosion_accelerated_kind
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	siteeroacciid	Rec ID	Integer	Int	Yes						

The Site Erosion Accelerated table lists the kinds of accelerated erosion that occur on this site.

Table Physical Name: sitegeomordesc
Table Label: Site Geomorphic Description

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	siteiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	geomfiidref	Geomorphic Feature	Integer	Int	Yes						
4	geomfmod	Feature Modifier	String	Varchar	No	60					
5	geomfeatid	Feature ID	Integer	Smallint	No						
6	existsonfeat	Exists on Feature ID	Integer	Smallint	No						
7	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
8	recuseriidref	Record Last Updated By	Integer	Int	No						
9	sitegeomdiid	Rec ID	Integer	Int	Yes						

The Site Geomorphic Description table lists the geomorphic features found at this site.

Table Physical Name: siteiristubedata
Table Label: Site IRIS Tube Data

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	siteobsiidref	Lineage	Integer	Int	Yes						
2	iristubeid	Tube ID	Integer	Int	Yes						
3	topdepthevaluated	Top Depth Evaluated	Float	Real	Yes		1	0	200	cm	
4	bottomdepthevaluated	Bottom Depth Evaluated	Float	Real	Yes		1	0	200	cm	
5	dateinstalled	Date Installed	Date/Time	Datetime	No						
6	dateremoved	Date Removed	Date/Time	Datetime	No						
7	ironpctremoved	Iron % Removed	Integer	Smallint	No			0	100	percent	
8	reducedsoilflag	Soil Reduced ?	Boolean	Bit	Yes						
9	irisimagefilename	Scan Image File Name	File Reference	Varchar	No	260					
10	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
11	recuseriidref	Record Last Updated By	Integer	Int	No						
12	siteiristubedataiid	Rec ID	Integer	Int	Yes						

This table records data from iris tubes installed at a particular site location.

Table Physical Name: siteiristubeimage
Table Label: Site IRIS Tube Image

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	siteiristubedataiidref	Lineage	Integer	Int	Yes						
2	iristubeimagescan	Image Scan	Binary	Binary	Yes						
3	siteiristubeimageiid	Rec ID	Integer	Int	Yes						

This table records the actual image scan file(s) of IRIS tubes.

Table Physical Name: sitemuoverlap
Table Label: Site Mapunit Overlap

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	siteiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	lmapunitiidref	Legend Mapunit	Integer	Int	Yes						
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	smuoviid	Rec ID	Integer	Int	Yes						

This table is intended to record the coincidence of individually described sites with a particular mapunit in a particular legend.

Table Physical Name: siteobs
Table Label: Site Observation

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	siteiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	obsdate	Observation Date	Date/Time	Datetime	Yes						
4	obsdatekind	Observation Date Kind	Choice	Smallint	No						observation_date_kind
5	datacollector	Data Collector	String	Varchar	No	60					
6	projectiidref	Associated User Project ID	Integer	Int	No						
7	photoid	Air Photo ID	String	Varchar	No	9					
8	swaterkind	Surface Water Kind	Choice	Smallint	No						surface_water_kind
9	swaterdepth	Surface Water Depth	Integer	Smallint	No			1	1000	cm	
10	hydrologystatus	Hydrology Status	Choice	Smallint	No						hydrology_status
11	geomicrorelief	Microrelief Kind	Choice	Smallint	No						microrelief_kind
12	geommicelev	Microrelief Elevation	Integer	Smallint	No			0	999	cm	
13	geommicpat	Microrelief Pattern (obsolete)	Choice	Smallint	No						geomorph_microrelief_pattern
14	ecostateid	Ecol. State ID	Integer	Int	No			1	20		
15	ecostatename	Ecol. State Name	String	Varchar	No	100					
16	commphaseid	Comm. Phase ID	Integer	Int	No			1	20		
17	commphasename	Comm. Phase Name	String	Varchar	No	100					
18	plantassocnm	Plant Association Name	String	Varchar	No	40					
19	earthcovkind1	Cover Kind 1	Choice	Smallint	No						earth_cover_kind_level_one
20	earthcovkind2	Cover Kind 2	Choice	Smallint	No						earth_cover_kind_level_two
21	resourceretentionclass	Res. Retention Class	Choice	Smallint	No						resource_retention_class
22	bareareamaxwidth	Bare Area Max. Width	Integer	Int	No			0	5000	cm	
23	pedodermclass	Pedoderm Class	Choice	Smallint	No						pedoderm_class
24	pedodermcovind	Pedoderm Loose Cover Indicator	Boolean	Bit	Yes						
25	biolcrusttypedom	Biol. Crust Type Dominant	Choice	Smallint	No						biological_crust_type
26	biolcrusttypesecond	Biol. Crust Type Secondary	Choice	Smallint	No						biological_crust_type
27	physcrustsubtype	Phys Crust Subtype	Choice	Smallint	No						physical_crust_subtype
28	crustdevcl	Crust Dev Class	Choice	Smallint	No						crust_development_class
29	soilredistributionclass	Soil Redistribution Class	Choice	Smallint	No						soil_redistribution_class
30	exposedsoilpct	Exposed Soil Percent	Integer	Smallint	No			0	100	percent	
31	localdisturbancedistance	Local Disturb. Distance	Integer	Int	No			1		meters	

Table Physical Name: siteobs
Table Label: Site Observation

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
32	localdisturbancedescription	Local Disturb. Description	String	Varchar	No	50					
33	drainedflag	Drained?	Boolean	Bit	Yes						
34	beddingflag	Bedded Soil?	Boolean	Bit	Yes						
35	plantationflag	Forest Plantation?	Boolean	Bit	Yes						
36	forestrotationstage	Forest Rotation Stage	Choice	Smallint	No						forest_rotation_stage
37	yldstudyid	Yield Study ID	String	Varchar	No	10					
38	currweathcond	Current Weather	Choice	Smallint	No						weather_conditions
39	currairtemp	Current Air Temp	Integer	Int	No			-50	55	degrees c	
40	tidalperiod	Tidal Period	Choice	Smallint	No						tidal_period
41	bottomtype	Bottom Type	Choice	Smallint	No						bottom_type
42	saswatertempupper	Water Temp - Upper	Integer	Int	No			-10	50	degrees c	
43	saswatertemplower	Water Temp - Lower	Integer	Int	No			-10	50	degrees c	
44	saswaterphupper	Water pH - Upper	Float	Real	No		1	1	13		
45	saswaterphlower	Water pH - Lower	Float	Real	No		1	1	13		
46	phdetermeth	Water pH Method	Choice	Smallint	No						ph_determination_method
47	sasdissolvedoxyupper	Dissolved Oxygen - Upper	Float	Real	No		1			mg/l	
48	sasdissolvedoxylower	Dissolved Oxygen - Lower	Float	Real	No		1			mg/l	
49	saswatersalinityupper	Water Salinity - Upper	Float	Real	No		1			ppt	
50	saswatersalinitylower	Water Salinity - Lower	Float	Real	No		1			ppt	
51	currentseasonprecip	Current Season Precip.	Integer	Int	No			0	11500	mm	
52	currentyearprecip	Current Year Precip.	Choice	Smallint	No						current_year_precip
53	extramoisturesource	Extra Moisture Source	Choice	Smallint	No						extra_moisture_source
54	growingseasonrating	Growing Season Rating	Choice	Smallint	No						growing_season_rating
55	landkind	Kind of Land	Choice	Smallint	No						land_kind
56	safcovertype	SAF Cover Type	Choice	Smallint	No						saf_cover_type
57	stmversionid	STM Version ID	String	Varchar	No	5					
58	rosgenstreamtype	Rosgen Stream Type	Choice	Smallint	No						rosgen_stream_type
59	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
60	recuseriidref	Record Last Updated By	Integer	Int	No						
61	siteobsiid	Rec ID	Integer	Int	Yes						

NASIS 7.1.4
Tables and Columns

Table Physical Name: siteobs
Table Label: Site Observation

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name

The Site Observation table records the date that the various observation or analytical data is collected for the specific site or location. Soil or site properties that may change with time are also recorded here. If a site is revisited at a later date for additional data collection, a new row with the appropriate date is entered in this table. Separate tables exist for properties that may have multiple entries.

Table Physical Name: siteobstext
Table Label: Site Observation Text

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	siteobsiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	recdate	Date	Date/Time	Datetime	No						
4	recauthor	Author	String	Varchar	No	25					
5	siteobstextkind	Kind	Choice	Smallint	No						site_observation_text_kind
6	textcat	Category	String	Varchar	No	20					
7	textsubcat	Subcategory	String	Varchar	No	20					
8	textentry	Text Entry	Narrative Text	Varchar(max)	No						
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	siteobstextiid	Rec ID	Integer	Int	Yes						

The Site Observation Text table contains notes and narrative descriptions that apply to the whole site at the time of observation. Site Observation text is typically used to document additional features observed for a site, but no data elements exist for these features. An entry is optional. In many cases, the table is empty.

Table Physical Name: siteothvegclass
Table Label: Site Other Vegetative Classification

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	siteiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	ovegcliidref	Other Veg Class	Integer	Int	Yes						
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	siteovegcliid	Rec ID	Integer	Int	Yes						

The Site Other Vegetative Classification table records vegetative classifications associated with a particular site, other than the NRCS concept of an ecological site. The NRCS ecological site(s) associated with a particular component is recorded in the Site table.

The primary reason for the existence of the Site Other Vegetative Classification table is the need to record the U.S. Forest Service concept of ecological site or habitat type.

Table Physical Name: sitepm
Table Label: Site Parent Material

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	siteiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	pmorder	Vertical Order	Integer	Smallint	No			1			
4	pmdept	Top Depth	Integer	Smallint	No			0	9999	cm	
5	pmdepb	Bottom Depth	Integer	Smallint	No			0	9999	cm	
6	pmmodifier	Textural Modifier	Choice	Smallint	No						parent_material_modifier
7	pmgenmod	General Modifier	String	Varchar	No	60					
8	pmkind	Kind	Choice	Smallint	No						parent_material_kind
9	pmorigin	Origin	Choice	Smallint	No						parent_material_origin
10	pmweathering	Weathering (Obsolete)	Choice	Smallint	No						weathering
11	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
12	recuseriidref	Record Last Updated By	Integer	Int	No						
13	sitepmiid	Rec ID	Integer	Int	Yes						

The Site Parent Material table lists the individual parent materials, and their vertical sequence, from which the soil at this site developed. The Parent Material Group Name is shown above in the Site table.

Table Physical Name: sitesoilmoist
Table Label: Site Soil Moisture

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	siteobsiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	soimoistdept	Top Depth	Integer	Smallint	No			0	9999	cm	
4	soimoistdepb	Bottom Depth	Integer	Smallint	No			0	9999	cm	
5	soilmoistsensordepth	Sensor Depth	Float	Real	No		1	0		cm	
6	soilmoistsensorkind	Sensor Kind	Choice	Smallint	No						soil_moisture_sensor_kind
7	obssoimoiststat	Observed Moisture State	Choice	Smallint	No						observed_soil_moisture_status
8	obssoimoist	Vol Moisture %	Integer	Smallint	No			0	100	percent	
9	obsgrsoimoist	Grav. Soil Moist % Whole Soil	Integer	Smallint	No			0		percent	
10	soimoistten	Moisture Tension	Float	Real	No		3	0	25	bars	
11	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
12	recuseriidref	Record Last Updated By	Integer	Int	No						
13	sitesmiid	Rec ID	Integer	Int	Yes						

The Site Soil Moisture table describes the soil moisture profile at this site at the time of observation. A soil moisture profile may be recorded at different dates, i.e. record the results of a watertable study, by entering a new row and date in the Site Observation table and then entering the moisture data in this table.

Table Physical Name: sitesoiltemp
Table Label: Site Soil Temperature

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	siteobsiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	soitempdep	Depth	Integer	Smallint	No			0	9999	cm	
4	soiltempsensorkind	Sensor Kind	Choice	Smallint	No						soil_temperature_sensor_kind
5	soitemp	Temperature	Float	Real	No		2	-40	50	degrees c	
6	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
7	recuseriidref	Record Last Updated By	Integer	Int	No						
8	sitestiid	Rec ID	Integer	Int	Yes						

The Site Soil Temperature table is used to record observed soil temperatures at various depths at the time of observation. Temperatures may be recorded at different dates, i.e. record the results of soil temperature studies over time, by entering a new row and date in the Site Observation table then entering the temperature data in this table.

Table Physical Name: sitesurffrags
Table Label: Site Surface Fragments

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	siteobsiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	sfragcov	Cover %	Float	Real	No		2	0	100	percent	
4	distrocks	Spacing	Float	Real	No		2	0	50	meters	
5	sfragsize_l	Low	Integer	Smallint	No			2		mm	
6	sfragsize_r	RV	Integer	Smallint	No			2		mm	
7	sfragsize_h	High	Integer	Smallint	No			2		mm	
8	sfragkind	Kind	Choice	Smallint	No						fragment_kind
9	sfragshp	Shape	Choice	Smallint	No						fragment_shape
10	sfraground	Roundness	Choice	Smallint	No						fragment_roundness
11	sfraghard	Hardness	Choice	Smallint	No						rupture_resist_block_cem
12	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
13	recuseriidref	Record Last Updated By	Integer	Int	No						
14	sitesurffragsiid	Rec ID	Integer	Int	Yes						

The Site Surface Fragments table lists the organic or mineral fragments on the surface of the soil at the time of observation. A separate row is entered for each size and lithology found.

Table Physical Name: sitetext
Table Label: Site Text

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	siteiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	recdate	Date	Date/Time	Datetime	No						
4	recauthor	Author	String	Varchar	No	25					
5	sitetextkind	Kind	Choice	Smallint	No						site_text_kind
6	textcat	Category	String	Varchar	No	20					
7	textsubcat	Subcategory	String	Varchar	No	20					
8	textentry	Text Entry	Narrative Text	Varchar(max)	No						
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	sitetextiid	Rec ID	Integer	Int	Yes						

The Site Text table contains notes and narrative descriptions that apply to the whole site. Site text is typically used to document additional features observed for a site, but no data elements exist for these features. An entry is optional. In many cases, the table is empty. These features or notes should not change with time. If they are time dependent, the entry should be made in the Site Observation Text table.

Table Physical Name: sitetreescounted
Table Label: Site Trees Counted

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	sitewoodybasalareaiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	treediameterbreastheight	Diameter Breast Height	Float	Real	Yes		1	1	360	inches	
4	treeheight	Tree Height	Float	Real	Yes		1	1	500	feet	
5	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
6	recuseriidref	Record Last Updated By	Integer	Int	No						
7	treescountediid	Rec ID	Integer	Int	Yes						

This table records the woody basal area observations for a particular site/plot.

Table Physical Name: siteusgsquadrangleoverlap
Table Label: Site USGS Quadrangle Overlap

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	siteiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	usgsquadrangleiidref	USGS Quadrangle	Integer	Int	Yes						
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	siteusgsquadoviid	Rec ID	Integer	Int	Yes						

This table records the overlap of geographic location of this site record with USGS Topographic Quadrangles.

Table Physical Name: sitewoodybasalarea
Table Label: Site Woody Basal Area

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	vegplotiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	basalareafactor	Basal Area Factor	Choice	Smallint	Yes						basal_area_factor
4	numberoftreesin	Number of Trees In	Integer	Int	Yes			0			
5	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
6	recuseriidref	Record Last Updated By	Integer	Int	No						
7	sitewoodybasalareaiid	Rec ID	Integer	Int	Yes						

This table records the woody basal area observations for a particular site/plot.

Table Physical Name: soilmoistmonitordata
Table Label: Soil Moisture Monitor Data

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	soilmonitordataiidref	Lineage	Integer	Int	Yes						
2	sensorid	Sensor ID	Integer	Int	Yes			1			
3	soilmoistsensordepth	Sensor Depth	Float	Real	Yes		1	0		cm	
4	soilmoistsensorkind	Sensor Kind	Choice	Smallint	No						soil_moisture_sensor_kind
5	soilmoistvoldailymin	Min Soil Moisture - Vol	Float	Real	No		2	0	100	percent	
6	soilmoistvoldailyave	Ave Soil Moisture - Vol	Float	Real	No		2	0	100	percent	
7	soilmoistvoldailymax	Max Soil Moisture - Max	Float	Real	No		2	0	100	percent	
8	notes	Notes	Narrative Text	Varchar(max)	No						
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	soilmoistmonitordataiid	Rec ID	Integer	Int	Yes						

This table records daily soil moisture values from the sensors at a site on a given date.

Table Physical Name: soilmonitordata
Table Label: Soil Monitor Data

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	peiidref	Lineage	Integer	Int	Yes						
2	stationid	Station ID	String	Varchar	Yes	30					
3	obsdate	Observation Date	Date/Time	Datetime	Yes						
4	dailyprecipmeasured	Daily Precipitation	Float	Real	No		2	0		cm	
5	airtempmin	Min Air Temp	Float	Real	No		2	-50	50	degrees c	
6	airtempave	Ave Air Temp	Float	Real	No		2	-50	50	degrees c	
7	airtempmax	Max Air Temp	Float	Real	No		2	-50	50	degrees c	
8	airtempsensorheight	Temp Sensor Height	Integer	Int	No			1		cm	
9	notes	Notes	Narrative Text	Varchar(max)	No						
10	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
11	recuseriidref	Record Last Updated By	Integer	Int	No						
12	soilmonitordataiid	Rec ID	Integer	Int	Yes						

This table records data related to soil temperature and moisture monitoring projects.

Table Physical Name: soilseries
Table Label: Soil Series

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	soilseriesname	Soil Series Name	String	Varchar	Yes	25					
2	soiltaxclasslastupdated	Soil Taxonomic Classification Last Updated?	Date/Time	Datetime	No						
3	mlraoffice	MLRA Office	Choice	Smallint	No						mlra_office
4	typelocstareaiidref	Type Location State	Integer	Int	No						
5	typelocstareatypeiidref	Type Location State Area Type	Integer	Int	Yes						
6	soilseriesstatus	Status	Choice	Smallint	No						series_status
7	taxclname	Taxonomic Class	String	Varchar	No	120					
8	taxorder	Order	Choice	Smallint	No						taxonomic_order
9	taxsuborder	Suborder	Choice	Smallint	No						taxonomic_suborder
10	taxgrtgroup	Great Group	Choice	Smallint	No						taxonomic_great_group
11	taxsubgrp	Subgroup	Choice	Smallint	No						taxonomic_subgroup
12	taxpartsize	Particle Size	Choice	Smallint	No						taxonomic_family_particle_size
13	taxpartsizemod	Particle Size Mod	Choice	Smallint	No						taxonomic_family_part_size_mod
14	taxceactcl	CEC Activity Cl	Choice	Smallint	No						taxonomic_family_c_e_act_class
15	taxreaction	Reaction	Choice	Smallint	No						taxonomic_family_reaction
16	taxtempcl	Temp Class	Choice	Smallint	No						taxonomic_family_temp_class
17	taxfamhahatmatcl	HAHT Material Class	Choice	Smallint	No						taxonomic_family_haht_mat_class
18	originyear	Origin Year	Integer	Smallint	No						
19	establishedyear	Established Year	Integer	Smallint	No						
20	descriptiondateinitial	Description Date Initial	Date/Time	Datetime	No						
21	descriptiondateupdated	Description Date Last Updated	Date/Time	Datetime	No						
22	benchmarksoilflag	Benchmark Soil?	Boolean	Bit	Yes						
23	statsgoflag	STATSGO?	Boolean	Bit	Yes						
24	soilseriesedithistory	Soil Series Edit History	Narrative Text	Varchar(max)	No						
25	soilseriesdbiidref	Soil Series NASIS Site	Integer	Int	Yes						
26	grpiidref	NASIS Group	Integer	Int	Yes						
27	objwlupdated	Object Last Updated	Date/Time	Datetime	No						

Table Physical Name: soilseries
Table Label: Soil Series

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
28	objuseriidref	Object Last Updated By	Integer	Int	No						
29	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
30	recuseriidref	Record Last Updated By	Integer	Int	No						
31	soilseriesiid	Rec ID	Integer	Int	Yes						

This table contains a complete listing of Official Soil Series, their taxonomic classification, status, ownership and related information.

Table Physical Name: soilseriesmlrasusing
Table Label: Soil Series MLRAs Using

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	soilseriesiidref	Lineage	Integer	Int	Yes						
2	mlraareaiidref	MLRA	Integer	Int	Yes						
3	mlraareatypeiidref	MLRA Area Type	Integer	Int	Yes						
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	soilseriesmlrasusingiid	Rec ID	Integer	Int	Yes						

This table records a listing of the MLRA(s) where a particular OSD is correlated.

Table Physical Name: soilseriesstatesusing
Table Label: Soil Series States Using

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	soilseriesiidref	Lineage	Integer	Int	Yes						
2	stateareaiidref	State	Integer	Int	Yes						
3	stateareatypeiidref	State Area Type	Integer	Int	Yes						
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	soilseriesstatesusingiid	Rec ID	Integer	Int	Yes						

This table records a listing of the state(s) where a particular OSD is correlated.

Table Physical Name: soilseriestaxfamother
Table Label: Soil Series Taxonomic Family Other

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	soilseriesiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	taxfamother	Family Other	Choice	Smallint	Yes						taxonomic_family_other
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	soilseriestaxfamothiid	Rec ID	Integer	Int	Yes						

This table lists the other taxonomic characteristics, such as classes of coatings or permanent cracks, that apply to this soil series.

Table Physical Name: soilseriestaxmineralogy
Table Label: Soil Series Taxonomic Mineralogy

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	soilseriesiidref	Lineage	Integer	Int	Yes						
2	minorder	Vertical Order	Integer	Smallint	Yes			1			
3	taxminalogy	Mineralogy	Choice	Smallint	Yes						taxonomic_family_mineralogy
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	soilseriestaxminiid	Rec ID	Integer	Int	Yes						

This table lists the mineralogy characteristics that apply to this soil series.

Table Physical Name: soiltempmonitordata
Table Label: Soil Temperature Monitor Data

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	soilmonitordataiidref	Lineage	Integer	Int	Yes						
2	sensorid	Sensor ID	Integer	Int	Yes			1			
3	soiltempsensordepth	Sensor Depth	Float	Real	Yes		1	0		cm	
4	soiltempsensorkind	Sensor Kind	Choice	Smallint	No						soil_temperature_sensor_kind
5	soiltempdailymin	Min Soil Temp	Float	Real	No		2	-40	50	degrees c	
6	soiltempdailyave	Ave Soil Temp	Float	Real	No		2	-40	50	degrees c	
7	soiltempdailymax	Max Soil Temp	Float	Real	No		2	-40	50	degrees c	
8	notes	Notes	Narrative Text	Varchar(max)	No						
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	soiltempmonitordataiid	Rec ID	Integer	Int	Yes						

This table records daily soil temperature values from the sensors at a site on a given date.

Table Physical Name: subplotplantdetails
Table Label: Subplot Plant Details

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	plotplantinventoryiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	subplotnumber	Subplot #	Integer	Int	Yes			1			
4	subplotsize	Subplot Size	Float	Real	Yes		1	0.1		m2	
5	stemcount	# of Stems	Integer	Int	Yes			1			
6	stemdiameteraverage	Average Stem Diameter	Float	Real	Yes		1	0.1		inches	
7	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
8	recuseriidref	Record Last Updated By	Integer	Int	No						
9	subplotplantdetailsiid	Rec ID	Integer	Int	Yes						

This table contains data pertaining to individual plant species collected from individual subplots of a vegetation inventory plot.

NASIS 7.1.4
Tables and Columns

Table Physical Name: system
Table Label: System

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	sysnm	System Name	String	Varchar	Yes	128					
2	sysver	System Version	String	Varchar	Yes	30					
3	sysdesc	Description	Narrative Text	Varchar(max)	No						
4	syscreatedate	Creation Date	Date/Time	Datetime	No						
5	notes	Notes	Narrative Text	Varchar(max)	No						
6	sysdbiidref	System NASIS Site	Integer	Int	Yes						
7	grpiidref	NASIS Group	Integer	Int	Yes						
8	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
9	objuseriidref	Object Last Updated By	Integer	Int	No						
10	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
11	recuseriidref	Record Last Updated By	Integer	Int	No						
12	sysiid	Rec ID	Integer	Int	Yes						

In general, a record in this table corresponds to a particular version of a particular database. It is used as a parent record for all of the objects associated with a database, attributes, tables and domains.

Table Physical Name: systemtable
Table Label: System Table

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	tablecollectiidref	Lineage	Integer	Int	Yes						
2	sysiidref	System	Integer	Int	Yes						
3	tablognm	Logical Name	String	Varchar	Yes	30					
4	tabphynm	Table Physical Name	String	Varchar	Yes	33					
5	tablab	Table Label	String	Varchar	Yes	80					
6	tabhelptext	Help Text	Narrative Text	Varchar(max)	No						
7	soilentitytype	Soil Entity Type	Choice	Smallint	No						soil_entity_type
8	importexportfilename	Import Export File Name	String	Varchar	Yes	30					
9	tabvisible	Visible?	Boolean	Bit	Yes						
10	tabselectable	Selectable?	Boolean	Bit	Yes						
11	tabeditable	Editable?	Boolean	Bit	Yes						
12	tabnoinsertordelete	No Insert?	Boolean	Bit	Yes						
13	tabroottable	Root Table?	Boolean	Bit	Yes						
14	tabtemp	Temp Table?	Boolean	Bit	Yes						
15	tabaliased	Aliased?	Boolean	Bit	Yes						
16	tabstatic	Static Table?	Boolean	Bit	Yes						
17	tabclientonly	Client Only?	Boolean	Bit	Yes						
18	tabserveronly	Server Only?	Boolean	Bit	Yes						
19	tabcreateasview	Create As View?	Boolean	Bit	Yes						
20	tabssaliasreq	Staging Alias Required?	Boolean	Bit	Yes						
21	tabsscounterpartreq	Staging Counterpart Required?	Boolean	Bit	Yes						
22	tabpedpctonasis	Pedon PC to NASIS?	Boolean	Bit	Yes						
23	ipdiagmsgsqlstmt	Import Pedon Diagnostic Message SQL Statement	Narrative Text	Varchar(max)	No						
24	daglevel	DAG Level	Integer	Int	No						
25	tableid	Table ID	Integer	Int	No						
26	tabdesc	Description	Narrative Text	Varchar(max)	No						
27	orgper	Originating Person	String	Varchar	No	60					
28	conper	Contact Person	String	Varchar	No	60					
29	pendact	Pending Action	Choice	Smallint	No						pending_action
30	pendstat	Pending Status	Choice	Smallint	No						pending_status

NASIS 7.1.4
Tables and Columns

Table Physical Name: systemtable
Table Label: System Table

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
31	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
32	recuseriidref	Record Last Updated By	Integer	Int	No						
33	systabiid	Rec ID	Integer	Int	Yes						

This table records and characterizes the physical tables in a particular database.

Table Physical Name: systemtablehist
Table Label: System Table History

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	systabiidref	Lineage	Integer	Int	Yes						
2	notedate	Date	Date/Time	Datetime	No						
3	notes	Notes	Narrative Text	Varchar(max)	No						
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	tabnoteiid	Rec ID	Integer	Int	Yes						

This table records notes about issues with and changes to a particular physical table.

Table Physical Name: tablecollection
Table Label: Table Collection

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	sysiidref	Lineage	Integer	Int	Yes						
2	tablecollectname	Table Collection Name	String	Varchar	Yes	30					
3	tablecollectsequence	Table Collection Sequence	Integer	Int	Yes						
4	tablecollectinsertsequence	Table Collection Insert Sequence	Integer	Int	Yes						
5	restrictednasissiteiid	Restricted NASIS Site ID	Integer	Int	No						
6	nonrestrictedvisible	Visible When Restricted?	Boolean	Bit	Yes						
7	loadall	Load All?	Boolean	Bit	Yes						
8	visibleingrideditor	Visible in Grid Editor?	Boolean	Bit	Yes						
9	tablecollectreplication	Table Collection Replication Type	Choice	Tinyint	Yes						table_collection_replication
10	customizationquery	Customization Query	Narrative Text	Varchar(max)	No						
11	customtabcoliidref	Customization Column	Integer	Int	No						
12	tablecollectid	Table Collection ID	Integer	Int	No						
13	orgper	Originating Person	String	Varchar	No	60					
14	conper	Contact Person	String	Varchar	No	60					
15	pendact	Pending Action	Choice	Smallint	No						pending_action
16	pendstat	Pending Status	Choice	Smallint	No						pending_status
17	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
18	recuseriidref	Record Last Updated By	Integer	Int	No						
19	tablecollectiid	Rec ID	Integer	Int	Yes						

Table collection data

Table Physical Name: tablecollectionhist
Table Label: Table Collection History

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	tablecollectiidref	Lineage	Integer	Int	Yes						
2	notedate	Date	Date/Time	Datetime	No						
3	notes	Notes	Narrative Text	Varchar(max)	No						
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	tablecollectnoteiid	Rec ID	Integer	Int	Yes						

This table records changes made to a particular Table Collection.

Table Physical Name: tablecolumn
Table Label: Table Column

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	systabiidref	Lineage	Integer	Int	Yes						
2	sysiidref	System	Integer	Int	Yes						
3	coldefseq	Default Sequence	Integer	Smallint	Yes						
4	attiidref	Attribute	Integer	Int	Yes						
5	collab	Column Label	String	Varchar	Yes	80					
6	colphydatatype	Physical Data Type	Choice	Smallint	Yes						physical_data_type
7	coldisplaysz	Column Display Size Override	Integer	Int	No						
8	defaulttype	Type of Default Value	Choice	Smallint	No						default_type
9	collitdefval	Literal Default Value	String	Varchar	No	254					
10	colsetonrowchange	Set Default on Row Change?	Boolean	Bit	Yes						
11	colsetonobjchange	Set Default on Object Change?	Boolean	Bit	Yes						
12	aggregation	Aggregation	Choice	Tinyint	Yes						variability_expression
13	colnotnulbool	Not Null?	Boolean	Bit	Yes						
14	colcalc	Calculable?	Boolean	Bit	Yes						
15	colvisible	Visible?	Boolean	Bit	Yes						
16	colprotected	Protected?	Boolean	Bit	Yes						
17	colunique	Unique?	Boolean	Bit	Yes						
18	colbusinessoriented	Business Column?	Boolean	Bit	Yes						
19	colsortseq	Sort Sequence	Integer	Smallint	No						
20	colsorta	Sort Ascending?	Choice	Smallint	No						sort_direction
21	colsorttyp	Sort Type	Choice	Smallint	No						sort_type
22	alignment	Alignment	Choice	Smallint	No						column_alignment
23	inreplicationselectlist	In Replication Select List?	Boolean	Bit	Yes						
24	colincludepedonpc	Include in Pedon PC DM?	Boolean	Bit	Yes						
25	fgdc	FGDC	Boolean	Bit	Yes						
26	colsrvdeftypeidentity	Set Server Default Type to Identity	Boolean	Bit	Yes						
27	colspatialdata	Spatial Data Type?	Boolean	Bit	Yes						
28	colsrid	SRID	Integer	Int	No						
29	filecontentcolumniidref	File Content Column	Integer	Int	No						
30	colhelptext	Help Text	Narrative Text	Varchar(max)	No						
31	columnid	Column ID	Integer	Int	No						

Table Physical Name: tablecolumn
Table Label: Table Column

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
32	orgper	Originating Person	String	Varchar	No	60					
33	conper	Contact Person	String	Varchar	No	60					
34	pendact	Pending Action	Choice	Smallint	No						pending_action
35	pendstat	Pending Status	Choice	Smallint	No						pending_status
36	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
37	recuseriidref	Record Last Updated By	Integer	Int	No						
38	tabcoliid	Rec ID	Integer	Int	Yes						

This table records and characterizes the physical columns of the tables in a particular database.

Table Physical Name: tablecolumnhist
Table Label: Table Column History

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	tabcoliidref	Lineage	Integer	Int	Yes						
2	notedate	Date	Date/Time	Datetime	No						
3	notes	Notes	Narrative Text	Varchar(max)	No						
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	colnoteiid	Rec ID	Integer	Int	Yes						

This table records notes about issues with and changes to a particular physical column.

Table Physical Name: techsoilservice
Table Label: Technical Soil Service

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	scheduledstartdate	Scheduled Start Date	Date/Time	Datetime	No						
2	scheduledcompletiondate	Scheduled Completion Date	Date/Time	Datetime	No						
3	tssdatestarted	Date Started	Date/Time	Datetime	No						
4	tssdatecompleted	Date Completed	Date/Time	Datetime	No						
5	tsstiidref	Tech Soil Service Type	Integer	Int	Yes						
6	tsstimespent	Hours	Float	Real	No		1	0	500	hours	
7	tssinstances	Instances	Integer	Int	No						
8	tssproviderusiidref	Provider	Integer	Int	Yes						
9	tssrecipient	Recipient	Choice	Smallint	Yes						tss_recipient
10	tssconsplansaffected	Plans Affected	Integer	Int	No						
11	tssprogbenefittediidref	Program Benefitted	Integer	Int	Yes						
12	tssacresbenefitted	Acres Benefitted	Integer	Int	No			1			
13	tsspeopleserved	People Served	Integer	Int	No			1			
14	tssoutcome	Outcome	Choice	Smallint	No						tss_outcomes
15	tssimpact	Impact	Narrative Text	Varchar(max)	No						
16	stateareaiidref	State FIPS	Integer	Int	No						
17	stateareatypeiidref	State	Integer	Int	Yes						
18	countyareaiidref	County Name	Integer	Int	No						
19	countyareatypeiidref	County	Integer	Int	Yes						
20	mlraareaiidref	MLRA Symbol	Integer	Int	No						
21	mlraareatypeiidref	MLRA	Integer	Int	Yes						
22	latstddecimaldegrees	Std Latitude	Float	Float	No		7	-90	90	degrees	
23	longstddecimaldegrees	Std Longitude	Float	Float	No		7	-180	180	degrees	
24	latdegrees	Lat. Degrees	Integer	Smallint	No			0	90	degrees	
25	latminutes	Lat. Minutes	Integer	Smallint	No			0	60	minutes (lat/long)	
26	latseconds	Lat. Seconds	Float	Real	No		2	0	60	seconds (lat/long)	
27	latdir	Lat. Direction	Choice	Smallint	No						latitude_direction
28	longdegrees	Long. Degrees	Integer	Smallint	No			0	180	degrees	

Table Physical Name: techsoilservice
Table Label: Technical Soil Service

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
29	longminutes	Long. Minutes	Integer	Smallint	No			0	60	minutes (lat/long)	
30	longseconds	Long. Seconds	Float	Real	No		2	0	60	seconds (lat/long)	
31	longdir	Long. Direction	Choice	Smallint	No						longitude_direction
32	horizdatnm	Datum Name	Choice	Smallint	No						horizontal_datum_name
33	utmzone	UTM Zone	Integer	Smallint	No			1	60		
34	utmnorthing	UTM Northing	Float	Float	No		2	0	10000000	meters	
35	utmeasting	UTM Easting	Float	Float	No		2	0	1000000	meters	
36	tssdbiidref	Tech Soil Service NASIS Site	Integer	Int	Yes						
37	grpiidref	NASIS Group	Integer	Int	Yes						
38	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
39	objuseriidref	Object Last Updated By	Integer	Int	No						
40	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
41	recuseriidref	Record Last Updated By	Integer	Int	No						
42	tssiid	Rec ID	Integer	Int	Yes						

This table provides for the recording of technical soil service activities provided to customers.

To record a new service provided, a new row will be entered in the table and applicable columns populated.

Table Physical Name: techsoilserviceareaoverlap
Table Label: Technical Soil Service Area Overlap

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	tssiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	areaiidref	Area	Integer	Int	Yes						
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	tssareaoverlapiid	Rec ID	Integer	Int	Yes						

The Technical Soil Service Area Overlap table records the names and symbols of geographic areas where a particular service was provided, i.e. state, county, MLRA, etc. At a minimum, state and county should be listed.

Table Physical Name: techsoilservicesite
Table Label: Technical Soil Service Site

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	tssiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	siteiidref	User Site Id	Integer	Int	Yes						
4	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
5	recuseriidref	Record Last Updated By	Integer	Int	No						
6	tsssiteiid	Rec Id	Integer	Int	Yes						

This table lists the sites having pedons that were described during a technical soil service.

Table Physical Name: techsoilservicetext
Table Label: Tech Soil Service Text

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	tssiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	recdate	Date	Date/Time	Datetime	Yes						
4	recauthor	Author	String	Varchar	No	25					
5	tsstextkind	Kind	Choice	Smallint	No						tss_text_kind
6	textcat	Category	String	Varchar	No	20					
7	textsubcat	Subcategory	String	Varchar	No	20					
8	textentry	Text Entry	Narrative Text	Varchar(max)	Yes						
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	tsstextiid	Rec ID	Integer	Int	Yes						

This table contains text notes related to a particular technical soil service activity.

Table Physical Name: techsoilservicetype
Table Label: Technical Soil Service Type

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	tsstname	Tech Soil Service Type Name	String	Varchar	Yes	60					
2	tsstdescription	Description	String	Varchar	No	240					
3	obterm	Obsolete?	Boolean	Bit	Yes						
4	tsstdbiidref	Tech Soil Service Type NASIS Site	Integer	Int	Yes						
5	grpiidref	NASIS Group	Integer	Int	Yes						
6	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
7	objuseriidref	Object Last Updated By	Integer	Int	No						
8	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
9	recuseriidref	Record Last Updated By	Integer	Int	No						
10	tsstiid	Rec ID	Integer	Int	Yes						

This table lists technical soil service activities that can be used to record TSS progress. Items recorded here serve as a lookup list for the TSS Progress table.

Table Physical Name: techsoilservprogbenefit
Table Label: Technical Soil Service Program Benefitted

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	tssprogrambenefittedsym	Program Benefitted Symbol	String	Varchar	Yes	20					
2	tssprogrambenefittednm	Program Benefitted Name	String	Varchar	Yes	128					
3	obterm	Obsolete?	Boolean	Bit	Yes						
4	tssprogbenefitteddbiidref	TSS Prog. Benefitted NASIS Site	Integer	Int	Yes						
5	grpiidref	NASIS Group	Integer	Int	Yes						
6	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
7	objuseriidref	Object Last Updated By	Integer	Int	No						
8	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
9	recuseriidref	Record Last Updated By	Integer	Int	No						
10	tssprogbenefittediid	Rec ID	Integer	Int	Yes						

This table contains a listed of NRCS Programs that can be benefitted by a technical soil service (TSS) activity. It serves as a lookup table.

Table Physical Name: totalquadratharvest
Table Label: Total Quadrat Harvest

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	vegtransectiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	quadratnumber	Quadrat #	Integer	Int	Yes			1	999		
4	transectpointlocation	Transect Point Location	Float	Real	No		1	0	1000	feet	
5	quadrattotwtclippedfresh	Total Clipped Wt - Fresh	Integer	Int	Yes			0		g	
6	recuseriidref	Record Last Updated By	Integer	Int	No						
7	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
8	totalquadratharvestiid	Rec ID	Integer	Int	Yes						

This table contains data about each quadrat along a transect where the whole quadrat is harvested (clipped) without separating individual species.

Table Physical Name: transect
Table Label: Transect

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	utransectid	User Transect ID	String	Varchar	Yes	60					
2	tsectauth	Transect Author	String	Varchar	No	150					
3	tsectkind	Transect Kind	Choice	Smallint	No						transect_kind
4	tsectselmeth	Transect Selection Method	Choice	Smallint	No						transect_selection
5	tsectdelinsize	Transect Delineation Size	Integer	Smallint	No			0		acres	
6	tsectdir	Transect Direction	Integer	Smallint	No			0	360	degrees	
7	tsectcertstatus	Certification Status	Choice	Smallint	No						transect_cert_status
8	tsectdbiidref	Transect NASIS Site	Integer	Int	Yes						
9	grpiidref	NASIS Group	Integer	Int	Yes						
10	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
11	objuseriidref	Object Last Updated By	Integer	Int	No						
12	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
13	recuseriidref	Record Last Updated By	Integer	Int	No						
14	tsectiid	Rec ID	Integer	Int	Yes						

The Transect table is used to record groupings of pedons that are the stops alongs transects.

Table Physical Name: transectestcomposition
Table Label: Transect Estimated Composition

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	tsectiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	compname	Component Name	String	Varchar	Yes	60					
4	localphase	Local Phase	String	Varchar	No	40					
5	comppct	Comp %	Integer	Smallint	Yes			0	100	percent	
6	slope_l	Low	Float	Real	No		1	0	999	percent	
7	slope_h	High	Float	Real	No		1	0	999	percent	
8	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
9	recuseriidref	Record Last Updated By	Integer	Int	No						
10	tsectestcompiid	Rec ID	Integer	Int	Yes						

List of components observed in a transected map unit delineation with an ocular estimate of the percent composition of each.

Table Physical Name: transectgapdetails
Table Label: Transect Gap Details

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	vegtransectiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	gapnumber	Gap #	Integer	Smallint	Yes			1	100		
4	gapkind	Gap Kind	Choice	Smallint	Yes						gap_kind
5	gapstartpoint	Gap Start Point	Float	Real	Yes		1	0	1000	feet	
6	gapendpoint	Gap End Point	Float	Real	Yes		1	0	1000	feet	
7	gaplength	Gap Length	Float	Real	No		1	0.1	1000	feet	
8	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
9	recuseriidref	Record Last Updated By	Integer	Int	No						
10	transectgapdetailsiid	Rec ID	Integer	Int	Yes						

This table contains data collected along a vegetation transect pertaining to basal and canopy gaps.

Table Physical Name: transectgroundcover
Table Label: Transect Ground Cover

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	vegtransectiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	groundcovertype	Ground Cover Type	Choice	Smallint	Yes						ground_cover_type
4	groundcoverptcount	# of Points	Integer	Int	No			0			
5	groundcoverptpct	Ground Cover % - Points	Integer	Smallint	No			0	100	percent	
6	quadratsize	Quadrat Size	Float	Real	No		2	0.1	999	ft2	
7	quadratshape	Quadrat Shape	Choice	Smallint	No						quadrat_shape
8	groundcoverquadpctave	Ground Cover % Ave. - Quadrats	Integer	Smallint	No			0	100	percent	
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	transectgroundcoveriid	Rec ID	Integer	Int	Yes						

This table contains data pertaining to the types and amounts of different ground cover materials along a transect.

Table Physical Name: transectgroundcoverdatalegacy
Table Label: Transect Ground Cover Data - Legacy

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	vegtransectiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	quadratnumber	Quadrat #	Integer	Int	Yes			1	999		
4	quadratbaregrpct	Bare Ground %	Integer	Smallint	No			0	100	percent	
5	quadratcancovpct	Canopy Cover %	Integer	Smallint	No			0	100	percent	
6	quadratrockfragcovpct	Rock Frag Cover %	Integer	Smallint	No			0	100	percent	
7	quadratmulchwt	Mulch Weight	Integer	Int	No			0		g	
8	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
9	recuseriidref	Record Last Updated By	Integer	Int	No						
10	transgrcovlegacydataiid	Rec ID	Integer	Int	Yes						

This table contains data pertaining to ground cover collected from individual quadrats, converted from the legacy ESIS-ESI database.

Table Physical Name: transectgroundsurfcover
Table Label: Transect Ground Surface Cover

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	vegtransectiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	groundsurfcovtype	Ground Surface Cover Type	Choice	Smallint	Yes						ground_surface_cover_type
4	groundcoverptcount	# of Points	Integer	Int	No			0			
5	groundcoverptpct	Ground Cover % - Points	Integer	Smallint	No			0	100	percent	
6	quadratsize	Quadrat Size	Float	Real	No		2	0.1	999	ft2	
7	quadratshape	Quadrat Shape	Choice	Smallint	No						quadrat_shape
8	groundcoverquadpctave	Ground Cover % Ave. - Quadrats	Integer	Smallint	No			0	100	percent	
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	transectgroundsurfcoveriid	Rec ID	Integer	Int	Yes						

This table contains data pertaining to the types and amounts of different ground surface cover material along a transect.

Table Physical Name: transectoverstorycanopycover
Table Label: Transect Overstory Canopy Cover

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	vegtransectiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	transectpointlocation	Transect Point Location	Float	Real	Yes		1	0	1000	feet	
4	overstorycanopypresent	Overstory Canopy Present ?	Boolean	Bit	Yes						
5	densiometerquadscovered	# of Densiometer Quadrants Covered	Integer	Int	No			0			
6	overstorycancovpctpoint	Overstory Canopy Cov %	Integer	Smallint	No			0	100	percent	
7	overstorycancovclpoint	Overstory Canopy Cov Class	Choice	Smallint	No						canopy_cover_class
8	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
9	recuseriidref	Record Last Updated By	Integer	Int	No						
10	transoverstorycancoviid	Rec ID	Integer	Int	Yes						

This table contains data pertaining to canopy cover of overstory species collected a points along a vegetaion transect.

Table Physical Name: transectsamplingprotocolused
Table Label: Transect Sampling Protocol Used

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	vegtransectiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	transsampprotocolname	Protocol Name	Choice	Smallint	Yes						transect_protocol
4	datacollector	Data Collector	String	Varchar	No	60					
5	datarecorder	Data Recorder	String	Varchar	No	50					
6	samplingintensity	Sampling Intensity	Choice	Smallint	No						sampling_intensity
7	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
8	recuseriidref	Record Last Updated By	Integer	Int	No						
9	transsampprotocolusediid	Rec ID	Integer	Int	Yes						

This table lists the sampling protocol(s) used to collected vegetation inventory data along a vegetation transect within a vegetation plot.

Protocols used for a vegetation plot as a whole are recorded in the Plot Sampling Protocol Used table.

Table Physical Name: transectstandingbiomassdetails
Table Label: Transect Standing Biomass Details

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	vegtransectiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	quadratnumber	Quadrat #	Integer	Int	Yes			1	999		
4	transectpointlocation	Transect Point Location	Float	Real	No		1	0	1000	feet	
5	quadratsize	Quadrat Size	Float	Real	Yes		2	0.1	999	ft2	
6	quadratshape	Quadrat Shape	Choice	Smallint	Yes						quadrat_shape
7	herbbiomasswtgreen	Herbaceous Biomass Wt. Green	Integer	Int	No			1		g	
8	herbbiomasswtairdry	Herbaceous Biomass Wt. Air-dry	Integer	Int	No			1		g	
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	transstandbiomassdetailiid	Rec ID	Integer	Int	Yes						

This table contains data pertaining to standing biomass measurements collected from individual quadrats along a vegetation transect.

Table Physical Name: transecttext
Table Label: Transect Text

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	tsectiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	recdate	Date	Date/Time	Datetime	No						
4	recauthor	Author	String	Varchar	No	25					
5	transecttextkind	Kind	Choice	Smallint	No						transect_text_kind
6	textcat	Category	String	Varchar	No	20					
7	textsubcat	Subcategory	String	Varchar	No	20					
8	textentry	Text Entry	Narrative Text	Varchar(max)	No						
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	transecttextiid	Rec ID	Integer	Int	Yes						

The Transect Text table contains notes and narrative descriptions for this transect as a whole that cannot be described using existing data elements in other tables. In many cases, the table will be empty.

Table Physical Name: uom
Table Label: Unit of Measure

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	uomsym	Symbol	String	Varchar	Yes	50					
2	uomunits	Units	String	Varchar	Yes	60					
3	uomsibool	SI?	Boolean	Bit	Yes						
4	uomapp	Application	Narrative Text	Varchar(max)	No						
5	notes	Notes	Narrative Text	Varchar(max)	No						
6	obterm	Obsolete?	Boolean	Bit	Yes						
7	uomid	Unit of Measure Id	Integer	Int	No						
8	uomdbiidref	Unit Measure NASIS Site	Integer	Int	Yes						
9	grpiidref	NASIS Group	Integer	Int	Yes						
10	objuseriidref	Object Last Updated By	Integer	Int	No						
11	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
12	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
13	recuseriidref	Record Last Updated By	Integer	Int	No						
14	uomiid	Rec ID	Integer	Int	Yes						

This table records the various units of measure in which values of attributes in a particular database are recorded.

Table Physical Name: usfseclevel
Table Label: USFS Ecological Classification Level

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	usfsectiidref	Lineage	Integer	Int	Yes						
2	usfseclrank	USFS Ecological Classification Level Rank	Integer	Smallint	Yes						
3	usfseclcode	USFS Ecological Classification Level Code	String	Varchar	Yes	4					
4	usfseclname	USFS Ecological Classification Level Name	String	Varchar	Yes	240					
5	usfseclid	USFS Ecological Classification Level ID	String	Varchar	Yes	34					
6	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
7	recuseriidref	Record Last Updated By	Integer	Int	No						
8	usfsecliid	Rec ID	Integer	Int	Yes						

This table records the ecological classification levels defined by the U.S. Forest Service in their Terra database. This table serves as a lookup table when recording USFS ecological classifications for a map unit or component.

Table Physical Name: usfsecoclass
Table Label: USFS Ecological Classification

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	usfsecliidref	Lineage	Integer	Int	Yes						
2	usfsecsetname	USFS Ecological Classification Set Name	String	Varchar	Yes	20					
3	usfsecshortname	USFS Ecological Classification Short Name	String	Varchar	Yes	55					
4	usfsecname	USFS Ecological Classification Name	String	Varchar	No	240					
5	usfseccode	USFS Ecological Classification Code	String	Varchar	No	30					
6	obterm	Obsolete?	Boolean	Bit	Yes						
7	usfsecid	USFS Ecological Classification ID	String	Varchar	Yes	34					
8	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
9	recuseriidref	Record Last Updated By	Integer	Int	No						
10	usfseciid	Rec ID	Integer	Int	Yes						

This table records the ecological classifications defined by the U.S. Forest Service in their Terra database. This table serves as a lookup table when recording USFS ecological classifications for a map unit or component.

Table Physical Name: usfsectype
Table Label: USFS Ecological Classification Type

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	usfsectcode	USFS Ecological Classification Type Code	String	Varchar	Yes	10					
2	usfsectname	USFS Ecological Classification Type Name	String	Varchar	Yes	240					
3	usfsectid	USFS Ecological Classification Type ID	String	Varchar	Yes	34					
4	usfsectdbiidref	USFS Ecological Classification Type NASIS Site	Integer	Int	Yes						
5	grpiidref	NASIS Group	Integer	Int	Yes						
6	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
7	objuseriidref	Object Last Updated By	Integer	Int	No						
8	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
9	recuseriidref	Record Last Updated By	Integer	Int	No						
10	usfsectiid	Rec ID	Integer	Int	Yes						

This table records the ecological classification types defined by the U.S. Forest Service in their Terra database. This table serves as a lookup table when recording USFS ecological classifications for a map unit or component.

Table Physical Name: usfsicat
Table Label: USFS Interpretation Category

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	usfsicatcode	USFS Interpretation Category Code	String	Varchar	Yes	20					
2	usfsicatname	USFS Interpretation Category Name	String	Varchar	Yes	240					
3	usfsicatid	USFS Interpretation Category ID	String	Varchar	Yes	34					
4	usfsicatdbiidref	USFS Interpretation Category NASIS Site	Integer	Int	Yes						
5	grpiidref	NASIS Group	Integer	Int	Yes						
6	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
7	objuseriidref	Object Last Updated By	Integer	Int	No						
8	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
9	recuseriidref	Record Last Updated By	Integer	Int	No						
10	usfsicatiid	Rec ID	Integer	Int	Yes						

This table records the soil interpretation categories defined by the U.S. Forest Service in their Terra database. This table serves as a lookup table when recording USFS soil interpretations for a map unit or component.

A soil interpretation can be associated with one and only one interpretation category.

Table Physical Name: usfsinterp
Table Label: USFS Interpretation

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	usfsicatiidref	Lineage	Integer	Int	Yes						
2	usfsinterpcode	USFS Interpretation Code	String	Varchar	Yes	20					
3	usfsinterpname	USFS Interpretation Name	String	Varchar	Yes	240					
4	usfsirclssetid	USFS Interpretation Rating Class Set ID	String	Varchar	Yes	34					
5	usfsinterpid	USFS Interpretation ID	String	Varchar	Yes	34					
6	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
7	recuseriidref	Record Last Updated By	Integer	Int	No						
8	usfsinterpiid	Rec ID	Integer	Int	Yes						

This table records the soil interpretations defined by the U.S. Forest Service in their Terra database. This table serves as a lookup table when recording USFS soil interpretations for a map unit or component.

Table Physical Name: usfsirclass
Table Label: USFS Interpretation Rating Class

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	usfsinterpiidref	Lineage	Integer	Int	Yes						
2	usfsirclscode	USFS Interpretation Rating Class Code	String	Varchar	Yes	5					
3	usfsirclsname	USFS Interpretation Rating Class Name	String	Varchar	Yes	50					
4	usfsirclsrank	USFS Interpretation Rating Class Rank	Integer	Smallint	No						
5	obterm	Obsolete?	Boolean	Bit	Yes						
6	usfsirclsid	USFS Interpretation Rating Class ID	String	Varchar	Yes	34					
7	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
8	recuseriidref	Record Last Updated By	Integer	Int	No						
9	usfsirclassiid	Rec ID	Integer	Int	Yes						

This table records the soil interpretation rating classes defined by the U.S. Forest Service in their Terra database. This table serves as a lookup table when recording USFS soil interpretations for a map unit or component. A record in this table represents one of the allowable rating classess for the corresponding soil interpretation.

In the Terra database, rating classes are grouped into sets that can be associated with more than one soil interpretation. This structure could not be replicated in NASIS due to constraints that exist for how lookups are currently implemented in NASIS. Therefore the interpretation rating classes in a set that pertains to more than one soil interpretation have to be duplicated for each of those soil interpretations.

Table Physical Name: usfsirestrict
Table Label: USFS Interpretation Restriction

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	usfsirstrctcode	USFS Interpretation Restriction Code	String	Varchar	Yes	5					
2	usfsirstrctname	USFS Interpretation Restriction Name	String	Varchar	Yes	240					
3	obterm	Obsolete?	Boolean	Bit	Yes						
4	usfsirstrctid	USFS Interpretation Restriction ID	String	Varchar	Yes	34					
5	usfsirstrcdbiidref	USFS Interpretation Restriction NASIS Site	Integer	Int	Yes						
6	grpiidref	NASIS Group	Integer	Int	Yes						
7	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
8	objuseriidref	Object Last Updated By	Integer	Int	No						
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	usfsirstrctiid	Rec ID	Integer	Int	Yes						

This table records the soil interpretation restrictions defined by the U.S. Forest Service in their Terra database. This table serves as a lookup table when recording USFS soil interpretations for a map unit or component.

A soil interpretation restriction indicates why a map unit or component is not fully suitable for a given land use. A soil interpretation restriction is not constrained to any particular soil interpretation.

Table Physical Name: usgsquadrangle
Table Label: USGS Quadrangle

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	usgsquadrangletypeiidref	Lineage	Integer	Int	Yes						
2	usgsquadranglesymbol	USGS Quadrangle Symbol	String	Varchar	Yes	20					
3	usgsquadranglename	USGS Quadrangle Name	String	Varchar	Yes	135					
4	obterm	Obsolete?	Boolean	Bit	Yes						
5	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
6	recuseriidref	Record Last Updated By	Integer	Int	No						
7	usgsquadrangleiid	Rec ID	Integer	Int	Yes						

This table provides a listing of the 7.5-minute and 15-minute USGS Topographic Quadrangles, and serves as a lookup list for the Site USGS Quadrangle Overlap table.

Table Physical Name: usgsquadrangletype
Table Label: USGS Quadrangle Type

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	usgsquadrangletypename	USGS Quadrangle Type Name	String	Varchar	Yes	45					
2	uqtdbiidref	USGS Quadrangle Type NASIS Site	Integer	Int	Yes						
3	grpiidref	NASIS Group	Integer	Int	Yes						
4	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
5	objuseriidref	Object Last Updated By	Integer	Int	No						
6	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
7	recuseriidref	Record Last Updated By	Integer	Int	No						
8	usgsquadrangletypeiid	Rec ID	Integer	Int	Yes						

This table records the types of USGS Topographic Quadrangles - 7.5 minute and 15 minute.

Table Physical Name: vegplot
Table Label: Vegetation Plot

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	siteobsiidref	Site/Site Observation	Integer	Int	Yes						
2	vegplotid	Vegetation Plot ID	String	Varchar	Yes	25					
3	vegplotname	Vegetation Plot Name	String	Varchar	No	100					
4	primarydatacollector	Primary Data Collector	String	Varchar	No	60					
5	datacollectionpurpose	Data Collection Purpose	String	Varchar	No	100					
6	vegdataorigin	Data Origin	Choice	Smallint	No						vegetation_data_origin
7	vegplotsize	Plot Size	Integer	Int	No			1		m2	
8	soilprofileindicator	Soil Profile ?	Boolean	Bit	Yes						
9	assocuserpedonid	Assoc. User Pedon ID	String	Varchar	No	60					
10	soil232idlegacy	Legacy Soil 232 ID	String	Varchar	No	15					
11	ahorizondepth	A Horizon Depth	Integer	Int	No			0	9999	cm	
12	alkalinesalineindicator	Alkaline/Saline Indicator	Choice	Smallint	No						alkaline_saline_indicator
13	alkalineaffected	Alkaline Affected ?	Boolean	Bit	Yes						
14	salinityclass	Salinity Class	Choice	Smallint	No						salinity_class
15	restrictivelayerdepthlegacy	Legacy Restrictive Layer Depth	Integer	Int	No			0	9999	cm	
16	legacysoilcompname	Legacy Soil Name	String	Varchar	No	60					
17	legacysoilphase	Legacy Soil Phase	String	Varchar	No	60					
18	legacylocalsoilphase	Legacy Local Soil Phase	String	Varchar	No	60					
19	legacysoilsurftext	Legacy Surface Texture	Choice	Smallint	No						texture_class
20	legacysurftextmod	Legacy Texture Modifier	Choice	Smallint	No						texture_modifier
21	legacyterminlieu	Legacy Term In Lieu of Texture	Choice	Smallint	No						terms_used_in_lieu_of_texture
22	erosionclasslegacy	Legacy Erosion Class	Choice	Smallint	No						erosion_class_legacy
23	landformgrouplegacy	Legacy Landform Group	Choice	Smallint	No						landforms_legacy
24	cryptogamcovcllegacy	Legacy Cryptogam Cover Class	Choice	Smallint	No						cryptogam_cover_class_legacy
25	rangelandusehistory	Rangeland Use History	Choice	Smallint	No						rangeland_use_history
26	cancovpctplotave	Canopy Cover % - Ave.	Integer	Smallint	No			0	100	percent	
27	cancovtotalpct	Total Canopy Cover %	Integer	Smallint	No			0	100	percent	
28	cancovtotalclass	Total Canopy Cover Class	Choice	Smallint	No						canopy_cover_class
29	overstorycancontotalpct	Total Overstory Canopy Cover %	Integer	Smallint	No			0	100	percent	

Table Physical Name: vegplot
Table Label: Vegetation Plot

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
30	overstorycancovtotalclass	Total Overstory Canopy Cover Class	Choice	Smallint	No						canopy_cover_class
31	dblsampannualprodave	Dbl. Sampling Ave. Annual Prod.	Integer	Int	No			0		lbs/acre	
32	compyieldproductionave	Comparative Yield Ave. Prod.	Integer	Int	No			0		lbs/acre	
33	abovegroundbiomasstotave	Total Above Ground Biomass - Ave.	Integer	Int	No			0		lbs/acre	
34	understoryreprodabundance	Understory Reprod. Abundance	Choice	Smallint	No						abundance_class
35	woodyunderstoryabundance	Woody Understory Abundance	Choice	Smallint	No						abundance_class
36	herbundertoryabundance	Herb. Understory Abundance	Choice	Smallint	No						abundance_class
37	lichensunderstoryabundance	Lichens Understory Abundance	Choice	Smallint	No						abundance_class
38	crowncanclosurepct	Crown Canopy Closure %	Integer	Smallint	No			0	100	percent	
39	crowncancloseassessmethod	Crown Can. Closure Assess. Meth.	Choice	Smallint	No						assessment_method
40	crowncompfactorlpp	LPP Crown Competition Factor	Float	Real	No		1	1	500		
41	crowncomplppavedbh	LPP Crown Comp. Ave DBH	Integer	Int	No			1	360	inches	
42	basalcoverpctave	Basal Cover % - Ave.	Integer	Smallint	No			0	100	percent	
43	basalareaplottotal	Total Basal Area	Integer	Int	No			0	500	ft2/acre	
44	basalareaassessmethod	Basal Area Assess. Method	Choice	Smallint	No						assessment_method
45	constreeshrubgrp	Cons Tree Shrub Group	Choice	Smallint	No						conservation_tree_shrub_group
46	windbreakrowonedirection	Windbreak Row 1 Direction	Choice	Smallint	No						windbreak_row_direction
47	windbreaktrappedsoildepth	Windbreak Trapped Soil Depth	Integer	Int	No			0		cm	
48	windbreaktrappedsoiltexture	Windbreak Trapped Soil Texture	Choice	Smallint	No						texture_class
49	understorydescindicator	Understory Description ?	Boolean	Bit	Yes						
50	mensurationdataindicator	Mensuration Data ?	Boolean	Bit	Yes						
51	vigorclasslegacy	Legacy Vigor Class	Choice	Smallint	No						vigor_class
52	siteconditionlegacy	Legacy Site Condition	Integer	Smallint	No			0	100	percent	
53	overstoryspecieslegacy	Legacy Overstory Species	String	Varchar	No	60					

Table Physical Name: vegplot
Table Label: Vegetation Plot

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
54	plantmoiststate	Plant Moisture State	Choice	Smallint	No						plant_moisture_state
55	currenttreedensity	Current Tree Density	Integer	Int	No			1		trees/ac	
56	currenttreespacing	Current Tree Spacing	Integer	Int	No			1	200	feet	
57	currentdxspacing	Current D+x Spacing	Integer	Int	No			1	50	feet	
58	currentplotavedbh	Current Plot Ave DBH	Float	Real	No		1	1	360	inches	
59	plotbasalareafactor	Plot Basal Area Factor	Choice	Smallint	No						basal_area_factor
60	currentbasalarea	Current Basal Area	Integer	Int	No			0	500	ft2/acre	
61	foreststandtype	Forest Stand Type	Choice	Smallint	No						forest_stand_type
62	foreststratainventoried	Strata Inventoried	Choice	Smallint	No						forest_strata_inventoried
63	foreststandregen	Stand Regeneration	Choice	Smallint	No						forest_stand_regeneration
64	foreststandquality	Stand Quality	Choice	Smallint	No						forest_stand_quality
65	desiredtreedensity	Desired Tree Density	Integer	Int	No			1	3000	trees/ac	
66	desireddxspacing	Desired D+x Spacing	Integer	Int	No			1	50	feet	
67	desiredbasalarea	Desired Basal Area	Integer	Int	No			0	500	ft2/acre	
68	excessbasalarea	Excess Basal Area	Integer	Int	No			-500	500	ft2/acre	
69	excesstreedensity	Excess Tree Density	Integer	Int	No						
70	stockingchangepct	% Stocking Change	Integer	Smallint	No					percent	
71	treepctgoodcondition	% Good Condition	Integer	Smallint	No			0	100	percent	
72	treepctfaircondition	% Fair Condition	Integer	Smallint	No			0	100	percent	
73	treepctpoorcondition	% Poor Condition	Integer	Smallint	No			0	100	percent	
74	treecounttotal	# of Trees Counted	Integer	Int	No			0			
75	treesnagdensityhard	Hard Tree Snag Density	Integer	Int	No			0		trees/ac	
76	treesnagdensitysoft	Soft Tree Snag Density	Integer	Int	No			0		trees/ac	
77	rhiannualprod	RHI - Annual Production	Choice	Smallint	No						rhi_annual_production
78	rhibareground	RHI - Bare Ground	Choice	Smallint	No						rhi_bare_ground
79	rhicompactionlayer	RHI - Compaction Layer	Choice	Smallint	No						rhi_compaction_layer
80	rhifuncstructgroups	RHI - Func/Stuct Groups	Choice	Smallint	No						rhi_functional_struct_groups
81	rhierosionresistance	RHI - Erosion Resistance	Choice	Smallint	No						rhi_erosion_resistance
82	rhigullies	RHI - Gullies	Choice	Smallint	No						rhi_gullies
83	rhirills	RHI - Rills	Choice	Smallint	No						rhi_rills
84	rhipedastalsterracettes	RHI - Pedestals/Terracettes	Choice	Smallint	No						rhi_pedestals_terracettes
85	rhiinfilrunoff	RHI - Infiltration & Runoff	Choice	Smallint	No						rhi_infiltration_runoff

Table Physical Name: vegplot
Table Label: Vegetation Plot

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
86	rhilitteramount	RHI - Litter Amount	Choice	Smallint	No						rhi_litter_amount
87	rhilittermovement	RHI - Litter Movement	Choice	Smallint	No						rhi_litter_movement
88	rhiplantmortality	RHI - Plant Mortality	Choice	Smallint	No						rhi_plant_mortality
89	rhireprodcapability	RHI - Reproductive Capability	Choice	Smallint	No						rhi_reproductive_capability
90	rhiinvasiveplants	RHI - Invasive Plants	Choice	Smallint	No						rhi_invasive_plants
91	rhisoilsurfdegradation	RHI - Soil Surface Degradation	Choice	Smallint	No						rhi_soil_surf_degradation
92	rhiwaterflowpatterns	RHI - Water Flow Patterns	Choice	Smallint	No						rhi_water_flow_patterns
93	rhiwindscourareas	RHI - Wind Scour Areas	Choice	Smallint	No						rhi_wind_scour_areas
94	rhisoilsitestabsumm	RHI - Soil/Site Stabilty Summ.	Choice	Smallint	No						rhi_summary
95	rhibioticintegritysumm	RHI - Biotic Integrity Summ.	Choice	Smallint	No						rhi_summary
96	rhihydrofunctionsumm	RHI - Hydro. Function Summ.	Choice	Smallint	No						rhi_summary
97	pastureforagetype	Pasture Forage Type	String	Varchar	No	30					
98	pasturestanddensityave	Average Pasture Stand Density	Integer	Smallint	No			0	100	percent	
99	pastureplanthtave	Average Pasture Plant Ht.	Integer	Int	No			0	100	inches	
100	pastureprodave	Average Pasture Production	Integer	Int	No			0		lbs/acre	
101	pcidesirableplants	PCI - Desirable Plants	Choice	Smallint	No						pci_desirable_plants
102	pciplantcover	PCI - Plant Cover	Choice	Smallint	No						pci_plant_cover
103	pciplantdiversity	PCI - Plant Diversity	Choice	Smallint	No						pci_plant_diversity
104	pcigroundcovresidue	PCI - Ground Cover Residue	Choice	Smallint	No						pci_ground_cover_residue
105	pcistandingdeadforage	PCI - Standing Dead Forage	Choice	Smallint	No						pci_standing_dead_forage
106	pciplantresiduecompscore	PCI - Plant Residue Comp. Score	Float	Real	No		1	1	5		
107	pciplantvigor	PCI - Plant Vigor	Choice	Smallint	No						pci_plant_vigor
108	pcilegumepctclass	PCI - Legume %	Choice	Smallint	No						pci_legume_pct_class
109	pciuseuniformity	PCI - Use Uniformity	Choice	Smallint	No						pci_use_uniformity
110	pcilivestockconcareas	PCI - Livestock Conc. Areas	Choice	Smallint	No						pci_concentration_areas
111	pcisoilcompaction	PCI - Soil Compaction	Choice	Smallint	No						pci_soil_compaction
112	pcisheetrillerosion	PCI - Sheet & Rill Erosion	Choice	Smallint	No						pci_sheet_rill_erosion
113	pciwinderosion	PCI - Wind Erosion	Choice	Smallint	No						pci_wind_erosion
114	pcistreamshoreerosion	PCI - Stream/Shore Erosion	Choice	Smallint	No						pci_stream_shore_erosion
115	pcigullyerosion	PCI - Gully Erosion	Choice	Smallint	No						pci_gully_erosion
116	pcierosioncompscore	PCI - Erosion Comp. Score	Float	Real	No		1	1	5		

Table Physical Name: vegplot
Table Label: Vegetation Plot

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
117	pcipastureconditionscore	PCI - Pasture Condition Score	Float	Real	No		1	1	5		
118	refplantcommunity	Ref. Plant Community	String	Varchar	No	60					
119	repannualprod	Representative Annual Prod.	Integer	Int	No			0		lbs/acre	
120	totestannualprod	Total Est. Annual Prod.	Integer	Int	No			0		lbs/acre	
121	totallowableannualprod	Total Allowable Prod.	Integer	Int	No			0		lbs/acre	
122	totpalatableannualprod	Total Palatable Prod.	Integer	Int	No			0		lbs/acre	
123	similarityindex	Similarity Index	Integer	Int	No			0	100		
124	annualuseableprod	Annual Useable Prod.	Integer	Int	No			0		lbs/acre	
125	harvesteffpct	Harvest Efficiency %	Integer	Smallint	No			25	35	percent	
126	takehalfleavehalf	Take 1/2 Leave 1/2	Float	Real	No		1	0		aum/acre	
127	acresperaum	Acres/AUM	Float	Real	No		1	0		acres/aum	
128	aumperacre	AUM/acre	Float	Real	No		1	0		aum/acre	
129	audperacre	AUD/acre	Float	Real	No		2	0		aud/acre	
130	desirableplantvigor	Desirable Plant Vigor	Choice	Smallint	No						vigor_class
131	desirableseedlingabundance	Desirable Seedling Abundance	Choice	Smallint	No						seedling_abundance
132	decadentplantabundance	Decadent Plant Abundance	Choice	Smallint	No						decadent_plant_abundance
133	plantresidueadequacy	Plant Residue Adequacy	Choice	Smallint	No						plant_residue_adequacy
134	undesirableinvadingspecies	Undesirable Invading Species	Choice	Smallint	No						invading_plants
135	majorinvadingspecies	Major Invading Species	String	Varchar	No	60					
136	invadingspeciescancovpct	Invading Species Can. Cov. %	Integer	Smallint	No			0	100	percent	
137	soilsurferosion	Soil Surface Erosion	Choice	Smallint	No						soil_surface_erosion
138	soilcrusting	Soil Crusting	Choice	Smallint	No						soil_crusting
139	soilcompaction	Soil Compaction	Choice	Smallint	No						soil_compaction
140	baregroundpct	Bare Ground %	Integer	Smallint	No			0	100	percent	
141	gullyrillpresence	Gully & Rill Presence	Choice	Smallint	No						gully_rill_presence
142	soildegradationrating	Soil Degradation	Choice	Smallint	No						soil_degradation
143	rangetrendcurrent	Current Range Trend	Choice	Smallint	No						range_trend
144	rangetrendplanned	Planned Range Trend	Choice	Smallint	No						range_trend

Table Physical Name: vegplot
Table Label: Vegetation Plot

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
145	qcreviewperson	QC Review Person	String	Varchar	No	50					
146	qcreviewdate	QC Review Date	Date/Time	Datetime	No						
147	qareviewperson	QA Review Person	String	Varchar	No	50					
148	qareviewdate	QA Review Date	Date/Time	Datetime	No						
149	swcdlegacy	Legacy SWCD	String	Varchar	No	30					
150	fieldofficelegacy	Legacy Field Office	String	Varchar	No	30					
151	nrcsarealegacy	Legacy SCS/NRCS Area	String	Varchar	No	30					
152	vegplotdbiidref	Veg Plot NASIS Site	Integer	Int	Yes						
153	grpiidref	NASIS Group	Integer	Int	Yes						
154	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
155	objuseriidref	Object Last Updated By	Integer	Int	No						
156	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
157	recuseriidref	Record Last Updated By	Integer	Int	No						
158	vegplotiid	Rec ID	Integer	Int	Yes						

This table contains information about each vegetation plot and summary data collected from the plot.

Table Physical Name: vegplottext
Table Label: Vegetation Plot Text

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	vegplotiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	recdate	Date	Date/Time	Datetime	Yes						
4	recauthor	Author	String	Varchar	No	25					
5	vegplottextkind	Kind	Choice	Smallint	No						veg_plot_text_kind
6	textcat	Category	String	Varchar	No	20					
7	textsubcat	Subcategory	String	Varchar	No	20					
8	textentry	Text Entry	Narrative Text	Varchar(max)	Yes						
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	vegplottextiid	Rec ID	Integer	Int	Yes						

This table contains text notes that pertain to a vegetation plot as a whole.

Table Physical Name: vegtransect
Table Label: Vegetation Transect

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	vegplotiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	vegtransectid	Veg Transect ID	String	Varchar	Yes	15					
4	transectstartlatitude	Start Latitude (WGS84)	Float	Real	No		7	-90	90	degrees	
5	transectstartlongitude	Start Longitude (WGS84)	Float	Real	No		7	-180	180	degrees	
6	transectendlatitude	End Latitude (WGS84)	Float	Real	No		7	-90	90	degrees	
7	transectendlongitude	End Longitude (WGS84)	Float	Real	No		7	-180	180	degrees	
8	transectazimuth	Transect Azimuth	Integer	Int	No			0	360	degrees	
9	transectlength	Transect Length	Integer	Int	No			1	1000	feet	
10	transectstartelevation	Start Elevation	Float	Real	No		1	-300	8550	meters	
11	transectendelevation	End Elevation	Float	Real	No		1	-300	8550	meters	
12	dblsampquadratssampled	# of Dbl. Samp. Quadrats Sampled	Integer	Int	No			1			
13	dblsampquadratsclipped	# of Dbl. Samp. Quadrats Clipped	Integer	Int	No			1			
14	nestedfreqquadratssampled	# of Nested Freq. Quadrats Sampled	Integer	Int	No			1			
15	freqquadratssampled	# of Frequency Quadrats Sampled	Integer	Int	No			1			
16	dwrquadratssampled	# of DWR Quadrats Sampled	Integer	Int	No			1			
17	daubenmirequadratssampled	# of Daubenmire Quadrats Sampled	Integer	Int	No			1			
18	quadratsizedomlegacy	Domiinant Quadrat Size - Legacy	Float	Real	No		2	0.1	999	ft2	
19	quadratsizeseclegacy	Secondary Quadrat Size - Legacy	Float	Real	No		2	0.1	999	ft2	
20	quadratshapedomlegacy	Dominant Quadrat Shape - Legacy	Choice	Smallint	No						quadrat_shape
21	quadratshapeseclegacy	Seconday Quadrat Shape - Legacy	Choice	Smallint	No						quadrat_shape
22	beltwidth	Belt Width	Float	Real	No		1	1	30	feet	
23	dblsampannualprod	Dbl. Sampling Annual Prod	Integer	Int	No			0		lbs/acre	
24	totharvestannualprod	Total Harvest Annual Prod	Integer	Int	No			0		lbs/acre	
25	wtunitannualprod	Weight Unit Annual Prod	Integer	Int	No			0		lbs/acre	
26	dwrannualprod	DWR Annual Prod	Integer	Int	No			0		lbs/acre	
27	comparativeyieldprod	Comparative Yield Annual Prod	Integer	Int	No			0		lbs/acre	
28	comparativeyieldranktotal	Total Comparative Yield Rank	Float	Real	No		1	0	999		

Table Physical Name: vegtransect
Table Label: Vegetation Transect

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
29	comparativeyieldrankave	Ave. Comparative Yield Rank	Float	Real	No		2	0	5		
30	comparativerefclipwtave	Comparative Ref. Clipped Wt. Ave.	Float	Real	No		1	0	999	g	
31	abovegroundbiomasstotal	Total Above Ground Biomass	Integer	Int	No			0		lbs/acre	
32	standingherbbiomass	Standing Herbaceous Biomass	Integer	Int	No			0		lbs/acre	
33	transectbasalcovpct	Transect Basal Cover %	Integer	Smallint	No			0	100	percent	
34	basalcovpcttotal	Total Basal Cover %	Integer	Smallint	No			0	100	percent	
35	basalgapsizemin	Minimum Basal Gap Size	Float	Real	No		1	0.1		feet	
36	canopygapsizemin	Minimum Canopy Gap Size	Float	Real	No		1	0.1		feet	
37	gapsmeasuredbetween	Gaps Measured Between	String	Varchar	No	100					
38	canopygaplengthtotal	Total Canopy Gap Length	Float	Real	No		1	1	1000	feet	
39	canopygappcttotal	Total Canopy Gap %	Integer	Smallint	No			0	100	percent	
40	basalgaplengthtotal	Total Basal Gap Length	Float	Real	No		1	1	1000	feet	
41	basalgappcttotal	Total Basal Gap %	Integer	Smallint	No			0	100	percent	
42	understoryreprodabundance	Understory Reprod. Abundance	Choice	Smallint	No						abundance_class
43	woodyunderstoryabundance	Woody Understory Abundance	Choice	Smallint	No						abundance_class
44	herbundertoryabundance	Herb. Understory Abundance	Choice	Smallint	No						abundance_class
45	lichensunderstoryabundance	Lichens Understory Abundance	Choice	Smallint	No						abundance_class
46	cancovpcttotaltrans	Transect Total Canopy Cover %	Integer	Smallint	No			0		percent	
47	cancovtotalclasstrans	Transect Total Canopy Cover Class	Choice	Smallint	No						canopy_cover_class
48	cancovassessmethod	Canopy Cover Assess. Method	Choice	Smallint	No						assessment_method
49	crowncanclosurepct	Crown Canopy Closure %	Integer	Smallint	No			0	100	percent	
50	crowncancloseassessmethod	Crown Can. Closure Assess. Meth.	Choice	Smallint	No						assessment_method
51	crowncompfactorlpp	LPP Crown Competition Factor	Float	Real	No		1	1	500		
52	crowncomplppavedbh	LPP Crown Comp. Ave DBH	Integer	Int	No			1	360	inches	
53	overstorycancovpcttrans	Overstory Canopy Cover %	Integer	Smallint	No			0	100	percent	

Table Physical Name: vegtransect
Table Label: Vegetation Transect

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
54	overstorycancovclasstrans	Overstory Canopy Cover Class	Choice	Smallint	No						canopy_cover_class
55	groundcovassessmethod	Gr. Cover Assess. Method	Choice	Smallint	No						assessment_method
56	groundcovquadratssampled	# of Gr. Cover Quadrats Sampled	Integer	Int	No			0			
57	groundcovpointssampled	# of Gr. Cover Points Sampled	Integer	Int	No			0			
58	groundsurfcovassessmethod	Gr. Surf. Cover Assess. Method	Choice	Smallint	No						assessment_method
59	groundsurfcovquadratsamp	# of Gr. Surf. Cover Quadrats Sampled	Integer	Int	No			0			
60	groundsurfcovpointssamp	# of Gr. Surf. Cover Points Sampled	Integer	Int	No			0			
61	lpiobsinterval	LPI Observation Interval	Float	Real	No		1	0.1		feet	
62	totalpointssampledcount	Total # of Points Sampled	Integer	Int	No			0			
63	topcanopyhtave	Top Canopy Ht. Ave.	Float	Real	No		1	0.1		feet	
64	topcanopyhtstddev	Top Canopy Ht. Std. Dev.	Float	Real	No		3	0.1		feet	
65	totalnumplantsbelt	Total # Plants - Belt	Integer	Int	No			1			
66	totalnumspeciesbelt	Total # Species - Belt	Integer	Int	No			1			
67	totalplantdensitybelt	Total Density - Belt	Integer	Int	No			0		plants/acre	
68	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
69	recuseriidref	Record Last Updated By	Integer	Int	No						
70	vegtransectiid	Rec ID	Integer	Int	Yes						

This table contains information about each vegetation transect within a vegetation plot, and summary vegetation data collected along the transect.

Table Physical Name: vegtransectplantsummary
Table Label: Vegetation Transect Plant Summary

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	vegtransectiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	plantiidref	Plant	Integer	Int	Yes						
4	plantnativity	Plant Nativity	Choice	Smallint	No						plant_nativity
5	planttypegroup	Plant Type Group	Choice	Smallint	No						plant_type
6	plantheightcllowerlimit	Height Class Lower Limit	Float	Real	No		1	0	500	feet	
7	plantheightclupperlimit	Height Class Upper Limit	Float	Real	No		1	0	500	feet	
8	sociabilityclass	Sociability Class	Choice	Smallint	No						sociability_class
9	specieslivecanhtbotave	Ave. Live Canopy Ht. Bottom	Integer	Int	No			0	500	feet	
10	specieslivecanhttopave	Ave. Live Canopy Ht. Top	Integer	Int	No			0	500	feet	
11	overstorydbhmin	Overstory DBH Minimum	Float	Real	No		1	0.1	99	inches	
12	overstorydbhmax	Overstory DBH Maximum	Float	Real	No		1	0.1	360	inches	
13	speciesovercancovpct	Overstory Canopy Cover %	Integer	Smallint	No			0	100	percent	
14	speciesovercancovclass	Overstory Canopy Cover Class	Choice	Smallint	No						canopy_cover_class
15	plantprodquadratsize	Plant Prod Quadrat Size	Float	Real	No		2	0.1	999	ft2	
16	plantprodquadratshape	Plant Prod Quadrat Shape	Choice	Smallint	No						quadrat_shape
17	nestedfreqquadratsize	Nested Freq. Quadrat Size	Float	Real	No		2	0.1	999	ft2	
18	nestedfreqquadratshape	Nested Freq. Quadrat Shape	Choice	Smallint	No						quadrat_shape
19	frequencyquadratsize	Freq. Quadrat Size	Float	Real	No		2	0.1	999	ft2	
20	frequencyquadratshape	Freq. Quadrat Shape	Choice	Smallint	No						quadrat_shape
21	dwrquadratsize	DWR Quadrat Size	Float	Real	No		2	0.1	999	ft2	
22	dwrquadratshape	DWR Quadrat Shape	Choice	Smallint	No						quadrat_shape
23	densityquadratsize	Density Quadrat Size	Float	Real	No		2	0.1	999	ft2	
24	densityquadratshape	Density Quadrat Shape	Choice	Smallint	No						quadrat_shape
25	speciestotwtclippedest	Total Clipped Wt.- Estimated	Integer	Int	No			0		g	
26	speciestotwtclippedfres	Total Clipped Wt. - Fresh	Integer	Int	No			0		g	
27	speciestotwtclippedairdry	Total Clipped Wt. - Air-dry	Integer	Int	No			0		g	
28	speciestotwtairdry	Total Wt. - Air-dry	Integer	Int	No			0		g	
29	speciestotwtest	Total Wt. - Estimated	Integer	Int	No			0		g	
30	speciestotwtexisting	Total Wt. - Existing	Integer	Int	No			0		g	
31	speciesdrywtpct	Dry Weight %	Integer	Smallint	No			0	100	percent	

Table Physical Name: vegtransectplantsummary
Table Label: Vegetation Transect Plant Summary

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
32	speciestotwt	Species Total Wt.	Integer	Int	No			0		g	
33	speciesaveyielddblsamp	Dbl. Sampling Ave. Yield	Integer	Int	No			0		lbs/acre	
34	speciescomppctdblsamp	Dbl. Sampling Composition %	Integer	Smallint	No			0	100	percent	
35	speciescomppctdaubenmire	Daubenmire Composition %	Integer	Smallint	No			0	100	percent	
36	speciescomppctlineintercept	Line Intercept Composition %	Integer	Smallint	No			0	100	percent	
37	speciestraceamtflag	Trace Amount ?	Boolean	Bit	Yes						
38	weightconvfactor	Wt. Conversion Factor	Float	Real	No		2	1			
39	dblsampcorrectionfactor	Dbl. Sampling Correction Factor	Float	Real	No		2	0	99		
40	airdrywtadjustment	Air-dry Wt. Adjustment	Float	Real	No		2	0.01	1		
41	utilizationadjustment	Utilization Adjustment	Float	Real	No		2	0.01	1		
42	growthadjustment	Growth Adjustment	Float	Real	No		2	0.01	1		
43	weatheradjustment	Weather Adjustment	Float	Real	No		2	0.01	2		
44	numberofquadratsin	# of Quadrats In	Integer	Int	No			0			
45	speciesfreqdaubenmire	Species Frequency - Daubenmire	Integer	Smallint	No			0	100	percent	
46	dwronetally	DWR 1 Tally	Integer	Int	No			0	999		
47	dwrtwotally	DWR 2 Tally	Integer	Int	No			0	999		
48	dwrthreetally	DWR 3 Tally	Integer	Int	No			0	999		
49	dwrweightedtally	DWR Weighted Tally	Integer	Int	No			0	999		
50	speciescomppctdwr	DWR Composition %	Integer	Smallint	No			0	100	percent	
51	speciesaveyielddwr	DWR Ave. Yield	Integer	Int	No			0		lbs/acre	
52	wtunitweight	Wt. Unit Weight	Integer	Int	No					g	
53	wtunitcounttotal	Total # of Wt. Units	Float	Real	No		2	0			
54	speciesaveyieldwtunit	Wt. Unit Ave. Yield	Integer	Int	No			0		lbs/acre	
55	wtunitwtclippedtotal	Total Wt. Unit Weight Clipped	Integer	Int	No			0		g	
56	speciescancovhitcount	# of Canopy Cover Hits	Integer	Int	No			0			
57	speciescancovpct	Canopy Cover %	Integer	Smallint	No			0	100	percent	
58	speciescancovpctavedaub	Canopy Cover % Ave. - Daubenmire	Integer	Smallint	No			0	100	percent	
59	speciescancovaveclass	Canopy Cover Ave. Class	Choice	Smallint	No						canopy_cover_class
60	speciesfoliarcovhitcount	# of Foliar Cover Hits	Integer	Int	No			0			

Table Physical Name: vegtransectplantsummary
Table Label: Vegetation Transect Plant Summary

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
61	speciesfoliarcovpctlineint	Foliar Cover % - Line Int.	Integer	Smallint	No			0	100	percent	
62	speciestotfoliarcovlineint	Total Foliar Cover - Line Int.	Float	Real	No		1	0	1000	feet	
63	speciesbasalcovhitcount	# of Basal Cover Hits	Integer	Int	No			0			
64	speciesbasalcovpctlineint	Basal Cover % - Line Int.	Integer	Smallint	No			0	100	percent	
65	speciestotbasalcovlineint	Total Basal Cover - Line Int.	Float	Real	No		1	0	1000	feet	
66	maturecounttotal	Total # of Mature Plants	Integer	Int	No			1			
67	maturedensityave	Average Mature Density	Integer	Int	No			1	999		
68	maturedensityaveclass	Average Mature Density Class	Choice	Smallint	No						plant_density_class
69	seedlingcounttotal	Total # of Seedling Plants	Integer	Int	No			1			
70	seedlingdensityave	Average Seedling Density	Integer	Int	No			1	999		
71	seedlingdensityaveclass	Average Seedling Density Class	Choice	Smallint	No						plant_density_class
72	speciesgroundcovabundclass	Ground Cover Abundance Class	Choice	Smallint	No						ground_cover_class
73	speciescancovportion	% of Total Canopy Cover	Integer	Smallint	No			0	100	percent	
74	speciesbasalarea	Basal Area	Integer	Int	No			1	500	ft2/acre	
75	basalareaassessmethod	Basal Area Assess. Method	Choice	Smallint	No						assessment_method
76	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
77	recuseriidref	Record Last Updated By	Integer	Int	No						
78	vegtransplantsummiid	Rec ID	Integer	Int	Yes						

This table contains data about plant species found along a vegetation transect within a vegetation plot.

Table Physical Name: vegtransecttext
Table Label: Vegetation Transect Text

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	vegtransectiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	recdate	Date	Date/Time	Datetime	Yes						
4	recauthor	Author	String	Varchar	No	25					
5	vegtransecttextkind	Kind	Choice	Smallint	No						veg_transect_text_kind
6	textcat	Category	String	Varchar	No	20					
7	textsubcat	Subcategory	String	Varchar	No	20					
8	textentry	Text Entry	Narrative Text	Varchar(max)	Yes						
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	vegtranstextiid	Rec ID	Integer	Int	Yes						

This table contains text notes pertaining to an individual vegetation transect.

Table Physical Name: windbreakrowdata
Table Label: Windbreak Row Data

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	vegplotiidref	Lineage	Integer	Int	Yes						
2	seqnum	Seq	Integer	Smallint	No			1			
3	windbreakrowid	Row ID	String	Varchar	Yes	3					
4	plantiidref	Plant	Integer	Int	Yes						
5	growingseasoncount	# of Growing Seasons	Integer	Int	No			1	200		
6	speiescondition	Species Condition	Choice	Smallint	No						species_condition
7	crownspreadleft	Crown Spread Left	Integer	Int	No			1		feet	
8	crownspreadright	Crown Spread Right	Integer	Int	No			1		feet	
9	spacingbetweenrows	Spacing Between Rows	Integer	Int	No			1	99	feet	
10	spacingwithinrow	Spacing Within Row	Integer	Int	No			1	99	feet	
11	cultivationpast	Cultivation Past	Choice	Smallint	No						cultivation_extent
12	cultivationpresent	Cultivation Present	Choice	Smallint	No						cultivation_extent
13	speciesdbhaverage	DBH Average	Float	Real	No		1	1	360	inches	
14	diseasekind	Disease Kind	Choice	Smallint	No						disease_kind
15	diseasedamagedegree	Disease Damage Degree	Choice	Smallint	No						damage_degree
16	injurykind	Injury Kind	Choice	Smallint	No						injury_kind
17	injurydamagedegree	Injury Damage Degree	Choice	Smallint	No						damage_degree
18	insectkind	Insect Kind	Choice	Smallint	No						insect_kind
19	insectdamagedegree	Insect Damage Degree	Choice	Smallint	No						damage_degree
20	groundcoverextent	Ground Cover Extent	Choice	Smallint	No						ground_cover_extent
21	heightlivecrownleft	Ht. to Live Crown Left	Integer	Int	No			0	500	feet	
22	heightlivecrownright	Ht. to Live Crown Right	Integer	Int	No			0	500	feet	
23	survivalpct	Survival %	Integer	Smallint	No			0	100	percent	
24	windbreakrowhtave	Row Ht. Average	Integer	Int	No			0	500	feet	
25	windbreakrowhtmaxave	Row Ht. Max. Aveage	Integer	Int	No			0	500	feet	
26	reprodabundanceclass	Reproduction Abundance Class	Choice	Smallint	No						reproduction_abundance_class
27	rootdepthfew	Rooting Depth Few	Integer	Int	No			0	9999	cm	
28	rootdepthcommon	Rooting Depth Common	Integer	Int	No			0	9999	cm	
29	rootdepthmany	Root Depth Many	Integer	Int	No			0	9999	cm	
30	suppressiondegreeleft	Suppression Degree Left	Choice	Smallint	No						suppression_degree
31	suppressionrowleft	Suppression Row ID Left	String	Varchar	No	3					

Table Physical Name: windbreakrowdata
Table Label: Windbreak Row Data

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
32	suppressiondegreeright	Suppression Degree Right	Choice	Smallint	No						suppression_degree
33	suppressionrowright	Suppression Row ID Right	String	Varchar	No	3					
34	vitalnotesindicator	Vital Notes ?	Boolean	Bit	Yes						
35	soiltaxonrangeindicator	Within Soil Taxon Range ?	Boolean	Bit	Yes						
36	notes	Notes	Narrative Text	Varchar(max)	No						
37	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
38	recuseriidref	Record Last Updated By	Integer	Int	No						
39	windbreakrowdataiid	Rec ID	Integer	Int	Yes						

This table contains data collected from individual rows of a windbreak as part of a vegetation inventory.

NASIS 7.1.4
Tables and Columns

Table Physical Name: wsimportmap
Table Label: Worksheet Import Map

Seq	Column Physical Name	Column Label	Logical Data Type	Physical Data Type	Not Null?	Size	Precision	Minimum	Maximum	Units of Measure	Domain Name
1	wbname	Workbook Name	String	Varchar	Yes	60					
2	wbversion	Workbook Version	String	Varchar	Yes	60					
3	wsname	Worksheet Name	String	Varchar	Yes	60					
4	wsimportmapping	Worksheet Import Mapping	XML	Varchar(max)	Yes						
5	wsimportmapdbiidref	Worksheet Import Map NASIS Site	Integer	Int	Yes						
6	grpiidref	NASIS Group	Integer	Int	Yes						
7	objwlupdated	Object Last Updated	Date/Time	Datetime	No						
8	objuseriidref	Object Last Updated By	Integer	Int	No						
9	recwlupdated	Record Last Updated	Date/Time	Datetime	No						
10	recuseriidref	Record Last Updated By	Integer	Int	No						
11	wsimportmapiid	Rec ID	Integer	Int	Yes						

A record in this table includes the mapping between the cells in a worksheet, for a particular version of the corresponding workbook, and columns in one or more NASIS database tables. This information is input to the process that imports data from a worksheet into a local NASIS database.