

## NASIS 7.3.3 Tables and Columns

Table Logical Name: area  
Table Label: Area

Table Physical Name: area

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	area_type_iid_ref	areatypeiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	area_symbol	areasymbol	Area Symbol	String	Varchar	Yes	20					
4	area_name	areaname	Area Name	String	Varchar	No	30					
5	area_acres	areaacres	Area Acres	Integer	Int	No	11		0		acres	
6	obsolete_term	obterm	Obsolete?	Boolean	Bit	Yes	9					
7	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
8	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
9	area_iid	areaiid	Rec ID	Integer	Int	Yes	11					

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 7.3.3 Tables and Columns

Table Logical Name: area\_text  
Table Label: Area Text

Table Physical Name: areatext

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	area_iid_ref	areaiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	record_date	recdate	Date	Date/Time	Datetime	No	19					
4	record_author	recauthor	Author	String	Varchar	No	25					
5	area_text_kind	areatextkind	Kind	Choice	Smallint	No	24					area_text_kind
6	text_category	textcat	Category	String	Varchar	No	20					
7	text_subcategory	textsubcat	Subcategory	String	Varchar	No	20					
8	text_entry	textentry	Text Entry	Narrative Text	Varchar(max)	No	10					
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	area_text_iid	areatextiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: area\_type  
Table Label: Area Type

Table Physical Name: areatype

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	area_type_name	areatypename	Area Type Name	String	Varchar	Yes	30					
2	area_type_database_iid_ref	atdbiidref	Area Type NASIS Site	Integer	Int	Yes	20					
3	group_iid_ref	grpIIDref	NASIS Group	Integer	Int	Yes	11					
4	object_when_last_updated	objwIupdated	Object Last Updated	Date/Time	Datetime	No	19					
5	object_user_iid_ref	objuseriidref	Object Last Updated By	Integer	Int	No	22					
6	record_when_last_updated	recwIupdated	Record Last Updated	Date/Time	Datetime	No	19					
7	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
8	area_type_iid	areatypeiid	Rec ID	Integer	Int	Yes	11					

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 7.3.3 Tables and Columns

Table Logical Name: attribute  
Table Label: Attribute

Table Physical Name: attribute

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	system_iid_ref	sysiidref	Lineage	Integer	Int	Yes	11					
2	attribute_logical_name	attlognm	<b>Table Logical Name</b>	String	Varchar	Yes	30					
3	attribute_physical_name	attphynm	Physical Name	String	Varchar	Yes	30					
4	attribute_label	attlabel	Label	String	Varchar	No	30					
5	attribute_logical_data_type	attlogdattyp	Logical Data Type	Choice	Smallint	Yes	23					logical_data_type_nasis
6	attribute_field_size	attfldsiz	Field Size	Integer	Smallint	No	10					
7	attribute_precision	attprec	<b>Prec</b>	Integer	Smallint	No	9					
8	unit_of_measure_iid_ref	uomiidref	Unit of Measure	Integer	Int	No	15					
9	domain_iid_ref	domiidref	Domain	Integer	Int	No	11					
10	attribute_shorter_dtiq	attshortdtiq	Shorter DTIQ	Choice	Smallint	No	20					date_time_interval_qualifier
11	attribute_longer_dtiq	attlongdtiq	Longer DTIQ	Choice	Smallint	No	20					date_time_interval_qualifier
12	attribute_minimum	attmin	<b>Min</b>	String	Varchar	No	30					
13	attribute_maximum	attmax	<b>Max</b>	String	Varchar	No	30					
14	attribute_casesensitive	attcasesensitive	Case Sensitive	Boolean	Bit	Yes	14					
15	attribute_official_definition	attoffdef	Official Definition	Narrative Text	Varchar(max)	No	19					
16	attribute_extended_definition	attextdef	Extended Definition	Narrative Text	Varchar(max)	No	19					
17	attribute_id	attributeid	Attribute Id	Integer	Int	No	12					
18	originating_person	orgper	Originating Person	String	Varchar	No	30					
19	contact_person	conper	Contact Person	String	Varchar	No	30					
20	pending_action	pendact	Pending Action	Choice	Smallint	No	14					pending_action
21	pending_status	pendstat	Pending Status	Choice	Smallint	No	14					pending_status
22	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
23	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
24	attribute_iid	attiid	Rec ID	Integer	Int	Yes	11					

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 instantiated as a physical column.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: attribute\_history  
Table Label: Attribute History

Table Physical Name: attributehist

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	attribute_iid_ref	attiidref	Lineage	Integer	Int	Yes	11					
2	note_date	notedate	Date	Date/Time	Datetime	No	19					
3	notes	notes	Notes	Narrative Text	Varchar(max)	No	7					
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	attribute_note_iid	attnoteiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: basal\_area\_trees\_counted

Table Physical Name: basalareatreescounted

Table Label: Basal Area Trees Counted

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	plot_specie_basal_area_iid_ref	plotspeciebasalareaiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	tree_number	treenumber	Tree #	Integer	Int	Yes	11		1			
4	tree_height	treeheight	Tree Height	Float	Real	No	11	1	1	500	feet	
5	tree_diameter_breast_height	treediameterbreastheight	Tree DBH	Float	Real	No	8	1	1	360	inches	
6	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
7	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
8	basal_area_trees_counted_iid	basalareatreescountediid	Rec ID	Integer	Int	Yes	11					

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 7.3.3 Tables and Columns

Table Logical Name: belt\_data  
Table Label: Belt Data

Table Physical Name: beltdata

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	veg_trans_plant_summ_iid_ref	vegtransplantsummiiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	plant_height_class_lower_limit	planheightcllowerlimit	Plant Ht Class Lower Limit	Float	Real	Yes	26	1	0	500	feet	
4	plant_height_class_upper_limit	planheightclupperlimit	Plant Ht Class Upper Limit	Float	Real	Yes	26	1	0	500	feet	
5	plant_count	plantcount	# of Plants	Integer	Int	Yes	11		0	999		
6	species_density	speciesdensity	Species Density	Integer	Int	No	15		0		plants/acre	
7	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
8	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
9	belt_data_iid	beltdataiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: belt\_transect\_summary

Table Physical Name: belttransectsummary

Table Label: Belt Transect Summary

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	vegetation_transect_iid_ref	vegtransectiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	plant_height_class_lower_limit	plantheightclowerlimit	Plant Ht Class Lower Limit	Float	Real	Yes	26	1	0	500	feet	
4	plant_height_class_upper_limit	plantheightclupperlimit	Plant Ht Class Upper Limit	Float	Real	Yes	26	1	0	500	feet	
5	plant_count_total	plantcounttotal	Total # of Plants	Integer	Int	No	17		0			
6	ht_class_plant_density	htclassplantdensity	Ht. Class Plant Density	Integer	Int	No	23		0		plants/acre	
7	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
8	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
9	belt_transect_summary_iid	belttranssummiid	Rec ID	Integer	Int	Yes	11					

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



## NASIS 7.3.3 Tables and Columns

Table Logical Name: calculation\_text  
Table Label: Calculation Text

Table Physical Name: calctext

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	calculation_iid_ref	calciidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	record_date	recdate	Date	Date/Time	Datetime	No	19					
4	record_author	recauthor	Author	String	Varchar	No	25					
5	calculation_text_kind	calctextkind	Kind	Choice	Smallint	No	19					calculation_text_kind
6	text_category	textcat	Category	String	Varchar	No	20					
7	text_subcategory	textsubcat	Subcategory	String	Varchar	No	20					
8	text_entry	textentry	Text Entry	Narrative Text	Varchar(max)	No	10					
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	calc_text_iid	calctextiid	Rec ID	Integer	Int	Yes	11					

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 7.3.3 Tables and Columns

Table Logical Name: calculation  
Table Label: Calculation

Table Physical Name: calculation

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	calculation_sequence	calc_seq	Sequence	Integer	Smallint	No	8					
2	calculation_name	calc_nm	Name	String	Varchar	Yes	30					
3	calculation_type	calc_type	Type	Choice	Smallint	Yes	4					calculation_type
4	calculation_description	calc_desc	Description	Narrative Text	Varchar(max)	No	11					
5	calculation_table_iid	calc_tbl_iid	Base Table	Integer	Smallint	Yes	10					
6	calculation	calc	Script	Calculation	Varchar(max)	Yes	14					
7	data_approved_for_use	dataafuse	Ready to use?	Boolean	Bit	Yes	13					
8	calculation_database_iid_ref	calcdbiidref	NASIS Site	Integer	Int	Yes	11					
9	group_iid_ref	grp_iidref	NASIS Group	Integer	Int	Yes	11					
10	object_when_last_updated	objwupdated	Object Last Updated	Date/Time	Datetime	No	19					
11	object_user_iid_ref	objuseridref	Object Last Updated By	Integer	Int	No	22					
12	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
13	record_user_iid_ref	recuseridref	Record Last Updated By	Integer	Int	No	22					
14	calculation_iid	calc_iid	Rec ID	Integer	Int	Yes	11					

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 7.3.3 Tables and Columns

Table Logical Name: chorizon\_aashto  
Table Label: Horizon AASHTO

Table Physical Name: chaashto

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	chorizon_iid_ref	childref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	aashto_group_classification	aashtocl	AASHTO	Choice	Smallint	No	6					aashto_group_classification
4	rv_indicator	rvindicator	Representative?	Boolean	Bit	Yes	15					
5	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
6	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
7	chor_aashto_iid	chaashtoid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: chorizon\_consistence

Table Physical Name:

chconsistence

Table Label: Horizon Consistence

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	chorizon_iid_ref	childref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	rupture_resist_block_moist	rupresblkmst	Rupture Moist	Choice	Smallint	No	25					rupture_resist_block_moist
4	rupture_resist_block_dry	rupresblkdry	Rupture Dry	Choice	Smallint	No	15					rupture_resist_block_dry
5	rupture_resist_block_cem	rupresblkcem	Rupture Cement	Choice	Smallint	No	19					rupture_resist_block_cem
6	rupture_resist_plate	rupresplate	Rupture Plate	Choice	Smallint	No	17					rupture_resist_plate
7	manner_of_failure	mannerfailure	Manner of Failure	Choice	Smallint	No	17					manner_of_failure
8	stickiness	stickiness	Stickiness	Choice	Smallint	No	17					stickiness
9	plasticity	plasticity	Plasticity	Choice	Smallint	No	18					plasticity
10	rv_indicator	rvindicator	Representative?	Boolean	Bit	Yes	15					
11	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
12	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
13	chor_consistence_iid	chconsistiid	Rec ID	Integer	Int	Yes	11					

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 7.3.3 Tables and Columns

Table Logical Name: chorizon\_desgn\_suffix  
Table Label: Horizon Designation Suffix

Table Physical Name: chdesgnsuffix

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	chorizon_iid_ref	childref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	horz_desgn_letter_suffix	desgnsuffix	Suffix	Choice	Smallint	No	6					horz_desgn_letter_suffix
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	chor_desgn_suffix_iid	chdesgnsfxiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: chorizon\_fragments  
Table Label: Horizon Fragments

Table Physical Name: chfrags

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	chorizon_iid_ref	childref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	fragment_volume	fragvol	Vol %	Float	Real	No	5	1	0	100	percent	
4	fragment_size	fragsize	Size	Integer	Smallint	No	5		2	3000	mm	
5	fragment_kind	fragkind	Kind	Choice	Smallint	No	30					fragment_kind
6	fragment_shape	fragshp	Shape	Choice	Smallint	No	7					fragment_shape
7	fragment_roundness	fraground	Roundness	Choice	Smallint	No	12					fragment_roundness
8	fragment_hardness	fraghard	Hardness	Choice	Smallint	No	19					rupture_resist_block_cem
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	chor_fragments_iid	chfragsiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: chorizon\_human\_artifacts  
Table Label: Horizon Human Artifacts

Table Physical Name: chhuarts

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	chorizon_iid_ref	childref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	human_artifact_volume	huartvol	Vol %	Integer	Smallint	Yes	5		0	100	percent	
4	human_artifact_size	huartsize	Size	Integer	Smallint	No	6		2	3000	mm	
5	human_artifact_kind	huartkind	Kind	Choice	Smallint	Yes	26					human_artifact_kind
6	human_artifact_cohesion	huartco	Cohesion	Choice	Smallint	No	11					human_artifact_cohesion
7	human_artifact_shape	huartshp	Shape	Choice	Smallint	No	15					human_artifact_shape
8	human_artifact_roundness	huartrnd	Roundness	Choice	Smallint	No	12					fragment_roundness
9	human_artifact_penetrability	huartpen	Penetrability	Choice	Smallint	No	13					human_artifact_penetrability
10	human_artifact_safety	huartsafety	Safety	Choice	Smallint	No	19					human_artifact_safety
11	human_artifact_persistence	huartper	Persistence	Choice	Smallint	No	13					human_artifact_persistence
12	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
13	record_user_iid_ref	recuseridref	Record Last Updated By	Integer	Int	No	22					
14	chor_human_artifact_iid	chhuartiid	Rec ID	Integer	Int	Yes	11					

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 7.3.3 Tables and Columns

Table Logical Name: chorizon  
Table Label: Horizon

Table Physical Name: chorizon

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	component_lid_ref	coidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	horizon_depth_to_top	hzdept	Top Depth	Integer	Smallint	No	9			9999	cm	
4	horizon_depth_to_bottom	hzdepb	Bottom Depth	Integer	Smallint	No	12		0	9999	cm	
5	horizon_thickness	hzhk	Thickness	Integer	Smallint	No	9		0	9999	cm	
6	horizon_designation	hzname	Designation	String	Varchar	No	12					
7	horz_desgn_discontinuity	desgndisc	Disc	Integer	Smallint	No	4		2	99		
8	horz_desgn_master	desgnmaster	Master	Choice	Smallint	No	7					horz_desgn_master
9	horz_desgn_master_prime	desgnmasterprime	Prime	Choice	Smallint	No	5					horz_desgn_master_prime
10	horz_desgn_vertical_subdvn	desgnvert	Sub	Integer	Smallint	No	6		1			
11	fragment_volume_total	fragvoltot	Total Fragment Volume	Integer	Smallint	No	21		0	100	percent	
12	rock_frag_greater_than_10_in	fraggt10	Rock >10	Integer	Smallint	No	8		0	100	percent	
13	rock_frag_3_to_10_in	frag3to10	Rock 3-10	Integer	Smallint	No	9		0	100	percent	
14	human_artifact_volume_total	huartvoltot	Total Human Artifact Volume	Integer	Smallint	No	27		0	100	percent	
15	sieve_number_4	sieven4	#4	Float	Real	No	6	1	0	100	percent	
16	sieve_number_10	sieven10	#10	Float	Real	No	6	1	0	100	percent	
17	sieve_number_40	sieven40	#40	Float	Real	No	6	1	0	100	percent	
18	sieve_number_200	sieven200	#200	Float	Real	No	6	1	0	100	percent	
19	sand_total_separate	sandtotal	Total Sand	Float	Real	No	10	1	0	100	percent	
20	sand_very_coarse_separate	sandvc	vcos	Float	Real	No	6	1	0	100	percent	
21	sand_coarse_separate	sandco	cos	Float	Real	No	6	1	0	100	percent	
22	sand_medium_separate	sandmed	ms	Float	Real	No	6	1	0	100	percent	
23	sand_fine_separate	sandfine	fs	Float	Real	No	6	1	0	100	percent	
24	sand_very_fine_separate	sandvf	vfs	Float	Real	No	6	1	0	100	percent	
25	silt_total_separate	silttotal	Total Silt	Float	Real	No	10	1	0	100	percent	
26	silt_coarse_separate	siltco	Coarse Silt	Float	Real	No	11	1	0	100	percent	
27	silt_fine_separate	siltfine	Fine Silt	Float	Real	No	9	1	0	100	percent	
28	clay_total_separate	claytotal	Total Clay	Float	Real	No	10	1	0	100	percent	
29	clay_sized_carbonate	claysizedcarb	CaCO3 Clay	Float	Real	No	10	1	0	100	percent	
30	mica_kind	micakind	Mica Kind	Choice	Smallint	No	17					mica_kind
31	mica_very_fine_percent	micaveryfinepct	Mica 0.02-0.25 mm	Float	Real	No	17	1	0	100	percent	
32	mica_fine_percent	micafinepct	Mica 0.25-2 mm	Float	Real	No	14	1	0	100	percent	
33	organic_matter_percent	om	OM	Float	Real	No	7	2	0	100	percent	
34	fiber_rubbed_percent	fiberrubbedpct	Rubbed Fiber %	Integer	Smallint	No	14		0	100	percent	
35	fiber_unrubbed_percent	fiberunrubbedpct	Unrubbed Fiber %	Integer	Smallint	No	16		0	100	percent	
36	bulk_density_one_tenth_bar	dbtenthbar	Db 0.1 bar H2O	Float	Real	No	14	2	0.02	2.6	g/cm3	
37	bulk_density_one_third_bar	dbthirdbar	Db 0.33 bar H2O	Float	Real	No	15	2	0.02	2.6	g/cm3	
38	bulk_density_fifteen_bar	dbfifteenbar	Db 15 bar H2O	Float	Real	No	13	2	0.02	2.6	g/cm3	
39	bulk_density_oven_dry	dbovendry	Db oven dry	Float	Float	No	11	2	0.02	2.6	g/cm3	
40	particle_density	partdensity	Dp	Float	Real	No	4	2	0.01	5	g/cm3	
41	sat_hydraulic_conductivity	ksat	Ksat	Float	Real	No	9	4	0	705	um/s	
42	available_water_capacity	awc	AWC	Float	Real	No	5	2	0	0.7	cm/cm	



# NASIS 7.3.3 Tables and Columns

43	water_one_tenth_bar	wtenthbar	0.1 bar H2O	Float	Real	No	11	1	0	100	percent	
44	water_one_third_bar	wthirdbar	0.33 bar H2O	Float	Real	No	12	1	0	100	percent	
45	water_fifteen_bar	wfifteenbar	15 bar H2O	Float	Real	No	10	1	0	100	percent	
46	water_satiated	wsatiated	Satiated H2O	Integer	Smallint	No	12		0	100	percent	
47	linear_extensibility_percent	lep	LEP	Float	Real	No	5	1	0	30	percent	
48	liquid_limit	ll	LL	Float	Real	No	6	1	0	400	percent	
49	plasticity_index	pi	PI	Float	Real	No	6	1	0	130	percent	
50	critical_shear_stress	taucfact	TauC	Choice	Smallint	No	14				Pa	critical_shear_stress
51	aashto_group_index	aashind	AASHTO Group Index	Integer	Smallint	No	18		0	120		
52	soil_erodibility_factor_whole	kwfact	Kw	Choice	Smallint	No	3					soil_erodibility_factor
53	soil_erodibility_factor_rf	kffact	Kf	Choice	Smallint	No	3					soil_erodibility_factor
54	interrill_erodibility_factor	kifact	Ki	Choice	Smallint	No	14				kg/sec/m4	interrill_erodibility_factor
55	rill_erodibility_factor	krfact	Kr	Choice	Smallint	No	14				sec/m	rill_erodibility_factor
56	calcium_carbonate_equivalent	caco3	CaCO3	Integer	Smallint	No	5		0	110	percent	
57	gypsum	gypsum	Gypsum	Integer	Smallint	No	6		0	120	percent	
58	sodium_adsorption_ratio	sar	SAR	Float	Real	No	7	1	0	9999		
59	exchangeable_sodium_percent	esp	ESP	Integer	Smallint	No	3		0		percent	
60	electrical_conductivity	ec	EC	Float	Real	No	8	1	0	15000	dS/m	
61	electrical_conductivity_1_5	ec15	EC 1:5 by volume	Float	Real	No	16	1	0	100	dS/m	
62	cation_exch_capcty_nh4oacph7	cec7	CEC-7	Float	Real	No	6	1	0	400	cmol(+)/kg	
63	effective_cation_exch_capcty	ecec	ECEC	Float	Real	No	6	1	0	400	cmol(+)/kg	
64	sum_of_bases_nh4oacph7	sumbases	Sum of Bases	Float	Float	No	12	1	0	300	cmol(+)/kg	
65	ph_1_1_water	ph1to1h2o	pH 1:1 water	Float	Real	No	6	1	1	13		
66	ph_01m_cacl2	ph01mcacl2	pH .01M CaCl2	Float	Real	No	8	1	1	13		
67	ph_oxidized	phoxidized	pH Oxidized	Float	Real	No	11	1	1	13		
68	free_iron_oxides	freeiron	Free Iron	Float	Real	No	9	2	0	100	percent	
69	iron_oxalate	feoxalate	Oxalate Fe	Float	Real	No	10	2	0	150000	mg/kg	
70	extractable_acidity	extracid	Ext Acidity	Float	Real	No	11	1	0	250	cmol(+)/kg	
71	extractable_aluminum	extral	Extract Al	Float	Real	No	10	2	0	150	cmol(+)/kg	
72	aluminum_oxalate	aloxalate	Oxalate Al	Float	Real	No	10	2	0	170000	mg/kg	
73	reduced_monosulfide_presence	rmonosulfidep	Reduced Monosulfide Presence	Boolean	Bit	Yes	28					
74	phosphorous_bray1	pbray1	Bray 1 Phos	Float	Real	No	11	1	0	500	mg/kg	
75	phosphorous_oxalate	poxalate	Oxalate Phos	Float	Real	No	12	1	0		mg/kg	
76	phosphorous_water_soluble	ph2osoluble	Water Soluble Phos	Float	Real	No	18	1	0	5000	mg/kg	
77	phosphorous_total	ptotal	Total Phos	Float	Real	No	10	2	0		percent	
78	nz_phosphorous_retention	nzpretention	NZ Phos Retention	Float	Real	No	17	1	0	100	percent	
79	excavation_difficulty_class	excavdifcl	Excav Diff	Choice	Smallint	No	14					excavation_difficulty_class
80	excavation_difficulty_moist_st	excavdifms	Excav Diff Moisture	Choice	Smallint	No	19					observed_soil_moisture_status
81	sir_layer_id_number	layerid	SIR Layer (obsolete)	Choice	Smallint	No	20					sir_layer_id_number
82	record_when_last_updated	recwluupdated	Record Last Updated	Date/Time	Datetime	No	19					
83	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
84	chorizon_iid	child	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: chorizon\_pores  
Table Label: Horizon Pores

Table Physical Name: chpores

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	chorizon_iid_ref	childref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	pore_quantity	poreqty	Quantity	Float	Real	No	8	1	0	99	pores/area	
4	pore_size	poresize	Size	Choice	Smallint	No	19					pore_root_size
5	pore_continuity_vertical	porecont	Continuity	Choice	Smallint	No	10					pore_continuity_vertical
6	pore_shape	poreshp	Shape	Choice	Smallint	No	27					pore_shape
7	rv_indicator	rvindicator	Representative?	Boolean	Bit	Yes	15					
8	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
10	chor_pores_iid	chporesiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: chorizon\_structure  
Table Label: Horizon Structure

Table Physical Name: chstruct

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	chor_structure_group_iid_ref	chstructgrpiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	structure_grade	structgrade	Grade	Choice	Smallint	No	19					structure_grade
4	structure_size	structsize	Size	Choice	Smallint	No	22					structure_size
5	structure_type	structtype	Type	Choice	Smallint	No	17					structure_type
6	structure_id	structid	Structure ID	Integer	Smallint	No	12		1			
7	structure_parts_to	structpartsto	Parts to Structure ID	Integer	Smallint	No	21		1			
8	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
10	chor_structure_iid	chstructiid	Rec ID	Integer	Int	Yes	11					

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 7.3.3 Tables and Columns

Table Logical Name: chorizon\_structure\_group  
Table Label: Horizon Structure Group

Table Physical Name: chstructgrp

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	chorizon_iid_ref	childref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	structure_group_name	structgrpname	Structure	String	Varchar	No	30					
4	rv_indicator	rvindicator	Representative?	Boolean	Bit	Yes	15					
5	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
6	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
7	chor_structure_group_iid	chstructgrpiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: chorizon\_text  
Table Label: Horizon Text

Table Physical Name: chtext

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	chorizon_iid_ref	childref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	record_date	recdate	Date	Date/Time	Datetime	No	19					
4	record_author	recauthor	Author	String	Varchar	No	25					
5	chorizon_text_kind	chorizontextkind	Kind	Choice	Smallint	No	24					chorizon_text_kind
6	text_category	textcat	Category	String	Varchar	No	20					
7	text_subcategory	textsubcat	Subcategory	String	Varchar	No	20					
8	text_entry	textentry	Text Entry	Narrative Text	Varchar(max)	No	10					
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	chor_text_iid	chtextiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: chorizon\_texture  
Table Label: Horizon Texture

Table Physical Name: chtexture

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	chor_texture_group_iid_ref	chtgliidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	texture_class	texcl	Texture	Choice	Smallint	No	7					texture_class
4	terms_used_in_lieu_of_texture	lieutex	In Lieu	Choice	Smallint	No	22					terms_used_in_lieu_of_texture
5	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
6	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
7	chor_texture_iid	chtiid	Rec ID	Integer	Int	Yes	11					

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 7.3.3 Tables and Columns

Table Logical Name: chorizon\_texture\_group  
Table Label: Horizon Texture Group

Table Physical Name: chtexturegrp

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	chorizon_iid_ref	childref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	texture_modifier_and_class	texture	Tex Mod & Class	String	Varchar	No	30					
4	stratified_textures_flag	stratextsflag	Stratified?	Boolean	Bit	Yes	11					
5	rv_indicator	rvindicator	Representative?	Boolean	Bit	Yes	15					
6	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
7	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
8	chor_texture_group_iid	chtgiid	Rec ID	Integer	Int	Yes	11					

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".

## NASIS 7.3.3 Tables and Columns

Table Logical Name: chorizon\_texture\_modifier  
Table Label: Horizon Texture Modifier

Table Physical Name: chtexturemod

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	chor_texture_iid_ref	chtliidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	texture_modifier	texmod	Modifier	Choice	Smallint	No	8					texture_modifier
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	chor_texture_modifier_iid	chtexmodiid	Rec ID	Integer	Int	Yes	11					

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.



## NASIS 7.3.3 Tables and Columns

Table Logical Name: chorizon\_unified  
Table Label: Horizon Unified

Table Physical Name: chunified

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	chorizon_iid_ref	childref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	unified_soil_classification	unifiedcl	Unified	Choice	Smallint	No	7					unified_soil_classification
4	rv_indicator	rvindicator	Representative?	Boolean	Bit	Yes	15					
5	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
6	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
7	chor_unified_iid	chunifiediid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: component\_canopy\_cover

Table Physical Name: cocanopycover

Table Label: Component Canopy Cover

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	component_iid_ref	coiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	plant_species_cover_percent	plantcov	Canopy Cover %	Integer	Smallint	No	14		0	100	percent	
4	local_plant_iid_ref	lplantiidref	Local Plant	Integer	Int	Yes	11					
5	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
6	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
7	comp_canopy_cover_iid	cocanopycoviid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: component\_crop\_yield  
Table Label: Component Crop Yield

Table Physical Name: cocopyld

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	component_iid_ref	coiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	crop_name	cropname	Crop Name	Choice	Smallint	No	30					crop_name
4	crop_yield_units	yldunits	Units	Choice	Smallint	No	18					crop_yield_units
5	nonirr_crop_yield	nonirryield	Nirr Yield	Float	Real	No	10	2	0	9999.99		
6	irrigated_crop_yield	irryield	Irr Yield	Float	Real	No	9	2	0	9999.99		
7	crop_productivity_index	cropprodindex	Prod Index	Integer	Smallint	No	10		0	100		
8	va_soil_productivity_group	vasoiprdgrp	VA Soil Prod Grp	Choice	Smallint	No	16					va_soil_productivity_group
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	comp_crop_yield_iid	cocopyldiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: component\_diagnostic\_features  
Table Label: Component Diagnostic Features

Table Physical Name: codiagfeatures

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	component_iid_ref	coiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	diag_horz_feat_depth_to_top	featdept	Top Depth	Integer	Smallint	No	9		0	9999	cm	
4	diag_horz_feat_depth_to_botm	featdepb	Bottom Depth	Integer	Smallint	No	12		0	9999	cm	
5	diag_horz_feat_thickness	featthick	Thickness	Integer	Smallint	No	9		0	9999	cm	
6	diag_horz_feat_kind	featkind	Kind	Choice	Smallint	No	30					diag_horz_feat_kind
7	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
8	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
9	comp_diagnostic_features_iid	codiagfeatiid	Rec ID	Integer	Int	Yes	11					

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.

### NASIS 7.3.3 Tables and Columns

Table Logical Name: component\_ecological\_site  
Table Label: Component Ecological Site

Table Physical Name: coecosite

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	component_iid_ref	coiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	ecological_site_iid_ref	ecositeiidref	Ecological Site	Integer	Int	Yes	15					
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	comp_ecological_site_iid	coecositeiid	Rec ID	Integer	Int	Yes	11					

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.

### NASIS 7.3.3 Tables and Columns

Table Logical Name: component\_existing\_plants  
Table Label: Component Existing Plants

Table Physical Name: coeplants

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	component_iid_ref	coiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	local_plant_iid_ref	lplantiidref	Local Plant	Integer	Int	Yes	11					
4	forest_understory_prod_pct	forestunprod	Understory Comp %	Integer	Smallint	No	17		0	100	percent	
5	rangeland_prod_percent	rangeprod	Range Comp %	Integer	Smallint	No	12		0	100	percent	
6	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
7	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
8	comp_existing_plants_iid	coeplantsiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: component\_erosion\_accelerated  
Table Label: Component Erosion Accelerated

Table Physical Name: coerosionacc

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	component_iid_ref	coiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	erosion_accelerated_kind	erokind	Kind	Choice	Smallint	No	30					erosion_accelerated_kind
4	rv_indicator	rvindicator	Representative?	Boolean	Bit	Yes	15					
5	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
6	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
7	comp_erosion_accelerated_iid	coeroacciid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: component\_forest\_prod  
Table Label: Component Forest Productivity

Table Physical Name: coforprod

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	component_iid_ref	coiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	local_plant_iid_ref	lplantiidref	Local Plant	Integer	Int	Yes	11					
4	site_index_base	siteindexbase	Site Index Base	Choice	Smallint	No	15					site_index_curves
5	site_index	siteindex	Site Index	Integer	Smallint	No	10		1	300	feet	
6	site_index_standard_deviation	siteindexstddev	Site Index Std Deviation	Float	Real	No	24	1	0	99.9	feet	
7	forest_productivity_cmai	fprodcmal	Productivity ft3/ac/yr CMAI	Float	Real	No	27	2	0	9999	ft3/ac/yr CMAI	
8	forest_prod_cmai_age	fprodage	Productivity CMAI Age	Integer	Smallint	No	21		0	999	yrs	
9	mn_forest_productivity_index	mnfprodindex	MN Prod Index	Integer	Int	No	13		0	100		
10	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
11	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
12	comp_forest_prod_iid	cofprodiid	Rec ID	Integer	Int	Yes	11					

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.



## NASIS 7.3.3 Tables and Columns

Table Logical Name: component\_forest\_prod\_other

Table Physical Name: coforprodo

Table Label: Component Forest Productivity - Other

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	comp_forest_prod_iid_ref	cofprodidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	site_index_base	siteindexbase	Site Index Base	Choice	Smallint	No	15					site_index_curves
4	site_index	siteindex	Site Index	Integer	Smallint	No	10		1	300	feet	
5	forest_productivity	fprod	Productivity	Float	Real	No	12	2	0	9999		
6	forest_productivity_units	fprodunits	Units	Choice	Smallint	No	30					forest_productivity_units
7	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
8	record_user_iid_ref	recuseridref	Record Last Updated By	Integer	Int	No	22					
9	comp_forest_prod_other_iid	cofprodoiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: component\_geomorph\_desc  
Table Label: Component Geomorphic Description

Table Physical Name: cogeomordesc

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	component_iid_ref	coiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	rv_indicator	rvindicator	Representative?	Boolean	Bit	Yes	15					
4	geomorph_feat_iid_ref	geomfiidref	Geomorphic Feature	Integer	Int	Yes	18					
5	geomorph_feat_modifier	geomfmod	Feature Modifier	String	Varchar	No	30					
6	geomorphic_feat_id	geomfeatid	Feature ID	Integer	Smallint	No	10					
7	exists_on_feature	existsonfeat	Exists On Feature ID	Integer	Smallint	No	20					
8	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
10	comp_geomorph_desc_iid	cogeomdiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: component\_hydric\_criteria  
Table Label: Component Hydric Criteria

Table Physical Name: cohycrit

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	component_iid_ref	coiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	hydric_criterion	hydriccriterion	Hydric Criterion	Choice	Smallint	Yes	16					hydric_criteria
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	comp_hydric_criteria_iid	cohycritiid	Rec ID	Integer	Int	Yes	11					

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 7.3.3 Tables and Columns

Table Logical Name: column\_lookup  
Table Label: Column Lookup

Table Physical Name: columnlookup

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	table_column_iid_ref	tabcoliidref	Lineage	Integer	Int	Yes	11					
2	display_sequence	displayseq	Display Sequence	Integer	Int	Yes	16					
3	branch	branch	Branch	Integer	Int	Yes	11					
4	relationship_iid_ref	relationshipiidref	Relationship	Integer	Int	Yes	12					
5	display_column_iid_ref	displaytabcoliidref	Display Column	Integer	Int	No	14					
6	display_column_label	displaycolumnlabel	Column Label Override	String	Varchar	No	30					
7	display_only_in_choice_list	choicelistonly	Display Only in Choice List?	Boolean	Bit	Yes	28					
8	originating_person	orgper	Originating Person	String	Varchar	No	30					
9	contact_person	conper	Contact Person	String	Varchar	No	30					
10	pending_action	pendact	Pending Action	Choice	Smallint	No	14					pending_action
11	pending_status	pendstat	Pending Status	Choice	Smallint	No	14					pending_status
12	record_when_last_updated	recwlastupdated	Record Last Updated	Date/Time	Datetime	No	19					
13	record_user_iid_ref	recuseridref	Record Last Updated By	Integer	Int	No	22					
14	column_lookup_iid	columnlookupiid	Rec ID	Integer	Int	Yes	11					

Column lookup data

## NASIS 7.3.3 Tables and Columns

Table Logical Name: column\_lookup\_history

Table Physical Name: columnlookuphist

Table Label: Column Lookup History

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	column_lookup_iid_ref	columnlookupiidref	Lineage	Integer	Int	Yes	11					
2	note_date	notedate	Date	Date/Time	Datetime	No	19					
3	notes	notes	Notes	Narrative Text	Varchar(max)	No	7					
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	column_lookup_note_iid	collookupnoteiid	Rec ID	Integer	Int	Yes	11					

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

# NASIS 7.3.3 Tables and Columns

Table Logical Name: component\_month  
Table Label: Component Month

Table Physical Name: comonth

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	component_iid_ref	coiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	month	month	Month	Choice	Smallint	No	5					flooding_ponding_month
4	flooding_frequency_class	flodfreqcl	Flooding Frequency	Choice	Smallint	No	18					flooding_frequency_class
5	flooding_duration_class	floddurcl	Flooding Duration	Choice	Smallint	No	17					flooding_duration_class
6	ponding_frequency_class	pondfreqcl	Ponding Frequency	Choice	Smallint	No	17					ponding_frequency_class
7	ponding_duration_class	ponddurcl	Ponding Duration	Choice	Smallint	No	16					ponding_duration_class
8	ponding_depth	ponddep	Ponding Depth	Integer	Smallint	No	13		0	185	cm	
9	daily_avg_precip	dlyavgprecip	Daily Precip	Integer	Smallint	No	12		0	750	mm	
10	daily_avg_pot_evapotrans	dlyavgpotet	Daily ET	Integer	Smallint	No	8		0	300	mm	
11	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
12	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
13	comp_month_iid	comonthiid	Rec ID	Integer	Int	Yes	11					

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 7.3.3 Tables and Columns

Table Logical Name: comparative\_yield\_data

Table Physical Name: comparativeyielddata

Table Label: Comparative Yield Data

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	vegetation_transect_iid_ref	vegtransectiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	quadrat_number	quadrathnumber	Quadrat #	Integer	Int	Yes	9		1	999		
4	transect_point_location	transectpointlocation	Transect Point Location	Float	Real	No	23	1	0	1000	feet	
5	yield_rank	yieldrank	Yield Rank	Integer	Int	Yes	10		0	5		
6	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
7	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
8	comparative_yield_data_iid	compyielddataiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: comparative\_yield\_ref\_quadrats

Table Physical Name: comparativeyieldrefquadrats

Table Label: Comparative Yield Reference Quadrats

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	vegetation_transect_iid_ref	vegtransectiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	reference_yield_rank	refyieldrank	Ref Yelld Rank	Choice	Smallint	Yes	14					reference_yield_rank
4	quadrat_size	quadratsize	Quadrat Size	Float	Real	Yes	12	2	0.1	999	ft2	
5	quadrat_shape	quadratshape	Quadrat Shape	Choice	Smallint	Yes	13					quadrat_shape
6	clipped_weight_ref_quadrat	clippedwtrefquadrat	Clipped Wieght	Integer	Int	Yes	14		0		g	
7	comparative_yield_conv_factor	compyldconvfactor	Conversion Factor	Float	Real	Yes	17	2	0.01	999.99		
8	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
10	comparative_yld_ref_quad_iid	compyldrefquadiid	Rec ID	Integer	Int	Yes	11					

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



# NASIS 7.3.3 Tables and Columns

Table Logical Name: component  
Table Label: Component

Table Physical Name: component

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	data_mapunit_iid_ref	dmuidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	component_percent	comp pct	Comp %	Integer	Smallint	No	6		0	100	percent	
4	component_name	compname	Component Name	String	Varchar	No	30					
5	local_phase	localphase	Local Phase	String	Varchar	No	30					
6	component_kind	compkind	Taxon Kind	Choice	Smallint	No	18					component_kind
7	major_component_flag	majcompflag	Major Component	Boolean	Bit	Yes	15					
8	class_determining_phase	otherph	SIR phase - obsolete	String	Varchar	No	30					
9	slope_gradient	slope	Slope Gradient	Float	Real	No	14	1	0	999	percent	
10	slope_length_usle	sloplenusle	Slope Length USLE	Integer	Smallint	No	17		0	4000	meters	
11	runoff	runoff	Local Runoff Class	Choice	Smallint	No	18					runoff
12	t_factor	tfact	T	Integer	Smallint	No	1		1	5	tons/acre/yr	
13	wind_erosibility_index	wei	WEI	Choice	Smallint	No	3				tons/acre/yr	wind_erosibility_index
14	wind_erosibility_group	weg	WEG	Choice	Smallint	No	3					wind_erosibility_group
15	erosion_class	erocl	Erosion Class	Choice	Smallint	No	13					erosion_class
16	earth_cover_kind_level_one	earthcovkind1	Cover Kind 1	Choice	Smallint	No	22					earth_cover_kind_level_one
17	earth_cover_kind_level_two	earthcovkind2	Cover Kind 2	Choice	Smallint	No	30					earth_cover_kind_level_two
18	hydric_condition	hydricon	Hydric Condition	Choice	Smallint	No	16					hydric_condition
19	hydric_rating	hydricrating	Hydric Rating	Choice	Smallint	No	13					hydric_rating
20	drainage_class	drainagecl	Drainage Class	Choice	Smallint	No	20					drainage_class
21	hydrology_status	hydrologystatus	Hydrology Status	Choice	Smallint	No	19					hydrology_status
22	elevation	elev	Elevation	Float	Real	No	9	1	-300	8550	meters	
23	slope_aspect_counterclockwise	aspectccwise	Aspect Counter Clockwise	Integer	Smallint	No	24		0	360	degrees	
24	slope_aspect_representative	aspectrep	Aspect Representative	Integer	Smallint	No	21		0	360	degrees	
25	slope_aspect_clockwise	aspectcwise	Aspect Clockwise	Integer	Smallint	No	16		0	360	degrees	
26	albedo_dry	albedodry	Albedo Dry	Float	Real	No	10	2	0	1		
27	mean_annual_air_temperature	airtempa	MAAT	Float	Real	No	5	1	-50	50	degrees c	
28	mean_annual_precipitation	map	MAP	Integer	Smallint	No	6		0	11500	mm	
29	rel_effective_annual_precip	reannualprecip	REAP	Integer	Smallint	No	6		0	11500	mm	
30	mean_annual_frost_free_days	ffd	Frost Free Days	Integer	Smallint	No	15		0	365	days	
31	mean_annual_soil_temperature	soiltempa	MAST	Float	Real	No	5	1	-40	50	degrees c	
32	mean_annual_water_temp	watertempa	MAWT	Float	Real	No	4	1	-10	50	degrees c	
33	nonirr_capability_class	nirrcapcl	Nirr LCC	Choice	Smallint	No	8					capability_class
34	nonirr_capability_subclass	nirr capscl	Nirr Subcl	Choice	Smallint	No	10					capability_subclass
35	nonirr_capability_unit	nirr capunit	Nirr LCU	Integer	Smallint	No	8		1	99		
36	irrigated_capability_class	irrcapcl	Irr LCC	Choice	Smallint	No	7					capability_class
37	irrigated_capability_subclass	irrcapscl	Irr Subcl	Choice	Smallint	No	9					capability_subclass
38	irrigated_capability_unit	irrcapunit	Irr LCU	Integer	Smallint	No	7		1	99		
39	crop_productivity_index	cropprodindex	Prod Index	Integer	Smallint	No	10		0	100		
40	conservation_tree_shrub_group	constreeshrubgrp	Cons Tree Shrub Group	Choice	Smallint	No	21					conservation_tree_shrub_group
41	windbreak_suitability_group	wndbrksuitgrp	Windbreak Suitability (Obsolete)	Choice	Smallint	No	30					windbreak_suitability_group
42	range_production	rsprod	Range Prod	Integer	Int	No	10		0	20000	lbs/acre/yr	

# NASIS 7.3.3 Tables and Columns

43	forage_suitability_grp_type	forsgrptype	Forage Suitability Group Type	Choice	Smallint	No	29				forage_suitability_grp_type
44	forage_suitability_grp_mlra	forsgrpmlra	Forage Suitability Group MLRA	Choice	Smallint	No	29				ecological_site_mlra
45	forage_suitability_grp_lru	forsgrplr	Forage Suitability Group LRU	Choice	Smallint	No	28				ecological_site_lru
46	forage_suitability_grp_number	forsgrpnumber	Forage Suitability Group Number	String	Char	No	30				
47	forage_suitability_grp_state	forsgrpstate	Forage Suitability Group State	Choice	Smallint	No	30				state_alpha_fips_code
48	local_plant_id_ref	lplantidref	Ord Species (Obsolete)	Integer	Int	No	22				
49	ordination_symbol_class	ordsymcl	Ord Class (Obsolete)	Integer	Smallint	No	20	0	50		
50	ordination_symbol_subclass	ordsymscl	Ord Subcl (Obsolete)	Choice	Smallint	No	20				ordination_symbol_subclass
51	ordination_symbol_group	ordsymgrp	Ord Group (Obsolete)	Integer	Smallint	No	20	1	99		
52	woodland_erosion_rating	wderosionrtg	Erosion Hazard	Choice	Smallint	No	14				woodland_rating
53	woodland_equipment_rating	wdequiprtg	Equipment Limitations	Choice	Smallint	No	21				woodland_rating
54	woodland_seedling_mortality	wdseedmortlty	Seedling Mortality	Choice	Smallint	No	18				woodland_rating
55	woodland_plant_competition	wdplantcompetn	Plant Competition	Choice	Smallint	No	17				woodland_rating
56	woodland_windthrow_hazard	wdwindthrowhazd	Windthrow Hazard	Choice	Smallint	No	16				woodland_rating
57	wildlife_habitat_grain	wlgrain	Grain Habitat	Choice	Smallint	No	13				wildlife_rating
58	wildlife_habitat_grass	wlgrass	Grass Habitat	Choice	Smallint	No	13				wildlife_rating
59	wildlife_habitat_herbaceous	wlherbaceous	Herbaceous Habitat	Choice	Smallint	No	18				wildlife_rating
60	wildlife_habitat_shrub	wlshrub	Shrub Habitat	Choice	Smallint	No	13				wildlife_rating
61	wildlife_habitat_coniferous	wlconiferous	Conifer Habitat	Choice	Smallint	No	15				wildlife_rating
62	wildlife_habitat_hardwood	wlhardwood	Hardwood Habitat	Choice	Smallint	No	16				wildlife_rating
63	wildlife_habitat_wetland_plant	wlwetplant	Wetland Habitat	Choice	Smallint	No	15				wildlife_rating
64	wildlife_habitat_shallow_water	wlshallowwat	Water Habitat	Choice	Smallint	No	13				wildlife_rating
65	wildlife_habitat_rangeland	wlrangeland	Rangeland Wildlife	Choice	Smallint	No	18				wildlife_rating
66	wildlife_habitat_openland	wlopenland	Openland Wildlife	Choice	Smallint	No	17				wildlife_rating
67	wildlife_habitat_woodland	wlwoodland	Woodland Wildlife	Choice	Smallint	No	17				wildlife_rating
68	wildlife_habitat_wetland	wlwetland	Wetland Wildlife	Choice	Smallint	No	16				wildlife_rating
69	soil_slippage_potential	soilslippot	Soil Slip Pot	Choice	Smallint	No	15				soil_slippage_potential
70	potential_frost_action	frostact	Frost Action	Choice	Smallint	No	12				potential_frost_action
71	initial_subsidence	initsub	Init Subsid	Integer	Smallint	No	11	0	999	cm	
72	total_subsidence	totalsub	Total Subsid	Integer	Smallint	No	12	0	999	cm	
73	hydrologic_group	hydgrp	Hydrologic Group	Choice	Smallint	No	16				hydrologic_group
74	corrosion_concrete	corcon	Corrosion Concrete	Choice	Smallint	No	18				corrosion_concrete
75	corrosion_uncoated_steel	corsteel	Corrosion Steel	Choice	Smallint	No	15				corrosion_uncoated_steel
76	taxonomic_classification_name	taxclname	Taxonomic Class	String	Varchar	No	30				
77	taxonomic_order	taxorder	Order	Choice	Smallint	No	11				taxonomic_order
78	taxonomic_suborder	taxsuborder	Suborder	Choice	Smallint	No	9				taxonomic_suborder
79	taxonomic_great_group	taxgrtgroup	Great Group	Choice	Smallint	No	16				taxonomic_great_group
80	taxonomic_subgroup	taxsubgrp	Subgroup	Choice	Smallint	No	30				taxonomic_subgroup
81	taxonomic_family_particle_size	taxpartsize	Particle Size	Choice	Smallint	No	30				taxonomic_family_particle_size
82	taxonomic_family_part_size_mod	taxpartsizemod	Particle Size Mod	Choice	Smallint	No	17				taxonomic_family_part_size_mod
83	taxonomic_family_c_e_act_class	taxceactcl	CEC Activity Cl	Choice	Smallint	No	15				taxonomic_family_c_e_act_class
84	taxonomic_family_reaction	taxreaction	Reaction	Choice	Smallint	No	13				taxonomic_family_reaction
85	taxonomic_family_temp_class	taxtempcl	Temp Class	Choice	Smallint	No	15				taxonomic_family_temp_class
86	taxonomic_family_haht_mat_cl	taxfamhahatmatcl	HAHT Material Class	Choice	Smallint	No	19				taxonomic_family_haht_mat_class
87	taxonomic_moisture_subclass	taxmoistscl	Moist Subclass	Choice	Smallint	No	15				taxonomic_moisture_subclass
88	taxonomic_temp_regime	taxtempregime	Temp Regime	Choice	Smallint	No	17				taxonomic_temp_regime
89	soil_taxonomy_edition	soiltaxedition	Keys to Taxonomy Edition Used	Choice	Smallint	No	29				soil_taxonomy_edition
90	ca_storie_index	castorieindex	CA Storie Index	Integer	Smallint	No	15	0	100		

### NASIS 7.3.3 Tables and Columns

91	ct_wetland	ctwetland	CT Wetland	Choice	Smallint	Yes	10			yes_no_n.a.
92	fl_ecological_community_number	flecolcommum	FL Ecol Comm #	String	Varchar	No	14			
93	fl_soil_leaching_potential	flsoilleachpot	FL Leach Pot	Choice	Smallint	No	12			fl_soil_leaching_potential
94	fl_soil_runoff_potential	flsoirunoffpot	FL Runoff Pot	Choice	Smallint	No	13			fl_soil_runoff_potential
95	fl_temik_2_use	fltemik2use	FL Temik	Choice	Smallint	Yes	8			yes_no_n.a.
96	fl_triumph_2_use	fltriumph2use	FL Triumph	Choice	Smallint	Yes	10			yes_no_n.a.
97	fl_highly_erodible	flhe	FL HE	Choice	Smallint	No	5			yes_no_n.a.
98	fl_potentially_highly_erodible	flphe	FL PHE	Choice	Smallint	No	6			yes_no_n.a.
99	ia_subsoil_phosphorus	iasubsoilp	IA Subsoil P	Choice	Smallint	No	12			ia_subsoil_p
100	ia_subsoil_potassium	iasubsoilk	IA Subsoil K	Choice	Smallint	No	14			ia_subsoil_k
101	in_drainage_group	indraingrp	IN Drainage Grp	String	Char	No	15			
102	in_nitrate_leaching_index	innitrateleachi	IN NO3 Leach Index	Integer	Smallint	No	18	0	99	
103	mi_soil_management_group	misoiimgmtgrp	MI Soil Mgmt Grp	Choice	Smallint	No	16			mi_soil_management_group
104	usfs_component_concept	usfscmpconcept	USFS Component Concept	Narrative Text	Varchar(max)	No	22			
105	va_soil_management_group	vasoiimgtgrp	VA Soil Mgmt Grp	Choice	Smallint	No	16			va_soil_management_group
106	sir_number	s5id	SIR # - obsolete	String	Varchar	No	16			
107	miscellaneous_area	miscellaneousarea	Miscellaneous Area	Choice	Smallint	No	18			miscellaneous_areas
108	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19			
109	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22			
110	component_iid	coiid	Rec ID	Integer	Int	Yes	11			

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: component\_other\_veg\_class

Table Physical Name: coothvegclass

Table Label: Component Other Vegetative Classification

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	component_iid_ref	coiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	oth_veg_class_iid_ref	ovegclidref	Other Veg Class	Integer	Int	Yes	15					
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	comp_other_veg_class_iid	coovegclid	Rec ID	Integer	Int	Yes	11					

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.

### NASIS 7.3.3 Tables and Columns

Table Logical Name: component\_pedon  
Table Label: Component Pedon

Table Physical Name: copedon

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	component_iid_ref	coiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	pedon_iid_ref	peiidref	Pedon	Integer	Int	Yes	11					
4	rv_indicator	rvindicator	Representative?	Boolean	Bit	Yes	15					
5	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
6	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
7	comp_pedon_iid	copedoniid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: component\_parent\_material  
Table Label: Component Parent Material

Table Physical Name: copm

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	comp_parent_mat_grp_iid_ref	copmgrpiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	parent_material_order	pmorder	Vertical Order	Integer	Smallint	No	14		1			
4	parent_mat_depth_to_top	pmdept	Top Depth	Integer	Smallint	No	9		0	9999	cm	
5	parent_mat_depth_to_bottom	pmdepb	Bottom Depth	Integer	Smallint	No	12		0	9999	cm	
6	parent_material_modifier	pmmodifier	Textural Modifier	Choice	Smallint	No	18					parent_material_modifier
7	parent_material_general_mod	pmgenmod	General Modifier	String	Varchar	No	30					
8	parent_material_kind	pmkind	Kind	Choice	Smallint	No	30					parent_material_kind
9	parent_material_origin	pmorigin	Origin	Choice	Smallint	No	30					parent_material_origin
10	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
11	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
12	comp_parent_material_iid	copmiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: component\_parent\_material\_grp  
Table Label: Component Parent Material Group

Table Physical Name: copmgrp

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	component_iid_ref	coiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	parent_material_group_name	pmgroupname	Parent Material Group Name	String	Varchar	No	30					
4	rv_indicator	rvindicator	Representative?	Boolean	Bit	Yes	15					
5	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
6	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
7	comp_parent_mat_grp_iid	copmgrpiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: component\_potential\_windbreak  
Table Label: Component Potential Windbreak

Table Physical Name: copwindbreak

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	component_iid_ref	coiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	windbreak_tree_height	wndbrkht	Height	Float	Real	No	6	1	0.1	35	meters	
4	local_plant_iid_ref	lplantiidref	Local Plant	Integer	Int	Yes	11					
5	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
6	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
7	comp_potential_windbreak_iid	copwindbreakiid	Rec ID	Integer	Int	Yes	11					

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.



## NASIS 7.3.3 Tables and Columns

Table Logical Name: component\_restrictions  
Table Label: Component Restrictions

Table Physical Name: corestrictions

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	component_iid_ref	coiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	restriction_depth_to_top	resdept	Top Depth	Integer	Smallint	No	9		0	9999	cm	
4	restriction_depth_to_bottom	resdepb	Bottom Depth	Integer	Smallint	No	12		0	9999	cm	
5	restriction_thickness	resthk	Thickness	Integer	Smallint	No	9		0	999	cm	
6	restriction_kind	reskind	Kind	Choice	Smallint	No	30					restriction_kind
7	restriction_hardness	reshard	Hardness	Choice	Smallint	No	19					rupture_resist_block_cem
8	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
10	comp_restrictions_iid	corestrictiid	Rec ID	Integer	Int	Yes	11					

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 7.3.3 Tables and Columns

Table Logical Name: correlation  
Table Label: Correlation

Table Physical Name: correlation

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	mapunit_iid_ref	muiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	data_mapunit_iid_ref	dmuiidref	Data Mapunit	Integer	Int	Yes	12					
4	representative_dmu	repdmu	Rep DMU	Boolean	Bit	Yes	7					
5	mapunit_constituent_acres	muconacres	Constituent Acres	Integer	Int	No	17		0		acres	
6	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
7	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
8	correlation_iid	corriid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: component\_soil\_moisture  
Table Label: Component Soil Moisture

Table Physical Name: cosoilmoist

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	comp_month_iid_ref	comonthiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	soil_moist_depth_to_top	soimoistdept	Top Depth	Integer	Smallint	No	9		0	9999	cm	
4	soil_moist_depth_to_bottom	soimoistdepb	Bottom Depth	Integer	Smallint	No	12		0	9999	cm	
5	soil_moisture_status	soimoiststat	Moisture Status	Choice	Smallint	No	15					soil_moisture_status
6	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
7	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
8	comp_soil_moisture_iid	cosoilmoistiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: component\_soil\_temperature  
Table Label: Component Soil Temperature

Table Physical Name: cosoiltemp

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	comp_month_iid_ref	comonthiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	soil_temp_depth_to_top	soitempdept	Top Depth	Integer	Smallint	No	9		0	9999	cm	
4	soil_temp_depth_to_bottom	soitempdepb	Bottom Depth	Integer	Smallint	No	12		0	9999	cm	
5	soil_temperature_mean_monthly	soitempmm	Monthly Temp	Integer	Smallint	No	12		-40	50	degrees c	
6	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
7	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
8	comp_soil_temperature_iid	cosoiltempiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: component\_surface\_fragments  
Table Label: Component Surface Fragments

Table Physical Name: cosurffrags

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	component_iid_ref	coiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	surface_frag_cover_percent	sfragcov	Cover %	Float	Real	No	7	2	0	100	percent	
4	mean_distance_between_rocks	distrocks	Spacing	Float	Real	No	7	2	0	50	meters	
5	surface_frag_size	sfragsize	Size	Integer	Smallint	No	6		2		mm	
6	surface_frag_kind	sfragkind	Kind	Choice	Smallint	No	30					fragment_kind
7	surface_frag_shape	sfragshp	Shape	Choice	Smallint	No	7					fragment_shape
8	surface_frag_roundness	sfraground	Roundness	Choice	Smallint	No	12					fragment_roundness
9	surface_frag_hardness	sfraghard	Hardness	Choice	Smallint	No	19					rupture_resist_block_cem
10	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
11	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
12	comp_surface_fragments_iid	cosurffragsiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: component\_surface\_morph\_gc

Table Physical Name: cosurfmorphgc

Table Label: Component Three Dimensional Surface Morphometry

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	comp_geomorph_desc_iid_ref	cogeomdiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	geomorphic_position_mountains	geomposmntn	Geomorphic Component - Mountains	Choice	Smallint	No	30					geomor_pos_mountain
4	geomorphic_position_hills	geomposhill	Geomorphic Component - Hills	Choice	Smallint	No	28					geomor_pos_hill
5	geomorphic_position_terraces	geomposrce	Geomorphic Component - Terraces	Choice	Smallint	No	30					geomor_pos_terrace
6	geomorphic_position_flats	geomposflats	Geomorphic Component - Flats	Choice	Smallint	No	28					geomor_pos_flat
7	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
8	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
9	comp_surface_morph_gc_iid	cosurfmgc_iid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: component\_surface\_morph\_hpp

Table Physical Name: cosurfmorphhpp

Table Label: Component Two Dimensional Surface Morphometry

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	comp_geomorph_desc_iid_ref	cogeomdiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	hillslope_profile	hillslopeprof	Hillslope Profile	Choice	Smallint	No	17					hillslope_profile
4	rv_indicator	rvindicator	Representative?	Boolean	Bit	Yes	15					
5	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
6	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
7	comp_surface_morph_hpp_iid	cosurfmorphpiiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: component\_surface\_morph\_mr  
Table Label: Component Microrelief Surface Morphometry

Table Physical Name: cosurfmorphmr

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	comp_geomorph_desc_iid_ref	cogeomdiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	geomorph_micro_relief	geomicrorelief	Microrelief Kind	Choice	Smallint	No	16					microrelief_kind
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	comp_surface_morph_mr_iid	cosurfmormriid	Rec ID	Integer	Int	Yes	11					

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.



## NASIS 7.3.3 Tables and Columns

Table Logical Name: component\_surface\_morph\_ss

Table Physical Name: cosurfmorphss

Table Label: Component Slope Shape Surface Morphometry

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	comp_geomorph_desc_iid_ref	cogeomdiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	shape_across	shapeacross	Slope Shape Across	Choice	Smallint	No	18					slope_shape
4	shape_down	shapedown	Slope Shape Up/Down	Choice	Smallint	No	19					slope_shape
5	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
6	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
7	comp_surface_morph_ss_iid	cosurfmorssiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: component\_tax\_fam\_mineralogy

Table Physical Name: cotaxfmmin

Table Label: Component Taxonomic Family Mineralogy

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	component_iid_ref	coiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	mineralogy_order	minorder	Vertical Order	Integer	Smallint	Yes	14		1			
4	taxonomic_family_mineralogy	taxminalogy	Mineralogy	Choice	Smallint	Yes	29					taxonomic_family_mineralogy
5	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
6	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
7	comp_tax_fam_min_iid	cotaxfmminiid	Rec ID	Integer	Int	Yes	11					

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.

### NASIS 7.3.3 Tables and Columns

Table Logical Name: component\_tax\_moisture\_class  
Table Label: Component Taxonomic Moisture Class

Table Physical Name: cotaxmoistcl

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	component_iid_ref	coiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	taxonomic_moisture_class	taxmoistcl	Moisture Class	Choice	Smallint	Yes	15					taxonomic_moisture_class
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	comp_tax_moisture_class_iid	cotaxmciid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: component\_text  
Table Label: Component Text

Table Physical Name: cotext

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	component_iid_ref	coidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	record_date	recdate	Date	Date/Time	Datetime	No	19					
4	record_author	recauthor	Author	String	Varchar	No	25					
5	component_text_kind	comptextkind	Kind	Choice	Smallint	No	24					component_text_kind
6	text_category	textcat	Category	String	Varchar	No	20					
7	text_subcategory	textsubcat	Subcategory	String	Varchar	No	20					
8	text_entry	textentry	Text Entry	Narrative Text	Varchar(max)	No	10					
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	comp_text_iid	cotextiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: component\_trees\_to\_manage  
Table Label: Component Trees To Manage

Table Physical Name: cotreestomng

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	component_iid_ref	coiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	local_plant_iid_ref	lplantiidref	Local Plant	Integer	Int	Yes	11					
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	comp_trees_to_plant_iid	cotreestopiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: component\_tax\_fam\_other

Table Physical Name: cotxfmother

Table Label: Component Taxonomic Family Other Criteria

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	component_iid_ref	coiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	taxonomic_family_other	taxfamother	Family Other	Choice	Smallint	Yes	20					taxonomic_family_other
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	comp_tax_fam_other_iid	cotaxfoiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: component\_usfs\_eco\_class

Table Physical Name: coufssecoclass

Table Label: Component USFS Ecological Classification

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	component_iid_ref	coiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	usfs_eco_class_iid_ref	usfseciidref	USFS Ecological Classification	Integer	Int	Yes	30					
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	comp_usfs_eco_class_iid	cousfsecoclsiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: component\_usfs\_ground\_cover  
Table Label: Component USFS Ground Cover

Table Physical Name: coufsgrndcvr

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	component_iid_ref	coiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	usfs_ground_cover_percent	usfsgrndcovpct	USFS Ground Cover Percent	Float	Real	Yes	25	2	0	100	percent	
4	usfs_ground_cover_type	usfsgrndcovtyp	USFS Ground Cover Type	Choice	Smallint	Yes	30					usfs_ground_cover_type
5	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
6	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
7	comp_usfs_ground_cover_iid	cousfsgrndcvriid	Rec ID	Integer	Int	Yes	11					

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



## NASIS 7.3.3 Tables and Columns

Table Logical Name: component\_usfs\_interpretation  
Table Label: Component USFS Interpretation

Table Physical Name: coufsinterp

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	component_iid_ref	coiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	usfs_interp_iid_ref	usfsinterp_iidref	USFS Interpretation	Integer	Int	Yes	19					
4	usfs_irclass_iid_ref	usfsirclass_iidref	USFS Interpretation Rating Class	Integer	Int	No	30					
5	usfs_irating_numeric_value	usfsirnumval	USFS Interpretation Rating Numeric Value	Float	Float	No	30	2				
6	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
7	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
8	comp_usfs_interp_iid	cousfsinterp_iid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: component\_usfs\_interp\_restrict  
 Table Label: Component USFS Interpretation Restriction

Table Physical Name: coufsirestrict

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	comp_usfs_interp_iid_ref	cousfsinterp_iidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	usfs_irestriction_iid_ref	usfsirstrct_iidref	USFS Interpretation Restriction	Integer	Int	Yes	30					
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	comp_usfs_irestrict_iid	cousfsirestrictiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: crop\_tree\_details  
Table Label: Crop Tree Details

Table Physical Name: croptreedetails

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	crop_tree_summ_iid_ref	croptreesummiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	tree_number	treenumber	Tree ID #	Integer	Int	No	11		1			
4	plant_iid_ref	plantiidref	Plant	Integer	Int	Yes	11					
5	tree_diameter_breast_height	treediameterbreastheight	Tree DBH	Float	Real	No	8	1	1	360	inches	
6	crop_tree_primary_cat	croptreeprimarycat	Primary Category	Choice	Smallint	No	16					crop_tree_category
7	crop_tree_secondary_cat	croptreessecondarycat	Secondary Category	Choice	Smallint	No	18					crop_tree_category
8	cut_tree_indicator	cuttreeindicator	Cut Tree ?	Boolean	Bit	Yes	10					
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	crop_tree_details_iid	croptreedetailsiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: crop\_tree\_subplot\_details

Table Physical Name: croptreesubplotdetails

Table Label: Crop Tree Subplot Details

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	crop_tree_summ_iid_ref	croptreesummiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	subplot_number	subplotnumber	Subplot #	Integer	Int	Yes	11		1			
4	leave_tree_basal_area	leavetreebasalarea	Leave Tree Basal Area	Integer	Int	No	21		0	500	ft2/acre	
5	cut_tree_basal_area	cuttreebasalarea	Cut Tree Basal Area	Integer	Int	No	19		0	500	ft2/acre	
6	basal_area_subplot_total	basalareasubplottotal	Total Basal Area	Integer	Int	No	16		0	500	ft2/acre	
7	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
8	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
9	crop_tree_subplot_details_iid	croptreesubplotdetailsiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: crop\_tree\_summary

Table Physical Name: croptreesummary

Table Label: Crop Tree Summary

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	vegetation_plot_iid_ref	vegplotiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	tree_count_total	treecounttotal	Total # of Trees	Integer	Int	No	16		0			
4	current_tree_density	currenttreedensity	Current Tree Density	Integer	Int	No	20		1		trees/ac	
5	current_basal_area	currentbasalarea	Total Basal Area	Integer	Int	No	16		0	500	ft2/acre	
6	current_plot_average_dbh	currentplotavedbh	Average DBH	Float	Real	No	11	1	1	360	inches	
7	cut_tree_basal_area_ave	cuttreebasalareaave	Cut Tree Basal Area Ave.	Integer	Int	No	24		0	500	ft2/acre	
8	leave_tree_basal_area_ave	leavetreebasalareaave	Leave Tree Basal Area Ave.	Integer	Int	No	26		0	500	ft2/acre	
9	cut_tree_count	cuttreecount	# of Cut Trees	Integer	Int	No	14		0			
10	cut_tree_density	cuttreedensity	Cut Tree Density	Integer	Int	No	16		1		trees/ac	
11	cut_tree_average_dbh	cuttreeavedbh	Cut Tree Ave. DBH	Float	Real	No	17	1	1	360	inches	
12	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
13	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
14	crop_tree_summary_iid	croptreesummaryiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: crop\_tree\_totals  
Table Label: Crop Tree Totals

Table Physical Name: croptreetotals

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	crop_tree_summ_iid_ref	croptreesummiiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	crop_tree_primary_cat	croptreeprimarycat	Crop Tree Category	Choice	Smallint	Yes	18					crop_tree_category
4	category_tree_count	categorytreecount	# of Trees	Integer	Int	No	11		0			
5	category_tree_density	categorytreedensity	Tree Density	Integer	Int	No	12		1		trees/ac	
6	category_average_dbh	categorydbhave	Ave. DBH	Float	Real	No	8	1	1	360	inches	
7	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
8	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
9	crop_tree_totals_iid	croptreetotalsiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: custom\_choice\_domain

Table Physical Name: customchoicedomain

Table Label: Custom Choice Domain

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	custom_choice_list_set_iid_ref	customchoicelistsetiidref	Custom Choice List Set	Integer	Int	Yes	22					
2	domain_id	domainid	Domain ID	Integer	Int	Yes	11					
3	unselected_domain_choices	unselecteddomainchoices	Unselected Domain Choices	Narrative Text	Varchar(max)	Yes	25					
4	custom_choice_domain_iid	customchoicedomainiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: custom\_choice\_list\_set

Table Physical Name: customchoicelistset

Table Label: Custom Choice List Set

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	custom_choice_list_set_name	customchoicelistsetname	Custom Choice List Set Name	String	Varchar	Yes	30					
2	custom_choice_list_set_desc	customchoicelistsetdesc	Custom Choice List Set Description	Narrative Text	Varchar(max)	No	30					
3	ccls_db_iid_ref	cclsdbiidref	Custom Choice List Set NASIS Site	Integer	Int	Yes	30					
4	group_iid_ref	grpIIDref	NASIS Group	Integer	Int	Yes	11					
5	object_when_last_updated	objwIupdated	Object Last Updated	Date/Time	Datetime	No	19					
6	object_user_iid_ref	objuseriidref	Object Last Updated By	Integer	Int	No	22					
7	record_when_last_updated	recwIupdated	Record Last Updated	Date/Time	Datetime	No	19					
8	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
9	custom_choice_list_set_iid	customchoicelistsetiid	Rec ID	Integer	Int	Yes	11					

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.



## NASIS 7.3.3 Tables and Columns

Table Logical Name: custom\_choice\_lookup

Table Physical Name: customchoicelookup

Table Label: Custom Choice Lookup

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	custom_choice_list_set_iid_ref	customchoicelistsetiidref	Custom Choice List Set	Integer	Int	Yes	22					
2	table_id	tableid	Table ID	Integer	Int	Yes	11					
3	unselected_lookup_choices	unselectedlookupchoices	Unselected Lookup Choices	Narrative Text	Varchar(max)	Yes	25					
4	custom_choice_lookup_iid	customchoicelookupiid	Rec ID	Integer	Int	Yes	11					

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.

# NASIS 7.3.3 Tables and Columns

Table Logical Name: data\_mapunit  
Table Label: Data Mapunit

Table Physical Name: datamapunit

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	data_mapunit_description	dmudesc	DMU Description	String	Varchar	No	30					
2	mapunit_hel_class	muhelcl	HEL (obsolete)	Choice	Smallint	No	27					mapunit_hel_class
3	mapunit_hel_class_water	muwathelcl	HEL Water (obsolete)	Choice	Smallint	No	27					mapunit_hel_class
4	mapunit_hel_class_wind	muwndhelcl	HEL Wind (obsolete)	Choice	Smallint	No	27					mapunit_hel_class
5	dmu_interpretive_focus	dmuinterpfocus	Interpretive Focus	String	Varchar	No	30					
6	dmu_investigation_intensity	dmuinvesintens	Order of Mapping	Choice	Smallint	No	16					dmu_investigation_intensity
7	crop_productivity_index	cropprodindex	Prod Index	Integer	Smallint	No	10		0	100		
8	ct_septic_potential	ctsepticpot	CT Septic Potential	Choice	Smallint	No	23					ct_septic_potential
9	ia_corn_suitability_rating	iacornsr	IA CSR	Integer	Smallint	No	6		5	100		
10	nh_important_forest_soil_group	nhiforsoigrp	NH Forest Soil Grp	Choice	Smallint	No	18					nh_important_forest_soil_group
11	nh_spi_for_agriculture	nhspiagr	NH SPI Agr	Float	Float	No	10	1	0	100		
12	nj_farmland_assessment	njfmlassessment	NJ Farmland Assessment	Choice	Smallint	No	22					nj_farmland_assessment
13	vt_septic_system_class	vtsepticyscl	VT Septic System	Choice	Smallint	No	16					vt_septic_system_class_2007
14	dmu_database_iid_ref	dmudbidref	DMU NASIS Site	Integer	Int	Yes	14					
15	group_iid_ref	grpIidref	NASIS Group	Integer	Int	Yes	11					
16	object_when_last_updated	objwIupdated	Object Last Updated	Date/Time	Datetime	No	19					
17	object_user_iid_ref	objuseriidref	Object Last Updated By	Integer	Int	No	22					
18	record_when_last_updated	recwIupdated	Record Last Updated	Date/Time	Datetime	No	19					
19	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
20	data_mapunit_iid	dmuiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: daubenmire\_can\_cov\_class\_summ

Table Physical Name: daubenmirecancovclasssumm

Table Label: Daubenmire Canopy Cover Class Summary

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	veg_trans_plant_summ_iid_ref	vegtransplantsummiiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	daubenmire_canopy_cover_class	daubcancovclass	Canopy Cover Class	Choice	Smallint	Yes	18					daubenmire_canopy_cover_class
4	canopy_cov_class_midpoint_pct	cancovclassmidpoint	Class Midpoint %	Float	Real	No	16	1	0.1	99.9	percent	
5	canopy_cov_class_count	cancovclasscount	# of Quadrat Hits	Integer	Int	No	17		0			
6	canopy_cover_product	cancovproduct	Canopy Cover Product	Float	Real	No	20	1	0			
7	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
8	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
9	daub_can_cov_cl_summ_iid	daubcancovclsummiiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: daubenmire\_can\_cov\_quad\_detail

Table Physical Name: daubenmirecancovquaddetail

Table Label: Daubenmire Canopy Cover Quad Details

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	daub_can_cov_cl_summ_iid_ref	daubcancovclsummiiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	quadrat_number	quadratnumber	Quadrat #	Integer	Int	Yes	9		1	999		
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	daub_can_cov_quad_detail_iid	daubcancovquaddetailiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: density\_quadrat\_details

Table Physical Name: densityquadratdetails

Table Label: Density Quadrat Details

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	veg_trans_plant_summ_iid_ref	vegtransplantsummiiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	quadrat_number	quadrathnumber	Quadrat #	Integer	Int	Yes	9		1	999		
4	transect_point_location	transectpointlocation	Transect Point Location	Float	Real	No	23	1	0	1000	feet	
5	mature_count	maturecount	# of Mature Plants	Integer	Int	No	18		1			
6	mature_density_class	maturedensityclass	Mature Density Class	Choice	Smallint	No	20					plant_density_class
7	seedling_count	seedlingcount	# of Seedling Plants	Integer	Int	No	20		1			
8	seedling_density_class	seedlingdensityclass	Seedling Density Class	Choice	Smallint	No	22					plant_density_class
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	density_quadrat_details_iid	densityquaddetailsiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: distribution\_comp\_metadata  
Table Label: Distribution Component Metadata

Table Physical Name: distcompmid

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	dist_mapunit_md_iid_ref	distmumdliidref	Lineage	Integer	Int	Yes	11					
2	data_mapunit_iid_ref	dmuiidref	Data Mapunit Rec ID	Integer	Int	Yes	19					
3	component_iid_ref	coiidref	Component Rec ID	Integer	Int	Yes	16					
4	component_name	compname	Component Name	String	Varchar	No	30					
5	local_phase	localphase	Local Phase	String	Varchar	No	30					
6	component_percent	compct	Comp %	Integer	Smallint	No	6		0	100	percent	
7	component_kind	compkind	Taxon Kind	Choice	Smallint	No	18					component_kind
8	class_determining_phase	otherph	SIR phase - obsolete	String	Varchar	No	30					
9	major_component_flag	majcompflag	Major Component	Boolean	Bit	Yes	15					
10	dist_comp_md_iid	distcompmidid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: distribution\_interp\_metadata  
Table Label: Distribution Interp Metadata

Table Physical Name: distinterpmd

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	dist_md_iid_ref	distmdiidref	Lineage	Integer	Int	Yes	11					
2	rule_iid_ref	ruleiidref	Rule Rec ID	Integer	Int	Yes	11					
3	rule_name	rulename	Rule Name	String	Varchar	No	30					
4	rule_description	ruledesc	Description	Narrative Text	Varchar(max)	No	11					
5	data_approved_for_use	dataafuse	Ready to use?	Boolean	Bit	Yes	13					
6	most_recent_rule_comp_wlu	mrecentrulecwl	Most Recent Rule Component When Last Updated	Date/Time	Datetime	No	30					
7	dist_interp_md_iid	distinterpmdiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: distribution\_legend\_metadata  
Table Label: Distribution Legend Metadata

Table Physical Name: distlegendmd

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	dist_md_iid_ref	distmdiidref	Lineage	Integer	Int	Yes	11					
2	legend_iid_ref	liidref	Legend Rec ID	Integer	Int	Yes	13					
3	area_type_name	areatypename	Area Type Name	String	Varchar	No	30					
4	area_symbol	areasymbol	Area Symbol	String	Varchar	No	20					
5	area_name	areaname	Area Name	String	Varchar	No	30					
6	legend_description	legenddesc	Legend Description	String	Varchar	No	30					
7	soil_survey_area_status	ssastatus	Survey Status	Choice	Smallint	No	18					soil_survey_area_status
8	correlation_date	cordate	Correlation Date	Date/Time	Datetime	No	19					
9	legend_certification_status	legendcertstat	Legend Certification Status	Choice	Smallint	No	27					legend_certification_status
10	legend_suitability_for_use	legendsuituse	Geographic Applicability	Choice	Smallint	No	24					legend_suitability_for_use
11	export_certification_status	exportcertstatus	Export Certification Status	Choice	Smallint	No	30					export_certification_status
12	export_certification_date	exportcertdate	Export Certification Date	Date/Time	Datetime	No	25					
13	export_metadata	exportmetadata	Export Metadata	Narrative Text	Varchar(max)	No	15					
14	legend_when_last_updated	legendwupdated	Legend Last Updated	Date/Time	Datetime	No	19					
15	most_recent_dmu_wlu	mostrecentdmuwlu	Most Recent Data Mapunit When Last Updated	Date/Time	Datetime	No	30					
16	legend_total_mapunits	legendtotalmus	Legend Total Mapunits	Integer	Int	No	21					
17	total_exported_mapunits	totalexportmus	Total Exported Mapunits	Integer	Int	No	23					
18	legend_total_addtnl_mapunits	legendtotalamus	Legend Total Additional Mapunits	Integer	Int	No	30					
19	total_exported_addtnl_mapunits	totalexportamus	Total Exported Additional Mapunits	Integer	Int	No	30					
20	total_exported_data_mapunits	totalexportdmus	Total Exported Data Mapunits	Integer	Int	No	28					
21	dist_legend_md_iid	distlegendmdiid	Rec ID	Integer	Int	Yes	11					

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.



## NASIS 7.3.3 Tables and Columns

Table Logical Name: distribution\_mapunit\_metadata  
Table Label: Distribution Mapunit Metadata

Table Physical Name: distmapunitmd

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	dist_legend_md_iid_ref	distlegendmdiidref	Lineage	Integer	Int	Yes	11					
2	legend_iid_ref	liidref	Legend Rec ID	Integer	Int	Yes	13					
3	mapunit_iid_ref	muiidref	Mapunit Rec ID	Integer	Int	Yes	14					
4	mapunit_symbol	musym	Mapunit Symbol	String	Varchar	No	14					
5	mapunit_status	mustatus	Status	Choice	Smallint	No	11					mapunit_status
6	mapunit_name	muname	Mapunit Name	String	Varchar	No	30					
7	corr_to_mapunit_iid_ref	corrtoMuiidref	Correlated To Mapunit Rec ID	Integer	Int	No	28					
8	corr_to_mapunit_symbol	corrtoMusym	Correlated To Mapunit Symbol	String	Varchar	No	28					
9	corr_to_mapunit_status	corrtoMustatus	Correlated To Status	Choice	Smallint	No	20					mapunit_status
10	corr_to_mapunit_name	corrtoMuname	Correlated To Mapunit Name	String	Varchar	No	30					
11	data_mapunit_iid_ref	dmuiidref	Data Mapunit Rec ID	Integer	Int	No	19					
12	data_mapunit_description	dmudesc	DMU Description	String	Varchar	No	30					
13	dmu_certification_status	dmucertstat	DMU Certification Status	Choice	Smallint	No	30					dmu_certification_status
14	dmu_when_last_updated	dmuw/updated	Data Mapunit Last Updated	Date/Time	Datetime	No	25					
15	no_rep_dmu_reason	norepdmureason	No Representative Data Mapunit Reason	String	Varchar	No	30					
16	dist_mapunit_md_iid	distmumdliid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: distribution\_metadata

Table Physical Name: distmd

Table Label: Distribution Metadata

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	distribution_request_date	distreqdate	Distribution Request Date	Date/Time	Datetime	Yes	25					
2	user_name	username	NASIS User Name	String	Varchar	Yes	30					
3	user_e_mail_address	useremailaddr	E-mail Address	String	Varchar	Yes	30					
4	export_target	exporttarget	Export Target	Choice	Smallint	No	14					export_target
5	distribution_generation_date	distgendate	Distribution Generation Date	Date/Time	Datetime	No	28					
6	distribution_status	diststatus	Distribution Status	Choice	Smallint	Yes	20					distribution_status
7	interp_max_reasons	interpmaxreasons	Interpretation Maximum Reasons	Integer	Smallint	No	30	0				
8	mapunit_selection_criteria	muselectcrit	Mapunit Selection Criteria	Choice	Smallint	No	26					mapunit_selection_criteria
9	mapunit_status_provsnl_boolean	mustatprovsnlbool	Mapunit Status Provisional Boolean	Boolean	Bit	Yes	30					
10	mapunit_status_apprvd_boolean	mustatapprvdbool	Mapunit Status Approved Boolean	Boolean	Bit	Yes	30					
11	mapunit_status_corr_boolean	mustatcorrbool	Mapunit Status Correlated Boolean	Boolean	Bit	Yes	30					
12	mapunit_status_addtnl_boolean	mustataddtnlbool	Mapunit Status Additional Boolean	Boolean	Bit	Yes	30					
13	addtnl_mu_dmu_select_criteria	addtnlmudemuselcrit	Additional Mapunit Data Mapunit Selection Criteria	Choice	Smallint	No	30					addtnl_mu_dmu_select_criteria
14	component_selection_criteria	compselectcrit	Component Selection Criteria	Choice	Smallint	No	28					component_selection_criteria
15	minimum_percent_comp	minpctcomp	Minimum Percent Composition	Integer	Smallint	No	27	0		100		
16	dmu_selection_criteria	dmuselectcrit	Data Mapunit Selection Criteria	Choice	Smallint	No	30					data_mapunit_selection_criteria
17	dmu_dcs_notfordist_boolean	dmudcsnfdbool	DMU Cert Stat - Not For Distribution Boolean	Boolean	Bit	Yes	30					
18	dmu_dcs_notcert_boolean	dmudcsncbool	DMU Cert Stat - Not Certified Boolean	Boolean	Bit	Yes	30					
19	dmu_dcs_partcert_boolean	dmudcspcbool	DMU Cert Stat - Partly Certified Boolean	Boolean	Bit	Yes	30					
20	dmu_dcs_partcert_minda_boolean	dmudcspcmdbool	DMU Cert Stat - Partly Certified Min Data Boolean	Boolean	Bit	Yes	30					
21	dmu_dcs_partcert_majco_boolean	dmudcspcmcbbool	DMU Cert Stat - Partly Certified Major Comps Boolean	Boolean	Bit	Yes	30					
22	dmu_dcs_partcert_allco_boolean	dmudcspcacbool	DMU Cert Stat - Partly Certified All Comps Boolean	Boolean	Bit	Yes	30					
23	dmu_dcs_cert_boolean	dmudcscbool	DMU Cert Stat - Certified Boolean	Boolean	Bit	Yes	30					
24	dmu_dcs_cert_minda_boolean	dmudcscmdbool	DMU Cert Stat - Certified Min Data Boolean	Boolean	Bit	Yes	30					
25	dmu_dcs_cert_majco_boolean	dmudcscmcbbool	DMU Cert Stat - Certified Major Comps Boolean	Boolean	Bit	Yes	30					
26	dmu_dcs_cert_allco_boolean	dmudcscacbool	DMU Cert Stat - Certified All Comps Boolean	Boolean	Bit	Yes	30					
27	dist_database_iid_ref	distdbiidref	Distribution NASIS Site	Integer	Int	Yes	23					
28	group_iid_ref	grpriidref	NASIS Group	Integer	Int	Yes	11					
29	object_when_last_updated	objwupdated	Object Last Updated	Date/Time	Datetime	No	19					
30	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
31	dist_md_iid	distmdiid	Rec ID	Integer	Int	Yes	11					

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.

was ultimately processed.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: distribution\_text\_metadata  
Table Label: Distribution Text Metadata

Table Physical Name: disttextmd

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	dist_md_iid_ref	distmdiidref	Lineage	Integer	Int	Yes	11					
2	table_label	tablab	Table Label	String	Varchar	Yes	30					
3	text_kind_string	textkindstring	Text Kind String	String	Varchar	Yes	30					
4	dist_text_md_iid	disttextmdiid	Rec ID	Integer	Int	Yes	11					

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

### NASIS 7.3.3 Tables and Columns

Table Logical Name: data\_mapunit\_cert\_history  
Table Label: Data Mapunit Certification History

Table Physical Name: dmucerthistory

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	data_mapunit_iid_ref	dmuiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	reviewer_user_iid_ref	revieweruseridref	Reviewer	Integer	Int	No	11					
4	certification_date	certificationdate	Certification Date	Date/Time	Datetime	Yes	19					
5	certification_kind	certificationkind	Certification Kind	Choice	Smallint	Yes	18					certification_kind
6	dmu_certification_status	dmucertstat	DMU Certification Status	Choice	Smallint	Yes	30					dmu_certification_status
7	certification_text	certificationtext	Certification Text	Narrative Text	Varchar(max)	No	18					
8	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseridref	Record Last Updated By	Integer	Int	No	22					
10	dmu_cert_history_iid	dmucerthistoryiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: data\_mapunit\_crop\_yield  
Table Label: Data Mapunit Crop Yield

Table Physical Name: dmucropyld

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	data_mapunit_iid_ref	dmuiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	crop_name	cropname	Crop Name	Choice	Smallint	No	30					crop_name
4	crop_yield_units	yldunits	Units	Choice	Smallint	No	18					crop_yield_units
5	nonirr_crop_yield	nonirryield	Nirr Yield	Float	Real	No	10	2	0	9999.99		
6	irrigated_crop_yield	irryield	Irr Yield	Float	Real	No	9	2	0	9999.99		
7	crop_productivity_index	cropprodindex	Prod Index	Integer	Smallint	No	10		0	100		
8	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
10	dmu_crop_yield_iid	dmucropyldiid	Rec ID	Integer	Int	Yes	11					

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

### NASIS 7.3.3 Tables and Columns

Table Logical Name: data\_mapunit\_text  
Table Label: Data Mapunit Text

Table Physical Name: dmutext

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	data_mapunit_iid_ref	dmuiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	record_date	recdate	Date	Date/Time	Datetime	No	19					
4	record_author	recauthor	Author	String	Varchar	No	25					
5	data_mapunit_text_kind	dmutextkind	Kind	Choice	Smallint	No	24					data_mapunit_text_kind
6	text_category	textcat	Category	String	Varchar	No	20					
7	text_subcategory	textsubcat	Subcategory	String	Varchar	No	20					
8	text_entry	textentry	Text Entry	Narrative Text	Varchar(max)	No	10					
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	dmu_text_iid	dmutextiid	Rec ID	Integer	Int	Yes	11					

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 7.3.3 Tables and Columns

Table Logical Name: domain\_detail  
Table Label: Domain Detail

Table Physical Name: domaindetail

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	domain_iid_ref	domiidref	Lineage	Integer	Int	Yes	11					
2	choice_sequence	choseq	Sequence	Integer	Smallint	Yes	8					
3	choice_id	choid	ID	Integer	Int	Yes	11					
4	choice_data_entry_text	chodetxt	Data Entry Text	String	Varchar	Yes	30					
5	choice_label_text	cholabtxt	Label Text	String	Varchar	Yes	30					
6	choice_alternate_entry_text	choaltetxt	Alternate Entry Text	String	Varchar	No	30					
7	choice_description	chodesc	Description	Narrative Text	Varchar(max)	No	11					
8	choice_obsolete_boolean	choobbool	Obsolete?	Boolean	Bit	Yes	9					
9	originating_person	orgper	Originating Person	String	Varchar	No	30					
10	contact_person	conper	Contact Person	String	Varchar	No	30					
11	pending_action	pendact	Pending Action	Choice	Smallint	No	14					pending_action
12	pending_status	pendstat	Pending Status	Choice	Smallint	No	14					pending_status
13	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
14	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
15	domain_detail_iid	domdetiid	Rec ID	Integer	Int	Yes	11					

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.



## NASIS 7.3.3 Tables and Columns

Table Logical Name: domain\_group  
Table Label: Domain Group

Table Physical Name: domaingroup

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	domain_group_name	domgrpname	Domain Group Name	String	Varchar	Yes	30					
2	domain_group_description	domgrpdesc	Domain Group Description	Narrative Text	Varchar(max)	No	24					
3	domain_group_database_iid_ref	domgrpdbiidref	Domain Group NASIS Site	Integer	Int	Yes	23					
4	group_iid_ref	grpiidref	NASIS Group	Integer	Int	Yes	11					
5	object_when_last_updated	objwupdated	Object Last Updated	Date/Time	Datetime	No	19					
6	object_user_iid_ref	objuseriidref	Object Last Updated By	Integer	Int	No	22					
7	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
8	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
9	domain_group_iid	domgrpiid	Rec ID	Integer	Int	Yes	11					

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 7.3.3 Tables and Columns

Table Logical Name: domain\_history  
Table Label: Domain History

Table Physical Name: domainhist

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	domain_iid_ref	domiidref	Lineage	Integer	Int	Yes	11					
2	note_date	notedate	Date	Date/Time	Datetime	No	19					
3	notes	notes	Notes	Narrative Text	Varchar(max)	No	7					
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	domain_note_iid	domnoteiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: domain\_master  
Table Label: Domain

Table Physical Name: domainmaster

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	domain_group_iid_ref	domgrpiidref	Lineage	Integer	Int	Yes	11					
2	domain_name	domnm	Domain Name	String	Varchar	Yes	30					
3	domain_ordering	domording	Ordering	Choice	Smallint	Yes	8					domain_ordering
4	domain_ordered_boolean	domordbool	Ordered?	Boolean	Bit	Yes	8					
5	domain_display_label_boolean	domdlabbool	Display Label?	Boolean	Bit	Yes	14					
6	domain_customizable_boolean	domcustbool	Customizable?	Boolean	Bit	Yes	13					
7	domain_description	domdesc	Description	Narrative Text	Varchar(max)	No	11					
8	domain_id	domainid	Domain ID	Integer	Int	No	11					
9	originating_person	orgper	Originating Person	String	Varchar	No	30					
10	contact_person	conper	Contact Person	String	Varchar	No	30					
11	pending_action	pendact	Pending Action	Choice	Smallint	No	14					pending_action
12	pending_status	pendstat	Pending Status	Choice	Smallint	No	14					pending_status
13	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
14	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
15	domain_iid	domiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: domain\_detail\_history  
Table Label: Domain Detail History

Table Physical Name: domdethist

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	domain_detail_iid_ref	domdetiidref	Lineage	Integer	Int	Yes	11					
2	note_date	notedate	Date	Date/Time	Datetime	No	19					
3	notes	notes	Notes	Narrative Text	Varchar(max)	No	7					
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	domain_detail_note_iid	domdetnoteiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: dwr\_quadrat\_details

Table Physical Name: dwrquadratdetails

Table Label: Dry Weight Rank Quadrat Details

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	veg_trans_plant_summ_iid_ref	vegtransplantsummiiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	quadrat_number	quadrathnumber	Quadrat #	Integer	Int	Yes	9		1	999		
4	transect_point_location	transectpointlocation	Transect Point Location	Float	Real	No	23	1	0	1000	feet	
5	dwr_one	dwrone	DWR 1 ?	Boolean	Bit	Yes	7					
6	dwr_two	dwrtwo	DWR 2 ?	Boolean	Bit	Yes	7					
7	dwr_three	dwrthree	DWR 3 ?	Boolean	Bit	Yes	7					
8	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
10	dwr_quadrat_details_iid	dwrquaddetailsiid	Rec ID	Integer	Int	Yes	11					

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 7.3.3 Tables and Columns

Table Logical Name: ecological\_site  
Table Label: Ecological Site

Table Physical Name: ecologicalsite

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	ecological_site_id	ecositeid	Ecological Site ID	String	Char	Yes	18					
2	ecological_site_name	ecositenm	Ecological Site Name	String	Varchar	No	30					
3	ecological_site_origin	ecositeorigin	Ecological Site Origin	Choice	Smallint	No	22					ecological_site_origin
4	ecological_site_type	ecositetype	Ecological Site Type	Choice	Smallint	Yes	20					ecological_site_type
5	ecological_site_mlra	ecositemlra	Ecological Site MLRA	Choice	Smallint	Yes	20					ecological_site_mlra
6	ecological_site_lru	ecositelru	Ecological Site LRU	Choice	Smallint	Yes	19					ecological_site_lru
7	ecological_site_number	ecositenumber	Ecological Site Number	Integer	Smallint	Yes	22		0	999		
8	ecological_site_state	ecositestate	Ecological Site State	Choice	Smallint	Yes	21					state_alpha_fips_code
9	ecological_site_primary_name	ecositepnm	Ecological Site Primary Name	String	Varchar	No	30					
10	ecological_site_secondary_name	ecositesnm	Ecological Site Secondary Name	String	Varchar	No	30					
11	ecological_site_tertiary_name	ecositetnm	Ecological Site Tertiary Name	String	Varchar	No	30					
12	ecological_site_tree1	ecositetree1	Ecological Site Tree 1	String	Varchar	No	30					
13	ecological_site_tree2	ecositetree2	Ecological Site Tree 2	String	Varchar	No	30					
14	ecological_site_shrub1	ecositeshrub1	Ecological Site Shrub 1	String	Varchar	No	30					
15	ecological_site_shrub2	ecositeshrub2	Ecological Site Shrub 2	String	Varchar	No	30					
16	ecological_site_herb1	ecositeherb1	Ecological Site Herb 1	String	Varchar	No	30					
17	ecological_site_herb2	ecositeherb2	Ecological Site Herb 2	String	Varchar	No	30					
18	ecological_site_nasis_iid	ecositenasisiid	Ecological Site Nasis_IID	Integer	Smallint	No	25					
19	obsolete_term	obterm	Obsolete?	Boolean	Bit	Yes	9					
20	ecological_site_db_iid_ref	ecositedbiidref	Ecological Site NASIS Site	Integer	Int	Yes	26					
21	group_iid_ref	grpIIDref	NASIS Group	Integer	Int	Yes	11					
22	object_when_last_updated	objwupdated	Object Last Updated	Date/Time	Datetime	No	19					
23	object_user_iid_ref	objuseridref	Object Last Updated By	Integer	Int	No	22					
24	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
25	record_user_iid_ref	recuseridref	Record Last Updated By	Integer	Int	No	22					
26	ecological_site_iid	ecositeiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: edit\_setup  
Table Label: Edit Setup

Table Physical Name: editsetup

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	edit_setup_name	edtsuname	Table Layout Name	String	Varchar	Yes	30					
2	edit_setup_description	edtsudesc	Description	Narrative Text	Varchar(max)	No	11					
3	edit_setup_database_iid_ref	edtsudbiidref	Table Layout NASIS Site	Integer	Int	Yes	23					
4	group_iid_ref	grpbiidref	NASIS Group	Integer	Int	Yes	11					
5	object_when_last_updated	objwupdated	Object Last Updated	Date/Time	Datetime	No	19					
6	object_user_iid_ref	objuseriidref	Object Last Updated By	Integer	Int	No	22					
7	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
8	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
9	edit_setup_iid	edtsuiid	Rec ID	Integer	Int	Yes	11					

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 7.3.3 Tables and Columns

Table Logical Name: edit\_setup\_element

Table Physical Name: editsetupelement

Table Label: Edit Setup Element

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	edit_setup_table_iid_ref	edtsutabiidref	Edit Setup Table	Integer	Int	Yes	16					
2	element_iid	elm_iid	Element Internal ID	Integer	Int	Yes	19		1			
3	native_element_iid	natelm_iid	Native Element Internal ID	Integer	Int	No	26					
4	band_position	bandposition	Band Position	Integer	Int	Yes	13		0			
5	element_position	elmposition	Element Position	Integer	Smallint	Yes	16					
6	element_width	elmwidth	Element Width	Integer	Smallint	Yes	13					
7	element_sort_sequence	elmsortseq	Element Sort Sequence	Integer	Smallint	Yes	21					
8	element_sort_direction	elmsortdir	Element Sort Direction	String	Char	Yes	22					
9	edit_setup_element_iid	edtsuelmiid	Rec ID	Integer	Int	Yes	11					

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 through the edit setup editor.



## NASIS 7.3.3 Tables and Columns

Table Logical Name: edit\_setup\_table  
Table Label: Edit Setup Table

Table Physical Name: editsetuptable

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	edit_setup_iid_ref	edtsuieldref	Edit Setup	Integer	Int	Yes	11					
2	table_iid	tbl_iid	Table Internal ID	Integer	Int	Yes	17		1			
3	table_number_frozen_column	tabnumfrozcsls	Number of Frozen Columns	Integer	Smallint	Yes	24					
4	table_number_sort_columns	tabnumsortcsls	Number of Sort Columns	Integer	Smallint	Yes	22					
5	edit_setup_table_iid	edtsutabiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: evaluation  
Table Label: Evaluation

Table Physical Name: evaluation

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
2	evaluation_name	evalname	Evaluation Name	String	Varchar	Yes	30					
3	evaluation_description	evaldesc	Description	Narrative Text	Varchar(max)	No	11					
4	evaluation	eval	Evaluation	Evaluation	Varchar(max)	Yes	13					
5	evaluation_type	evaluationtype	Evaluation Type	Choice	Smallint	Yes	15					evaluation_type
6	use_property_domain	usepropertydomain	Use Property Domain?	Boolean	Bit	Yes	20					
7	invert_evaluation_results	invertevaluationresults	Invert Evaluation Results?	Boolean	Bit	Yes	26					
8	property_iid_ref	propiidref	Property	Integer	Int	Yes	11					
9	data_approved_for_use	dataafuse	Ready to use?	Boolean	Bit	Yes	13					
10	evaluation_database_iid_ref	evaldbiidref	Evaluation NASIS Site	Integer	Int	Yes	21					
11	group_iid_ref	grpriidref	NASIS Group	Integer	Int	Yes	11					
12	object_when_last_updated	objwlastupdated	Object Last Updated	Date/Time	Datetime	No	19					
13	object_user_iid_ref	objuseriidref	Object Last Updated By	Integer	Int	No	22					
14	record_when_last_updated	recwlastupdated	Record Last Updated	Date/Time	Datetime	No	19					
15	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
16	evaluation_iid	evaliid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: evaluation\_text  
Table Label: Evaluation Text

Table Physical Name: evaluationtext

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	evaluation_iid_ref	evaliidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	record_date	recdate	Date	Date/Time	Datetime	No	19					
4	record_author	recauthor	Author	String	Varchar	No	25					
5	text_kind	textkind	Kind	Choice	Smallint	No	19					text_kind_general
6	text_category	textcat	Category	String	Varchar	No	20					
7	text_subcategory	textsubcat	Subcategory	String	Varchar	No	20					
8	text_entry	textentry	Text Entry	Narrative Text	Varchar(max)	No	10					
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	evaluation_text_iid	evaltextiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: form  
Table Label: Form

Table Physical Name: form

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
2	form_name	formname	Form Name	String	Varchar	Yes	30					
3	form_description	formdesc	Description	Narrative Text	Varchar(max)	No	11					
4	form	form	Form	Query	Varchar(max)	Yes	8					
5	data_approved_for_use	dataafuse	Ready to use?	Boolean	Bit	Yes	13					
6	form_database_iid_ref	formdbiidref	Form NASIS Site	Integer	Int	Yes	16					
7	group_iid_ref	grpIidref	NASIS Group	Integer	Int	Yes	11					
8	object_when_last_updated	objwIupdated	Object Last Updated	Date/Time	Datetime	No	19					
9	object_user_iid_ref	objuserIidref	Object Last Updated By	Integer	Int	No	22					
10	record_when_last_updated	recwIupdated	Record Last Updated	Date/Time	Datetime	No	19					
11	record_user_iid_ref	recuserIidref	Record Last Updated By	Integer	Int	No	22					
12	form_iid	formIid	Rec ID	Integer	Int	Yes	11					

The form table contains queries and the owner of each form. 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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: form\_favorites  
Table Label: Form Favorites

Table Physical Name: formfavorites

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	user_iid_ref	useridref	NASIS User	Integer	Int	Yes	11					
2	form_iid_ref	formiidref	Form	Integer	Int	Yes	11					
3	form_favorite_iid	formfavoriteiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: form\_text  
Table Label: Form Text

Table Physical Name: formtext

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	form_iid_ref	formiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	record_date	recdate	Date	Date/Time	Datetime	No	19					
4	record_author	recauthor	Author	String	Varchar	No	25					
5	text_kind	textkind	Kind	Choice	Smallint	No	19					text_kind_general
6	text_category	textcat	Category	String	Varchar	No	20					
7	text_subcategory	textsubcat	Subcategory	String	Varchar	No	20					
8	text_entry	textentry	Text Entry	Narrative Text	Varchar(max)	No	10					
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	form_text_iid	formtextiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: frequency\_quadrat\_details

Table Physical Name: frequencyquadratdetails

Table Label: Frequency Quadrat Details

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	veg_trans_plant_summ_iid_ref	vegtransplantsummiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	quadrat_number	quadrathnumber	Quadrat #	Integer	Int	Yes	9		1	999		
4	transect_point_location	transectpointlocation	Transect Point Location	Float	Real	No	23	1	0	1000	feet	
5	species_present_indicator	speciespresentindicator	Species Present ?	Boolean	Bit	Yes	17					
6	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
7	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
8	freq_quadrat_details_iid	freqquaddetailsiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: geomorph\_feature  
Table Label: Geomorphic Feature

Table Physical Name: geomorfeat

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	geomorph_feat_type_iid_ref	geomftiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	geomorph_feat_name	geomfname	Feature Name (singular)	String	Varchar	Yes	30					
4	geomorph_feat_name_plural	geomfnamep	Feature Name (plural)	String	Varchar	No	30					
5	geomorph_feat_name_sp	geomfnamesp	Feature Name Spanish (singular)	String	Varchar	No	30					
6	geomorph_feat_name_plural_sp	geomfnamesps	Feature Name Spanish (plural)	String	Varchar	No	30					
7	geomorph_feat_description	geomfdesc	Description	Narrative Text	Varchar(max)	No	11					
8	obsolete_term	obterm	Obsolete?	Boolean	Bit	Yes	9					
9	field_code	fieldcode	Field Code	String	Varchar	No	10					
10	notes	notes	Notes	Narrative Text	Varchar(max)	No	7					
11	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
12	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
13	geomorph_feat_iid	geomflid	Rec ID	Integer	Int	Yes	11					

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 7.3.3 Tables and Columns

Table Logical Name: geomorph\_feat\_type

Table Physical Name: geomorfeatype

Table Label: Geomorphic Feature Type

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	geomorph_feat_type_name	geomftname	Feature Type	String	Varchar	Yes	30					
2	geomorph_feat_type_description	geomftdesc	Description	Narrative Text	Varchar(max)	No	11					
3	field_code	fieldcode	Field Code	String	Varchar	No	10					
4	notes	notes	Notes	Narrative Text	Varchar(max)	No	7					
5	geomorph_ft_database_iid_ref	geomftdbiidref	Geomorphic Feature Type NASIS Site	Integer	Int	Yes	30					
6	group_iid_ref	grpIIDref	NASIS Group	Integer	Int	Yes	11					
7	object_when_last_updated	objwIupdated	Object Last Updated	Date/Time	Datetime	No	19					
8	object_user_iid_ref	objuserIIDref	Object Last Updated By	Integer	Int	No	22					
9	record_when_last_updated	recwIupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuserIIDref	Record Last Updated By	Integer	Int	No	22					
11	geomorph_feat_type_iid	geomftiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: ground\_cover\_details

Table Physical Name: groundcovdetails

Table Label: Ground Cover Details

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	transect_gr_cov_iid_ref	transectgrcoviidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	transect_point_location	transectpointlocation	Transect Point Location	Float	Real	Yes	23	1	0	1000	feet	
4	quadrat_number	quadratnumber	Quadrat #	Integer	Int	No	9		1	999		
5	quadrat_cover_pct	quadratcoverpct	Quadrat Cover %	Integer	Smallint	No	15		0	100	percent	
6	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
7	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
8	ground_cov_details_iid	groundcovdetailsiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: ground\_surface\_cover\_details

Table Physical Name: groundsurfcovdetails

Table Label: Ground Surface Cover Details

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	transect_gr_surf_cov_iid_ref	transectgrsurfcoviidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	transect_point_location	transectpointlocation	Transect Point Location	Float	Real	Yes	23	1	0	1000	feet	
4	quadrat_number	quadratnumber	Quadrat #	Integer	Int	No	9		1	999		
5	quadrat_cover_pct	quadratcoverpct	Quadrat Cover %	Integer	Smallint	No	15		0	100	percent	
6	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
7	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
8	ground_surf_cov_details_iid	groundsurfcovdetailsiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: index\_detail  
Table Label: Index Detail

Table Physical Name: indexdetail

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	index_iid_ref	indexiidref	Lineage	Integer	Int	Yes	11					
2	system_table_iid_ref	systabiidref	System Table	Integer	Int	Yes	12					
3	index_column_sequence	indexcolumnseq	Index Column Sequence	Integer	Int	Yes	21					
4	table_column_iid_ref	tabcoliidref	Table Column	Integer	Int	Yes	12					
5	include_clause	includeclause	Include Clause Column?	Boolean	Bit	Yes	22					
6	nonnull_clause	nonnullclause	Not null clause column?	Boolean	Bit	Yes	23					
7	originating_person	orgper	Originating Person	String	Varchar	No	30					
8	contact_person	conper	Contact Person	String	Varchar	No	30					
9	pending_action	pendact	Pending Action	Choice	Smallint	No	14					pending_action
10	pending_status	pendstat	Pending Status	Choice	Smallint	No	14					pending_status
11	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
12	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
13	index_detail_iid	indexdetailiid	Rec ID	Integer	Int	Yes	11					

Index detail data

## NASIS 7.3.3 Tables and Columns

Table Logical Name: index\_detail\_history  
Table Label: Index Detail History

Table Physical Name: indexdetailhist

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	index_detail_iid_ref	indexdetailiidref	Lineage	Integer	Int	Yes	11					
2	note_date	notedate	Date	Date/Time	Datetime	No	19					
3	notes	notes	Notes	Narrative Text	Varchar(max)	No	7					
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	index_detail_note_iid	indexdetailnoteiid	Rec ID	Integer	Int	Yes	11					

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

# NASIS 7.3.3 Tables and Columns

Table Logical Name: index\_master  
Table Label: Index Master

Table Physical Name: indexmaster

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	system_table_iid_ref	systabiidref	Lineage	Integer	Int	Yes	11					
2	system_iid_ref	sysiidref	System	Integer	Int	Yes	11					
3	constraint_or_index_name	constraintorindexname	Constraint or Index Name	String	Varchar	No	30					
4	unique_index	uniqueindex	Unique Index?	Boolean	Bit	Yes	13					
5	foreign_key_index	foreignkeyindex	Foreign Key?	Boolean	Bit	Yes	12					
6	primary_index	primaryindex	Primary Index?	Boolean	Bit	Yes	14					
7	clustered_index	clusteredindex	Clustered Index	Boolean	Bit	Yes	15					
8	index_deferrable	indexdeferrable	Index Deferrable?	Boolean	Bit	Yes	17					
9	performance_index	performanceindex	Performance Index?	Boolean	Bit	Yes	18					
10	spatial_index	spatialindex	Spatial?	Boolean	Bit	Yes	8					
11	index_column_number	indexcolnum	Number of Columns	Integer	Int	No	17					
12	index_column_names	indexcolnames	Index Column Names	String	Varchar	No	30					
13	index_description	indexdesc	Index Description	String	Varchar	No	30					
14	index_id	indexid	Index ID	Integer	Int	No	11					
15	sql_advance_options	sqladvanceoptions	SQL Advance Options	Narrative Text	Varchar(max)	No	20					
16	originating_person	orgper	Originating Person	String	Varchar	No	30					
17	contact_person	conper	Contact Person	String	Varchar	No	30					
18	pending_action	pendact	Pending Action	Choice	Smallint	No	14					pending_action
19	pending_status	pendstat	Pending Status	Choice	Smallint	No	14					pending_status
20	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
21	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
22	index_iid	indexiid	Rec ID	Integer	Int	Yes	11					

Index master data

## NASIS 7.3.3 Tables and Columns

Table Logical Name: index\_master\_history

Table Physical Name: indexmasterhist

Table Label: Index Master History

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	index_iid_ref	indexiidref	Lineage	Integer	Int	Yes	11					
2	note_date	notedate	Date	Date/Time	Datetime	No	19					
3	notes	notes	Notes	Narrative Text	Varchar(max)	No	7					
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	index_note_iid	indexnoteiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: key\_range\_client  
Table Label: Key Range - Client

Table Physical Name: keyrangeclient

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	table_physical_name	tabphynm	Table Physical Name	String	Varchar	Yes	30					
2	next_key_value	nextkeyvalue	Next Key Value	Integer	Int	Yes	14					
3	range_end_value	rangeendvalue	Range End Value	Integer	Int	Yes	15					
4	reserve_key_range_start	reservekeyrangestart	Reserved Key Range Start	Integer	Int	Yes	24					
5	reserve_key_range_end	reservekeyrangeend	Reserve Key Range End	Integer	Int	Yes	21					

This table controls key assignment in a NASIS client database.



## NASIS 7.3.3 Tables and Columns

Table Logical Name: legend\_area\_overlap  
Table Label: Legend Area Overlap

Table Physical Name: laoverlap

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	legend_iid_ref	liidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	area_iid_ref	areaiidref	Area	Integer	Int	Yes	11					
4	area_overlap_acres	areaovacres	Overlap Acres	Integer	Int	No	13		0		acres	
5	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
6	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
7	legend_area_overlap_iid	lareaoviid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: legend\_cert\_history  
Table Label: Legend Certification History

Table Physical Name: lcerthistory

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	legend_iid_ref	liidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	reviewer_user_iid_ref	revieweruseridref	Reviewer	Integer	Int	No	11					
4	certification_date	certificationdate	Certification Date	Date/Time	Datetime	Yes	19					
5	certification_kind	certificationkind	Certification Kind	Choice	Smallint	Yes	18					certification_kind
6	legend_certification_status	legendcertstat	Legend Certification Status	Choice	Smallint	Yes	27					legend_certification_status
7	certification_text	certificationtext	Certification Text	Narrative Text	Varchar(max)	No	18					
8	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseridref	Record Last Updated By	Integer	Int	No	22					
10	legend_cert_history_iid	lcerthistoryiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: legend  
Table Label: Legend

Table Physical Name: legend

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	area_iid_ref	areaiidref	Area	Integer	Int	Yes	11					
2	soil_survey_area_status	ssastatus	Survey Status	Choice	Smallint	No	18					soil_survey_area_status
3	correlation_date	cordate	Correlation Date	Date/Time	Datetime	No	19					
4	legend_description	legenddesc	Legend Description	String	Varchar	No	30					
5	mlra_office	mlraoffice	MLRA Office	Choice	Smallint	No	26					mlra_office
6	mou_signed	mousigned	MOU Signed	Date/Time	Datetime	No	19					
7	mou_agency_responsible	mouagencyresp	MOU Agency Responsible	Choice	Smallint	No	22					mou_agency_responsible
8	mou_projected_completion	mouprojcomp	MOU Projected Completion	Date/Time	Datetime	No	24					
9	project_scale	projectscale	Project Scale	Integer	Int	No	13					
10	legend_suitability_for_use	legendsuituse	Geographic Applicability	Choice	Smallint	No	24					legend_suitability_for_use
11	legend_database_iid_ref	ldbiiidref	Legend NASIS Site	Integer	Int	Yes	17					
12	group_iid_ref	grpriidref	NASIS Group	Integer	Int	Yes	11					
13	object_when_last_updated	objwupdated	Object Last Updated	Date/Time	Datetime	No	19					
14	object_user_iid_ref	objuseriidref	Object Last Updated By	Integer	Int	No	22					
15	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
16	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
17	legend_iid	liid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: legend\_export\_cert\_history

Table Physical Name: lexportcerthistory

Table Label: Legend Export Certification History

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	legend_iid_ref	liidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	reviewer_user_iid_ref	revieweruseridref	Reviewer	Integer	Int	No	11					
4	export_certification_date	exportcertdate	Export Certification Date	Date/Time	Datetime	Yes	25					
5	export_certification_status	exportcertstatus	Export Certification Status	Choice	Smallint	Yes	30					export_certification_status
6	export_metadata	exportmetadata	Export Metadata	Narrative Text	Varchar(max)	No	15					
7	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
8	record_user_iid_ref	recuseridref	Record Last Updated By	Integer	Int	No	22					
9	legend_export_cert_history_iid	lexportcerthistoryiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: legend\_mapunit  
Table Label: Legend Mapunit

Table Physical Name: lmapunit

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	legend_iid_ref	liidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	mapunit_symbol	musym	Mapunit Symbol	String	Varchar	Yes	14					
4	mapunit_iid_ref	muiidref	Mapunit	Integer	Int	Yes	11					
5	mapunit_status	mustatus	Status	Choice	Smallint	Yes	11					mapunit_status
6	mapunit_acres	muacres	Total Acres	Integer	Int	No	11		0		acres	
7	farmland_classification	farlndcl	Farm Class	Choice	Smallint	No	10					farmland_classification
8	farmland_class_secondary	farlndclsec	Secondary Farm Class	Choice	Smallint	No	20					farmland_class_secondary
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	legend_mapunit_iid	lmapunitiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: legend\_mapunit\_area\_overlap  
Table Label: Legend Mapunit Area Overlap

Table Physical Name: Imuaoverlap

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	legend_area_overlap_iid_ref	lareaoviidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	legend_mapunit_iid_ref	lmapunitiidref	Legend Mapunit	Integer	Int	Yes	14					
4	legend_iid_ref	liidref	Legend	Integer	Int	Yes	11					
5	area_overlap_acres	areaovacres	Overlap Acres	Integer	Int	No	13		0		acres	
6	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
7	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
8	legend_mu_area_overlap_iid	lmuareaoviid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: legend\_mapunit\_history  
Table Label: Legend Mapunit History

Table Physical Name: Imuhistory

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	legend_mapunit_iid_ref	lmapunitidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	record_date	recdate	Date	Date/Time	Datetime	Yes	19					
4	record_author	recauthor	Author	String	Varchar	No	25					
5	correlation_kind	corkind	Correlation Kind	Choice	Smallint	No	30					correlation_kind
6	correlation_event	corevent	Correlation Event	Choice	Smallint	No	24					correlation_event
7	mapunit_name_historical	munamehist	Historical Name	String	Varchar	No	30					
8	mapunit_status_historical	mustathist	Historical Status	Choice	Smallint	No	17					mapunit_status
9	text_entry	textentry	Text Entry	Narrative Text	Varchar(max)	No	10					
10	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
11	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
12	legend_mapunit_history_iid	lmuhistoryiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: legend\_mapunit\_text  
Table Label: Legend Mapunit Text

Table Physical Name: Imutext

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	legend_mapunit_iid_ref	lmapunitidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	record_date	recdate	Date	Date/Time	Datetime	No	19					
4	record_author	recauthor	Author	String	Varchar	No	25					
5	legend_mapunit_text_kind	lmutextkind	Kind	Choice	Smallint	No	24					legend_mapunit_text_kind
6	text_category	textcat	Category	String	Varchar	No	20					
7	text_subcategory	textsubcat	Subcategory	String	Varchar	No	20					
8	text_entry	textentry	Text Entry	Narrative Text	Varchar(max)	No	10					
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	legend_mapunit_text_iid	lmutextiid	Rec ID	Integer	Int	Yes	11					

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



## NASIS 7.3.3 Tables and Columns

Table Logical Name: local\_plant  
Table Label: Local Plant

Table Physical Name: localplant

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	local_plant_name	lplantname	Common Name	String	Varchar	Yes	30					
2	plant_iid_ref	plantiidref	Plant	Integer	Int	Yes	11					
3	obsolete_term	obterm	Obsolete?	Boolean	Bit	Yes	9					
4	local_plant_database_iid_ref	lplantdbiidref	Local Plant NASIS Site	Integer	Int	Yes	22					
5	group_iid_ref	grpIIDref	NASIS Group	Integer	Int	Yes	11					
6	object_when_last_updated	objwIupdated	Object Last Updated	Date/Time	Datetime	No	19					
7	object_user_iid_ref	objuseriidref	Object Last Updated By	Integer	Int	No	22					
8	record_when_last_updated	recwIupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
10	local_plant_iid	lplantiid	Rec ID	Integer	Int	Yes	11					

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 release.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: local\_plant\_area\_occurrence  
Table Label: Local Plant Area Occurrence

Table Physical Name: lpaoccurrence

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	local_plant_iid_ref	lplantiidref	Lineage	Integer	Int	Yes	11					
2	area_iid_ref	areaiidref	Area	Integer	Int	Yes	11					
3	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
4	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
5	lplant_area_occurrence_iid	lplantareaoccurrenceiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: legend\_text  
Table Label: Legend Text

Table Physical Name: ltext

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	legend_iid_ref	liidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	record_date	recdate	Date	Date/Time	Datetime	No	19					
4	record_author	recauthor	Author	String	Varchar	No	25					
5	legend_text_kind	legendtextkind	Kind	Choice	Smallint	No	24					legend_text_kind
6	text_category	textcat	Category	String	Varchar	No	20					
7	text_subcategory	textsubcat	Subcategory	String	Varchar	No	20					
8	text_entry	textentry	Text Entry	Narrative Text	Varchar(max)	No	10					
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	legend_text_iid	legtextiid	Rec ID	Integer	Int	Yes	11					

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.

### NASIS 7.3.3 Tables and Columns

Table Logical Name: mapunit  
Table Label: Mapunit

Table Physical Name: mapunit

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	mapunit_name	muname	Mapunit Name	String	Varchar	No	30					
2	mapunit_kind	mukind	Kind	Choice	Smallint	No	22					mapunit_kind
3	mapunit_type	mutype	Mapunit Type	Choice	Smallint	No	17					mapunit_type
4	national_mapunit_symbol	nationalmusym	National Mapunit Symbol	String	Varchar	Yes	23					
5	mapunit_linear_feature_width	mapunitlfw	Linear Feature Width	Integer	Smallint	No	20				meters	
6	mapunit_point_feature_area	mapunitpfa	Point Feature Area	Float	Real	No	18	1	0.1	10	acres	
7	usfs_mapunit_concept	usfsmuconcept	USFS Map Unit Concept	Narrative Text	Varchar(max)	No	21					
8	mapunit_database_id_ref	mudbidref	Mapunit NASIS Site	Integer	Int	Yes	18					
9	group_id_ref	grpildref	NASIS Group	Integer	Int	Yes	11					
10	object_when_last_updated	objwupdated	Object Last Updated	Date/Time	Datetime	No	19					
11	object_user_id_ref	objuseridref	Object Last Updated By	Integer	Int	No	22					
12	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
13	record_user_id_ref	recuseridref	Record Last Updated By	Integer	Int	No	22					
14	mapunit_id	muid	Rec ID	Integer	Int	Yes	11					

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.

NASIS 7.3.3 Tables and Columns

Table Logical Name: MetadataAlignment

Table Physical Name: MetadataAlignment

Table Label: Alignment Metadata

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	Alignment	Alignment	Alignment	Choice	Smallint	Yes	16					Alignment (NASIS 6 metadata)
2	AlignmentName	AlignmentName	Alignment Name	Choice	Varchar	Yes	16					

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

NASIS 7.3.3 Tables and Columns

Table Logical Name: MetadataCardinality

Table Physical Name: MetadataCardinality

Table Label: Cardinality Metadata

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	Cardinality	Cardinality	Cardinality	Choice	Smallint	Yes	16					Cardinality (NASIS 6 metadata)
2	CardinalityName	CardinalityName	Cardinality Name	Choice	Varchar	Yes	16					Cardinality (NASIS 6 metadata)

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: MetadataColumnLookup

Table Physical Name: MetadataColumnLookup

Table Label: Column Lookup Metadata

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	TableID	TableID	Table ID	Integer	Int	Yes	11					
2	ColumnID	ColumnID	Column ID	Integer	Int	Yes	11					
3	TableColumnSequence	TableColumnSequence	Table Column Sequence	Integer	Smallint	Yes	21					
4	RelationshipID	RelationshipID	Relationship ID	Integer	Int	Yes	15					
5	DisplaySequence	DisplaySequence	Display Sequence	Integer	Smallint	Yes	16					
6	Branch	Branch	Branch	Integer	Int	Yes	11					
7	DisplayTableID	DisplayTableID	Display Table ID	Integer	Int	No	16					
8	DisplayColumnID	DisplayColumnID	DisplayColumn ID	Integer	Int	No	16					
9	DisplayTableColumnSequence	DisplayTableColumnSequence	Display Table Column Sequence	Integer	Smallint	No	29					
10	DisplayColumnLabel	DisplayColumnLabel	Display Column Label	String	Varchar	No	30					
11	DisplayOnlyInChoiceList	DisplayOnlyInChoiceList	Display Only in Choice List?	Boolean	Smallint	Yes	28					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: MetadataDatetimePrecision

Table Physical Name: MetadataDatetimePrecision

Table Label: Datetime Precision Metadata

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	DatetimePrecision	DatetimePrecision	Datetime Precision	Choice	Smallint	Yes	18					Datetime Precision (NASIS 6 Metadata)
2	DatetimePrecisionName	DatetimePrecisionName	Datetime Precision Name	Choice	Varchar	Yes	23					

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



## NASIS 7.3.3 Tables and Columns

Table Logical Name: MetadataDefaultType

Table Physical Name: MetadataDefaultType

Table Label: Default Type Metadata

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	DefaultType	DefaultType	Default Type	Choice	Smallint	Yes	30					Default Type (NASIS 6 metadata)
2	DefaultTypeName	DefaultTypeName	Default Type Name	Choice	Varchar	Yes	30					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: MetadataDomainDetail

Table Physical Name: MetadataDomainDetail

Table Label: Domain Detail Metadata

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	DomainID	DomainID	Domain ID	Integer	Int	Yes	11					
2	ChoiceSequence	ChoiceSequence	Choice Sequence	Integer	Smallint	Yes	15					
3	ChoiceValue	ChoiceValue	Choice Value	Integer	Smallint	Yes	12					
4	ChoiceName	ChoiceName	Choice Name	String	Varchar	Yes	30					
5	ChoiceLabel	ChoiceLabel	Choice Label	String	Varchar	Yes	30					
6	ChoiceDescription	ChoiceDescription	Choice Description	Narrative Text	Varchar(max)	No	18					
7	ChoiceObsolete	ChoiceObsolete	Obsolete Choice?	Boolean	Smallint	Yes	16					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: MetadataDomainMaster

Table Physical Name: MetadataDomainMaster

Table Label: Domain Master Metadata

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	DomainID	DomainID	Domain ID	Integer	Int	Yes	11					
2	DomainName	DomainName	Domain Name	String	Varchar	Yes	30					
3	DomainRanked	DomainRanked	Domain Ranked?	Boolean	Smallint	Yes	14					
4	DisplayLabel	DisplayLabel	Display Label?	Boolean	Smallint	Yes	14					
5	DomainCustomizable	DomainCustomizable	Domain Customizable?	Boolean	Smallint	Yes	20					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: MetadataIndexDetail

Table Physical Name: MetadataIndexDetail

Table Label: Index Detail Metadata

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	IndexID	IndexID	Index ID	Integer	Int	Yes	11					
2	IndexColumnSequence	IndexColumnSequence	Index Column Sequence	Integer	Smallint	Yes	21					
3	TableID	TableID	Table ID	Integer	Int	Yes	11					
4	ColumnID	ColumnID	Column ID	Integer	Int	Yes	11					
5	TableColumnSequence	TableColumnSequence	Table Column Sequence	Integer	Smallint	Yes	21					

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

### NASIS 7.3.3 Tables and Columns

Table Logical Name: MetadataIndexMaster

Table Physical Name: MetadataIndexMaster

Table Label: Index Master Metadata

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	IndexID	IndexID	Index ID	Integer	Int	Yes	11					
2	TableID	TableID	Table ID	Integer	Int	Yes	11					
3	ConstraintOrIndexName	ConstraintOrIndexName	Constraint or Index Name	String	Varchar	Yes	30					
4	UniqueIndex	UniqueIndex	Unique Index?	Boolean	Smallint	Yes	13					
5	PrimaryIndex	PrimaryIndex	Primary Index?	Boolean	Smallint	Yes	14					
6	ConstraintDeferrable	ConstraintDeferrable	Constraint Deferrable?	Boolean	Smallint	Yes	22					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: MetadataLogicalDataType

Table Physical Name: MetadataLogicalDataType

Table Label: Logical Data Type Metadata

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	LogicalDataType	LogicalDataType	Logical Data Type	Choice	Smallint	Yes	21					Logical Data Type (NASIS 6 metadata)
2	LogicalDataTypeName	LogicalDataTypeName	Logical Data Type Name	Choice	Varchar	Yes	22					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: MetadataPhysicalDataType

Table Physical Name:

MetadataPhysicalDataType

Table Label: Physical Data Type Metadata

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	PhysicalDataType	PhysicalDataType	Physical Data Type	Choice	Smallint	Yes	18					Physical Data Type (NASIS 6 metadata)
2	PhysicalDataTypeName	PhysicalDataTypeName	Physical Data Type Name	Choice	Varchar	Yes	23					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: MetadataRelationshipDetail

Table Physical Name: MetadataRelationshipDetail

Table Label: Relationship Detail Metadata

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	RelationshipID	RelationshipID	Relationship ID	Integer	Int	Yes	15					
2	LeftTableID	LeftTableID	Left Table ID	Integer	Int	Yes	13					
3	LeftColumnID	LeftColumnID	Left Column ID	Integer	Int	Yes	14					
4	LeftTableColumnSequence	LeftTableColumnSequence	Left Table Column Sequence	Integer	Smallint	Yes	26					
5	RightTableID	RightTableID	Right Table ID	Integer	Int	Yes	14					
6	RightColumnID	RightColumnID	Right Column ID	Integer	Int	Yes	15					
7	RightTableColumnSequence	RightTableColumnSequence	Right Table Column Sequence	Integer	Smallint	Yes	27					

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.



## NASIS 7.3.3 Tables and Columns

Table Logical Name: MetadataRelationshipMaster

Table Physical Name: MetadataRelationshipMaster

Table Label: Relationship Master Metadata

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	RelationshipID	RelationshipID	Relationship ID	Integer	Int	Yes	15					
2	LeftTableID	LeftTableID	Left Table ID	Integer	Int	Yes	13					
3	RightTableID	RightTableID	Right Table ID	Integer	Int	Yes	14					
4	RelationshipName	RelationshipName	Relationship Name	String	Varchar	Yes	30					
5	ForeignKeyConstraintName	ForeignKeyConstraintName	Foreign Key Constraint Name	String	Varchar	Yes	30					
6	Cardinality	Cardinality	Cardinality	Choice	Smallint	Yes	16					Cardinality (NASIS 6 metadata)
7	CardinalityMinimum	CardinalityMinimum	Cardinality Minimum	Integer	Smallint	Yes	19		0	1		
8	CardinalityMaximum	CardinalityMaximum	Cardinality Maximum	Integer	Smallint	Yes	19		-1			
9	Mandatory	Mandatory	Mandatory?	Boolean	Smallint	Yes	10					
10	DeleteFail	DeleteFail	Delete Fail?	Boolean	Smallint	Yes	12					
11	InHierarchy	InHierarchy	In Hierarchy?	Boolean	Smallint	Yes	13					
12	FavoriteChild	FavoriteChild	Favorite Child?	Boolean	Smallint	Yes	15					
13	LoadFindRelated	LoadFindRelated	Load/Find Related?	Boolean	Smallint	Yes	18					
14	Paste	Paste	Paste?	Boolean	Smallint	Yes	6					
15	ConstraintDeferrable	ConstraintDeferrable	Constraint Deferrable?	Boolean	Smallint	Yes	22					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: MetadataSortDirection

Table Physical Name: MetadataSortDirection

Table Label: Sort Direction Metadata

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	SortDirection	SortDirection	Sort Direction	Choice	Smallint	Yes	14					Sort Direction (NASIS 6 metadata)
2	SortDirectionName	SortDirectionName	Sort Direction Name	Choice	Varchar	Yes	19					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: MetadataSortType

Table Physical Name: MetadataSortType

Table Label: Sort Type Metadata

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	SortType	SortType	Sort Type	Choice	Smallint	Yes	29					Sort Type (NASIS 6 metadata)
2	SortTypeName	SortTypeName	Sort Type Name	Choice	Varchar	Yes	29					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: MetadataTable  
Table Label: Table Metadata

Table Physical Name: MetadataTable

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	TableID	TableID	Table ID	Integer	Int	Yes	11					
2	TablePhysicalName	TablePhysicalName	Table Physical Name	String	Varchar	Yes	30					
3	TableLogicalName	TableLogicalName	Table Logical Name	String	Varchar	Yes	30					
4	TableLabel	TableLabel	Table Label	String	Varchar	Yes	30					
5	TableDescription	TableDescription	Table Description	Narrative Text	Varchar(max)	Yes	17					
6	ImportExportFileName	ImportExportFileName	Import/Export File Name	String	Varchar	Yes	30					
7	TableCollectionID	TableCollectionID	Table Collection ID	Integer	Int	No	19					
8	DAGLevel	DAGLevel	Directed Acyclic Graph Level	Integer	Smallint	Yes	28					
9	Visible	Visible	Visible?	Boolean	Smallint	Yes	8					
10	Selectable	Selectable	Selectable?	Boolean	Smallint	Yes	11					
11	Editable	Editable	Editable?	Boolean	Smallint	Yes	9					
12	NoInsertOrDelete	NoInsertOrDelete	No Insert or Delete?	Boolean	Smallint	Yes	20					
13	RootTable	RootTable	Root Table?	Boolean	Smallint	Yes	11					
14	CreateAsView	CreateAsView	Create As View?	Boolean	Smallint	Yes	15					
15	ClientDatabaseOnly	ClientDatabaseOnly	Client Database Only	Boolean	Smallint	Yes	20					
16	ServerDatabaseOnly	ServerDatabaseOnly	Server Database Only	Boolean	Smallint	Yes	20					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: MetadataTableCollection

Table Physical Name: MetadataTableCollection

Table Label: Table Collection Metadata

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	TableCollectionID	TableCollectionID	Table Collection ID	Integer	Int	Yes	19					
2	TableCollectionName	TableCollectionName	Table Collection Name	String	Varchar	Yes	30					
3	TableCollectionSequence	TableCollectionSequence	Table Collection Sequence	Integer	Smallint	Yes	25		1			
4	TableCollectionInsertSequence	TableCollectionInsertSequence	TableCollectionInsertSequence	Integer	Smallint	No	29					
5	RestrictedNASISSiteID	RestrictedNASISSiteID	Restricted NASIS Site ID	Integer	Smallint	No	24					
6	NonRestrictedVisible	NonRestrictedVisible	Non-restricted Visible?	Boolean	Smallint	Yes	23					
7	LoadAll	LoadAll	Load All?	Boolean	Smallint	Yes	9					
8	VisibleInGridEditor	VisibleInGridEditor	Visible in Grid Editor?	Boolean	Smallint	Yes	23					
9	SelectableForReplication	SelectableForReplication	Selectable for Replication?	Boolean	Smallint	Yes	27					
10	Autoreplicate	Autoreplicate	Autoreplicate?	Boolean	Smallint	No	14					
11	CustomizationQuery	CustomizationQuery	Customization Query	Narrative Text	Varchar(max)	No	19					
12	CustomizationColumnID	CustomizationColumnID	Customization Column ID	Integer	Int	No	23					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: MetadataTableColumn

Table Physical Name:

MetadataTableColumn

Table Label: Table Column Metadata

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	TableID	TableID	Table ID	Integer	Int	Yes	11					
2	ColumnID	ColumnID	Column ID	Integer	Int	Yes	11					
3	TableColumnSequence	TableColumnSequence	Table Column Sequence	Integer	Smallint	Yes	21					
4	BaseColumnPhysicalName	BaseColumnPhysicalName	Base Column Physical Name	String	Varchar	Yes	30					
5	ColumnPhysicalName	ColumnPhysicalName	Column Physical Name	String	Varchar	Yes	30					
6	ColumnLogicalName	ColumnLogicalName	Column Logical Name	String	Varchar	Yes	30					
7	ColumnGroupLabel	ColumnGroupLabel	Column Group Label	String	Varchar	No	30					
8	ColumnLabel	ColumnLabel	Column Label	String	Varchar	Yes	30					
9	PhysicalDataType	PhysicalDataType	Physical Data Type	Choice	Smallint	Yes	18					Physical Data Type (NASIS 6 metadata)
10	LogicalDataType	LogicalDataType	Logical Data Type	Choice	Smallint	Yes	21					Logical Data Type (NASIS 6 metadata)
11	DomainID	DomainID	Domain ID	Integer	Int	No	11					
12	ColumnDescription	ColumnDescription	Column Description	Narrative Text	Varchar(max)	Yes	18					
13	ColumnHelpText	ColumnHelpText	Column Help Text	Narrative Text	Varchar(max)	No	16					
14	FieldSize	FieldSize	Field Size	Integer	Smallint	No	10					
15	DecimalPrecision	DecimalPrecision	Decimal Precision	Integer	Smallint	No	17					
16	DatetimePrecision	DatetimePrecision	Datetime Precision	Choice	Smallint	No	18					Datetime Precision (NASIS 6 Metadata)
17	<b>Min</b>	<b>Min</b>	<b>Min</b>	Float	Float	No	17	2				
18	<b>Max</b>	<b>Max</b>	<b>Max</b>	Float	Float	No	17	2				
19	DefaultType	DefaultType	Default Type	Choice	Smallint	No	30					Default Type (NASIS 6 metadata)
20	DefaultValue	DefaultValue	Default Value	String	Varchar	No	30					
21	Alignment	Alignment	Alignment	Choice	Smallint	No	16					Alignment (NASIS 6 metadata)
22	DisplaySize	DisplaySize	Display Size	Integer	Smallint	No	12		0	255		
23	SortSequence	SortSequence	Sort Sequence	Integer	Smallint	No	13					
24	SortType	SortType	Sort Type	Choice	Smallint	No	29					Sort Type (NASIS 6 metadata)
25	SortDirection	SortDirection	Sort Direction	Choice	Smallint	No	14					Sort Direction (NASIS 6 metadata)
26	UnitsOfMeasureUnabbreviated	UnitsOfMeasureUnabbreviated	Units of Measure Unabbreviated	String	Varchar	No	30					
27	UnitsOfMeasureAbbreviated	UnitsOfMeasureAbbreviated	Units of Measure Abbreviated	String	Varchar	No	30					
28	NotNull	NotNull	Not Null?	Boolean	Smallint	Yes	9					
29	Visible	Visible	Visible?	Boolean	Smallint	Yes	8					
30	Protected	Protected	Protected?	Boolean	Smallint	Yes	10					
31	SetDefaultOnObjectChange	SetDefaultOnObjectChange	Set Default on Object Change?	Boolean	Smallint	Yes	29					
32	SetDefaultOnRowChange	SetDefaultOnRowChange	Set Default on Row Change?	Boolean	Smallint	Yes	26					
33	IncludeInReplicationSelectList	IncludeInReplicationSelectList	Include in Replication Select List?	Boolean	Smallint	Yes	30					
34	FileContentColumnID	FileContentColumnID	File Content Column ID	Integer	Int	No	22					

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



## NASIS 7.3.3 Tables and Columns

Table Logical Name: MetadataVersion

Table Physical Name: MetadataVersion

Table Label: Version Metadata

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	DatabaseDataModelVersion	DatabaseDataModelVersion	Database Data Model Version	String	Varchar	Yes	27					
2	DatabaseLastAltered	DatabaseLastAltered	Database Last Altered	Date/Time	Datetime	Yes	21					
3	DatabaseDataModelLog	DatabaseDataModelLog	Database Data Model Log	Narrative Text	Varchar(max)	Yes	23					
4	MetadataDataModelVersion	MetadataDataModelVersion	Metadata Data Model Version	String	Varchar	Yes	27					
5	MetadataLastUpdated	MetadataLastUpdated	Metadata Last Updated	Date/Time	Datetime	Yes	21					
6	MetadataDataModelLog	MetadataDataModelLog	Metadata Data Model Log	Narrative Text	Varchar(max)	Yes	23					

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 7.3.3 Tables and Columns

Table Logical Name: milestone\_type  
Table Label: Milestone Type

Table Physical Name: milestonetype

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	milestone_type_name	milestonetypename	Milestone Type Name	String	Varchar	Yes	30					
2	milestone_type_description	milestonetypedesc	Description	String	Varchar	No	30					
3	obsolete_term	obterm	Obsolete?	Boolean	Bit	Yes	9					
4	milestone_type_db_iid_ref	milestonetypedbiidref	Milestone Type NASIS Site	Integer	Int	Yes	25					
5	group_iid_ref	grpiidref	NASIS Group	Integer	Int	Yes	11					
6	object_when_last_updated	objwupdated	Object Last Updated	Date/Time	Datetime	No	19					
7	object_user_iid_ref	objuseriidref	Object Last Updated By	Integer	Int	No	22					
8	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
10	milestone_type_iid	milestonetypeiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: mapunit\_history  
Table Label: Mapunit History

Table Physical Name: muhistory

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	mapunit_iid_ref	muiddref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	record_date	recdate	Date	Date/Time	Datetime	No	19					
4	record_author	recauthor	Author	String	Varchar	No	25					
5	correlation_kind	corkind	Correlation Kind	Choice	Smallint	No	30					correlation_kind
6	correlation_event	corevent	Correlation Event	Choice	Smallint	No	24					correlation_event
7	mapunit_name_historical	munamehist	Historical Name	String	Varchar	No	30					
8	mapunit_status_historical	mustathist	Status (obsolete)	Choice	Smallint	No	17					mapunit_status
9	text_entry	textentry	Text Entry	Narrative Text	Varchar(max)	No	10					
10	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
11	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
12	mapunit_history_iid	muhistiid	Rec ID	Integer	Int	Yes	11					

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.

### NASIS 7.3.3 Tables and Columns

Table Logical Name: mapunit\_text  
Table Label: Mapunit Text

Table Physical Name: mutext

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	mapunit_iid_ref	muilidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	record_date	recdate	Date	Date/Time	Datetime	No	19					
4	record_author	recauthor	Author	String	Varchar	No	25					
5	mapunit_text_kind	mapunittextkind	Kind	Choice	Smallint	No	24					mapunit_text_kind
6	text_category	textcat	Category	String	Varchar	No	20					
7	text_subcategory	textsubcat	Subcategory	String	Varchar	No	20					
8	text_entry	textentry	Text Entry	Narrative Text	Varchar(max)	No	10					
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	mapunit_text_iid	mutextiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: mapunit\_usfs\_eco\_class

Table Physical Name: muusfsecoclass

Table Label: Mapunit USFS Ecological Classification

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	mapunit_iid_ref	muidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	usfs_eco_class_iid_ref	usfseciidref	USFS Ecological Classification	Integer	Int	Yes	30					
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	mapunit_usfs_eco_class_iid	muusfsecoclsiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: mapunit\_usfs\_interpretation  
Table Label: Mapunit USFS Interpretation

Table Physical Name: muusfsinterp

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	mapunit_iid_ref	muuidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	usfs_interp_iid_ref	usfsinterp_iidref	USFS Interpretation	Integer	Int	Yes	19					
4	usfs_irclass_iid_ref	usfsirclass_iidref	USFS Interpretation Rating Class	Integer	Int	No	30					
5	usfs_irating_numeric_value	usfsirnumval	USFS Interpretation Rating Numeric Value	Float	Float	No	30	2				
6	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
7	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
8	mapunit_usfs_interp_iid	muusfsinterp_iid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: mapunit\_usfs\_interp\_restrict

Table Physical Name: muusfsirestrict

Table Label: Mapunit USFS Interpretation Restriction

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	mapunit_usfs_interp_iid_ref	muusfsinterpiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	usfs_irestriction_iid_ref	usfsirstrctiidref	USFS Interpretation Restriction	Integer	Int	Yes	30					
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	mapunit_usfs_irestrict_iid	muusfsirestrictiid	Rec ID	Integer	Int	Yes	11					

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.

### NASIS 7.3.3 Tables and Columns

Table Logical Name: nasis\_group  
Table Label: NASIS Group

Table Physical Name: nasisgroup

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	nasissiteiid_ref	nasissiteiidref	Lineage	Integer	Int	Yes	11					
2	group_name	grpname	NASIS Group Name	String	Varchar	Yes	30					
3	group_description	grpdesc	Description	String	Varchar	No	30					
4	group_contact	grpcontact	Contact	String	Varchar	No	30					
5	group_phone	grpphone	Phone	String	Varchar	No	20					
6	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
7	group_iid	grpiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: nasis\_group\_member

Table Physical Name: nasisgroupmember

Table Label: NASIS Group Member

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	group_iid_ref	grpiidref	Lineage	Integer	Int	Yes	11					
2	user_iid_ref	useriidref	NASIS User	Integer	Int	Yes	11					
3	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
4	group_member_iid	grpmemiid	Rec ID	Integer	Int	Yes	11					

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 7.3.3 Tables and Columns

Table Logical Name: nasis\_session  
Table Label: NASIS Session

Table Physical Name: nasissession

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	user_iid_ref	useridref	NASIS User	Integer	Int	Yes	11					
2	session_passcode	sessionpasscode	Session Passcode	String	Char	Yes	30					
3	session_commenced	sessioncommenced	Session Commenced	Date/Time	Datetime	Yes	19					
4	session_expires	sessionexpires	Session Expires	Date/Time	Datetime	Yes	19					
5	session_last_active	sessionlastactive	Session Last Active	Date/Time	Datetime	No	19					
6	session_id	sessionid	Session ID	Integer	Int	Yes	11					

The NASIS Session table tracks connected NASIS client sessions.

### NASIS 7.3.3 Tables and Columns

Table Logical Name: nasissite  
Table Label: NASIS Site

Table Physical Name: nasissite

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	nasissite_name	nasissitename	NASIS Site Name	String	Varchar	Yes	30					
2	nasissite_description	nasissitedesc	Description	String	Varchar	No	30					
3	nasissite_state	nasissitestate	State	Choice	Smallint	No	5					state_fips_code_alpha
4	nasissite_county	nasissitecounty	County	String	Varchar	No	30					
5	nasissite_city	nasissitecity	City	String	Varchar	No	30					
6	nasissite_office_type	nasissiteofficetype	Office Type	Choice	Smallint	No	11					nasissite_office_type
7	nasissite_contact	nasissitecontact	Contact	String	Varchar	No	30					
8	nasissite_phone	nasissitephone	Phone	String	Varchar	No	20					
9	object_when_last_updated	objwupdated	Object Last Updated	Date/Time	Datetime	No	19					
10	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
11	nasissite_iid	nasissiteiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: nasissite\_admin  
Table Label: NASIS Site Administrator

Table Physical Name: nasissiteadmin

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	nasissite_iid_ref	nasissiteiidref	Lineage	Integer	Int	Yes	11					
2	user_iid_ref	useriidref	NASIS User	Integer	Int	Yes	11					
3	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
4	nasissite_admin_iid	nasissiteadminiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: nasis\_user  
Table Label: NASIS User

Table Physical Name: nasisuser

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	user_name	username	NASIS User Name	String	Varchar	Yes	30					
2	user_affiliation	useraffiliation	Affiliation	Choice	Smallint	No	12					user_affiliation
3	user_description	userdesc	Description	String	Varchar	No	30					
4	user_job_title	userjobtitle	Job Title	String	Varchar	No	30					
5	user_phone	userphone	Phone	String	Varchar	No	20					
6	user_e_mail_address	useremailaddr	E-mail Address	String	Varchar	No	30					
7	eauth_id	eauthid	eAuth ID	String	Char	No	23					
8	windows_login	windowslogin	Windows Login	String	Varchar	Yes	30					
9	last_login	lastlogin	Last Login	Date/Time	Datetime	No	19					
10	default_group_iid_ref	defaultgrpiidref	Default NASIS Group	Integer	Int	No	19					
11	nasis_user_database_iid_ref	nasisuserdbiidref	NASIS User NASIS Site	Integer	Int	Yes	21					
12	object_when_last_updated	objwupdated	Object Last Updated	Date/Time	Datetime	No	19					
13	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
14	user_iid	userid	Rec ID	Integer	Int	Yes	11					

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.

# NASIS 7.3.3 Tables and Columns

Table Logical Name: ncss\_layer\_lab\_data

Table Physical Name: ncsslayerslabdata

Table Label: NCSS Layer Lab Data

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	ncss_pedon_lab_data_iid_ref	ncsspedonlabdataiidref	Lineage	Integer	Int	Yes	11					
2	layer_seq_num	layerseqnum	Layer Seq	Integer	Int	No	11		1			
3	laboratory_sample_number	labsampnum	Lab Sample #	String	Varchar	Yes	12					
4	horizon_depth_to_top	hzdept	Top Depth	Integer	Smallint	Yes	9		0	9999	cm	
5	horizon_depth_to_bottom	hzdepb	Bottom Depth	Integer	Smallint	Yes	12		0	9999	cm	
6	layer_type	layertype	Layer Type	Choice	Smallint	No	15					layer_type
7	horizon_designation	hzname	Designation	String	Varchar	No	12					
8	horizon_designation_original	hznameoriginal	Designation - Orig	String	Varchar	No	20					
9	stratified_textures_flag	stratextsflag	Stratified ?	Boolean	Bit	Yes	12					
10	moisture_prep_state	moistprepstate	Moisture State	Choice	Smallint	No	14					moisture_prep_state
11	texture_class	texcl	Lab Texture	Choice	Smallint	No	11					texture_class
12	sand_very_coarse_measured	sandvcmeasured	VC Sand - Measured	Float	Real	No	18	1	0	100	percent	
13	sand_coarse_measured	sandcomeasured	Co. Sand - Measured	Float	Real	No	19	1	0	100	percent	
14	sand_medium_measured	sandmedmeasured	Med. Sand - Measured	Float	Real	No	20	1	0	100	percent	
15	sand_fine_measured	sandfinemeasured	Fine Sand - Measured	Float	Real	No	20	1	0	100	percent	
16	sand_very_fine_measured	sandvfmeasured	VF Sand - Measured	Float	Real	No	18	1	0	100	percent	
17	sand_total_measured	sandtotmeasured	Total Sand - Measured	Float	Real	No	21	1	0	100	percent	
18	silt_coarse_measured	siltcomeasured	Co. Silt - Measured	Float	Real	No	19	1	0	100	percent	
19	silt_fine_measured	siltfinemeasured	Fine Silt - Measured	Float	Real	No	20	1	0	100	percent	
20	silt_total_measured	silttotmeasured	Total Silt - Measured	Float	Real	No	21	1	0	100	percent	
21	clay_sized_carbonate_measured	claycarbmeasured	CaCO3 Clay - Measured	Float	Real	No	21	1	0	100	percent	
22	clay_fine_measured	clayfinemeasured	Fine Clay - Measured	Float	Real	No	20	1	0	100	percent	
23	clay_total_measured	claytotmeasured	Total Clay - Measured	Float	Real	No	21	1	0	100	percent	
24	carbon_organic_percent_meas	carbonorganicpctmeasured	Organic Carbon %	Float	Real	No	16	2	0	100	percent	
25	carbon_total_percent_meas	carbontotalpctmeasured	Total Carbon %	Float	Real	No	14	2	0	100	percent	
26	organic_matter_percent_est	ompctest	OM % Est.	Float	Real	No	9	2	0	100	percent	
27	fiber_rubbed_percent	fiberrubbedpct	Rubbed Fiber %	Integer	Smallint	No	14		0	100	percent	
28	fiber_unrubbed_percent	fiberunrubbedpct	Unrubbed Fiber %	Integer	Smallint	No	16		0	100	percent	
29	fragment_2_5_pct_wt	fragwt25	Frag%, 2-5 mm, by wt.	Integer	Smallint	No	21		0	100	percent	
30	fragment_5_20_pct_wt	fragwt520	Frag%, 5-20 mm, by wt.	Integer	Smallint	No	22		0	100	percent	
31	fragment_20_75_pct_wt	fragwt2075	Frag%, 20-75 mm, by wt.	Integer	Smallint	No	23		0	100	percent	
32	fragment_2_75_pct_wt	fragwt275	Frag%, 2-75 mm, by wt.	Integer	Smallint	No	22		0	100	percent	
33	wt_pct_01_75	wtpct0175	Wt %, 0.1-75 mm	Integer	Smallint	No	15		0	100	percent	
34	wt_pct_gt2_ws	wtptgt2ws	Wt %, >2 mm, ws	Integer	Smallint	No	16		0	100	percent	
35	ph_1_1_water	ph1to1h2o	pH 1:1 water	Float	Real	No	12	1	1	13		
36	ph_01m_cacl2	ph01mcacl2	pH .01M CaCl2	Float	Real	No	13	1	1	13		
37	ph_naf	phnaf	pH NaF	Float	Real	No	6	1	1	13		
38	ph_oxidized	phoxidized	pH Oxidized	Float	Real	No	11	1	1	13		
39	resistivity	resistivity	Resistivity	Integer	Int	No	11		0		ohm/cm	
40	electrical_cond_measured	ecmeasured	EC	Float	Real	No	8	2	0	15000	dS/m	
41	exchangeable_sodium_percent	esp	ESP	Integer	Smallint	No	3		0		percent	

# NASIS 7.3.3 Tables and Columns

42	sodium_adsorption_ratio	sar	SAR	Float	Real	No	6	1	0	9999	
43	cec_sum_cations	cecsumcations	CEC, sum of cations	Float	Real	No	19	1	0		cmol(+)/kg
44	cation_exch_capcty_nh4oacph7	cec7	CEC-7	Float	Real	No	5	1	0	400	cmol(+)/kg
45	effective_cation_exch_capcty	ecec	ECEC	Float	Real	No	5	1	0	400	cmol(+)/kg
46	sum_of_bases_nh4oacph7	sumbases	Sum of Bases	Float	Float	No	12	1	0	300	cmol(+)/kg
47	base_saturation_sum_of_cations	basesatsumcations	BS, sum of cations	Integer	Smallint	No	18		0		percent
48	base_saturation_nh4oac	basesatnh4oac	BS, NH4OAc	Integer	Smallint	No	10		0		percent
49	calcium_carb_equiv_measured	caco3equivmeasured	CaCO3 <2 mm	Integer	Smallint	No	11		0	110	percent
50	calcium_carb_less_than_20_meas	caco3lt20measured	CaCO3 <20 mm	Integer	Smallint	No	12		0	110	percent
51	gypsum_equivalent_lt2_meas	gypsumequivlt2measured	Gypsum <2 mm	Integer	Int	No	12		0		percent
52	gypsum_equivalent_meas	gypsumequivmeasured	Gypsum <20 mm	Integer	Smallint	No	13		0		percent
53	iron_oxalate_measured	feoxalatemeasured	Oxalate Fe	Float	Real	No	10	2	0	100	percent
54	iron_extractable	feextractable	Extractable Fe	Float	Real	No	14	1	0	100	percent
55	iron_total	fetotal	Total Fe	Float	Real	No	9	1	0		mg/kg
56	silicon_oxalate_measured	sioxalatemeasured	Oxalate Si	Float	Real	No	10	2	0	100	percent
57	extractable_acidity	extracid	Extractable Acidity	Float	Real	No	19	1	0	250	cmol(+)/kg
58	extractable_aluminum	extral	KCl Extractable Al	Float	Real	No	10	2	0	150	cmol(+)/kg
59	aluminum_oxalate_meas	aloxalatemeasured	Oxalate Al	Float	Real	No	10	2	0	100	percent
60	aluminum_total	altotal	Total Al	Integer	Int	No	11		0		mg/kg
61	phosphorous_mehlich3	pmehlich3	Mehlich 3 P	Float	Real	No	12	1	0		mg/kg
62	phosphorous_water_soluble_meas	ph2osolublemeasured	Water Soluble P	Float	Real	No	15	1	0		mg/kg
63	phosphorous_oxalate_meas	poxalatemeasured	Oxalate P	Float	Real	No	9	1	0		mg/kg
64	phosphorous_olsen_meas	polsenmeasured	Olsen P	Float	Real	No	9	1	0		mg/kg
65	phosphorous_total_meas	ptotalmeasured	Total P	Integer	Smallint	No	7		0		percent
66	nz_phosphorous_retention	nzpretention	NZ Phos Retention	Float	Real	No	17	1	0	100	percent
67	bulk_density_one_third_bar	dbthirdbar	Db 0.33 bar H2O	Float	Real	No	15	2	0.02	2.6	g/cm3
68	bulk_density_oven_dry	dbovendry	Db oven dry	Float	Float	No	11	2	0.02	2.6	g/cm3
69	aggregate_stability_pct	aggstabpct	Aggregate Stab %	Integer	Smallint	No	16		0	100	percent
70	water_tenth_bar_clod	wtenthbarclod	H2O 1/10 bar clod	Float	Real	No	17	1	0		percent
71	water_tenth_bar_sieve	wtenthbarsieve	H2O 1/10 bar sieve	Float	Real	No	18	1	0		percent
72	water_third_bar_clod	wthirdbarclod	H2O 1/3 bar clod	Float	Real	No	16	1	0		percent
73	water_third_bar_sieve	wthirdbarsieve	H2O 1/3 bar sieve	Float	Real	No	17	1	0		percent
74	water_15_bar_meas	wfifteenbarmeasured	H2O 15 bar	Float	Real	No	10	1	0		percent
75	water_retention_diff_ws	wretentiondiffws	WRD	Float	Real	No	9	2	0		cm/cm
76	water_15_bar_to_clay_ratio	wfifteenbartoclay	H2O 15 bar:clay ratio	Float	Real	No	21	2	0		
77	adod	adod	ADOD ratio	Float	Real	No	10	3	1		
78	linear_extensibility_percent	lep	LEP	Float	Real	No	4	1	0	30	percent
79	coeff_linear_extensibility	cole	COLE	Float	Real	No	4	2	0	0.3	cm/cm
80	liquid_limit_measured	liquidlimitmeasured	LL - Measured	Float	Real	No	13	1	0	400	percent
81	plasticity_index	pi	PI	Float	Real	No	5	1	0	130	percent
82	total_frag_vol_gt_2_mm	totalfragvolgt2mm	Total Vol of Fragments Greater Than 2 mm	Integer	Int	No	40		0	100	percent
83	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19				
84	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22				
85	ncss_layer_lab_data_iid	ncsslayerslabdataiid	Rec ID	Integer	Int	Yes	11				

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 7.3.3 Tables and Columns

Table Logical Name: ncss\_pedon\_lab\_data

Table Physical Name: ncsspeldonlabdata

Table Label: NCSS Pedon Lab Data

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	pedon_lab_sample_number	pedlabsampnum	Pedon Lab Sample #	String	Varchar	Yes	18					
2	pedon_iid_ref	peiidref	Correlated Pedon	Integer	Int	Yes	16					
3	part_size_cntrl_depth_to_top	psctopdepth	PSC Top Depth	Integer	Int	No	13		0	999	cm	
4	part_size_cntrl_depth_to_bot	pscboldepth	PSC Bottom Depth	Integer	Int	No	16		0	999	cm	
5	noncarb_clay_wt_avg	noncarbclaywtavg	Noncarb. Clay % - wt avg	Float	Real	No	24	1	0	100	percent	
6	clay_tot_wt_avg	claytotwtavg	Clay Total % - wt avg	Float	Real	No	21	1	0	100	percent	
7	linear_extensibility_0_to_100	le0to100	LE 0-100 cm	Float	Real	No	11	2	0	100	cm	
8	wt_fract_0175_wt_avg_psc	wf0175wtavgpsc	Wt Fraction 0.1 to 75 mm - wt avg	Float	Real	No	30	1	0	100	percent	
9	vol_fract_gt_2_wt_avg	volfractgt2wtavg	Vol. >2 mm - wt avg	Float	Real	No	19	1	0	100	percent	
10	cec7_clay_ratio_wt_avg	cec7clayratiowtavg	CEC7 to Clay Ratio - wt avg	Float	Real	No	27	2	0			
11	lab_data_sheet_url	labdatasheeturl	Data Sheet URL	Hyperlink	Varchar	No	30					
12	ncss_pedon_database_iid_ref	ncsspeditidref	NCSS Pedon NASIS Site	Integer	Int	Yes	21					
13	group_iid_ref	grpriidref	NASIS Group	Integer	Int	Yes	11					
14	object_when_last_updated	objwupdated	Object Last Updated	Date/Time	Datetime	No	19					
15	object_user_iid_ref	objuseriidref	Object Last Updated By	Integer	Int	No	22					
16	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
17	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
18	ncss_pedon_lab_data_iid	ncsspeldonlabdataiid	Rec ID	Integer	Int	Yes	11					

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.



## NASIS 7.3.3 Tables and Columns

Table Logical Name: nested\_freq\_quadrat\_details

Table Physical Name: nestedfreqquadratdetails

Table Label: Nested Frequency Quadrat Details

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	veg_trans_plant_summ_iid_ref	vegtransplantsummiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	quadrat_number	quadrathnumber	Quadrat #	Integer	Int	Yes	9		1	999		
4	transect_point_location	transectpointlocation	Transect Point Location	Float	Real	No	23	1	0	1000	feet	
5	smallest_subquadrat_in	smallestquadratin	Smallest Quadrat In ?	Integer	Int	Yes	21		1	4		
6	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
7	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
8	nested_freq_quad_details_iid	nestedfreqquaddetailsiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: nested\_frequency\_summary

Table Physical Name: nestedfrequencysummary

Table Label: Nested Frequency Summary

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	veg_trans_plant_summ_iid_ref	vegtransplantsummiiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	subquadrat_number	subquadratnumber	Subquadrat #	Integer	Int	Yes	12		1	4		
4	subquadrat_size	subquadratsize	Subquadrat Size	Integer	Int	Yes	15		1	50	inches	
5	subquadrat_hit_count	subquadrathitcount	# of Subquadrat Hits	Integer	Int	No	20		1	100		
6	subquadrat_species_frequency	subquadratspeciesfreq	Species Frequency	Integer	Smallint	No	17		0	100	percent	
7	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
8	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
9	nested_freq_summary_iid	nestedfreqsummaryiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: other\_veg\_classification  
Table Label: Other Vegetative Classification

Table Physical Name: othvegclass

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	oth_veg_class_type_iid_ref	ovegcltyiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	oth_veg_class_id	ovegclid	Other Veg Class ID	String	Varchar	Yes	30					
4	oth_veg_class_name	ovegclname	Other Veg Class Name	String	Varchar	Yes	30					
5	oth_veg_class_description	ovegcldesc	Other Veg Class Description	Narrative Text	Varchar(max)	No	27					
6	obsolete_term	obterm	Obsolete?	Boolean	Bit	Yes	9					
7	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
8	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
9	oth_veg_class_iid	ovegclid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: other\_vegetation\_class\_type

Table Physical Name: othvegclasstype

Table Label: Other Vegetative Classification Type

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	oth_veg_class_type_name	ovegcltynname	Other Veg Class Type Name	String	Varchar	Yes	30					
2	oth_veg_class_type_reference	ovegcltypref	Other Veg Class Type Reference	String	Varchar	No	30					
3	oth_veg_class_type_description	ovegcltypdesc	Other Veg Class Type Description	Narrative Text	Varchar(max)	No	30					
4	oth_veg_class_type_db_iid_ref	ovegcltypdbiidref	Other Veg Class Type NASIS Site	Integer	Int	Yes	30					
5	group_iid_ref	grpriidref	NASIS Group	Integer	Int	Yes	11					
6	object_when_last_updated	objwupdated	Object Last Updated	Date/Time	Datetime	No	19					
7	object_user_iid_ref	objuseriidref	Object Last Updated By	Integer	Int	No	22					
8	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
10	oth_veg_class_type_iid	ovegcltypiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: plant\_area\_occurrence  
Table Label: Plant Area Occurrence

Table Physical Name: paoccurrence

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	plant_iid_ref	plantiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	area_iid_ref	areaiidref	Area	Integer	Int	Yes	11					
4	plant_area_common_name	plantareacomm	Area Common Name	String	Varchar	No	30					
5	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
6	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
7	plant_area_occurrence_iid	plantareaociid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: pedon\_diagnostic\_features  
Table Label: Pedon Diagnostic Features

Table Physical Name: pediagfeatures

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	pedon_iid_ref	peiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	diag_horz_feat_depth_to_top	featdept	Top Depth	Integer	Smallint	No	9		0	9999	cm	
4	diag_horz_feat_depth_to_botm	featdepb	Bottom Depth	Integer	Smallint	No	12		0	9999	cm	
5	diag_horz_feat_thickness	featthick	Thickness	Integer	Smallint	No	9		0	9999	cm	
6	diag_horz_feat_kind	featkind	Kind	Choice	Smallint	No	30					diag_horz_feat_kind
7	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
8	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
9	ped_diagnostic_features_iid	pediagfeatiid	Rec ID	Integer	Int	Yes	11					

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.

# NASIS 7.3.3 Tables and Columns

Table Logical Name: pedon  
Table Label: Pedon

Table Physical Name: pedon

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	site_observation_iid_ref	siteobsiidref	Site/Site Observation	Integer	Int	Yes	21					
2	user_pedon_id	upedonid	User Pedon ID	String	Varchar	Yes	30					
3	pedon_record_origin	pedrecorigin	Pedon Record Origin	String	Varchar	No	30					
4	describers_name	descname	Descriptor's Name	String	Varchar	No	30					
5	taxon_name	taxonname	Current Taxon Name	String	Varchar	No	30					
6	local_phase	localphase	Local Phase	String	Varchar	No	30					
7	taxonomic_classification_name	taxclname	Current Taxonomic Class	String	Varchar	No	30					
8	taxon_kind	taxonkind	Current Taxon Kind	Choice	Smallint	No	18					component_kind
9	pedon_type	pedontype	Pedon Type	Choice	Smallint	No	30					pedon_type
10	pedon_desc_purpose	pedonpurpose	Pedon Purpose	Choice	Smallint	No	24					pedon_purpose
11	pedon_unit	pedonunit	Pedon #	Integer	Smallint	No	7		1	9999		
12	lab_data_description_flag	labdatadesclflag	Certified Lab Pedon Description ?	Boolean	Bit	Yes	30					
13	relative_exposure_size	relexpsize	Exposure Size	Integer	Smallint	No	13		1			
14	relative_exposure_uom	relexpuom	Exposure UOM	Choice	Smallint	No	12					relative_exposure_uom
15	earth_cover_kind_level_one	earthcovkind1	Cover Kind 1	Choice	Smallint	No	22					earth_cover_kind_level_one
16	earth_cover_kind_level_two	earthcovkind2	Cover Kind 2	Choice	Smallint	No	30					earth_cover_kind_level_two
17	erosion_class	erocl	Erosion Class	Choice	Smallint	No	13					erosion_class
18	laboratory_source_id	labsourceid	Lab Source ID	String	Varchar	No	13					
19	pedon_lab_sample_number	pedlabsampnum	Lab Pedon #	String	Varchar	No	18					
20	transect_iid_ref	tsectiidref	Transect	Integer	Int	No	11					
21	transect_stop_number	tsectstopnum	Transect Stop Number	Integer	Smallint	No	20		1			
22	transect_interval	tsectinterval	Transect Interval	Float	Real	No	17	1	0.1		meters	
23	rca_point_number	rcapointnumber	RaCA Point #	Integer	Int	No	12		1	5		
24	soil_replicate_number	soilreplicatenum	Soil Replicate #	Integer	Int	No	16		1			
25	azimuth_from_plot_center	azimuthfromplotcenter	Azimuth From Plot Center	Integer	Int	No	24		0	360		
26	distance_from_plot_center	distancefromplotcenter	Distance From Plot Center	Float	Real	No	25	1	0		meters	
27	rectangular_plot_line_number	rectangularplotlinenumber	Rectangular Plot Line #	Integer	Int	No	23		1	10		
28	distance_from_baseline	distancefrombaseline	Distance From Baseline	Float	Real	No	22	1	0	35	meters	
29	pedoderm_class	pedodermclass	Pedoderm Class	Choice	Smallint	No	17					pedoderm_class
30	pedoderm_loose_cover_indicator	pedodermcovind	Pedoderm Loose Cover Indicator	Boolean	Bit	Yes	30					
31	biological_crust_type_dom	biolcrustypedom	Biol. Crust Type Dominant	Choice	Smallint	No	25					biological_crust_type
32	biological_crust_type_second	biolcrustypesecond	Biol. Crust Type Secondary	Choice	Smallint	No	26					biological_crust_type
33	physical_crust_subtype	physcrustsubtype	Phys Crust Subtype	Choice	Smallint	No	21					physical_crust_subtype
34	crust_development_class	crustdevcl	Crust Dev Class	Choice	Smallint	No	15					crust_development_class
35	range_veg_canopy_type_dom	rangevegcanopytypedom	Range Veg. Canopy Type Dominant	Choice	Smallint	No	30					vegetation_canopy_type
36	range_veg_canopy_type_sec	rangevegcanopytypesec	Range Veg. Canopy Type Secondary	Choice	Smallint	No	30					vegetation_canopy_type
37	forest_overstory_veg_type	forestoverstoryvegtype	Forest Overstory Veg. Type	Choice	Smallint	No	29					vegetation_canopy_type
38	forest_understory_veg_type	forestunderstoryvegtype	Forest Understory Veg. Type	Choice	Smallint	No	29					vegetation_canopy_type
39	forest_groundcov_veg_type_dom	forestgroundcovvegtypedom	Forest Groundcover Veg. Type Dominant	Choice	Smallint	No	30					vegetation_canopy_type
40	forest_groundcov_veg_type_sec	forestgroundcovvegtypesec	Forest Groundcover Veg. Type Secondary	Choice	Smallint	No	30					vegetation_canopy_type

### NASIS 7.3.3 Tables and Columns

41	agronomic_feature	agronomicfeature	Agronomic Feature	Choice	Smallint	No	30					agronomic_feature
42	other_feature_description	otherfeaturedescription	Other Feature Description	String	Varchar	No	30					
43	current_crop_name	currentcropname	Current Crop	Choice	Smallint	No	30					crop_name
44	litter_cover_percent	littercoverpct	Litter Cover %	Integer	Smallint	No	14	0	100	percent		
45	residue_description	residuedescription	Residue Description	String	Varchar	No	30					
46	pedon_hydric_rating	pedonhydricrating	Hydric?	Boolean	Bit	Yes	7					
47	pedon_certification_status	pecertstatus	Certification Status	Choice	Smallint	No	20					pedon_cert_status
48	quality_control_status	peqstatus	QC Status	Choice	Smallint	No	12					qc_qa_status
49	quality_assurance_status	peqastatus	QA Status	Choice	Smallint	No	12					qc_qa_status
50	sas_pipe_length_total	saspiplengthtot	SAS Pipe Length Total	Float	Real	No	21	1		cm		
51	sas_pipe_length_external	saspiplengthext	SAS Pipe Length External	Float	Real	No	24	1		cm		
52	sas_pipe_length_unfilled	saspiplengthunfilled	SAS Pipe Length Unfilled	Float	Real	No	24	1		cm		
53	sas_core_settlement	sascoresettlement	SAS Core Settlement	Float	Real	No	19	1		cm		
54	sas_core_length	sascorelength	SAS Core Length	Float	Real	No	15	1		cm		
55	sas_core_storage_site	sascorestoragesite	SAS Core Storage Site	String	Varchar	No	30					
56	sas_exposure_begin	sasexposurebegin	SAS Exposure Begin	Date/Time	Datetime	No	19					
57	sas_exposure_end	sasexposureend	SAS Exposure End	Date/Time	Datetime	No	19					
58	pedon_database_iid_ref	pedbiidref	Pedon NASIS Site	Integer	Int	Yes	16					
59	group_iid_ref	grpbiidref	NASIS Group	Integer	Int	Yes	11					
60	object_when_last_updated	objwlupdated	Object Last Updated	Date/Time	Datetime	No	19					
61	object_user_iid_ref	objuseridref	Object Last Updated By	Integer	Int	No	22					
62	record_when_last_updated	recwlupdated	Record Last Updated	Date/Time	Datetime	No	19					
63	record_user_iid_ref	recuseridref	Record Last Updated By	Integer	Int	No	22					
64	pedon_iid	peiid	Rec ID	Integer	Int	Yes	11					

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.



## NASIS 7.3.3 Tables and Columns

Table Logical Name: pedon\_db\_column\_metadata

Table Physical Name: pedondbcolumnmetadata

Table Label: Pedon Database Column Metadata

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	pedon_db_table_id	pedondbtableid	Pedon Database Table ID	Integer	Int	Yes	23					
2	pedon_db_column_id	pedondbcolumnid	Pedon Database Column ID	Integer	Int	Yes	24					
3	pedon_db_column_sequence	pedondbcolumnsequence	Pedon Database Column Sequence	Integer	Smallint	Yes	30					
4	pedon_db_column_name	pedondbcolumnname	Pedon Database Column Name	String	Varchar	Yes	30					
5	ip_diag_msg_column_label	ipdiagmsgcolumnlabel	Import Pedon Diagnostic Message Column Label	String	Varchar	Yes	30					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: pedon\_db\_table\_metadata

Table Physical Name: pedondbtablemetadata

Table Label: Pedon Database Table Metadata

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	pedon_db_table_id	pedondbtableid	Pedon Database Table ID	Integer	Int	Yes	23					
2	pedon_db_table_name	pedondbtablename	Pedon Database Table Name	String	Varchar	Yes	30					
3	pedon_db_object_name	pedondbobjectname	Pedon Database Object Name	String	Varchar	Yes	30					
4	ip_diag_msg_table_label	ipdiagmsgtablelabel	Import Pedon Diagnostic Message Table Label	String	Varchar	Yes	30					
5	ip_diag_msg_sql_stmt	ipdiagmsgsqlstmt	Import Pedon Diagnostic Message SQL Statement	Narrative Text	Varchar(max)	Yes	30					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: pedon\_field\_meas\_prop  
Table Label: Pedon Field Measured Property

Table Physical Name: pefmp

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	pedon_iid_ref	peiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	field_meas_property_name	fmpname	Name	String	Varchar	No	30					
4	field_meas_property_value	fmpvalue	Value	Float	Float	No	17	2				
5	field_meas_property_units	fmpunits	Unit of Measure	String	Varchar	No	30					
6	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
7	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
8	ped_field_meas_prop_iid	pefmpiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: pedon\_hydric\_field\_indicator

Table Physical Name: pehydricfieldindicator

Table Label: Pedon Hydric Field Indicator

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	pedon_iid_ref	pelidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	hydric_soil_field_indicator	hydricsoilfieldindicator	Hydric Field Indicator	Choice	Smallint	Yes	22					hydric_soil_indicator
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	pedon_hydric_field_ind_iid	pehydricfieldindiid	Rec ID	Integer	Int	Yes	11					

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

# NASIS 7.3.3 Tables and Columns

Table Logical Name: pedon\_infiltration\_const\_head  
Table Label: Pedon Infiltration Constant Head

Table Physical Name: peinfiltrationch

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	pedon_infil_summary_iid_ref	peinfilsumiidref	Lineage	Integer	Int	Yes	11					
2	test_date	testdate	Test Date	Date/Time	Datetime	Yes	19					
3	replicate_number	repnum	Rep #	Integer	Int	Yes	11		1			
4	infiltration_measured	infiltrationmeasured	Infiltration Rate	Float	Real	No	17	2	0		cm/hr	
5	infiltration_ring_config	infiltrationringconfig	Ring Configuration	Choice	Smallint	Yes	18					ring_configuraton
6	ring_insertion_depth	ringinsertiondepth	Ring Insertion Depth	Float	Real	Yes	20	1	0.1	50	cm	
7	ring_radius	ringradius	Ring Radius	Float	Real	Yes	11	2	0.1	50	cm	
8	water_ponding_depth	waterponddepth	Water Ponding Depth	Float	Real	Yes	19	1	0	50	cm	
9	mariotte_bottle_radius	mariottebottleradius	Mariotte Bottle Radius	Float	Real	No	22	2	0.1	50	cm	
10	notes	notes	Notes	Narrative Text	Varchar(max)	No	7					
11	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
12	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
13	pedon_infil_const_head_iid	peinfilconstheadiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: pedon\_infiltration\_ch\_data

Table Physical Name: peinfiltrationchdata

Table Label: Pedon Infiltration Constant Head Data

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	pedon_infil_const_head_iid_ref	peinfilconstheadiidref	Lineage	Integer	Int	Yes	11					
2	infiltration_run_number	infiltrationrunnum	Run #	Integer	Int	Yes	11		1			
3	water_drop	waterdrop	Water Drop	Float	Real	Yes	10	1	0		cm	
4	delta_time	deltatime	Delta Time	Float	Real	Yes	10	2	0.01	2000	min	
5	infiltration_measured	infiltrationmeasured	Infiltration Rate	Float	Real	No	17	2	0		cm/hr	
6	steady_state_flag	steadystateflag	Steady State ?	Boolean	Bit	Yes	14					
7	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
8	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
9	pedon_infil_ch_data_iid	peinfilchdataiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: pedon\_infil\_fall\_head  
Table Label: Pedon Infiltration Falling Head

Table Physical Name: peinfiltrationfh

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	pedon_infil_summary_iid_ref	peinfilsumiidref	Lineage	Integer	Int	Yes	11					
2	test_date	testdate	Test Date	Date/Time	Datetime	Yes	19					
3	replicate_number	repnum	Rep #	Integer	Int	Yes	11		1			
4	infiltration_measured	infiltrationmeasured	Infiltration Rate	Float	Real	No	17	2	0		cm/hr	
5	infiltration_ring_config	infiltrationringconfig	Ring Configuration	Choice	Smallint	Yes	18					ring_configuraton
6	ring_insertion_depth	ringinsertiondepth	Ring Insertion Depth	Float	Real	Yes	20	1	0.1	50	cm	
7	ring_radius	ringradius	Ring Radius	Float	Real	Yes	11	2	0.1	50	cm	
8	notes	notes	Notes	Narrative Text	Varchar(max)	No	7					
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	pedon_infil_fall_head_iid	peinfilfallheadiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: pedon\_infiltration\_fh\_data

Table Physical Name: peinfiltrationfhdata

Table Label: Pedon Infiltration Falling Head Data

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	pedon_infil_fall_head_iid_ref	peinfilfallheadiidref	Lineage	Integer	Int	Yes	11					
2	infiltration_run_number	infiltrationrunnum	Run #	Integer	Int	Yes	11		1			
3	delta_time	deltatime	Delta Time	Float	Real	Yes	10	2	0.01	2000	min	
4	infiltration_water_volume	infiltrationwatervolume	Water Volume	Float	Real	Yes	12	2	0		ml	
5	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
6	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
7	pedon_infil_fh_data_iid	pedoninfilfhdataiid	Rec ID	Integer	Int	Yes	11					

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.



## NASIS 7.3.3 Tables and Columns

Table Logical Name: pedon\_infiltration\_summary

Table Physical Name: peinfiltrationsummary

Table Label: Pedon Infiltration Summary

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	pedon_iid_ref	pelidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	test_date	testdate	Test Date	Date/Time	Datetime	Yes	19					
4	data_collector	datacollector	Data Collector	String	Varchar	No	30					
5	infiltration_mean	infiltrationmean	Infiltration Mean	Float	Real	No	17	2	0		cm/hr	
6	infiltration_std_dev	infiltrationstddev	Infiltration Std. Dev.	Float	Real	No	21	2	0			
7	infiltration_test_method	infiltrationtestmethod	Test Method	Choice	Smallint	Yes	25					infiltration_test_method
8	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
10	pedon_infil_summary_iid	pedoninfilsumiid	Rec ID	Integer	Int	Yes	11					

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

# NASIS 7.3.3 Tables and Columns

Table Logical Name: pedon\_penetration\_resistance

Table Physical Name: pepenetrationresistance

Table Label: Pedon Penetration Resistance

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	pedon_iid_ref	pelidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	penetrometer_depth	penetrometerdepth	Depth	Integer	Int	Yes	5		0	9999	cm	
4	observed_soil_moisture_status	obssoismoistat	Observed Moisture State	Choice	Smallint	No	23					observed_soil_moisture_status
5	penetrometer_tip_type	penetrometertiptype	Tip Type	Choice	Smallint	Yes	8					penetrometer_tip_type
6	penetrometer_spring_type	penetrometerspringtype	Spring Type	Choice	Smallint	Yes	11					penetrometer_spring_type
7	penetration_orientation	penetorient	Penetration Orientation	Choice	Smallint	Yes	23					penetration_orientation
8	penetrometer_reading_1	penetrometerreading1	Reading 1	Float	Real	Yes	9	2	0.25	4.75	tons/ft2	
9	penetrometer_reading_2	penetrometerreading2	Reading 2	Float	Real	No	9	2	0.25	4.75	tons/ft2	
10	penetrometer_reading_3	penetrometerreading3	Reading 3	Float	Real	No	9	2	0.25	4.75	tons/ft2	
11	penetrometer_reading_4	penetrometerreading4	Reading 4	Float	Real	No	9	2	0.25	4.75	tons/ft2	
12	data_collector	datacollector	Data Collector	String	Varchar	No	30					
13	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
14	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
15	pedon_penetrometer_resist_iid	pepenetrometeriid	Rec ID	Integer	Int	Yes	11					

This table records penetration resistance data for a particular pedon.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: pedon\_restrictions  
Table Label: Pedon Restrictions

Table Physical Name: perestrictions

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	pedon_iid_ref	peiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	restriction_depth_to_top	resdept	Top Depth	Integer	Smallint	No	9		0	9999	cm	
4	restriction_depth_to_bottom	resdepb	Bottom Depth	Integer	Smallint	No	12		0	9999	cm	
5	restriction_thickness	resthk	Thickness	Integer	Smallint	No	9		0	999	cm	
6	restriction_kind	reskind	Kind	Choice	Smallint	No	30					restriction_kind
7	restriction_hardness	reshard	Hardness	Choice	Smallint	No	19					rupture_resist_block_cem
8	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
10	ped_restrictions_iid	perestrictiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: pedon\_soil\_stability  
Table Label: Pedon Soil Stability

Table Physical Name: pesoilstability

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	pedon_iid_ref	peiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	soil_stability_depth	soilstabilitydepth	Depth	Float	Real	Yes	6	1	0	9999		
4	sample_collector	samplecollector	Sample Collector	String	Varchar	No	30					
5	data_collector	datacollector	Data Collector	String	Varchar	No	30					
6	test_date	testdate	Test Date	Date/Time	Datetime	No	19					
7	soil_stability_class_rep_1	soilstabilityclass1	Stability Class Rep 1	Choice	Smallint	Yes	21					soil_stability_class
8	soil_stability_class_rep_2	soilstabilityclass2	Stability Class Rep 2	Choice	Smallint	Yes	21					soil_stability_class
9	soil_stability_class_rep_3	soilstabilityclass3	Stability Class Rep 3	Choice	Smallint	Yes	21					soil_stability_class
10	soil_stability_class_predom	soilstabilityclasspredom	Stability Class Predominant	Choice	Smallint	No	27					soil_stability_class
11	soil_hydrophobic_indicator_1	soilhydrophobicind1	Rep 1 Hydrophobic?	Boolean	Bit	Yes	18					
12	soil_hydrophobic_indicator_2	soilhydrophobicind2	Rep 2 Hydrophobic?	Boolean	Bit	Yes	18					
13	soil_hydrophobic_indicator_3	soilhydrophobicind3	Rep 3 Hydrophobic?	Boolean	Bit	Yes	18					
14	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
15	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
16	pedon_soil_stability_iid	pesoilstabilityiid	Rec ID	Integer	Int	Yes	11					

This table records data collected related to soil aggregate stability.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: pedon\_tax\_hist\_fam\_mineralogy

Table Physical Name: petaxhistfmmin

Table Label: Pedon Taxonomic History Family Mineralogy

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	ped_tax_history_iid_ref	pedtaxhistoryiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	mineralogy_order	minorder	Vertical Order	Integer	Smallint	Yes	14		1			
4	taxonomic_family_mineralogy	taxminalogy	Mineralogy	Choice	Smallint	Yes	29					taxonomic_family_mineralogy
5	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
6	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
7	ped_tax_history_fam_min_iid	petaxfmminiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: pedon\_tax\_hist\_moisture\_class

Table Physical Name: petaxhistmoistcl

Table Label: Pedon Taxonomic History Moisture Class

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	ped_tax_history_iid_ref	pedtaxhistoryiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	taxonomic_moisture_class	taxmoistcl	Moisture Class	Choice	Smallint	Yes	15					taxonomic_moisture_class
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	ped_tax_hist_moisture_cl_iid	petaxmciid	Rec ID	Integer	Int	Yes	11					

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.

# NASIS 7.3.3 Tables and Columns

Table Logical Name: pedon\_tax\_history  
Table Label: Pedon Taxonomic History

Table Physical Name: petaxhistory

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	pedon_iid_ref	peiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	classification_date	classdate	Classification Date	Date/Time	Datetime	Yes	19					
4	classification_type	classtype	Classification Type	Choice	Smallint	No	19					classification_type
5	classifier	classifier	Classifier	String	Varchar	No	30					
6	taxon_name	taxonname	Taxon Name	String	Varchar	Yes	30					
7	local_phase	localphase	Local Phase	String	Varchar	No	30					
8	taxon_kind	taxonkind	Taxon Kind	Choice	Smallint	No	18					component_kind
9	series_status	seriesstatus	Series Status	Choice	Smallint	No	13					series_status
10	taxonomic_classification_name	taxclname	Taxonomic Class	String	Varchar	No	30					
11	taxonomic_order	taxorder	Order	Choice	Smallint	No	11					taxonomic_order
12	taxonomic_suborder	taxsuborder	Suborder	Choice	Smallint	No	9					taxonomic_suborder
13	taxonomic_great_group	taxgrtgroup	Great Group	Choice	Smallint	No	16					taxonomic_great_group
14	taxonomic_subgroup	taxsubgrp	Subgroup	Choice	Smallint	No	30					taxonomic_subgroup
15	taxonomic_family_particle_size	taxpartsize	Particle Size	Choice	Smallint	No	30					taxonomic_family_particle_size
16	taxonomic_family_part_size_mod	taxpartsizemod	Particle Size Mod	Choice	Smallint	No	17					taxonomic_family_part_size_mod
17	taxonomic_family_c_e_act_class	taxceactcl	CEC Activity Cl	Choice	Smallint	No	15					taxonomic_family_c_e_act_class
18	taxonomic_family_reaction	taxreaction	Reaction	Choice	Smallint	No	13					taxonomic_family_reaction
19	taxonomic_family_temp_class	taxtempcl	Temp Class	Choice	Smallint	No	15					taxonomic_family_temp_class
20	taxonomic_moisture_subclass	taxmoistscl	Moist Subclass	Choice	Smallint	No	15					taxonomic_moisture_subclass
21	taxonomic_temp_regime	taxtempregime	Temp Regime	Choice	Smallint	No	17					taxonomic_temp_regime
22	taxonomic_family_haht_mat_cl	taxfamhahatmatcl	HAHT Material Class	Choice	Smallint	No	19					taxonomic_family_haht_mat_class
23	soil_taxonomy_edition	soiltaxedition	Keys to Taxonomy Edition Used	Choice	Smallint	No	29					soil_taxonomy_edition
24	part_size_cntrl_depth_to_top	psctopdepth	PSC Top Depth	Integer	Int	No	13		0	999	cm	
25	part_size_cntrl_depth_to_bot	pscbotdepth	PSC Bottom Depth	Integer	Int	No	16		0	999	cm	
26	osd_type_location_flag	osdtyelocflag	OSD Type Location ?	Boolean	Bit	Yes	19					
27	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
28	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
29	ped_tax_history_iid	petaxhistoryiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: pedon\_text  
Table Label: Pedon Text

Table Physical Name: petext

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	pedon_iid_ref	peiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	record_date	recdate	Date	Date/Time	Datetime	No	19					
4	record_author	recauthor	Author	String	Varchar	No	25					
5	pedon_text_kind	pedontextkind	Kind	Choice	Smallint	No	26					pedon_text_kind
6	text_category	textcat	Category	String	Varchar	No	20					
7	text_subcategory	textsubcat	Subcategory	String	Varchar	No	20					
8	text_entry	textentry	Text Entry	Narrative Text	Varchar(max)	No	10					
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	ped_text_iid	petextiid	Rec ID	Integer	Int	Yes	11					

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.



### NASIS 7.3.3 Tables and Columns

Table Logical Name: pedon\_tax\_hist\_fam\_other

Table Physical Name: petxhistfmother

Table Label: Pedon Taxonomic History Family Other Criteria

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	ped_tax_history_iid_ref	pedtaxhistoryiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	taxonomic_family_other	taxfamother	Family Other	Choice	Smallint	Yes	20					taxonomic_family_other
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	ped_tax_history_fam_other_iid	petaxfoiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_cement\_agent  
Table Label: Pedon Horizon Cementing Agent

Table Physical Name: phcemagent

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phorizon_iid_ref	phiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	rupture_resist_cem_agent	ruprescem	Cementing Agent	Choice	Smallint	No	21					rupture_resist_cem_agent
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	phor_cement_agent_iid	phcemagentiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_cole\_data  
Table Label: Pedon Horizon COLE Data

Table Physical Name: phcoledata

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phor_lab_result_iid_ref	phlabresultiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	replicate_number	repnum	Rep #	Integer	Int	Yes	11		1			
4	phor_cole_reading	phcolereading	COLE Reading	Float	Real	Yes	12	2	0	0.3	cm/cm	
5	phor_cole_method	phcolemethod	COLE Method	Choice	Smallint	Yes	11					cole_method
6	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
7	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
8	phor_cole_data_iid	phcoledataiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_color  
Table Label: Pedon Horizon Color

Table Physical Name: phcolor

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phorizon_iid_ref	phiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	color_percent	colorpct	Color %	Integer	Smallint	No	7		1	100	percent	
4	color_hue	colorhue	Hue	Choice	Smallint	No	5					color_hue
5	color_value	colorvalue	Value	Choice	Smallint	No	5					color_value
6	color_chroma	colorchroma	Chroma	Choice	Smallint	No	6					color_chroma
7	color_physical_state	colorphysst	Phys State	Choice	Smallint	No	29					color_physical_state
8	color_moisture_state	colormoistst	Moist State	Choice	Smallint	No	11					color_moisture_status
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	phor_color_iid	phcoloriid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_concentrations\_color  
 Table Label: Pedon Horizon Concentrations Color

Table Physical Name: phconccolor

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phor_concentrations_iid_ref	phconconiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	color_percent	colorpct	Color %	Integer	Smallint	No	7		1	100	percent	
4	color_hue	colorhue	Hue	Choice	Smallint	No	5					color_hue
5	color_value	colorvalue	Value	Choice	Smallint	No	5					color_value
6	color_chroma	colorchroma	Chroma	Choice	Smallint	No	6					color_chroma
7	color_moisture_state	colormoistst	Moist State	Choice	Smallint	No	11					color_moisture_status
8	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
10	phor_conc_color_iid	phconcencoloriid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_concentrations  
Table Label: Pedon Horizon Concentrations

Table Physical Name: phconcs

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phorizon_iid_ref	phiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	concentration_percent	concpct	Percent	Integer	Smallint	No	7		1	100	percent	
4	concentration_size	concsz	Size	Choice	Smallint	No	30					concen_rmf_mottle_size
5	concentration_contrast	concntrst	Contrast	Choice	Smallint	No	9					concen_rmf_mottle_contrast
6	concentration_hardness	conchardness	Hardness	Choice	Smallint	No	16					concen_redox_hardness
7	concentration_shape	concszape	Shape	Choice	Smallint	No	12					concen_rmf_mottle_shape
8	concentration_kind	conckind	Kind	Choice	Smallint	No	30					concentration_kind
9	concentration_location	conclocation	Location	Choice	Smallint	No	30					concen_redox_location
10	concentration_boundary	concboundary	Boundary	Choice	Smallint	No	8					concen_redox_boundary
11	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
12	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
13	phor_concentrations_iid	phconceniid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_cracks  
Table Label: Pedon Horizon Cracks

Table Physical Name: phcracks

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phorizon_iid_ref	phiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	crack_frequency	crackfreq	Frequency	Integer	Smallint	Yes	9		1		count/m	
4	crack_kind	crackkind	Kind	Choice	Smallint	Yes	26					crack_kind
5	crack_depth	crackdepth	Depth	Float	Real	No	9	1	0.1		cm	
6	crack_width	crackwidth	Width	Float	Real	No	9	1	0.1		cm	
7	crack_extend_above	crackextabove	Extends to Horizon Above?	Boolean	Bit	Yes	25					
8	crack_extend_below	crackextbelow	Extends to Horizon Below?	Boolean	Bit	Yes	25					
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	phor_cracks_iid	phcracksiid	Rec ID	Integer	Int	Yes	11					

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

# NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_db  
Table Label: Pedon Horizon Bulk Density

Table Physical Name: phdb

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phorizon_iid_ref	phiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	bd_depth_to_top	bddepthtop	Depth to Top	Integer	Int	Yes	12		0	9999		
4	bd_depth_to_bottom	bddepthbottom	Depth to Bottom	Integer	Int	Yes	15		0	9999		
5	bulk_density_method	bdmethod	Method	Choice	Smallint	Yes	21					bulk_density_method
6	data_collector	datacollector	Data Collector	String	Varchar	No	30					
7	sample_volume_field_moist	samplevolfieldmoist	Field Moist Volume	Float	Real	No	18	1	1	10000	cm3	
8	total_sample_wt_field_moist	totalsamplewtfm	Field Moist Sample Wt.	Float	Real	No	22	1	0.1		g	
9	total_sample_wt_air_dry	totalsamplewtairdry	Air Dry Sample Wt	Float	Real	No	17	1	0.1		g	
10	coarse_frag_wt_field_moist	coarsefragwtfm	Field Moist Co. Fragment Wt.	Float	Real	No	28	1	0.1		g	
11	coarse_frag_wt_air_dry	coarsefragwtairdry	Air Dry Fragment Wt.	Float	Real	No	20	1	0		g	
12	coarse_fragment_density	coarsefragdensity	Fragment Density	Float	Real	No	16	2	0.1	5	g/cm3	
13	coarse_frag_vol_measured	coarsefragvolmeasured	Coarse Fragment Volume	Float	Real	No	22	1	0.1		cm3	
14	subsample_wt_air_dry	subsamplewtairdry	Air Dry Subsample Wt.	Float	Real	No	21	1	0.1		g	
15	subsample_wt_oven_dry	subsamplewtod	Oven Dry Subsample Wt.	Float	Real	No	22	1	0.1		g	
16	obs_grav_soil_moist_percent	obsgrsoimoist	Grav. Soil Moist % Whole Soil	Integer	Smallint	No	29		0		percent	
17	obs_grav_soil_moist_percent_fe	obsgravsoilmoistfe	Grav. Soil Moist % Fine Earth	Integer	Smallint	No	29		0		percent	
18	bulk_density_fm_fine_earth	bdfieldmoistfineearth	Bulk Density FM Fine Earth	Float	Real	No	26	2	0.02	2.6	g/cm3	
19	bulk_density_fm_whole_soil	bdfieldmoistwhole	Bulk Density FM Whole Soil	Float	Real	No	26	2	0.02	2.6	g/cm3	
20	bulk_density_od_whole_soil	bdovendrywhole	Bulk Density OD Whole Soil	Float	Real	No	26	2	0.02	2.6	g/cm3	
21	bulk_density_od_fine_earth	bdovendryfineearth	Bulk Density OD Fine Earth	Float	Real	No	26	2	0.02	2.6	g/cm3	
22	bulk_density_satiated	bdsatiated	Bulk Density Satiated	Float	Real	No	21	2	0.02	2.6	g/cm3	
23	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
24	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
25	phor_db_iid	phbulkdensityiid	Rec ID	Integer	Int	Yes	11					

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



## NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_db\_compliant\_cavity

Table Physical Name: phdbcompliantcavity

Table Label: Pedon Horizon Bulk Density Compliant Cavity

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phor_db_iid_ref	phbulkdensityiidref	Lineage	Integer	Int	Yes	11					
2	bulk_density_cavity_diameter	bulkdensitycavitydiameter	Cavity Diameter	Float	Real	No	15	1	1		cm	
3	bulk_density_cavity_length	bulkdensitycavitylength	Cavity Length	Float	Real	No	13	1	1		cm	
4	bulk_density_cavity_width	bulkdensitycavitywidth	Cavity Width	Float	Real	No	12	1	1		cm	
5	bulk_density_cavity_init_vol	bulkdensitycavityinitvol	Cavity Initial Volume	Float	Real	No	21	1	1	10000	cm3	
6	bulk_density_cavity_final_vol	bulkdensitycavityfinalvol	Cavity Final Volume	Float	Real	No	19	1	1	10000	cm3	
7	cavity_ave_depth_pre_dig	cavityavedepthpredig	Cavity Depth Pre Dig	Float	Real	No	20	1	0.1		cm	
8	cavity_ave_depth_post_dig	cavityavedepthpostdig	Cavity Depth Post Dig	Float	Real	No	21	1	0.1		cm	
9	bulk_density_cavity_samp_vol	bulkdensitycavitysampvol	Sample Volume	Float	Real	No	13	1	10	10000	cm3	
10	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
11	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
12	phor_db_cavity_iid	phbulkdecavityiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_db\_core  
Table Label: Pedon Horizon Bulk Density Core

Table Physical Name: phdbcore

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phor_db_iid_ref	phbulkdensityiidref	Lineage	Integer	Int	Yes	11					
2	sample_tube_length	sampletubelength	Total Tube Length	Float	Real	Yes	17	1	1		cm	
3	unfilled_tube_length	unfilledtubelength	Unfilled Tube Length	Float	Real	No	20	1	0		cm	
4	core_sample_length	coresamplelength	Core Sample Length	Float	Real	No	18	1	0.1		cm	
5	sample_tube_diameter	sampletubediameter	Tube Diameter	Float	Real	Yes	13	1	1		cm	
6	core_sample_volume	coresamplevolume	Core Sample Volume	Float	Real	No	18	2	10		cm3	
7	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
8	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
9	phor_db_core_iid	phbulkdcencoreiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_db\_core\_reading

Table Physical Name: phdbcorereading

Table Label: Pedon Horizon Bulk Density Core Reading

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phor_db_core_iid_ref	phbulkdenseiidref	Lineage	Integer	Int	Yes	11					
2	bulk_density_tube_headspace	bulkdensitytubeheadspace	Unfilled Tube Length	Float	Real	Yes	20	1	0		cm	
3	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
4	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
5	phor_db_core_reading_iid	phdbcorereadingiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_db\_scoop  
Table Label: Pedon Horizon Bulk Density Scoop

Table Physical Name: phdbcoop

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phor_db_iid_ref	phbulkdensityiidref	Lineage	Integer	Int	Yes	11					
2	scoop_length	scooplength	Scoop Length	Float	Real	No	12	1	1	25	cm	
3	scoop_width	scoopwidth	Scoop Width	Float	Real	No	11	1	1	25	cm	
4	scoop_depth_total	scoopdepthtotal	Scoop Depth	Float	Real	No	11	1	1	10	cm	
5	scoop_volume	scoopvolume	Scoop Volume	Float	Real	Yes	12	2	100	1000	cm3	
6	scoop_depth_unfilled	scoopdepthunfilled	Scoop Depth Unfilled	Float	Real	No	20	1	0	10	cm	
7	scoop_sample_volume	scoopsamplevolume	Sample Volume	Float	Real	No	13	2	50	1000	cm3	
8	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
10	phor_db_scoop_iid	phbulkdenscoopiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_db\_scoop\_reading

Table Physical Name: phdbcoopreading

Table Label: Pedon Horizon Bulk Density Scoop Reading

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phor_db_scoop_iid_ref	phbulkdenscoopiidref	Lineage	Integer	Int	Yes	11					
2	scoop_headspace	scoopheadspace	Unfilled Scoop Depth	Float	Real	Yes	20	1	0	10	cm	
3	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
4	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
5	phor_db_scoop_reading_iid	phbulkdenscoopreadiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_desgn\_suffix  
Table Label: Pedon Horizon Designation Suffix

Table Physical Name: phdesgnsuffix

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phorizon_iid_ref	phiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	horz_desgn_letter_suffix	desgnsuffix	Suffix	Choice	Smallint	No	6					horz_desgn_letter_suffix
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	phor_desgn_suffix_iid	phdesgnsfixiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_features\_color  
Table Label: Pedon Horizon Features Color

Table Physical Name: phfeatcolor

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phor_features_iid_ref	phfeatsiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	color_percent	colorpct	Color %	Integer	Smallint	No	7		1	100	percent	
4	color_hue	colorhue	Hue	Choice	Smallint	No	5					color_hue
5	color_value	colorvalue	Value	Choice	Smallint	No	5					color_value
6	color_chroma	colorchroma	Chroma	Choice	Smallint	No	6					color_chroma
7	color_moisture_state	colormoistst	Moist State	Choice	Smallint	No	11					color_moisture_status
8	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
10	phor_feat_color_iid	phfeatcoloriid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_features  
Table Label: Pedon Horizon Features

Table Physical Name: phfeatures

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phorizon_iid_ref	phiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	horizon_feature_kind	horfeatkind	Kind	Choice	Smallint	No	30					horizon_feature_kind
4	horz_feat_volume_total_percent	horfeatvpct	Total Volume %	Integer	Smallint	No	14		1	100	percent	
5	horz_feat_lateral_area_percent	horfeatlapct	Lateral Area %	Integer	Smallint	No	14		1	100	percent	
6	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
7	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
8	phor_features_iid	phfeatsiid	Rec ID	Integer	Int	Yes	11					

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



## NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_field\_meas\_prop

Table Physical Name: phfmp

Table Label: Pedon Horizon Field Measured Property

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phorizon_iid_ref	phiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	field_meas_property_name	fmpname	Name	String	Varchar	No	30					
4	field_meas_property_value	fmpvalue	Value	Float	Float	No	17	2				
5	field_meas_property_units	fmpunits	Unit of Measure	String	Varchar	No	30					
6	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
7	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
8	phor_field_meas_prop_iid	phfmpiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_fragments  
Table Label: Pedon Horizon Fragments

Table Physical Name: phfrags

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phorizon_iid_ref	phiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	fragment_volume	fragvol	Vol %	Float	Real	No	5	1	0	100	percent	
4	fragment_weight	fragweight	Weight %	Float	Real	No	8	1	0	100	percent	
5	fragment_size	fragsize	Size	Integer	Smallint	No	5		2	3000	mm	
6	fragment_kind	fragkind	Kind	Choice	Smallint	No	30					fragment_kind
7	fragment_shape	fragshp	Shape	Choice	Smallint	No	7					fragment_shape
8	fragment_roundness	fraground	Roundness	Choice	Smallint	No	12					fragment_roundness
9	fragment_hardness	fraghard	Hardness	Choice	Smallint	No	19					rupture_resist_block_cem
10	fragment_estimate_method	fragemethod	Estimate Method	Choice	Smallint	No	23					fragment_estimate_method
11	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
12	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
13	phor_fragments_iid	phfragsiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_grain\_count\_data  
Table Label: Pedon Horizon Grain Count Data

Table Physical Name: phgrcountdata

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phor_gr_count_sum_iid_ref	phgrcountsumiidref	Lineage	Integer	Int	Yes	11					
2	test_date	testdate	Test Date	Date/Time	Datetime	No	19					
3	replicate_number	repnum	Rep #	Integer	Int	Yes	11		1			
4	grain_count_total	phgrcounttotal	Total Grain Count	Integer	Int	Yes	17		100	999		
5	grain_count_quartz	phgrcountquartz	Quartz	Integer	Int	No	6		0	999		
6	grain_count_micaceous	phgrcountmica	Micaceous	Integer	Int	No	9		0	999		
7	grain_count_glass	phgrcountglass	Glass	Integer	Int	No	5		0	999		
8	grain_count_glass_coated	phgrcountglasscoated	Glass Coated Minerals	Integer	Int	No	21		0	999		
9	grain_count_glass_agg	phgrcountglassagg	Glass Aggregate	Integer	Int	No	15		0	999		
10	grain_count_other	phgrcountother	Other Minerals	Integer	Int	No	14		0	999		
11	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
12	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
13	phor_grain_count_iid	phgrcountiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_grain\_count\_summary

Table Physical Name: phgrcountsummary

Table Label: Pedon Horizon Grain Count Summary

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phor_lab_result_iid_ref	phlabresultiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	grain_count_quartz	phgrcountquartz	Quartz	Integer	Int	No	6		0	999		
4	grain_count_micaceous	phgrcountmica	Micaceous	Integer	Int	No	9		0	999		
5	grain_count_glass	phgrcountglass	Glass	Integer	Int	No	5		0	999		
6	grain_count_glass_coated	phgrcountglasscoated	Glass Coated Minerals	Integer	Int	No	21		0	999		
7	grain_count_glass_agg	phgrcountglassagg	Glass Aggregate	Integer	Int	No	15		0	999		
8	grain_count_other	phgrcountother	Other Minerals	Integer	Int	No	14		0	999		
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	phor_grain_count_sum_iid	phgrcountsumiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_human\_artifacts  
Table Label: Pedon Horizon Human Artifacts

Table Physical Name: phhuarts

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phorizon_iid_ref	phiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	human_artifact_volume	huartvol	Vol %	Integer	Smallint	Yes	5		0	100	percent	
4	human_artifact_size	huartsize	Size	Integer	Smallint	No	6		2	3000	mm	
5	human_artifact_kind	huartkind	Kind	Choice	Smallint	Yes	26					human_artifact_kind
6	human_artifact_cohesion	huartco	Cohesion	Choice	Smallint	No	11					human_artifact_cohesion
7	human_artifact_shape	huartshp	Shape	Choice	Smallint	No	15					human_artifact_shape
8	human_artifact_roundness	huartrnd	Roundness	Choice	Smallint	No	12					fragment_roundness
9	human_artifact_penetrability	huartpen	Penetrability	Choice	Smallint	No	13					human_artifact_penetrability
10	human_artifact_safety	huartsafety	Safety	Choice	Smallint	No	19					human_artifact_safety
11	human_artifact_persistence	huartper	Persistence	Choice	Smallint	No	13					human_artifact_persistence
12	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
13	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
14	phor_human_artifact_iid	phhuartiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_hydrometer\_analysis

Table Physical Name: phhydrometeranalysis

Table Label: Pedon Horizon Hydrometer Analysis

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phor_lab_result_iid_ref	phlabresultiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	test_date	testdate	Test Date	Date/Time	Datetime	No	19					
4	hydrometer_sample_weight	hydrosamplewt	Sample Weight	Float	Real	Yes	13	1	1	999	g	
5	hydrometer_shmp_concentration	hydroshmpconc	SHMP Concentration	Float	Real	No	18	3	0	0.999	g/ml	
6	hydrometer_blank_reading	hydroblankread	Blank Reading	Float	Real	No	13	1	0	99	g/l	
7	hydrometer_method	hydromethod	Method	Choice	Smallint	No	30					hydrometer_method
8	obs_grav_soil_moist_percent	obsgrsoimoist	Grav. Soil Moist % Whole Soil	Integer	Smallint	No	29		0		percent	
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	phor_hydrom_analysis_iid	phhydromanalysisiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_hydrometer\_data

Table Physical Name: phhydrometerdata

Table Label: Pedon Horizon Hydrometer Data

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phor_hydrum_analysis_iid_ref	phhydromanalysisiidref	Lineage	Integer	Int	Yes	11					
2	hydrometer_reading_number	hydroreadingnum	Reading #	Integer	Int	Yes	11		1			
3	delta_time	deltatime	Delta Time	Float	Real	Yes	10	2	0.01	2000	min	
4	hydrometer_temperature	hydrotemp	Temperature	Float	Real	No	11	1	10	30	degrees c	
5	hydrometer_reading	hydroreading	Hydrometer Reading	Float	Real	Yes	18	1	0	99	g/l	
6	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
7	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
8	phor_hydrometer_data_iid	phhydrometerdataiid	Rec ID	Integer	Int	Yes	11					

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

# NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_ksat\_amoozemeter\_data

Table Physical Name: phksatamoozedata

Table Label: Pedon Horizon Ksat Amoozemeter Data

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phor_ksat_amooze_iid_ref	peksatamoozeiidref	Lineage	Integer	Int	Yes	11					
2	ksat_reading_number	ksatreadingnum	Reading #	Integer	Int	No	11		1			
3	water_drop	waterdrop	Water Drop	Float	Real	Yes	10	1	0		cm	
4	delta_time	deltatime	Delta Time	Float	Real	Yes	10	2	0.01	2000	min	
5	outflow_chamber_conv_factor	outflowchamberconvfact	Conversion Factor	Choice	Smallint	No	17				cm2	outflow_chamber_conv_factor
6	sat_hyd_conduct_measured	sathydcondmeasured	Ksat Measured	Float	Real	No	13	4	0	705	um/s	
7	steady_state_flag	steadystateflag	Steady State ?	Boolean	Bit	Yes	14					
8	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
10	phor_ksat_amooze_data_iid	peksatamoozedataiid	Rec ID	Integer	Int	Yes	11					

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



### NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_ksat\_amoozemeter

Table Physical Name: phksatamoozemeter

Table Label: Pedon Horizon Ksat Amoozemeter

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phor_ksat_sum_iid_ref	phksatsumiidref	Lineage	Integer	Int	Yes	11					
2	replicate_number	repnum	Rep #	Integer	Int	Yes	11		1			
3	test_date	testdate	Test Date	Date/Time	Datetime	Yes	19					
4	sat_hyd_cond_replicate_mean	sathydcondrepmean	Ksat Mean	Float	Real	No	9	4	0	705	um/s	
5	sat_hyd_cond_replicate_std	sathydcondrepstd	Ksat Std. Dev.	Float	Real	No	14	4	0	705	um/s	
6	sat_hyd_conductivity_class	sathydcondclass	Ksat Class	Choice	Smallint	No	15					sat_hyd_conductivity_class
7	borehole_depth	boreholedepth	Borehole Depth	Float	Real	Yes	14	1	0	9999	cm	
8	borehole_radius	boreholeradius	Borehole Radius	Float	Real	Yes	15	1	0.1		cm	
9	borehole_water_level_init	boreholewaterlevelinit	Initial Water Level	Float	Real	Yes	19	1			cm	
10	borehole_water_level_fin	boreholewaterlevelfinal	Final Water Level	Float	Real	Yes	17	1			cm	
11	notes	notes	Notes	Narrative Text	Varchar(max)	No	7					
12	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
13	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
14	phor_ksat_amoozemeter_iid	phksatamoozemeteriid	Rec ID	Integer	Int	Yes	11					

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

# NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_ksat\_ring  
Table Label: Pedon Horizon Ksat Ring

Table Physical Name: phksatring

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phor_ksat_sum_iid_ref	phksatsumiidref	Lineage	Integer	Int	Yes	11					
2	replicate_number	repnum	Rep #	Integer	Int	Yes	11		1			
3	test_date	testdate	Test Date	Date/Time	Datetime	Yes	19					
4	sat_hyd_cond_replicate_mean	sathydcondrepmean	Ksat Mean	Float	Real	No	9	4	0	705	um/s	
5	sat_hyd_cond_replicate_std	sathydcondrepstd	Ksat Std. Dev.	Float	Real	No	14	4	0	705	um/s	
6	sat_hyd_conductivity_class	sathydcondclass	Ksat Class	Choice	Smallint	No	15					sat_hyd_conductivity_class
7	ring_configuration	ringconfiguration	Ring Configuration	Choice	Smallint	Yes	18					ring_configuraton
8	ring_insertion_depth	ringinsertiondepth	Ring Insertion Depth	Float	Real	Yes	20	1	0.1	50	cm	
9	ring_radius	ringradius	Ring Radius	Float	Real	Yes	11	2	0.1	50	cm	
10	water_ponding_depth	waterponddepth	Water Ponding Depth	Float	Real	Yes	19	1	0	50	cm	
11	mariotte_bottle_radius	mariottebottleradius	Mariotte Bottle Radius	Float	Real	No	22	2	0.1	50	cm	
12	texture_structure_category	texturestructurecat	Texture/Structure Category	Choice	Smallint	No	26					texture_structure_category
13	notes	notes	Notes	Narrative Text	Varchar(max)	No	7					
14	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
15	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
16	phor_ksat_ring_iid	phksatringiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_ksat\_ring\_data  
Table Label: Pedon Horizon Ksat Ring Data

Table Physical Name: phksatringdata

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phor_ksat_ring_iid_ref	peksatringiidref	Lineage	Integer	Int	Yes	11					
2	ksat_reading_number	ksatreadingnum	Reading #	Integer	Int	No	11		1			
3	water_drop	waterdrop	Water Drop	Float	Real	No	10	1	0		cm	
4	delta_time	deltatime	Delta Time	Float	Real	No	10	2	0.01	2000	min	
5	sat_hyd_conduct_measured	sathydcondmeasured	Ksat Measured	Float	Real	No	13	4	0	705	um/s	
6	steady_state_flag	steadystateflag	Steady State ?	Boolean	Bit	Yes	14					
7	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
8	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
9	phor_ksat_ring_data_iid	peksatringdataiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_ksat\_summary

Table Physical Name: phksatsummary

Table Label: Pedon Horizon Ksat Summary

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phorizon_iid_ref	phiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	test_date	testdate	Test Date	Date/Time	Datetime	Yes	19					
4	data_collector	datacollector	Data Collector	String	Varchar	No	30					
5	sat_hyd_conduct_mean	sathydcondmean	Ksat Mean	Float	Real	No	9	4	0	705	um/s	
6	sat_hyd_cond_std_dev	sathydcondstd	Ksat Std Dev	Float	Real	No	12	2	0	705	um/s	
7	sat_hyd_conduct_method	sathydcondmethod	Test Method	Choice	Smallint	Yes	11					sat_hyd_conduct_method
8	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
10	phor_ksat_summary_iid	pedonksatsummaryiid	Rec ID	Integer	Int	Yes	11					

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

# NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_lab\_results  
Table Label: Pedon Horizon Lab Results

Table Physical Name: phlabresults

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phorizon_iid_ref	phiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	sample_depth_top	sampledepthtop	Top Depth	Float	Real	Yes	9	1	0	9999	cm	
4	sample_depth_bottom	sampledepthbottom	Bottom Depth	Float	Real	No	12	1	0	9999	cm	
5	sample_identifier	sampleid	Sample ID	String	Varchar	No	20					
6	data_collector	datacollector	Data Collector	String	Varchar	No	30					
7	clay_total_measured	claytotmeasured	Total Clay - Measured	Float	Real	No	21	1	0	100	percent	
8	clay_sized_carbonate_measured	claycarbmeasured	CaCO3 Clay - Measured	Float	Real	No	21	1	0	100	percent	
9	silt_total_measured	silttotmeasured	Total Silt - Measured	Float	Real	No	21	1	0	100	percent	
10	silt_fine_measured	siltfinemeasured	Fine Silt - Measured	Float	Real	No	20	1	0	100	percent	
11	silt_coarse_measured	siltcomeasured	Co. Silt - Measured	Float	Real	No	19	1	0	100	percent	
12	sand_total_measured	sandtotmeasured	Total Sand - Measured	Float	Real	No	21	1	0	100	percent	
13	sand_total_method	sandtotmethod	Total Sand Method	Choice	Smallint	No	17					sand_total_method
14	sand_very_coarse_measured	sandvcmeasured	VC Sand - Measured	Float	Real	No	18	1	0	100	percent	
15	sand_coarse_measured	sandcomeasured	Co. Sand - Measured	Float	Real	No	19	1	0	100	percent	
16	sand_medium_measured	sandmedmeasured	Med. Sand - Measured	Float	Real	No	20	1	0	100	percent	
17	sand_fine_measured	sandfinemeasured	Fine Sand - Measured	Float	Real	No	20	1	0	100	percent	
18	sand_very_fine_measured	sandvfmeasured	VF Sand - Measured	Float	Real	No	18	1	0	100	percent	
19	sand_very_fine_method	sandvfmethod	VF Sand Method	Choice	Smallint	No	21					sand_very_fine_method
20	texture_class_field_lab	textureclfieldlab	Texture Class - Field Lab	Choice	Smallint	No	25					texture_class
21	fiber_rubbed_percent	fiberrubbedpct	Rubbed Fiber %	Integer	Smallint	No	14		0	100	percent	
22	fiber_unrubbed_percent	fiberunrubbedpct	Unrubbed Fiber % 2	Integer	Smallint	No	18		0	100	percent	
23	ph_1_1_water	ph1to1h2o	pH 1:1 water	Float	Real	No	12	1	1	13		
24	ph_01m_cacl2	ph01mcaccl2	pH .01M CaCl2	Float	Real	No	13	1	1	13		
25	ph_naf	phnaf	pH NaF	Float	Real	No	6	1	1	13		
26	ph_oxidized	phoxidized	pH Oxidized	Float	Real	No	11	1	1	13		
27	ph_delta_h2o2_test	phdeltah2o2	Delta pH - H2O2	Float	Real	No	15	1	1	13		
28	liquid_limit_measured	liquidlimitmeasured	LL - Measured	Float	Real	No	13	1	0	400	percent	
29	plastic_limit_measured	plasticlimitmeasured	PL - Measured	Float	Real	No	13	1	0	400	percent	
30	plasticity_index	pi	PI	Float	Real	No	5	1	0	130	percent	
31	atterberg_sample_condition	atterbergsampcond	Atterberg Sample Condition	Choice	Smallint	No	26					atterberg_sample_condition
32	coeff_linear_extensibility	cole	COLE	Float	Real	No	4	2	0	0.3	cm/cm	
33	est_total_pot_acidity_etpa	esttotpotacidityetpa	Est. Pot. Acidity - ETPA	Float	Real	No	24	1			meq/100g	
34	calcium_magnesium_meh2	camgmeh2	Ca + Mg - Meh 2	Float	Real	No	15	1	0		cmol(+)/kg	
35	potassium_meh2	potassiummeh2	Potassium - Meh 2	Float	Real	No	17	1	0		cmol(+)/kg	
36	calcium_magnesium_sat_paste	camgsatpaste	Ca + Mg - Sat. Paste	Float	Real	No	20	1	0		mmol(+)/l	
37	extractable_acidity_kcl	extractaciditykcl	KCl Extract. Acidity	Float	Real	No	20	1	0		cmol(+)/kg	
38	base_saturation_meh2	basesatmeh2	Base Sat. - Meh 2	Integer	Smallint	No	17		0		percent	
39	cation_exch_capcty_nh4oacph7	cec7	CEC-7	Float	Real	No	5	1	0	400	cmol(+)/kg	
40	cation_exch_capcty_ph82	cec82	CEC-8.2	Float	Real	No	7	1	0	400	cmol(+)/kg	
41	effective_cation_exch_capcty	eccec	ECEC	Float	Real	No	5	1	0	400	cmol(+)/kg	
42	phosphate_phosphorus	phosphatephos	Phosphate Phosphorous	Float	Real	No	21	1			mg/kg	

# NASIS 7.3.3 Tables and Columns

43	nitrate_nitrogen	nitratenitrogen	NO3-N	Float	Real	No	9	1			mg/kg	
44	electrical_cond_measured	ecmeasured	EC	Float	Real	No	8	2	0	15000	dS/m	
45	elec_cond_determination_meth	ecdeterminemeth	EC Method	Choice	Smallint	No	25					elec_cond_method
46	electrical_conductivity_1_5	ec15	EC 1:5 by volume	Float	Real	No	16	1	0	100	dS/m	
47	calcium_carb_equiv_measured	caco3equivmeasured	CaCO3 Equiv. Measured	Integer	Smallint	No	21		0	110	percent	
48	gypsum_equivalent	gypsumequiv	Equiv. Gypsum	Integer	Smallint	No	13				percent	
49	sodium_measured	sodium	Sodium	Float	Real	No	9	1	0		mmol(+)/l	
50	sodium_adsorption_ratio	sar	SAR	Float	Real	No	6	1	0	9999		
51	gypsum_requirement	gypsumreq	Gypsum Req.	Integer	Int	No	11				cmol(+)/kg	
52	humic_color	humiccolor	Humic Color	Float	Real	No	11	1	0	500	L-pcu/g	
53	fulvic_color	fulviccolor	Fulvic Color	Float	Real	No	12	1	0	500	L-pcu/g	
54	humic_fulvic_color	humicfulviccolor	Humic+Fulvic Color	Float	Real	No	18	1	0	500	L-pcu/g	
55	aluminum_measured	alummeasured	Aluminum	Float	Real	No	9	1			percent	
56	pyrophosphate_color_hue	pyrophoshue	Pyrophosphate Hue	Choice	Smallint	No	17					color_hue
57	pyrophosphate_color_value	pyrophosvalue	Pyrophosphate Value	Choice	Smallint	No	19					color_value
58	pyrophosphate_color_chroma	pyrophoschroma	Pyrophosphate Chroma	Choice	Smallint	No	20					color_chroma
59	melanic_index	melanicindex	Melanic Index	Float	Real	No	13	2	0	20		
60	record_when_last_updated	recwlastupdated	Record Last Updated	Date/Time	Datetime	No	19					
61	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
62	phor_lab_result_iid	phlabresultiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_mottles  
Table Label: Pedon Horizon Mottles

Table Physical Name: phmottles

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phorizon_iid_ref	phiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	mottle_percent	mottlepct	Percent	Integer	Smallint	No	7		1	100	percent	
4	mottle_size	mottlesize	Size	Choice	Smallint	No	30					concen_rmf_mottle_size
5	mottle_contrast	mottlecntrst	Contrast	Choice	Smallint	No	9					concen_rmf_mottle_contrast
6	color_hue	colorhue	Hue	Choice	Smallint	No	5					color_hue
7	color_value	colorvalue	Value	Choice	Smallint	No	5					color_value
8	color_chroma	colorchroma	Chroma	Choice	Smallint	No	6					color_chroma
9	mottle_shape	mottleshape	Shape	Choice	Smallint	No	12					concen_rmf_mottle_shape
10	color_moisture_state	colormoistst	Moist State	Choice	Smallint	No	11					color_moisture_status
11	mottle_location	mottleloc	Location - obsolete	Choice	Smallint	No	21					mottle_location
12	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
13	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
14	phor_mottles_iid	phmottlesiid	Rec ID	Integer	Int	Yes	11					

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 lithomorphc in nature.

# NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon  
Table Label: Pedon Horizon

Table Physical Name: phorizon

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	pedon_iid_ref	peiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	horizon_depth_to_top	hzdept	Top Depth	Integer	Smallint	No	9			9999	cm	
4	horizon_depth_to_bottom	hzdepb	Bottom Depth	Integer	Smallint	No	12		0	9999	cm	
5	horizon_thickness	hzhk	Thickness	Integer	Smallint	No	9		0	9999	cm	
6	observation_method	obsmethod	Observation Method	Choice	Smallint	No	20					observation_method
7	horizon_designation	hzname	Designation	String	Varchar	No	12					
8	horz_desgn_discontinuity	desgndisc	Disc	Integer	Smallint	No	4		2	99		
9	horz_desgn_master	desgnmaster	Master	Choice	Smallint	No	7					horz_desgn_master
10	horz_desgn_master_prime	desgnmasterprime	Prime	Choice	Smallint	No	5					horz_desgn_master_prime
11	horz_desgn_vertical_subdvn	desgnvert	Sub	Integer	Smallint	No	6		1			
12	texture_modifier_and_class	texture	Tex Mod & Class	String	Varchar	No	30					
13	stratified_textures_flag	stratextsflag	Stratified?	Boolean	Bit	Yes	11					
14	clay_total_estimated	claytotest	Est Clay %	Float	Real	No	10	1	0	100	percent	
15	clay_sized_carbonate_estimated	claycarbtest	Carbonate Clay - Est.	Float	Real	No	21	1	0	100	percent	
16	silt_total_estimated	silttotest	Est Silt %	Float	Real	No	10	1	0	100	percent	
17	sand_total_estimated	sandtotest	Est Sand %	Float	Real	No	10	1	0	100	percent	
18	fragment_volume_total	fragvoltot	Total Fragment Volume	Integer	Smallint	No	21		0	100	percent	
19	horizon_color_variegated_flag	horcolorvflag	Variegated Colors?	Boolean	Bit	Yes	18					
20	observed_soil_moisture_status	obssoimoiststat	Observed Moisture State	Choice	Smallint	No	23					observed_soil_moisture_status
21	rupture_resist_block_moist	rupresblkmoist	Rupture Moist	Choice	Smallint	No	25					rupture_resist_block_moist
22	rupture_resist_block_dry	rupresblkdry	Rupture Dry	Choice	Smallint	No	15					rupture_resist_block_dry
23	rupture_resist_block_cem	rupresblkcem	Rupture Cement	Choice	Smallint	No	19					rupture_resist_block_cem
24	rupture_resist_plate	rupresplate	Rupture Plate	Choice	Smallint	No	17					rupture_resist_plate
25	manner_of_failure	mannerfailure	Manner of Failure	Choice	Smallint	No	17					manner_of_failure
26	stickiness	stickiness	Stickiness	Choice	Smallint	No	17					stickiness
27	plasticity	plasticity	Plasticity	Choice	Smallint	No	18					plasticity
28	toughness_class	toughclass	Tough Class	Choice	Smallint	No	11					toughness_class
29	penetration_resistance	penetrres	Penetration Resistance	Choice	Smallint	No	22					penetration_resistance
30	penetration_orientation	penetorient	Penetration Orientation	Choice	Smallint	No	23					penetration_orientation
31	sat_hyd_conductivity_pedon	ksatpedon	Ksat	Float	Real	No	8	4	0	705	um/s	
32	sat_hydraulic_conduct_std	ksatstddev	Ksat Std Dev	Float	Float	No	12	3	0	100	um/s	
33	sat_hydraulic_conduct_rep	ksatrepnun	Ksat Rep #	Integer	Smallint	No	10		1			
34	horizon_permeability_class	horzpermclass	Permeability Class	Choice	Smallint	No	18					permeability_class
35	observed_infiltration_rate	obsinfiltrationrate	Infiltration Rate	Float	Real	No	17	2	0		cm/hr	
36	ph_field	phfield	Field pH	Float	Real	No	8	1	1	13		
37	ph_determination_method	phdetermeth	pH Method	Choice	Smallint	No	29					ph_determination_method
38	effervescence_class	effclass	Efferv Class	Choice	Smallint	No	12					effervescence_class
39	effervescence_location	efflocation	Efferv Loc - obsolete	Choice	Smallint	No	30					effervescence_location
40	effervescence_agent	effagent	Efferv Agent	Choice	Smallint	No	30					effervescence_agent
41	carbonate_dev_stage_fe	carbdevstagefe	Carbonate Dev Stage - FE	Choice	Smallint	No	24					carbonate_dev_stage_fe
42	carbonate_dev_stage_cf	carbdevstagecf	Carbonate Dev Stage - CF	Choice	Smallint	No	24					carbonate_dev_stage_cf



### NASIS 7.3.3 Tables and Columns

43	mn_effervescence_class	mneffclass	MN Efferv Class	Choice	Smallint	No	15				effervescence_class
44	mn_effervescence_agent	mneffagent	MN Efferv Agent	Choice	Smallint	No	30				effervescence_agent_mn
45	reaction_to_alpha_dipyridyl	reactadipyridyl	A-A Dipyridyl Reaction	Choice	Smallint	No	22				reaction_to_alpha_dipyridyl
46	dipyridyl_percent	dipyridylpct	A-A Dipyridyl Percent	Integer	Smallint	No	21	1	100		
47	dipyridyl_location	dipyridylloc	A-A Dipyridyl Location	Choice	Smallint	No	30				concen_redox_location
48	excavation_difficulty_class	excavdifcl	Excav Diff	Choice	Smallint	No	14				excavation_difficulty_class
49	soil_odor	soilodor	Odor	Choice	Smallint	No	13				soil_odor
50	soil_odor_intensity	soilodorintensity	Odor Intensity	Choice	Smallint	No	14				soil_odor_intensity
51	reduced_monosulfide_presence	rmonosulfidep	Reduced Monosulfide Presence	Boolean	Bit	Yes	28				
52	boundary_distinctness	bounddistinct	Boundary Distinctness	Choice	Smallint	No	21				boundary_distinctness
53	boundary_topography	boundtopo	Boundary Topography	Choice	Smallint	No	19				boundary_topography
54	horizon_volume_total_percent	horzvoltotpct	Total Volume %	Integer	Smallint	No	14	1	100	percent	
55	horizon_lateral_area_percent	horzlatareapct	Lateral Area %	Integer	Smallint	No	14	1	100	percent	
56	dsp_comparable_layer_id	dspcomplayerid	Comp Layer ID	String	Varchar	No	25				
57	aashto_group_classification	aashtocl	AASHTO	Choice	Smallint	No	6				aashto_group_classification
58	unified_soil_classification	unifiedcl	Unified	Choice	Smallint	No	7				unified_soil_classification
59	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19				
60	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22				
61	phorizon_iid	phiid	Rec ID	Integer	Int	Yes	11				

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_pores  
Table Label: Pedon Horizon Pores

Table Physical Name: phpores

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phorizon_iid_ref	phiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	pore_quantity	poreqty	Quantity	Float	Real	No	8	1	0	99	pores/area	
4	pore_quantity_class	poreqtyclass	Quantity Class	Choice	Smallint	No	14					pore_quantity_class
5	pore_size	poresize	Size	Choice	Smallint	No	19					pore_root_size
6	pore_continuity_vertical	porecont	Continuity	Choice	Smallint	No	10					pore_continuity_vertical
7	pore_shape	poreshp	Shape	Choice	Smallint	No	27					pore_shape
8	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
10	phor_pores_iid	phporesiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_ped\_void\_surf\_feat

Table Physical Name: phpvsf

Table Label: Pedon Horizon Ped Void Surface Features

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phorizon_iid_ref	phiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	pvsf_percent	pvsfpct	Percent	Integer	Smallint	No	7		1	100	percent	
4	pvsf_kind	pvsfkind	Kind	Choice	Smallint	No	30					pvsf_kind
5	pvsf_distinctness	pvsfdistinct	Distinctness	Choice	Smallint	No	20					pvsf_distinctness
6	pvsf_continuity	pvsfcont	Continuity (Obsolete)	Choice	Smallint	No	21					pvsf_continuity
7	pvsf_location	pvsflocation	Location	Choice	Smallint	No	30					pvsf_location
8	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
10	phor_pvsf_iid	phpvsfiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_pvsf\_color

Table Physical Name: phpvsfcolor

Table Label: Pedon Horizon Ped Void Surface Features Color

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phor_pvsf_iid_ref	phpvsfiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	color_percent	colorpct	Color %	Integer	Smallint	No	7		1	100	percent	
4	color_hue	colorhue	Hue	Choice	Smallint	No	5					color_hue
5	color_value	colorvalue	Value	Choice	Smallint	No	5					color_value
6	color_chroma	colorchroma	Chroma	Choice	Smallint	No	6					color_chroma
7	color_moisture_state	colormoistst	Moist State	Choice	Smallint	No	11					color_moisture_status
8	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
10	phor_pvsf_color_iid	phpvsfcoloriid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_redox\_features

Table Physical Name: phrdxfeatures

Table Label: Pedon Horizon Redoximorphic Features

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phorizon_iid_ref	phiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	redox_feat_percent	rdxfeatpct	Percent	Integer	Smallint	No	7		1	100	percent	
4	redox_feat_size	rdxfeatsize	Size	Choice	Smallint	No	30					concen_rmf_mottle_size
5	redox_feat_contrast	rdxfeatcntrst	Contrast	Choice	Smallint	No	9					concen_rmf_mottle_contrast
6	redox_feat_hardness	rdxfeathardness	Hardness	Choice	Smallint	No	16					concen_redox_hardness
7	redox_feat_shape	rdxfeatshape	Shape	Choice	Smallint	No	12					concen_rmf_mottle_shape
8	redox_feat_kind	rdxfeatkind	Kind	Choice	Smallint	No	27					redox_feat_kind
9	redox_feat_location	rdxfeatlocation	Location	Choice	Smallint	No	30					concen_redox_location
10	redox_feat_boundary	rdxfeatboundary	Boundary	Choice	Smallint	No	8					concen_redox_boundary
11	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
12	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
13	phor_redox_feat_iid	phrdxfiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_redox\_feat\_color

Table Physical Name: phredoxfcolor

Table Label: Pedon Horizon Redoximorphic Features Color

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phor_redox_feat_iid_ref	phrdxfiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	color_percent	colorpct	Color %	Integer	Smallint	No	7		1	100	percent	
4	color_hue	colorhue	Hue	Choice	Smallint	No	5					color_hue
5	color_value	colorvalue	Value	Choice	Smallint	No	5					color_value
6	color_chroma	colorchroma	Chroma	Choice	Smallint	No	6					color_chroma
7	color_moisture_state	colormoistst	Moist State	Choice	Smallint	No	11					color_moisture_status
8	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
10	phor_redox_feat_color_iid	phrdxfcoloriid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_roots  
Table Label: Pedon Horizon Roots

Table Physical Name: phroots

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phorizon_iid_ref	phiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	roots_quantity	rootsquantity	Quantity	Float	Real	No	8	1	0	99	roots/area	
4	roots_quantity_class	rootsquantityclass	Quantity Class	Choice	Smallint	No	14					root_quantity_class
5	roots_size	rootssize	Size	Choice	Smallint	No	19					pore_root_size
6	roots_location	rootslocation	Location	Choice	Smallint	No	16					roots_location
7	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
8	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
9	phor_roots_iid	phrootsiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_sample  
Table Label: Pedon Horizon Sample

Table Physical Name: phsample

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phorizon_iid_ref	phiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	laboratory_sample_number	labsampnum	Lab Sample #	String	Varchar	No	12					
4	field_sample_id	fldsampid	Field Sample ID	String	Varchar	No	20					
5	layer_depth_to_top	layerdepthtop	Depth to Top	Integer	Smallint	No	17		0	9999		
6	layer_depth_to_bottom	layerdepthbottom	Depth to Bottom	Integer	Smallint	No	19		0	9999		
7	number_of_bulk_sample_bags	numberofbulksampbags	Number of Bulk Sample Bags	Integer	Smallint	No	26		0			
8	number_of_bulk_density_clods	numberofbulkdensityclods	Number of Bulk Density Clods	Integer	Smallint	No	28		0			
9	number_of_natural_fabric_clods	numberofnaturalfabricclods	Number of Natural Fabric Clods	Integer	Smallint	No	30		0			
10	number_of_other_samples	numberofothersamples	Number of Other samples	Integer	Smallint	No	23		0			
11	wt_20_to_76_mm_discarded_frags	wt20to76mmdiscardedfragments	Weight of 20 to 76 mm Discarded Fragments	Float	Float	No	41	2	0.01	999	kg	
12	weight_less_than_20_mm	wlft20mm	Weight Less Than 20 mm	Float	Float	No	22	2	0.01	999	kg	
13	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
14	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
15	phor_lab_sample_iid	phlabsampiid	Rec ID	Integer	Int	Yes	11					

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.



## NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_structure  
Table Label: Pedon Horizon Soil Structure

Table Physical Name: phstructure

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phorizon_iid_ref	phiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	structure_grade	structgrade	Grade	Choice	Smallint	No	19					structure_grade
4	structure_size	structsize	Size	Choice	Smallint	No	22					structure_size
5	structure_type	structtype	Type	Choice	Smallint	No	17					structure_type
6	structure_id	structid	Structure ID	Integer	Smallint	No	12		1			
7	structure_parts_to	structpartsto	Parts to Structure ID	Integer	Smallint	No	21		1			
8	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
10	phor_structure_iid	phstructureiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_text  
Table Label: Pedon Horizon Text

Table Physical Name: phtext

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phorizon_iid_ref	phiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	record_date	recdate	Date	Date/Time	Datetime	No	19					
4	record_author	recauthor	Author	String	Varchar	No	25					
5	phorizon_text_kind	phorizontextkind	Kind	Choice	Smallint	No	26					phorizon_text_kind
6	text_category	textcat	Category	String	Varchar	No	20					
7	text_subcategory	textsubcat	Subcategory	String	Varchar	No	20					
8	text_entry	textentry	Text Entry	Narrative Text	Varchar(max)	No	10					
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	phor_text_iid	phtextiid	Rec ID	Integer	Int	Yes	11					

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.

### NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_texture  
Table Label: Pedon Horizon Texture

Table Physical Name: phtexture

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phorizon_iid_ref	phiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	texture_class	texcl	Texture	Choice	Smallint	No	7					texture_class
4	terms_used_in_lieu_of_texture	lieutex	In Lieu	Choice	Smallint	No	22					terms_used_in_lieu_of_texture
5	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
6	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
7	phor_texture_iid	phtiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_texture\_modifier  
Table Label: Pedon Horizon Texture Modifier

Table Physical Name: phtexturemod

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phor_texture_iid_ref	phtiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	texture_modifier	texmod	Modifier	Choice	Smallint	No	8					texture_modifier
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	phor_texture_modifier_iid	phtextmodiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_vnir\_scan  
Table Label: Pedon Horizon VNIR Scan

Table Physical Name: phvnriscan

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phorizon_iid_ref	phiidref	Lineage	Integer	Int	Yes	11					
2	vnir_depth_to_top	vnirdepthtop	Depth to Top	Integer	Int	Yes	12		0	9999	cm	
3	vnir_depth_to_bottom	vnirdepthbottom	Depth to Bottom	Integer	Int	Yes	15		0	9999	cm	
4	vnir_sample_condition	vnirsamplecondition	Sample Condition	Choice	Smallint	Yes	16					vnir_sample_condition
5	vnir_light_source	vnirlightsource	Light Source	Choice	Smallint	Yes	13					vnir_light_source
6	vnir_scan_date	vnirscandate	VNIR Scan Date	Date/Time	Datetime	Yes	19					
7	vnir_file_name	vnirfilename	VNIR File Name	File Reference	Varchar	Yes	30					
8	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
10	phor_vnir_scan_iid	phvnriscaniid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_vnir\_scan\_raw\_data

Table Physical Name: phvnirscanrawdata

Table Label: Pedon Horizon VNIR Scan Raw Data

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phor_vnir_scan_iid_ref	phvnirscaniidref	Lineage	Integer	Int	Yes	11					
2	vnir_data	vnirdata	VNIR Data	Binary	Varbinary(max)	Yes	9					
3	phor_vnir_scan_raw_data_iid	phvnirscanrawdataiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: phorizon\_vnir\_scan\_result

Table Physical Name: phvnirscanresult

Table Label: Pedon Horizon VNIR Scan Result

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	phor_vnir_scan_iid_ref	phvnirscaniidref	Lineage	Integer	Int	Yes	11					
2	vnir_model_id	vnirmodelid	VNIR Model ID	String	Varchar	Yes	20					
3	vnir_model_run_date	vnirmodelrundate	Date	Date/Time	Datetime	Yes	19					
4	carbon_total_percent	carbontotalpct	Total Carbon %	Float	Real	No	14	2	0.01	100	percent	
5	carbon_inorganic_percent	carboninorganicpct	Inorganic Carbon %	Float	Real	No	18	2	0.01	100	percent	
6	carbon_organic_percent	carbonorganicpct	Organic Carbon %	Float	Real	No	16	2	0.01	100	percent	
7	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
8	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
9	phor_vnir_scan_result_iid	phvnirscanresultiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: plant  
Table Label: Plant

Table Physical Name: plant

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	plant_symbol	plantsym	Plant Symbol	String	Varchar	Yes	12					
2	plant_scientific_name	plantscihame	Scientific Name	String	Varchar	No	30					
3	plant_national_vernacular_name	plantnatvernm	National Vernacular Name	String	Varchar	No	30					
4	plant_genus	plantgenus	Genus Name	String	Varchar	No	30					
5	plant_species	plantspecies	Species Name	String	Varchar	No	30					
6	plant_subspecies	plantsubspecies	Subspecies Name	String	Varchar	No	30					
7	plant_variety	plantvariety	Variety Name	String	Varchar	No	30					
8	obsolete_term	obterm	Obsolete?	Boolean	Bit	Yes	9					
9	plant_database_iid_ref	plantdbiidref	Plant NASIS Site	Integer	Int	Yes	16					
10	group_iid_ref	grpriidref	NASIS Group	Integer	Int	Yes	11					
11	object_when_last_updated	objwupdated	Object Last Updated	Date/Time	Datetime	No	19					
12	object_user_iid_ref	objuseriidref	Object Last Updated By	Integer	Int	No	22					
13	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
14	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
15	plant_iid	plantiid	Rec ID	Integer	Int	Yes	11					

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 of 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.



# NASIS 7.3.3 Tables and Columns

Table Logical Name: plant\_prod\_quadrat\_details

Table Physical Name: plantprodquadratdetails

Table Label: Plant Production Quadrat Details

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	veg_trans_plant_summ_iid_ref	vegtransplantsummiiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	quadrat_number	quadratnumber	Quadrat #	Integer	Int	Yes	9		1	999		
4	transect_point_location	transectpointlocation	Transect Point Location	Float	Real	No	23	1	0	1000	feet	
5	quadrat_clipped_indicator	quadratclippedindicator	Quadrat Clipped ?	Boolean	Bit	Yes	17					
6	species_wt_air_dry	specieswtairdry	Species Wt. Air-dry	Integer	Int	No	19		0		g	
7	species_wt_clipped	specieswtclipped	Species Wt. Clipped	Integer	Int	No	19		0		g	
8	species_wt_estimated	specieswtestimated	Species Wt. Estimated	Integer	Int	No	21		0		g	
9	species_trace_amt_flag	speciestraceamtflag	Trace Amount ?	Boolean	Bit	Yes	14					
10	weight_unit_count	weightunitcount	# of Weight Units	Float	Real	No	17	2	0	99		
11	species_canopy_cover_pct	speciescancovpct	Species Canopy Cover %	Integer	Smallint	No	22		0	100	percent	
12	species_canopy_cover_class	speciescancovclass	Species Canopy Cover Class	Choice	Smallint	No	26					canopy_cover_class
13	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
14	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
15	plant_prod_quad_details_iid	plantprodquaddetailsiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: plant\_synonym  
Table Label: Plant Synonym

Table Physical Name: plantsyn

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	plant_iid_ref	plantiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	plant_iid_ref_2	plantiidref2	Accepted Plant	Integer	Int	Yes	14					
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	plant_synonym_iid	plantsyniid	Rec ID	Integer	Int	Yes	11					

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.

### NASIS 7.3.3 Tables and Columns

Table Logical Name: plot\_disturbance  
Table Label: Plot Disturbance

Table Physical Name: plotdisturbance

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	vegetation_plot_iid_ref	vegplotiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	disturbance_type	disturbancetype	Disturbance Type	Choice	Smallint	Yes	30					disturbance_type
4	disturbance_frequency	disturbancefrequency	Frequency	Choice	Smallint	No	22					disturbance_frequency
5	disturbance_impact	disturbanceimpact	Disturbance Impact	Choice	Smallint	No	18					disturbance_impact
6	disturbance_last_applied	disturbancelastapplied	When Last Applied ?	Choice	Smallint	No	26					disturbance_last_applied
7	notes	notes	Notes	Narrative Text	Varchar(max)	No	7					
8	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
10	plot_disturbance_iid	plotdisturbanceiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: plot\_grazing\_use  
Table Label: Plot Grazing Use

Table Physical Name: plotgrazinguse

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	vegetation_plot_iid_ref	vegplotiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	animal_kind	animalkind	Animal Kind	Choice	Smallint	Yes	16					animal_kind
4	use_frequency	usefrequency	Frequency of Use	Choice	Smallint	No	23					use_frequency
5	season_of_use	seasonofuse	Season of Use	Choice	Smallint	No	18					season_of_use
6	stocking_rate_class	stockingratecl	Stocking Rate	Choice	Smallint	No	13					stocking_rate
7	ak_grazing_plant_group	akgrazingplantgroup	AK Grazing Plant Group	Choice	Smallint	No	22					ak_grazing_plant_group
8	ak_grazing_impact	akgrazingimpact	AK Grazing Impact	Choice	Smallint	No	17					ak_grazing_impact
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	plot_grazing_use_iid	plotgrazinguseiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: plot\_main\_forest\_stand\_details

Table Physical Name: plotmainforeststanddetails

Table Label: Main Forest Stand Details

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	vegetation_plot_iid_ref	vegplotiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	transect_point_location	transectpointlocation	Transect Point Location	Float	Real	Yes	23	1	0	1000	feet	
4	distance_from_previous	distancefromprevious	Distance From Previous Point	Float	Real	Yes	28	1	1		feet	
5	plant_iid_ref	plantiidref	Plant	Integer	Int	Yes	11					
6	tree_diameter_breast_height	treediameterbreastheight	Tree DBH	Float	Real	No	8	1	1	360	inches	
7	tree_condition	treeconditions	Tree Condition	Choice	Smallint	No	14					tree_condition
8	notes	notes	Notes	Narrative Text	Varchar(max)	No	7					
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	plot_main_for_stand_detail_iid	plotmainforstanddetailiid	Rec ID	Integer	Int	Yes	11					

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

# NASIS 7.3.3 Tables and Columns

Table Logical Name: plot\_plant\_inventory

Table Physical Name: plotplantinventory

Table Label: Plot Plant Inventory

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	vegetation_plot_iid_ref	vegplotiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	plant_iid_ref	plantiidref	Plant	Integer	Int	Yes	11					
4	plant_type_group	planttypegroup	Plant Type Group	Choice	Smallint	No	17					plant_type
5	ak_stratum_cover_class	akstratumcoverclass	AK Stratum Cover Class	Choice	Smallint	No	22					ak_stratum_cover_class
6	plant_height_class_lower_limit	plantheightclowerlimit	Height Class Lower Limit	Float	Real	No	24	1	0	500	feet	
7	plant_height_class_upper_limit	plantheightclupperlimit	Height Class Upper Limit	Float	Real	No	24	1	0	500	feet	
8	plant_nativity	plantnativity	Plant Nativity	Choice	Smallint	No	14					plant_nativity
9	sociability_class	sociabilityclass	Sociability Class	Choice	Smallint	No	20					sociability_class
10	live_canopy_height_bottom	livecanopyhtbottom	Live Canopy Ht. Bottom	Float	Float	No	22	1	0	500	feet	
11	live_canopy_height_top	livecanopyhttop	Live Canopy Ht. Top	Float	Float	No	19	1	0	500	feet	
12	overstory_dbh_minimum	overstorydbhmin	Overstory DBH Minimum	Float	Real	No	21	1	0.1	99	inches	
13	overstory_dbh_maximum	overstorydbhmax	Overstory DBH Maximum	Float	Real	No	21	1	0.1	360	inches	
14	species_canopy_cover_pct	speciescancovpct	Canopy Cover %	Integer	Smallint	No	14		0	100	percent	
15	species_canopy_cover_class	speciescancovclass	Canopy Cover Class	Choice	Smallint	No	18					canopy_cover_class
16	species_trace_amt_flag	speciestraceamtflag	Spp Trace Amt Flag	Boolean	Bit	Yes	14					
17	species_basal_area	speciesbasalarea	Basal Area	Integer	Int	No	10		1	500	ft2/acre	
18	understory_ground_cover_pct	understorygrcovpct	Understory Ground Cover %	Integer	Smallint	No	25		0	100	percent	
19	understory_ground_cov_class	understorygrcovclass	Understory Ground Cover Class	Choice	Smallint	No	29					ground_cover_class
20	seedling_density_class	seedlingdensityclass	Seedling Density Class	Choice	Smallint	No	22					plant_density_class
21	mature_density_class	maturedensityclass	Mature Density Class	Choice	Smallint	No	20					plant_density_class
22	vegetation_strata_level	vegetationstratalevel	Vegetation Strata Level	Choice	Smallint	No	23					vegetation_strata_level
23	order_of_dominance	orderofdominance	Order of Dominance	Integer	Int	No	18		1	10		
24	outside_plot_indicator	outsideplotindicator	Observed Outside Plot ?	Boolean	Bit	Yes	23					
25	estimated_annual_prod	estannualprod	Estimated Annual Prod.	Integer	Int	No	22		0		lbs/acre	
26	esd_annual_prod	esdannualprod	ESD Annual Prod.	Integer	Int	No	16		0		lbs/acre	
27	allowable_annual_prod	allowableannualprod	Allowable Prod.	Integer	Int	No	15		0		lbs/acre	
28	palatable_annual_prod	palatableannualprod	Palatable Prod.	Integer	Int	No	15		0		lbs/acre	
29	ak_functional_group	akfunctionalgroup	AK Functional Group	Choice	Smallint	No	19					ak_functional_group
30	ak_stratum_cover_class_pct	akstratumcoverclasspct	AK Stratum Cover Class Pct	Float	Float	No	26	1	0.1	100	percent	
31	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
32	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
33	plot_plant_inventory_iid	plotplantinventoryiid	Rec ID	Integer	Int	Yes	11					

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.

# NASIS 7.3.3 Tables and Columns

Table Logical Name: plot\_plant\_type\_canopy\_cover

Table Physical Name: plotplanttypecanopycover

Table Label: Plot Plant Type Canopy Cover

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	vegetation_plot_iid_ref	vegplotiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	plant_type_group	planttypegroup	Plant Type Group	Choice	Smallint	Yes	17					plant_type
4	plant_height_class_lower_limit	plantheightcllowerlimit	Height Class Lower Limit	Float	Real	Yes	24	1	0	500	feet	
5	plant_height_class_upper_limit	plantheightclupperlimit	Height Class Upper Limit	Float	Real	Yes	24	1	0	500	feet	
6	plant_type_canopy_cover_pct	planttypecancovpct	Canopy Cover %	Integer	Smallint	No	14		0	100	percent	
7	plant_type_canopy_cover_class	planttypecancovclass	Canopy Cover Class	Choice	Smallint	No	18					canopy_cover_class
8	canopy_cover_assess_method	cancovassessmethod	Assessment Method	Choice	Smallint	No	17					assessment_method
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	plot_plant_type_canopy_cov_iid	plotplanttypecancoviid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: plot\_sampling\_protocol\_used

Table Physical Name: plotsamplingprotocolused

Table Label: Plot Sampling Protocol Used

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	vegetation_plot_iid_ref	vegplotiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	plot_sampling_protocol_name	plotsampprotocolname	Protocol Name	Choice	Smallint	Yes	23					plot_protocol
4	data_collector	datacollector	Data Collector	String	Varchar	No	30					
5	data_recorder	datarecorder	Data Recorder	String	Varchar	No	30					
6	sampling_intensity	samplingintensity	Sampling Intensity	Choice	Smallint	No	18					sampling_intensity
7	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
8	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
9	plot_samp_protocol_used_iid	plotsampprotocolusediid	Rec ID	Integer	Int	Yes	11					

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.



## NASIS 7.3.3 Tables and Columns

Table Logical Name: plot\_species\_basal\_area

Table Physical Name: plotspeciesbasalarea

Table Label: Plot Species Basal Area

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	vegetation_plot_iid_ref	vegplotiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	plant_iid_ref	plantiidref	Plant	Integer	Int	Yes	11					
4	basal_area_factor	basalareafactor	Basal Area Factor	Choice	Smallint	Yes	17					basal_area_factor
5	species_number_of_trees_in	speciesnumbertreesin	# of Trees In	Integer	Int	No	13		0			
6	species_basal_area	speciesbasalarea	Species Basal Area	Integer	Int	No	18		1	500	ft2/acre	
7	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
8	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
9	plot_specie_basal_area_iid	plotspeciebasalareaiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: plot\_tree\_inventory

Table Physical Name: plottreeinventory

Table Label: Plot Tree Inventory

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	vegetation_plot_iid_ref	vegplotiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	plant_iid_ref	plantiidref	Plant	Integer	Int	Yes	11					
4	species_tree_count	speciestreecount	# of Trees	Integer	Int	No	10		1	999		
5	species_comp_pct	speciescomp_pct	Composition %	Integer	Smallint	No	13		0	100	percent	
6	species_diameter_breast_ht_ave	speciesdbhaverage	DBH Average	Float	Real	No	11	1	1	360	inches	
7	species_basal_area	speciesbasalarea	Species Basal Area	Integer	Int	No	18		1	500	ft2/acre	
8	plot_tree_inventory_iid	plottreeinventoryiid	Rec ID	Integer	Int	Yes	11					
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: plot\_trees\_counted

Table Physical Name: plottreescounted

Table Label: Plot Trees Counted

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	plot_tree_inventory_iid_ref	plottreeinventoryiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	dbh_class_midpoint	dbhclassmidpoint	DBH Class Midpoint	Integer	Int	Yes	18		2	360	inches	
4	dbh_class_species_tree_count	dbhclassspeciestreecount	# of Trees	Integer	Int	Yes	11		1			
5	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
6	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
7	plot_trees_counted_iid	plottreescountediid	Rec ID	Integer	Int	Yes	11					

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

# NASIS 7.3.3 Tables and Columns

Table Logical Name: plot\_tree\_site\_index\_details

Table Physical Name: plottreesiteindexdetails

Table Label: Plot Tree Site Index Details

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	plot_tree_site_ind_sum_iid_ref	plottreesiteindsumiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6					
3	tree_number	treenumber	Tree #	Integer	Int	Yes	11		1			
4	crown_class	crownclass	Crown Class	Choice	Smallint	No	11					crown_class
5	reproduction_source	reproductionsouce	Reproduction Source	Choice	Smallint	No	19					reproduction_source
6	tree_diameter_breast_height	treediameterbreastheight	Tree DBH	Float	Real	No	8	1	1	360	inches	
7	ten_year_growth_radius	tenyeargrowthradius	10 Yr. Growth Radius	Float	Real	No	20	1	0.1	100	inches	
8	growth_ring_count	growthringcount	Growth Ring Count	Integer	Int	No	17		1	5000		
9	growth_ring_count_height	growthringcountheight	Growth Ring Count Height	Float	Real	No	24	1	0	9	feet	
10	growth_ring_count_age	growthringcountage	Growth Ring Count Age	Integer	Int	No	21		1	5000	yrs	
11	tree_age	treeage	Tree Age	Integer	Int	No	8		1	5000	yrs	
12	tree_canopy_ht_bottom	treecanopyhtbottom	Canopy Ht. Bottom	Integer	Int	No	17		1	500	feet	
13	tree_canopy_ht_top	treecanopyhttop	Canopy Ht. Top	Integer	Int	No	14		1	500	feet	
14	ak_no_of_rings_in_last_inch	aknoringsinlastinch	AK Number of Rings in Last Inch	Integer	Smallint	No	31		0	999		
15	ak_crown_class	akcrownclass	Alaska Crown Class	Choice	Smallint	No	18					ak_crown_class
16	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
17	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
18	plot_tree_site_ind_details_iid	plottreesiteinddetailsiid	Rec ID	Integer	Int	Yes	11					

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

# NASIS 7.3.3 Tables and Columns

Table Logical Name: plot\_tree\_site\_index\_summary

Table Physical Name: plottreesiteindexsummary

Table Label: Plot Tree Site Index Summary

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	vegetation_plot_iid_ref	vegplotiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	plant_iid_ref	plantiidref	Plant	Integer	Int	Yes	11					
4	plant_nativity	plantnativity	Plant Nativity	Choice	Smallint	No	14					plant_nativity
5	site_index_base	siteindexbase	Site Index Base	Choice	Smallint	Yes	15					site_index_curves
6	species_tree_count	speciestreecount	# of Trees	Integer	Int	No	10		1	999		
7	site_index_plot_average	siteindexplotave	Average Site Index	Integer	Int	No	18		1	999		
8	species_diameter_breast_ht_ave	speciesdbhaverage	DBH Average	Float	Real	No	11	1	1	360	inches	
9	tree_age_average	treeageave	Average Tree Age	Integer	Int	No	16		1	5000	yrs	
10	tree_canopy_ht_top_ave	treecanopyhttopave	Average Canopy Top Ht.	Integer	Int	No	22		1	500	feet	
11	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
12	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
13	plot_tree_site_ind_sum_iid	plottreesiteindsumiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: plot\_tree\_summary

Table Physical Name: plottreesummary

Table Label: Plot Tree Summary

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	vegetation_plot_iid_ref	vegplotiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	dbh_class_midpoint	dbhclassmidpoint	DBH Class Midpoint	Integer	Int	Yes	18		2	360	inches	
4	dbh_class_tree_count	dbhclasstreecount	# of Trees	Integer	Int	No	11		1			
5	dbh_class_basal_area	dbhclassbasalarea	DBH Class Basal Area	Integer	Int	No	20		1	500	ft2/acre	
6	dbh_class_tree_density	dbhclasstreedensity	DBH Class Tree Density	Integer	Int	No	22		1		trees/ac	
7	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
8	record_user_iid_ref	recuseridref	Record Last Updated By	Integer	Int	No	22					
9	plot_tree_summary_iid	plottreesummaryiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: point\_plant\_cover\_details

Table Physical Name: pointplantcoverdetails

Table Label: Point Plant Cover Details

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	veg_trans_plant_summ_iid_ref	vegtransplantsummiiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	transect_point_location	transectpointlocation	Transect Point Location	Float	Real	Yes	23	1	0	1000	feet	
4	live_canopy_height_bottom	livecanopyhtbottom	Live Canopy Ht. Bottom	Float	Float	No	22	1	0	500	feet	
5	live_canopy_height_top	livecanopyhttop	Live Canopy Ht. Top	Float	Float	No	19	1	0	500	feet	
6	canopy_cover_present	canopycoverpresent	Canopy Cover Present ?	Boolean	Bit	Yes	22					
7	foliar_cover_present	foliarcoverpresent	Foliar Cover Present ?	Boolean	Bit	Yes	22					
8	basal_cover_present	basalcoverpresent	Basal Cover Present ?	Boolean	Bit	Yes	21					
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	point_plant_cov_details_iid	pointplantcovdetailsiid	Rec ID	Integer	Int	Yes	11					

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

# NASIS 7.3.3 Tables and Columns

Table Logical Name: project  
Table Label: Project

Table Physical Name: project

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	user_project_id	uprojectid	User Project Id	String	Varchar	Yes	30					
2	project_name	projectname	Project Name	String	Varchar	Yes	30					
3	project_description	projectdesc	Description	Narrative Text	Varchar(max)	No	11					
4	project_approved_flag	projectapprovedflag	Approved?	Boolean	Bit	Yes	9					
5	project_type_iid_ref	projecttypeidref	Project Type	Integer	Int	No	12					
6	mlrassoarea_iid_ref	mlrassoareaidref	MLRA Soil Survey Office Area	Integer	Int	No	28					
7	mlrassoarea_type_iid_ref	mlrassoareatypeiidref	MLRA Soil Survey Office Area Type	Integer	Int	Yes	30					
8	nonmlrassaarea_iid_ref	nonmlrassaareaidref	Non-MLRA Soil Survey Area	Integer	Int	No	25					
9	nonmlrassaarea_type_iid_ref	nonmlrassaareatypeiidref	Non-MLRA Soil Survey Area Type	Integer	Int	Yes	30					
10	state_responsible	stateresponsible	State Responsible	Choice	Smallint	No	17					state_fips_code_alpha
11	editor_site	editorsite	English Edit Site	Choice	Smallint	No	17					editor_site
12	compilation_funding_year	compfundyr	Compilation Funding Year	Date/Time	Datetime	No	24					
13	dmf_site	dmfsite	Digital Map Finishing Site	Choice	Smallint	No	26					dmf_site
14	map_finish_method	mapfinishmeth	Map Finish Method	Choice	Smallint	No	17					map_finish_method
15	ssurgo_initiative	ssurgoinitiative	SSURGO Initiative?	Boolean	Bit	Yes	18					
16	digitizing_funding_year	digfundyr	Digitizing Funding Year	Date/Time	Datetime	No	23					
17	digitizing_unit	digunit	Digitizing Unit	Choice	Smallint	No	15					digitizing_unit
18	project_database_iid_ref	projectdbiidref	Project NASIS Site	Integer	Int	Yes	18					
19	group_iid_ref	grpIIDref	NASIS Group	Integer	Int	Yes	11					
20	object_when_last_updated	objwIupdated	Object Last Updated	Date/Time	Datetime	No	19					
21	object_user_iid_ref	objuseriidref	Object Last Updated By	Integer	Int	No	22					
22	record_when_last_updated	recwIupdated	Record Last Updated	Date/Time	Datetime	No	19					
23	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
24	project_iid	projectiid	Rec ID	Integer	Int	Yes	11					

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



## NASIS 7.3.3 Tables and Columns

Table Logical Name: project\_concern  
Table Label: Project Concern Need

Table Physical Name: projectconcern

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	project_iid_ref	projectiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	project_concern_type_iid_ref	projectconcerntypeidref	Project Concern Type	Integer	Int	Yes	20					
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	Yes	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	Yes	22					
6	project_concern_iid	projectconcerniid	Rec Id	Integer	Int	Yes	11					

Project concern need data.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: project\_concern\_type

Table Physical Name: projectconcernrntype

Table Label: Project Concern Type

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	project_concern_type_name	projectconcernrntypename	Project Concern Type Name	String	Varchar	Yes	30					
2	project_concern_type_desc	projectconcernrntypedesc	Project Concern Description	String	Varchar	No	30					
3	obsolete_term	obterm	Obsolete?	Boolean	Bit	Yes	9					
4	project_concern_type_db_iid_ref	projectconcernrntypedbiidref	Project Concern Type NASIS Site	Integer	Int	Yes	30					
5	group_iid_ref	grpriidref	NASIS Group	Integer	Int	Yes	11					
6	object_when_last_updated	objwupdated	Object Last Updated	Date/Time	Datetime	No	19					
7	object_user_iid_ref	objuseriidref	Object Last Updated By	Integer	Int	No	22					
8	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
10	project_concern_type_iid	projectconcernrntypeiid	Rec Id	Integer	Int	Yes	11					

Project concern type data.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: project\_correlation

Table Physical Name: projectcorrelation

Table Label: Project Correlation

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	project_iid_ref	projectiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	record_date	recdate	Date	Date/Time	Datetime	Yes	19					
4	record_author	recauthor	Author	String	Varchar	No	25					
5	correlation_type	corrtype	Correlation Type	Choice	Smallint	Yes	21					correlation_type
6	corr_amend_number	corramendnum	Amendment Number	Integer	Int	No	16		1			
7	correlation_document	corrdoc	Correlation Document	Narrative Text	Varchar(max)	Yes	20					
8	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
10	project_correlation_iid	projectcorrelationiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: project\_data\_need

Table Physical Name: projectdataneed

Table Label: Project Data Need

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	project_iid_ref	projectiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	project_data_type_iid_ref	projectdatatypeiidref	Project Data Type	Integer	Int	Yes	17					
4	project_imagery_scale	projectimageryscale	Project Imagery Scale	Integer	Int	No	21					
5	date_needed	dateneeded	Date Needed	Date/Time	Datetime	No	19					
6	date_ordered	dateordered	Date Ordered	Date/Time	Datetime	No	19					
7	date_received	datereceived	Date Received	Date/Time	Datetime	No	19					
8	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
10	project_data_need_iid	projectdataneediid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: project\_data\_type  
Table Label: Project Data Type

Table Physical Name: projectdatatype

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	project_data_type_name	projectdatatypepname	Project Data Type Name	String	Varchar	Yes	30					
2	project_data_type_description	projectdatatypepedesc	Project Data Type Description	String	Varchar	No	30					
3	obsolete_term	obterm	Obsolete?	Boolean	Bit	Yes	9					
4	project_data_type_db_iid_ref	projectdatatypedbiidref	Project Data Type NASIS Site	Integer	Int	Yes	28					
5	group_iid_ref	grpiidref	NASIS Group	Integer	Int	Yes	11					
6	object_when_last_updated	objwupdated	Object Last Updated	Date/Time	Datetime	No	19					
7	object_user_iid_ref	objuseridref	Object Last Updated By	Integer	Int	No	22					
8	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseridref	Record Last Updated By	Integer	Int	No	22					
10	project_data_type_iid	projectdatatypeiid	Rec ID	Integer	Int	Yes	11					

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.

### NASIS 7.3.3 Tables and Columns

Table Logical Name: project\_ecological\_site

Table Physical Name: projectecologicalsite

Table Label: Project Ecological Site

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	project_iid_ref	projectiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	ecological_site_iid_ref	ecositeiidref	Ecological Site	Integer	Int	Yes	15					
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	project_ecological_site_iid	projectecologicalsiteiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: project\_field\_review

Table Physical Name: projectfieldreview

Table Label: Project Field Review

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	project_iid_ref	projectiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	record_date	recdate	Date	Date/Time	Datetime	Yes	19					
4	record_author	recauthor	Author	String	Varchar	No	25					
5	correlation_event	corevent	Correlation Event	Choice	Smallint	Yes	24					correlation_event
6	review_document	reviewdoc	Review Document	Narrative Text	Varchar(max)	Yes	15					
7	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
8	record_user_iid_ref	recuseridref	Record Last Updated By	Integer	Int	No	22					
9	project_field_review_iid	projectfieldreviewiid	Rec ID	Integer	Int	Yes	11					

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

### NASIS 7.3.3 Tables and Columns

Table Logical Name: project\_land\_cat\_breakdown

Table Physical Name: projectlandcatbreakdown

Table Label: Project Land Category Breakdown

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	project_iid_ref	projectiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	project_land_category	projectlandcategory	Land Category	Choice	Smallint	Yes	25					legend_land_category
4	project_land_category_acres	projectlandcategoryacres	Land Category Acres	Integer	Int	Yes	19		0			
5	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
6	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
7	project_land_cat_brkdn_iid	projectlandcatbrkdniid	Rec ID	Integer	Int	Yes	11					

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



## NASIS 7.3.3 Tables and Columns

Table Logical Name: project\_mapping\_goal

Table Physical Name: projectmappinggoal

Table Label: Project Mapping Goal

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	project_iid_ref	projectiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	fiscal_year	fiscalyear	Fiscal Year	Integer	Smallint	Yes	11		1890	2100		
4	project_staff_iid_ref	projectstaffiidref	Project Staff Member	Integer	Int	No	20					
5	initial_nrcs_acres_goal	initnracsresg	Initial NRCS Acres Goal	Integer	Int	No	23		0		acres	
6	initial_cooperator_acres_goal	initcoopacresg	Initial Cooperator Acres Goal	Integer	Int	No	29		0		acres	
7	update_nrcs_acres_goal	updnracsresg	Update NRCS Acres Goal	Integer	Int	No	22		0		acres	
8	update_cooperator_acres_goal	updtcoopacresg	Update Cooperator Acres Goal	Integer	Int	No	28		0		acres	
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	project_mapping_goal_iid	projectmappinggoalIID	Rec ID	Integer	Int	Yes	11					

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.

### NASIS 7.3.3 Tables and Columns

Table Logical Name: project\_mapping\_progress

Table Physical Name: projectmappingprogress

Table Label: Project Mapping Progress

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	project_land_cat_brkdn_iid_ref	projectlandcatbrkdniidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	progress_reporting_date	progrptdate	Progress Reporting Date	Date/Time	Datetime	Yes	23					
4	initial_nracs_acres	initnracsacres	Initial NRCS Acres	Integer	Int	No	18		0		acres	
5	initial_cooperator_acres	initcoopacres	Initial Cooperator Acres	Integer	Int	No	24		0		acres	
6	update_nracs_acres	updnracsacres	Update NRCS Acres	Integer	Int	No	17		0		acres	
7	update_cooperator_acres	updtcoopacres	Update Cooperator Acres	Integer	Int	No	23		0		acres	
8	project_staff_iid_ref	projectstaffiidref	Project Staff Member	Integer	Int	No	20					
9	project_iid_ref	projectiidref	Project	Integer	Int	Yes	11					
10	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
11	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
12	project_mapping_progress_iid	projectmappingprogressiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: project\_mapunit  
Table Label: Project Mapunit

Table Physical Name: projectmapunit

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	project_iid_ref	projectiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	mapunit_iid_ref	muidref	Mapunit	Integer	Int	Yes	11					
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	project_mapunit_iid	projectmapunitiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: project\_milestone

Table Physical Name: projectmilestone

Table Label: Project Milestone

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	project_iid_ref	projectiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	milestone_type_iid_ref	milestonetypeiidref	Milestone Type	Integer	Int	Yes	14					
4	milestone_description	milestonedesc	Milestone Description	String	Varchar	No	30					
5	scheduled_start_date	scheduledstartdate	Scheduled Start Date	Date/Time	Datetime	No	20					
6	scheduled_completion_date	scheduledcompletiondate	Scheduled Completion Date	Date/Time	Datetime	No	25					
7	milestone_date_started	milestonedatestarted	Milestone Date Started	Date/Time	Datetime	No	22					
8	milestone_date_completed	milestonedatecompleted	Milestone Date Completed	Date/Time	Datetime	No	24					
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	project_milestone_iid	projectmilestoneiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: project\_milestone\_progress

Table Physical Name: projectmilestoneprogress

Table Label: Project Milestone Progress

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	project_milestone_iid_ref	projectmilestoneiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	fiscal_year	fiscalyear	Fiscal Year	Integer	Smallint	Yes	11		1890	2100		
4	milestone_progress_amount	milestoneprogressamount	Milestone Progress Amount	Integer	Int	Yes	25					
5	milestone_progress_unit	milestoneprogressunit	Milestone Progress Unit	Choice	Smallint	Yes	26					milestone_progress_unit
6	project_staff_iid_ref	projectstaffiidref	Project Staff Member	Integer	Int	No	20					
7	project_iid_ref	projectiidref	Project	Integer	Int	Yes	11					
8	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
10	project_milestone_progress_iid	projectmilestoneprogressiid	Rec ID	Integer	Int	Yes	11					

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

### NASIS 7.3.3 Tables and Columns

Table Logical Name: project\_product  
Table Label: Project Product

Table Physical Name: projectproduct

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	project_iid_ref	projectiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	product_type	prodtype	Product Type	Choice	Smallint	Yes	30					product_type
4	product_description	proddesc	Product Description	String	Varchar	No	30					
5	product_scheduled	prodsch	Scheduled Delivery	Date/Time	Datetime	No	19					
6	product_text_formatted	ptextform	Product Text Formatted	Date/Time	Datetime	No	22					
7	product_text_proofed	ptextproof	Product Text Proofed	Date/Time	Datetime	No	20					
8	product_text_completed	ptextcomplete	Product Text Completed	Date/Time	Datetime	No	22					
9	product_text_submitted	ptextsubmit	Product Text Submitted	Date/Time	Datetime	No	22					
10	product_delivered	proddel	Actual Delivery	Date/Time	Datetime	No	19					
11	product_availability_status	prodastat	Availability Status	Boolean	Bit	Yes	19					
12	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
13	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
14	project_product_iid	projectproductiid	Rec ID	Integer	Int	Yes	11					

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 7.3.3 Tables and Columns

Table Logical Name: project\_staff  
Table Label: Project Staff

Table Physical Name: projectstaff

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	project_iid_ref	projectiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	project_staff_user_iid_ref	projectstaffuseridref	Project Staff Member	Integer	Int	Yes	20					
4	project_leader_flag	projectleaderflag	Project Leader?	Boolean	Bit	Yes	15					
5	record_when_last_updated	recwlastupdated	Record Last Updated	Date/Time	Datetime	No	19					
6	record_user_iid_ref	recuseridref	Record Last Updated By	Integer	Int	No	22					
7	project_staff_iid	projectstaffiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: project\_text  
Table Label: Project Text

Table Physical Name: projecttext

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	project_iid_ref	projectiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	record_date	recdate	Date	Date/Time	Datetime	Yes	19					
4	record_author	recauthor	Author	String	Varchar	No	25					
5	project_text_kind	projecttextkind	Kind	Choice	Smallint	Yes	19					project_text_kind
6	text_category	textcat	Category	String	Varchar	No	20					
7	text_subcategory	textsubcat	Subcategory	String	Varchar	No	20					
8	text_entry	textentry	Text Entry	Narrative Text	Varchar(max)	No	10					
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	project_text_iid	projecttextiid	Rec ID	Integer	Int	Yes	11					

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



## NASIS 7.3.3 Tables and Columns

Table Logical Name: project\_type  
Table Label: Project Type

Table Physical Name: projectype

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	project_type_name	projectypename	Project Type Name	String	Varchar	Yes	30					
2	project_type_description	projectypedesc	Description	String	Varchar	No	30					
3	obsolete_term	obterm	Obsolete?	Boolean	Bit	Yes	9					
4	project_type_db_iid_ref	projectypedbiidref	Project Type NASIS Site	Integer	Int	Yes	23					
5	group_iid_ref	grpIIDref	NASIS Group	Integer	Int	Yes	11					
6	object_when_last_updated	objwIupdated	Object Last Updated	Date/Time	Datetime	No	19					
7	object_user_iid_ref	objuseriidref	Object Last Updated By	Integer	Int	No	22					
8	record_when_last_updated	recwIupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
10	project_type_iid	projectypeiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: property  
Table Label: Property

Table Physical Name: property

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
2	property_name	propname	Property Name	String	Varchar	Yes	30					
3	property_description	propdesc	Description	Narrative Text	Varchar(max)	No	11					
4	property_data_type	propdatatype	Data Type	Choice	Smallint	Yes	9					property_data_type
5	property	prop	Property	Property	Varchar(max)	Yes	11					
6	property_modality	propmod	Modality	Choice	Smallint	Yes	30					property_modality
7	property_unit_of_measure	propuom	Units	String	Varchar	No	30					
8	property_minimum	propmin	<b>Min</b>	Float	Float	No	17	4				
9	property_maximum	propmax	<b>Max</b>	Float	Float	No	17	4				
10	property_default_value	propdefval	Default Value	String	Varchar	No	30					
11	data_approved_for_use	dataafuse	Ready to use?	Boolean	Bit	Yes	13					
12	property_database_iid_ref	propdbiidref	Property NASIS Site	Integer	Int	Yes	19					
13	group_iid_ref	grpIIDref	NASIS Group	Integer	Int	Yes	11					
14	object_when_last_updated	objwIupdated	Object Last Updated	Date/Time	Datetime	No	19					
15	object_user_iid_ref	objuseriidref	Object Last Updated By	Integer	Int	No	22					
16	record_when_last_updated	recwIupdated	Record Last Updated	Date/Time	Datetime	No	19					
17	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
18	property_iid	propiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: property\_text  
Table Label: Property Text

Table Physical Name: propertytext

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	property_iid_ref	propiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	record_date	recdate	Date	Date/Time	Datetime	No	19					
4	record_author	recauthor	Author	String	Varchar	No	25					
5	text_kind	textkind	Kind	Choice	Smallint	No	19					text_kind_general
6	text_category	textcat	Category	String	Varchar	No	20					
7	text_subcategory	textsubcat	Subcategory	String	Varchar	No	20					
8	text_entry	textentry	Text Entry	Narrative Text	Varchar(max)	No	10					
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	property_text_iid	proptextiid	Rec ID	Integer	Int	Yes	11					

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.

### NASIS 7.3.3 Tables and Columns

Table Logical Name: query  
Table Label: Query

Table Physical Name: query

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
2	query_name	qryname	Query Name	String	Varchar	Yes	30					
3	query_description	qrydesc	Description	Narrative Text	Varchar(max)	No	11					
4	query	query	Query	Query	Varchar(max)	Yes	8					
5	data_approved_for_use	dataafuse	Ready to use?	Boolean	Bit	Yes	13					
6	query_database_iid_ref	qrydbiidref	Query NASIS Site	Integer	Int	Yes	16					
7	group_iid_ref	grpIIDref	NASIS Group	Integer	Int	Yes	11					
8	object_when_last_updated	objwIupdated	Object Last Updated	Date/Time	Datetime	No	19					
9	object_user_iid_ref	objuserIIDref	Object Last Updated By	Integer	Int	No	22					
10	record_when_last_updated	recwIupdated	Record Last Updated	Date/Time	Datetime	No	19					
11	record_user_iid_ref	recuserIIDref	Record Last Updated By	Integer	Int	No	22					
12	query_iid	qryiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: query\_favorites  
Table Label: Query Favorites

Table Physical Name: queryfavorites

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	user_iid_ref	useridref	NASIS User	Integer	Int	Yes	11					
2	query_iid_ref	qryiidref	Query	Integer	Int	Yes	11					
3	query_favorite_iid	queryfavoriteiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: query\_text  
Table Label: Query Text

Table Physical Name: querytext

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	query_iid_ref	qryiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	record_date	recdate	Date	Date/Time	Datetime	No	19					
4	record_author	recauthor	Author	String	Varchar	No	25					
5	text_kind	textkind	Kind	Choice	Smallint	No	19					text_kind_general
6	text_category	textcat	Category	String	Varchar	No	20					
7	text_subcategory	textsubcat	Subcategory	String	Varchar	No	20					
8	text_entry	textentry	Text Entry	Narrative Text	Varchar(max)	No	10					
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	query_text_iid	qrytextiid	Rec ID	Integer	Int	Yes	11					

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 7.3.3 Tables and Columns

Table Logical Name: relationship\_master

Table Physical Name: relationshipmaster

Table Label: Relationship Master

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	index_iid_ref	indexiidref	Lineage	Integer	Int	Yes	11					
2	dependency_index_iid_ref	depindexiidref	Dependency Index	Integer	Int	Yes	16					
3	system_iid_ref	sysiidref	System	Integer	Int	Yes	11					
4	relationship_name	relationshipname	Relationship Name	String	Varchar	Yes	30					
5	delete_fail	deletefail	Fail on Delete?	Boolean	Bit	Yes	15					
6	cardinality	cardinality	Cardinality	Choice	Smallint	Yes	16					cardinality_nasis
7	mandatory	mandatory	Mandatory?	Boolean	Bit	Yes	10					
8	in_hierarchy	inhierarchy	In Hierarchy?	Boolean	Bit	Yes	13					
9	favorite_child	favoritechild	Favorite Child?	Boolean	Bit	Yes	15					
10	load_find_related	loadfindrelated	Traverse?	Boolean	Bit	Yes	9					
11	paste	paste	Allow Paste?	Boolean	Bit	Yes	12					
12	constraint_deferrable	constraintdeferrable	Constraint Deferrable?	Boolean	Bit	Yes	22					
13	foreign_key_constraint_name	foreignkeyconstraintname	Foreign Key Constraint Name	String	Varchar	No	30					
14	relationship_id	relationshipid	Relationship ID	Integer	Int	No	15					
15	originating_person	orgper	Originating Person	String	Varchar	No	30					
16	contact_person	conper	Contact Person	String	Varchar	No	30					
17	pending_action	pendact	Pending Action	Choice	Smallint	No	14					pending_action
18	pending_status	pendstat	Pending Status	Choice	Smallint	No	14					pending_status
19	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
20	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
21	relationship_iid	relationshipiid	Relationship	Integer	Int	Yes	12					

Relationship master data

### NASIS 7.3.3 Tables and Columns

Table Logical Name: relationship\_master\_history

Table Physical Name: relationshipmasterhist

Table Label: Relationship Master History

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	relationship_iid_ref	relationshipiidref	Lineage	Integer	Int	Yes	11					
2	note_date	notedate	Date	Date/Time	Datetime	No	19					
3	notes	notes	Notes	Narrative Text	Varchar(max)	No	7					
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	relationship_note_iid	relationshipnoteiid	Rec ID	Integer	Int	Yes	11					

This table records changes made to a particular Relationship Master.



## NASIS 7.3.3 Tables and Columns

Table Logical Name: replication\_parameter

Table Physical Name: replicationparameter

Table Label: Replication Parameter

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	db_last_refreshed_timestamp	dblastrefreshedtimestamp	Database Last Refreshed Timestamp	Date/Time	Datetime	No	30					
2	lock_user_iid_ref	lockuseriidref	Lock NASIS User	Integer	Int	No	15					

This single record table records assorted replication related parameters.

### NASIS 7.3.3 Tables and Columns

Table Logical Name: report  
Table Label: Report

Table Physical Name: report

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
2	report_name	rptname	Report Name	String	Varchar	Yes	30					
3	report_description	rptdesc	Description	Narrative Text	Varchar(max)	No	11					
4	report_format	rptfmt	Report Format	Choice	Smallint	Yes	13					report_format
5	report	report	Report	Report	Varchar(max)	Yes	9					
6	data_approved_for_use	dataafuse	Ready to use?	Boolean	Bit	Yes	13					
7	report_database_iid_ref	rptdbiidref	Report NASIS Site	Integer	Int	Yes	17					
8	group_iid_ref	grpIIDref	NASIS Group	Integer	Int	Yes	11					
9	object_when_last_updated	objwIupdated	Object Last Updated	Date/Time	Datetime	No	19					
10	object_user_iid_ref	objuseriidref	Object Last Updated By	Integer	Int	No	22					
11	record_when_last_updated	recwIupdated	Record Last Updated	Date/Time	Datetime	No	19					
12	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
13	report_iid	rptIID	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: report\_column  
Table Label: Report Column

Table Physical Name: reportcolumn

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	report_iid_ref	rptiidref	Report	Integer	Int	Yes	11					
2	table_physical_name	tabphynm	Table Physical Name	String	Varchar	Yes	30					
3	column_physical_name	colphynm	Column Physical Name	String	Varchar	Yes	30					
4	report_column_iid	reportcolumniid	Rec ID	Integer	Int	Yes	11					

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 7.3.3 Tables and Columns

Table Logical Name: report\_favorites  
Table Label: Report Favorites

Table Physical Name: reportfavorites

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	user_iid_ref	useridref	NASIS User	Integer	Int	Yes	11					
2	report_iid_ref	rptiidref	Report	Integer	Int	Yes	11					
3	report_favorite_iid	reportfavoriteiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: report\_text  
Table Label: Report Text

Table Physical Name: reporttext

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	report_iid_ref	rptiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	record_date	recdate	Date	Date/Time	Datetime	No	19					
4	record_author	recauthor	Author	String	Varchar	No	25					
5	text_kind	textkind	Kind	Choice	Smallint	No	19					text_kind_general
6	text_category	textcat	Category	String	Varchar	No	20					
7	text_subcategory	textsubcat	Subcategory	String	Varchar	No	20					
8	text_entry	textentry	Text Entry	Narrative Text	Varchar(max)	No	10					
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	report_text_iid	rpttextiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: rule  
Table Label: Rule

Table Physical Name: rule

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
2	rule_name	rulename	Rule Name	String	Varchar	Yes	30					
3	rule_description	ruledesc	Description	Narrative Text	Varchar(max)	No	11					
4	rule	rule	Rule	Rule	Varchar(max)	Yes	7					
5	primary_interpretation	primaryinterp	Primary Interpretation?	Boolean	Bit	Yes	23					
6	rule_design	ruledesign	Rule Design	Choice	Smallint	Yes	11					rule_design
7	not_rated_phrase	notratedphrase	Not Rated Phrase	String	Varchar	Yes	30					
8	data_approved_for_use	dataafuse	Ready to use?	Boolean	Bit	Yes	13					
9	rule_database_iid_ref	ruledbidref	Rule NASIS Site	Integer	Int	Yes	15					
10	group_iid_ref	grpuidref	NASIS Group	Integer	Int	Yes	11					
11	object_when_last_updated	objwupdated	Object Last Updated	Date/Time	Datetime	No	19					
12	object_user_iid_ref	objuseridref	Object Last Updated By	Integer	Int	No	22					
13	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
14	record_user_iid_ref	recuseridref	Record Last Updated By	Integer	Int	No	22					
15	rule_iid	ruleiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: rule\_evaluation\_component  
Table Label: Rule Evaluation Component

Table Physical Name: ruleevalcomp

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	rule_iid_ref	ruleiidref	Rule	Integer	Int	Yes	11					
2	evaluation_iid_ref	evaliidref	Evaluation	Integer	Int	Yes	11					
3	rule_evaluation_component_iid	ruleeciid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: rule\_rating\_class  
Table Label: Rule Rating Class

Table Physical Name: ruleratingclass

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	rule_iid_ref	ruleiidref	Lineage	Integer	Int	Yes	11					
2	rating_class_name	ratingclassname	Rating Class Name	String	Varchar	Yes	30					
3	rating_class_upper_boundary	ratingclassupperboundary	Rating Class Upper Boundary	Float	Float	Yes	27	3				
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	rule_rating_class_iid	ruleratingclassiid	Rec ID	Integer	Int	Yes	11					

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



## NASIS 7.3.3 Tables and Columns

Table Logical Name: rule\_rule\_component  
Table Label: Rule Rule Component

Table Physical Name: rulerulecomp

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	rule_iid_ref	ruleiidref	Rule	Integer	Int	Yes	11					
2	rule_iid_ref_2	ruleiidref2	Subrule	Integer	Int	Yes	11					
3	rule_rule_component_iid	rulerciid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: rule\_text  
Table Label: Rule Text

Table Physical Name: ruletext

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	rule_iid_ref	ruleiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	record_date	recdate	Date	Date/Time	Datetime	No	19					
4	record_author	recauthor	Author	String	Varchar	No	25					
5	text_kind	textkind	Kind	Choice	Smallint	No	19					text_kind_general
6	text_category	textcat	Category	String	Varchar	No	20					
7	text_subcategory	textsubcat	Subcategory	String	Varchar	No	20					
8	text_entry	textentry	Text Entry	Narrative Text	Varchar(max)	No	10					
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	rule_text_iid	ruletextiid	Rec ID	Integer	Int	Yes	11					

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.

# NASIS 7.3.3 Tables and Columns

Table Logical Name: site  
Table Label: Site

Table Physical Name: site

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	user_site_id	usiteid	User Site ID	String	Varchar	Yes	30					
2	state_area_iid_ref	stateareaiidref	State FIPS	Integer	Int	No	11					
3	state_area_type_iid_ref	stateareatypeiidref	State	Integer	Int	Yes	11					
4	county_area_iid_ref	countyareaiidref	County Name	Integer	Int	No	11					
5	county_area_type_iid_ref	countyareatypeiidref	County	Integer	Int	Yes	11					
6	mlra_area_iid_ref	mlraareaiidref	MLRA Symbol	Integer	Int	No	11					
7	mlra_area_type_iid_ref	mlraareatypeiidref	MLRA	Integer	Int	Yes	11					
8	rca_site_id	rcasiteid	RaCA Site ID	String	Varchar	No	12					
9	rca_soil_group_id	rcasoilgroupid	RaCA Soil Group ID	String	Varchar	No	18					
10	dsp_plot_id	dspplotid	DSP Plot ID	String	Varchar	No	11					
11	sample_plot_configuration	sampleplotconfiguration	Plot Configuration	Choice	Smallint	No	18					sample_plot_configuraton
12	plot_baseline_azimuth	plotbaselineazimuth	Plot Baseline Azimuth	Integer	Int	No	21		0	360	degrees	
13	plot_baseline_length	plotbaselinelength	Plot Baseline Length	Integer	Int	No	20		1	1000	meters	
14	plot_width	plotwidth	Plot Width	Integer	Int	No	10		1	1000	meters	
15	plot_radius	plotradius	Plot Radius	Integer	Int	No	11		1	1000	meters	
16	plot_triangle_side_length	plottrianglesidelength	Triangle Plot Side Length	Integer	Int	No	25		1	100	meters	
17	plot_chain_max_width	plotchainmaxwidth	Chain Plot Max. Width	Integer	Int	No	21		1	1000	meters	
18	plot_chain_max_length	plotchainmaxlength	Chain Plot Max. Length	Integer	Int	No	22		1	1000	meters	
19	plot_offset_azimuth	plotoffsetazimuth	Plot Offset Azimuth	Integer	Int	No	19		0	360	degrees	
20	plot_offset_distance	plotoffsetdistance	Plot Offset Distance	Integer	Int	No	20		1	500	meters	
21	plot_creator	plotcreator	Plot/Site Set Up By	String	Varchar	No	30					
22	recorder	recorder	Plot or Site Recorder	String	Varchar	No	30					
23	latitude_degrees	latdegrees	Lat. Degrees	Integer	Smallint	No	12		0	90	degrees	
24	latitude_minutes	latminutes	Lat. Minutes	Integer	Smallint	No	12		0	60	minutes (lat/long)	
25	latitude_seconds	latseconds	Lat. Seconds	Float	Real	No	12	2	0	60	seconds (lat/long)	
26	latitude_direction	latdir	Lat. Direction	Choice	Smallint	No	14					latitude_direction
27	longitude_degrees	longdegrees	Long. Degrees	Integer	Smallint	No	13		0	180	degrees	
28	longitude_minutes	longminutes	Long. Minutes	Integer	Smallint	No	13		0	60	minutes (lat/long)	
29	longitude_seconds	longseconds	Long. Seconds	Float	Real	No	13	2	0	60	seconds (lat/long)	
30	longitude_direction	longdir	Long. Direction	Choice	Smallint	No	15					longitude_direction
31	horizontal_datum_name	horizdatnm	Datum Name	Choice	Smallint	No	25					horizontal_datum_name
32	location_description	locdesc	Location Description	Narrative Text	Varchar(max)	No	20					
33	plss_section_details	plsssdetails	PLSS Section Details	String	Varchar	No	30					
34	plss_section	plsssection	PLSS Section	Integer	Smallint	No	12		1	60		
35	plss_township	plsstownship	PLSS Township	String	Char	No	13					
36	plss_range	plssrange	PLSS Range	String	Char	No	10					
37	plss_meridian	plssmeridian	PLSS Meridian	Choice	Smallint	No	27					plss_meridian
38	utm_zone	utmzone	UTM Zone	Integer	Smallint	No	8		1	60		

# NASIS 7.3.3 Tables and Columns

39	utm_northing	utmnorthing	UTM Northing	Float	Float	No	12	2	0	10000000	meters	
40	utm_easting	utmeasting	UTM Easting	Float	Float	No	11	2	0	1000000	meters	
41	latitude_std_decimal_degrees	latstddecimaldegrees	Std Latitude	Float	Float	No	12	7	-90	90	degrees	
42	longitude_std_decimal_degrees	longstddecimaldegrees	Std Longitude	Float	Float	No	13	7	-180	180	degrees	
43	geographic_coord_source	geocoordsource	Coordinate Source	Choice	Smallint	No	30					geographic_coord_source
44	elevation	elev	Elevation	Float	Real	No	9	1	-300	8550	meters	
45	geomorphic_position_hills	geomposhill	Geomorphic Component - Hills	Choice	Smallint	No	28					geomor_pos_hill
46	geomorphic_position_mountains	geomposmntn	Geomorphic Component - Mountains	Choice	Smallint	No	30					geomor_pos_mountain
47	geomorphic_position_terraces	geompostree	Geomorphic Component - Terraces	Choice	Smallint	No	30					geomor_pos_terrace
48	geomorphic_position_flats	geomposflats	Geomorphic Component - Flats	Choice	Smallint	No	28					geomor_pos_flat
49	hillslope_profile	hillslopeprof	Hillslope Profile	Choice	Smallint	No	17					hillslope_profile
50	geomorph_slope_segment	geomslopeseg	Slope Position	Choice	Smallint	No	21					slope_segment
51	slope_gradient	slope	Slope Gradient	Float	Real	No	14	1	0	999	percent	
52	slope_aspect	aspect	Aspect	Integer	Smallint	No	6		0	360	degrees	
53	slope_length_usle	slopelenusle	Slope Length USLE	Integer	Smallint	No	17		0	4000	meters	
54	slope_length_point_runoff	slopelenuptro	Upslope Length	Float	Real	No	14	1	0	99999	meters	
55	shape_across	shapeacross	Slope Shape Across	Choice	Smallint	No	18					slope_shape
56	shape_down	shapedown	Slope Shape Up/Down	Choice	Smallint	No	19					slope_shape
57	slope_complexity	slopecomplex	Slope Complexity	Choice	Smallint	No	16					slope_complexity
58	local_physiographic_name	locphysnm	Local Physiographic Name	String	Varchar	No	30					
59	drainage_class	drainagecl	Drainage Class	Choice	Smallint	No	20					drainage_class
60	site_ksat_class_upper	siteksatclassupper	Ksat Class Upper	Choice	Smallint	No	16					sat_hyd_conductivity_class
61	site_ksat_class_lower	siteksatclasslower	Ksat Class Lower	Choice	Smallint	No	16					sat_hyd_conductivity_class
62	site_permeability_class	siteperm	Site Permeability - obsolete	Choice	Smallint	No	28					permeability_class
63	runoff	runoff	Local Runoff Class	Choice	Smallint	No	18					runoff
64	drainage_pattern	drainagepattern	Drainage Pattern	Choice	Smallint	No	16					drainage_pattern
65	parent_material_group_name	pmgroupname	Parent Material Group Name	String	Varchar	No	30					
66	climate_station_id	climstaid	Climate Station ID	String	Varchar	No	18					
67	climate_station_name	climstanm	Climate Station Name	String	Varchar	No	30					
68	climate_station_type	climstatype	Climate Station Type	String	Varchar	No	20					
69	mean_annual_frost_free_days	ffd	Frost Free Days	Integer	Smallint	No	15		0	365	days	
70	mean_annual_precipitation	map	MAP	Integer	Smallint	No	5		0	11500	mm	
71	rel_effective_annual_precip	reannualprecip	REAP	Integer	Smallint	No	5		0	11500	mm	
72	mean_annual_air_temperature	airtempa	MAAT	Float	Real	No	5	1	-50	50	degrees c	
73	mean_annual_soil_temperature	soiltempa	MAST	Float	Real	No	5	1	-40	50	degrees c	
74	mean_summer_air_temperature	airtemps	MSAT	Float	Real	No	5	1	-50	50	degrees c	
75	mean_summer_soil_temperature	soiltemps	MSST	Float	Real	No	5	1	-40	50	degrees c	
76	mean_winter_air_temperature	airtempw	MWAT	Float	Real	No	5	1	-50	50	degrees c	
77	mean_winter_soil_temperature	soiltempw	MWST	Float	Real	No	5	1	-40	50	degrees c	
78	benchmark_soil_flag	benchmarksoilflag	Benchmark Soil?	Boolean	Bit	Yes	15					
79	flooding_frequency_class	floodfreqcl	Flooding Frequency	Choice	Smallint	No	18					flooding_frequency_class
80	flooding_duration_class	flooddurcl	Flooding Duration	Choice	Smallint	No	17					flooding_duration_class
81	flooding_month_begin	floodmonthbeg	Flooding Month	Choice	Smallint	No	14					flooding_ponding_month
82	ponding_frequency_class	pondfreqcl	Ponding Frequency	Choice	Smallint	No	17					ponding_frequency_class
83	ponding_duration_class	ponddurcl	Ponding Duration	Choice	Smallint	No	16					ponding_duration_class
84	ponding_month_begin	pondmonthbeg	Ponding Month	Choice	Smallint	No	13					flooding_ponding_month
85	water_table_duration	wtabledur	Wet Soil Moisture Duration	Integer	Smallint	No	26		0	365	days	
86	gps_positional_error	gpspositionalerror	GPS - Positional Error	Float	Real	No	22	2	0	999.99	meters	

### NASIS 7.3.3 Tables and Columns

87	gps_pdop	gpspdop	GPS - PDOP	Integer	Int	No	10		0	50		
88	elevation_corrected	elevcorrected	Corrected Elevation	Float	Real	No	19	1	-300	8550	meters	
89	cowardin_wetland_system	cowardinwetlandsystem	Cowardin Wetland System	Choice	Smallint	No	23					cowardin_wetland_system
90	cowardin_wetland_subsystem	cowardinwetlandsubsystem	Cowardin Wetland Subsystem	Choice	Smallint	No	26					cowardin_wetland_subsystem
91	cowardin_wetland_class	cowardinwetlandclass	Cowardin Wetland Class	Choice	Smallint	No	22					cowardin_wetland_class
92	cowardin_wetland_subclass	cowardinwetlandsubclass	Cowardin Wetland Subclass	Choice	Smallint	No	25					cowardin_wetland_subclass
93	cowardin_moist_regime_modifier	cowardinmoistregimemodifier	Cowardin Moisture Regime Modifier	Choice	Smallint	No	16					cowardin_moist_regime_modifier
94	hgm_class	hgmclass	HGM Class	Choice	Smallint	No	18					hgm_class
95	hgm_subclass	hgmsubclass	HGM Subclass	String	Varchar	No	30					
96	hgm_modifier	hgmmodifier	HGM Modifier	String	Varchar	No	30					
97	legacy_ecological_site_id	legacyecositeid	Legacy Ecol. Site ID	String	Varchar	No	20					
98	legacy_ecological_site_name	legacyecositename	Legacy Ecol. Site Name	String	Varchar	No	25					
99	mean_frost_free_precipitation	meanfrostfreeprecip	MFFP	Integer	Int	No	5		0	11500	mm	
100	pe_index	peindex	PE Index	Integer	Int	No	8		1	400		
101	plot_established_year	plotestablishedyear	Plot Estab. Year	Integer	Int	No	16		1900	3000		
102	plot_number	plotnum	Plot #	Integer	Int	No	6		1	999		
103	site_database_iid_ref	sdbiidref	Site NASIS Site	Integer	Int	Yes	15					
104	group_iid_ref	grpIIDref	NASIS Group	Integer	Int	Yes	11					
105	object_when_last_updated	objwupdated	Object Last Updated	Date/Time	Datetime	No	19					
106	object_user_iid_ref	objuseriidref	Object Last Updated By	Integer	Int	No	22					
107	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
108	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
109	site_iid	siteiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: site\_area\_overlap  
Table Label: Site Area Overlap

Table Physical Name: siteaoverlap

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	site_iid_ref	siteiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	area_iid_ref	areaiidref	Area	Integer	Int	Yes	11					
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	site_area_overlap_iid	sareaoviid	Rec ID	Integer	Int	Yes	11					

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.

### NASIS 7.3.3 Tables and Columns

Table Logical Name: site\_association  
Table Label: Site Association

Table Physical Name: siteassoc

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	user_site_association_id	usiteassocid	User Site Association ID	String	Varchar	Yes	30					
2	site_assoc_database_iid_ref	sadbiidref	Site Association NASIS Site	Integer	Int	Yes	27					
3	group_iid_ref	grpriidref	NASIS Group	Integer	Int	Yes	11					
4	object_when_last_updated	objwupdated	Object Last Updated	Date/Time	Datetime	No	19					
5	object_user_iid_ref	objuseriidref	Object Last Updated By	Integer	Int	No	22					
6	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
7	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
8	site_assoc_iid	siteassociid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: site\_association\_site  
Table Label: Site Association Site

Table Physical Name: siteassocsite

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	site_assoc_iid_ref	siteassociidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	site_iid_ref	siteiidref	Associated Site	Integer	Int	Yes	15					
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	site_assoc_site_iid	siteasiteiid	Rec ID	Integer	Int	Yes	11					

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.



## NASIS 7.3.3 Tables and Columns

Table Logical Name: site\_associated\_soils  
Table Label: Site Associated Soils

Table Physical Name: siteassocsoi

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	site_iid_ref	siteiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	associated_soil	assocsoi	Associated Soil	String	Varchar	No	30					
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	site_associated_soils_iid	siteassocsoiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: site\_association\_text  
Table Label: Site Association Text

Table Physical Name: siteassotext

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	site_assoc_iid_ref	siteassociidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	record_date	recdate	Date	Date/Time	Datetime	No	19					
4	record_author	recauthor	Author	String	Varchar	No	25					
5	site_association_text_kind	siteassotextkind	Kind	Choice	Smallint	No	29					site_association_text_kind
6	text_category	textcat	Category	String	Varchar	No	20					
7	text_subcategory	textsubcat	Subcategory	String	Varchar	No	20					
8	text_entry	textentry	Text Entry	Narrative Text	Varchar(max)	No	10					
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	site_assoc_text_iid	siteatextiid	Rec ID	Integer	Int	Yes	11					

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

# NASIS 7.3.3 Tables and Columns

Table Logical Name: site\_bedrock  
Table Label: Site Bedrock

Table Physical Name: sitebedrock

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	site_iid_ref	siteiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	bedrock_order	bedrockorder	Vertical Order	Integer	Int	No	14		1			
4	geologic_group	geogroup	Geologic Group	String	Varchar	No	30					
5	geologic_formation	geoform	Geologic Formation	String	Varchar	No	30					
6	geologic_member	geomember	Geologic Member	String	Varchar	No	30					
7	bedrock_depth	bedrckdepth	Bedrock Depth	Integer	Int	No	13		0	9999	cm	
8	bedrock_kind	bedrckkind	Bedrock Kind	Choice	Smallint	No	30					bedrock_kind
9	bedrock_hardness	bedrckhardness	Bedrock Hardness	Choice	Smallint	No	19					rupture_resist_block_cem
10	bedrock_fracture_interval	bedrckfractint	Bedrock Fracture Interval	Choice	Smallint	No	25					bedrock_fracture_interval_class
11	bedrock_weathering	bedrckweather	Bedrock Weathering	Choice	Smallint	No	18					weathering
12	bedrock_strike	bedrckstrike	Bedrock Strike	Integer	Int	No	14		0	360	degrees	
13	bedrock_dip	bedrckdip	Bedrock Dip	Integer	Int	No	11		0	90	degrees	
14	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
15	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
16	site_bedrock_iid	sitebedrockiid	Rec ID	Integer	Int	Yes	11					

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

### NASIS 7.3.3 Tables and Columns

Table Logical Name: site\_ecological\_site\_history

Table Physical Name: siteecositehistory

Table Label: Site Ecological Site History

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	site_iid_ref	siteiidref	Lineage	Integer	Int	Yes	11					
2	ecological_site_corr_date	ecositecorrdate	Correlation Date	Date/Time	Datetime	No	19					
3	ecological_site_iid_ref	ecositeiidref	Ecological Site	Integer	Int	Yes	15					
4	classifier	classifier	Classifier	String	Varchar	No	30					
5	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
6	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
7	site_ecosite_history_iid	siteecositehistoryiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: site\_erosion\_accelerated  
Table Label: Site Erosion Accelerated

Table Physical Name: siteerosionacc

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	site_observation_iid_ref	siteobsiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	erosion_accelerated_kind	erokind	Kind	Choice	Smallint	No	30					erosion_accelerated_kind
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	site_erosion_accelerated_iid	siteeroacciid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: site\_geomorph\_desc

Table Physical Name: sitegeomordesc

Table Label: Site Geomorphic Description

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	site_iid_ref	siteiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	geomorph_feat_iid_ref	geomfiidref	Geomorphic Feature	Integer	Int	Yes	18					
4	geomorph_feat_modifier	geomfmod	Feature Modifier	String	Varchar	No	30					
5	geomorphic_feat_id	geomfeatid	Feature ID	Integer	Smallint	No	10					
6	exists_on_feature	existsonfeat	Exists on Feature ID	Integer	Smallint	No	20					
7	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
8	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
9	site_geomorph_desc_iid	sitegeomdiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: site\_iris\_tube\_data  
Table Label: Site IRIS Tube Data

Table Physical Name: siteiristubedata

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	site_observation_iid_ref	siteobsiidref	Lineage	Integer	Int	Yes	11					
2	iris_tube_id	iristubeid	Tube ID	Integer	Int	Yes	11					
3	top_depth_evaluated	topdepthevaluated	Top Depth Evaluated	Float	Real	Yes	19	1	0	200	cm	
4	bottom_depth_evaluated	bottomdepthevaluated	Bottom Depth Evaluated	Float	Real	Yes	22	1	0	200	cm	
5	date_installed	dateinstalled	Date Installed	Date/Time	Datetime	No	19					
6	date_removed	dateremoved	Date Removed	Date/Time	Datetime	No	19					
7	iron_removed_percent	ironpctremoved	Iron % Removed	Integer	Smallint	No	14		0	100	percent	
8	reduced_soil_flag	reducedsoilflag	Soil Reduced ?	Boolean	Bit	Yes	14					
9	iris_image_scan_file_name	irisimagefilename	Scan Image File Name	File Reference	Varchar	No	30					
10	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
11	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
12	site_iris_tube_data_iid	siteiristubedataiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: site\_iris\_tube\_image

Table Physical Name: siteiristubeimage

Table Label: Site IRIS Tube Image

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	site_iris_tube_data_iid_ref	siteiristubedataiiref	Lineage	Integer	Int	Yes	11					
2	iris_tube_image_scan	iristubeimagescan	Image Scan	Binary	Binary	Yes	10					
3	site_iris_tube_image_iid	siteiristubeimageiid	Rec ID	Integer	Int	Yes	11					

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



## NASIS 7.3.3 Tables and Columns

Table Logical Name: site\_mapunit\_overlap  
Table Label: Site Mapunit Overlap

Table Physical Name: sitemuoverlap

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	site_iid_ref	siteiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	legend_mapunit_iid_ref	lmapunitiidref	Legend Mapunit	Integer	Int	Yes	14					
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	site_mapunit_overlap_iid	smuoviid	Rec ID	Integer	Int	Yes	11					

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

# NASIS 7.3.3 Tables and Columns

Table Logical Name: site\_observation  
Table Label: Site Observation

Table Physical Name: siteobs

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	site_iid_ref	siteiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	observation_date	obsdate	Observation Date	Date/Time	Datetime	Yes	19					
4	observation_date_kind	obsdatekind	Observation Date Kind	Choice	Smallint	No	30					observation_date_kind
5	data_collector	datacollector	Data Collector	String	Varchar	No	30					
6	project_iid_ref	projectiidref	Associated User Project ID	Integer	Int	No	11					
7	photograph_id	photoid	Air Photo ID	String	Varchar	No	12					
8	surface_water_kind	swaterkind	Surface Water Kind	Choice	Smallint	No	18					surface_water_kind
9	surface_water_depth	swaterdepth	Surface Water Depth	Integer	Smallint	No	19		1	1000	cm	
10	hydrology_status	hydrologystatus	Hydrology Status	Choice	Smallint	No	19					hydrology_status
11	geomorph_micro_relief	geomicrorelief	Microrelief Kind	Choice	Smallint	No	16					microrelief_kind
12	geomorph_microrelief_elevation	geommicrelv	Microrelief Elevation	Integer	Smallint	No	21		0	999	cm	
13	geomorph_microrelief_pattern	geommicpat	Microrelief Pattern (obsolete)	Choice	Smallint	No	30					geomorph_microrelief_pattern
14	ecological_state_id	ecostateid	Ecol. State ID	Integer	Int	No	14		1	20		
15	ecological_state_name	ecostatename	Ecol. State Name	String	Varchar	No	30					
16	community_phase_id	commphaseid	Comm. Phase ID	Integer	Int	No	14		1	20		
17	community_phase_name	commphasename	Comm. Phase Name	String	Varchar	No	30					
18	plant_association_name	plantassocnm	Plant Association Name	String	Varchar	No	30					
19	earth_cover_kind_level_one	earthcovkind1	Cover Kind 1	Choice	Smallint	No	22					earth_cover_kind_level_one
20	earth_cover_kind_level_two	earthcovkind2	Cover Kind 2	Choice	Smallint	No	30					earth_cover_kind_level_two
21	resource_retention_class	resourceretentionclass	Res. Retention Class	Choice	Smallint	No	20					resource_retention_class
22	bare_area_max_width	bareareamaxwidth	Bare Area Max. Width	Integer	Int	No	20		0	5000	cm	
23	pedoderm_class	pedodermclass	Pedoderm Class	Choice	Smallint	No	17					pedoderm_class
24	pedoderm_loose_cover_indicator	pedodermcovind	Pedoderm Loose Cover Indicator	Boolean	Bit	Yes	30					
25	biological_crust_type_dom	biolcrusttypedom	Biol. Crust Type Dominant	Choice	Smallint	No	25					biological_crust_type
26	biological_crust_type_second	biolcrusttypesecnd	Biol. Crust Type Secondary	Choice	Smallint	No	26					biological_crust_type
27	physical_crust_subtype	physcrustsubtype	Phys Crust Subtype	Choice	Smallint	No	21					physical_crust_subtype
28	crust_development_class	crustdevcl	Crust Dev Class	Choice	Smallint	No	15					crust_development_class
29	soil_redistribution_class	soilredistributionclass	Soil Redistribution Class	Choice	Smallint	No	25					soil_redistribution_class
30	exposed_soil_percent	exposedsoilpct	Exposed Soil Percent	Integer	Smallint	No	20		0	100	percent	
31	local_disturbance_distance	localdisturbancedistance	Local Disturb. Distance	Integer	Int	No	23		1		meters	
32	local_disturbance_description	localdisturbancedescription	Local Disturb. Description	String	Varchar	No	30					
33	drained_flag	drainedflag	Drained?	Boolean	Bit	Yes	8					
34	bedding_flag	beddingflag	Bedded Soil?	Boolean	Bit	Yes	12					
35	plantation_flag	plantationflag	Forest Plantation?	Boolean	Bit	Yes	18					
36	forest_rotation_stage	forestrotationstage	Forest Rotation Stage	Choice	Smallint	No	21					forest_rotation_stage
37	yield_study_identification	yldstudyid	Yield Study ID	String	Varchar	No	14					
38	current_weather_conditions	currweathcond	Current Weather	Choice	Smallint	No	15					weather_conditions
39	current_air_temp	currairtemp	Current Air Temp	Integer	Int	No	16		-50	55	degrees c	
40	tidal_period	tidalperiod	Tidal Period	Choice	Smallint	No	12					tidal_period
41	bottom_type	bottomtype	Bottom Type	Choice	Smallint	No	28					bottom_type
42	sas_water_temp_upper	saswatertempupper	Water Temp - Upper	Integer	Int	No	18		-10	50	degrees c	

### NASIS 7.3.3 Tables and Columns

43	sas_water_temp_lower	saswatertemlower	Water Temp - Lower	Integer	Int	No	18		-10	50	degrees c	
44	sas_water_ph_upper	saswaterphupper	Water pH - Upper	Float	Real	No	16	1	1	13		
45	sas_water_ph_lower	saswaterphlower	Water pH - Lower	Float	Real	No	16	1	1	13		
46	ph_determination_method	phdetermeth	Water pH Method	Choice	Smallint	No	29					ph_determination_method
47	sas_dissolved_oxygen_upper	sasdissolvedoxyupper	Dissolved Oxygen - Upper	Float	Real	No	24	1			mg/l	
48	sas_dissolved_oxygen_lower	sasdissolvedoxylower	Dissolved Oxygen - Lower	Float	Real	No	24	1			mg/l	
49	sas_water_salinity_upper	saswatersalinityupper	Water Salinity - Upper	Float	Real	No	22	1			ppt	
50	sas_water_salinity_lower	saswatersalinitylower	Water Salinity - Lower	Float	Real	No	22	1			ppt	
51	current_season_precipitation	currentseasonprecip	Current Season Precip.	Integer	Int	No	22		0	11500	mm	
52	current_year_precip	currentyearprecip	Current Year Precip.	Choice	Smallint	No	20					current_year_precip
53	extra_moisture_source	extramoisturesource	Extra Moisture Source	Choice	Smallint	No	21					extra_moisture_source
54	growing_season_rating	growingseasonrating	Growing Season Rating	Choice	Smallint	No	21					growing_season_rating
55	land_kind	landkind	Kind of Land	Choice	Smallint	No	30					land_kind
56	saf_cover_type	safovertype	SAF Cover Type	Choice	Smallint	No	30					saf_cover_type
57	stm_version_id	stmversionid	STM Version ID	String	Varchar	No	14					
58	rosgen_stream_type	rosgenstreamtype	Rosgen Stream Type	Choice	Smallint	No	18					rosgen_stream_type
59	rosgen_stream_subclass	rosgenstreamsubclass	Rosgen Stream Subclass	Choice	Smallint	No	18					rosgen_stream_subclass
60	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
61	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
62	site_observation_iid	siteobsiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: site\_observation\_text  
Table Label: Site Observation Text

Table Physical Name: siteobstext

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	site_observation_iid_ref	siteobsiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	record_date	recdate	Date	Date/Time	Datetime	No	19					
4	record_author	recauthor	Author	String	Varchar	No	25					
5	site_observation_text_kind	siteobstextkind	Kind	Choice	Smallint	No	29					site_observation_text_kind
6	text_category	textcat	Category	String	Varchar	No	20					
7	text_subcategory	textsubcat	Subcategory	String	Varchar	No	20					
8	text_entry	textentry	Text Entry	Narrative Text	Varchar(max)	No	10					
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	site_observation_text_iid	siteobstextiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: site\_other\_veg\_class

Table Physical Name: siteothvegclass

Table Label: Site Other Vegetative Classification

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	site_iid_ref	siteiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	oth_veg_class_iid_ref	ovegcliidref	Other Veg Class	Integer	Int	Yes	15					
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	site_other_veg_class_iid	siteovegcliid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: site\_parent\_material  
Table Label: Site Parent Material

Table Physical Name: sitepm

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	site_iid_ref	siteiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	parent_material_order	pmorder	Vertical Order	Integer	Smallint	No	14		1			
4	parent_mat_depth_to_top	pmdept	Top Depth	Integer	Smallint	No	9		0	9999	cm	
5	parent_mat_depth_to_bottom	pmdepb	Bottom Depth	Integer	Smallint	No	12		0	9999	cm	
6	parent_material_modifier	pmmodifier	Textural Modifier	Choice	Smallint	No	18					parent_material_modifier
7	parent_material_general_mod	pmgenmod	General Modifier	String	Varchar	No	30					
8	parent_material_kind	pmkind	Kind	Choice	Smallint	No	30					parent_material_kind
9	parent_material_origin	pmorigin	Origin	Choice	Smallint	No	30					parent_material_origin
10	parent_material_weathering	pmweathering	Weathering (Obsolete)	Choice	Smallint	No	21					weathering
11	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
12	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
13	site_parent_material_iid	sitepmiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: site\_soil\_moisture

Table Physical Name:

sitesoilmoist

Table Label: Site Soil Moisture

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	site_observation_iid_ref	siteobsiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	soil_moist_depth_to_top	soimoistdept	Top Depth	Integer	Smallint	No	9		0	9999	cm	
4	soil_moist_depth_to_bottom	soimoistdepb	Bottom Depth	Integer	Smallint	No	12		0	9999	cm	
5	soil_moisture_sensor_depth	soilmoistsensordepth	Sensor Depth	Float	Real	No	12	1	0		cm	
6	soil_moisture_sensor_kind	soilmoistsensorkind	Sensor Kind	Choice	Smallint	No	23					soil_moisture_sensor_kind
7	observed_soil_moisture_status	obssoimoiststat	Observed Moisture State	Choice	Smallint	No	23					observed_soil_moisture_status
8	observed_soil_moisture_percent	obssoimoist	Vol Moisture %	Integer	Smallint	No	14		0	100	percent	
9	obs_grav_soil_moist_percent	obsgrsoimoist	Grav. Soil Moist % Whole Soil	Integer	Smallint	No	29		0		percent	
10	soil_moisture_tension	soimoistten	Moisture Tension	Float	Real	No	16	3	0	25	bars	
11	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
12	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
13	site_soil_moisture_iid	sitesmiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: site\_soil\_temperature  
Table Label: Site Soil Temperature

Table Physical Name: sitesoiltemp

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	site_observation_iid_ref	siteobsiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	soil_temperature_depth	soitempdep	Depth	Integer	Smallint	No	5		0	9999	cm	
4	soil_temp_sensor_kind	soiltempensorkind	Sensor Kind	Choice	Smallint	No	21					soil_temperature_sensor_kind
5	soil_temperature	soitemp	Temperature	Float	Real	No	11	2	-40	50	degrees c	
6	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
7	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
8	site_soil_temperature_iid	sitestiid	Rec ID	Integer	Int	Yes	11					

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.



## NASIS 7.3.3 Tables and Columns

Table Logical Name: site\_surface\_fragments  
Table Label: Site Surface Fragments

Table Physical Name: sitesurffrags

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	site_observation_iid_ref	siteobsiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	surface_frag_cover_percent	sfragcov	Cover %	Float	Real	No	7	2	0	100	percent	
4	mean_distance_between_rocks	distrocks	Spacing	Float	Real	No	7	2	0	50	meters	
5	surface_frag_size	sfragsize	Size	Integer	Smallint	No	6		2		mm	
6	surface_frag_kind	sfragkind	Kind	Choice	Smallint	No	30					fragment_kind
7	surface_frag_shape	sfragshp	Shape	Choice	Smallint	No	7					fragment_shape
8	surface_frag_roundness	sfraground	Roundness	Choice	Smallint	No	12					fragment_roundness
9	surface_frag_hardness	sfraghard	Hardness	Choice	Smallint	No	19					rupture_resist_block_cem
10	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
11	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
12	site_surface_fragments_iid	sitesurffragsiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: site\_text  
Table Label: Site Text

Table Physical Name: sitetext

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	site_iid_ref	siteiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	record_date	recdate	Date	Date/Time	Datetime	No	19					
4	record_author	recauthor	Author	String	Varchar	No	25					
5	site_text_kind	sitetextkind	Kind	Choice	Smallint	No	26					site_text_kind
6	text_category	textcat	Category	String	Varchar	No	20					
7	text_subcategory	textsubcat	Subcategory	String	Varchar	No	20					
8	text_entry	textentry	Text Entry	Narrative Text	Varchar(max)	No	10					
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	site_text_iid	sitetextiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: site\_trees\_counted

Table Physical Name: sitetreescounted

Table Label: Site Trees Counted

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	site_woody_basal_area_iid_ref	sitewoodybasalareaiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	tree_diameter_breast_height	treediameterbreastheight	Diameter Breast Height	Float	Real	Yes	22	1	1	360	inches	
4	tree_height	treeheight	Tree Height	Float	Real	Yes	11	1	1	500	feet	
5	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
6	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
7	site_trees_counted_iid	treescountediid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: site\_usgs\_quadrangle\_overlap

Table Physical Name: siteusgsquadrangleoverlap

Table Label: Site USGS Quadrangle Overlap

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	site_iid_ref	siteiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	usgs_quadrangle_iid_ref	usgsquadrangleiidref	USGS Quadrangle	Integer	Int	Yes	15					
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	site_usgs_quad_overlap_iid	siteusgsquadoviid	Rec ID	Integer	Int	Yes	11					

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

### NASIS 7.3.3 Tables and Columns

Table Logical Name: site\_woody\_basal\_area

Table Physical Name: sitewoodybasalarea

Table Label: Site Woody Basal Area

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	vegetation_plot_iid_ref	vegplotiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	basal_area_factor	basalareafactor	Basal Area Factor	Choice	Smallint	Yes	17					basal_area_factor
4	number_of_trees_in	numberoftreesin	Number of Trees In	Integer	Int	Yes	18		0			
5	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
6	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
7	site_woody_basal_area_iid	sitewoodybasalareaiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: soil\_moist\_monitor\_data

Table Physical Name: soilmoistmonitordata

Table Label: Soil Moisture Monitor Data

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	soil_monitor_data_iid_ref	soilmonitordataiidref	Lineage	Integer	Int	Yes	11					
2	sensor_id	sensorid	Sensor ID	Integer	Int	Yes	11		1			
3	soil_moisture_sensor_depth	soilmoistsensordepth	Sensor Depth	Float	Real	Yes	12	1	0		cm	
4	soil_moisture_sensor_kind	soilmoistsensorkind	Sensor Kind	Choice	Smallint	No	23					soil_moisture_sensor_kind
5	soil_moist_vol_daily_min	soilmoistvoldailymin	Min Soil Moisture - Vol	Float	Real	No	23	2	0	100	percent	
6	soil_moist_vol_daily_ave	soilmoistvoldailyave	Ave Soil Moisture - Vol	Float	Real	No	23	2	0	100	percent	
7	soil_moist_vol_daily_max	soilmoistvoldailymax	Max Soil Moisture - Max	Float	Real	No	23	2	0	100	percent	
8	notes	notes	Notes	Narrative Text	Varchar(max)	No	7					
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	soil_moist_monitor_data_iid	soilmoistmonitordataiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: soil\_monitor\_data  
Table Label: Soil Monitor Data

Table Physical Name: soilmonitordata

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	pedon_iid_ref	peiidref	Lineage	Integer	Int	Yes	11					
2	station_id	stationid	Station ID	String	Varchar	Yes	30					
3	observation_date	obsdate	Observation Date	Date/Time	Datetime	Yes	19					
4	daily_precip_measured	dailyprecipmeasured	Daily Precipitation	Float	Real	No	19	2	0		cm	
5	air_temp_measured_daily_min	airtempmin	Min Air Temp	Float	Real	No	12	2	-50	50	degrees c	
6	air_temp_measured_daily_ave	airtempave	Ave Air Temp	Float	Real	No	12	2	-50	50	degrees c	
7	air_temp_measured_daily_max	airtempmax	Max Air Temp	Float	Real	No	12	2	-50	50	degrees c	
8	air_temp_sensor_height	airtempensorheight	Temp Sensor Height	Integer	Int	No	18		1		cm	
9	notes	notes	Notes	Narrative Text	Varchar(max)	No	7					
10	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
11	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
12	soil_monitor_data_iid	soilmonitordataiid	Rec ID	Integer	Int	Yes	11					

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

# NASIS 7.3.3 Tables and Columns

Table Logical Name: soil\_series  
Table Label: Soil Series

Table Physical Name: soilseries

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	soil_series_name	soilseriesname	Soil Series Name	String	Varchar	Yes	25					
2	soil_tax_class_last_updated	soiltaxclasslastupdated	Soil Taxonomic Classification Last Updated?	Date/Time	Datetime	No	30					
3	mlra_office	mlraoffice	MLRA Office	Choice	Smallint	No	26					mlra_office
4	type_loc_st_area_iid_ref	typelocstareaiidref	Type Location State	Integer	Int	No	19					
5	type_loc_st_area_type_iid_ref	typelocstareatypeiidref	Type Location State Area Type	Integer	Int	Yes	29					
6	soil_series_status	soilseriesstatus	Status	Choice	Smallint	No	11					series_status
7	taxonomic_classification_name	taxclname	Taxonomic Class	String	Varchar	No	30					
8	taxonomic_order	taxorder	Order	Choice	Smallint	No	11					taxonomic_order
9	taxonomic_suborder	taxsuborder	Suborder	Choice	Smallint	No	9					taxonomic_suborder
10	taxonomic_great_group	taxgrtgroup	Great Group	Choice	Smallint	No	16					taxonomic_great_group
11	taxonomic_subgroup	taxsubgrp	Subgroup	Choice	Smallint	No	30					taxonomic_subgroup
12	taxonomic_family_particle_size	taxpartsize	Particle Size	Choice	Smallint	No	30					taxonomic_family_particle_size
13	taxonomic_family_part_size_mod	taxpartsizemod	Particle Size Mod	Choice	Smallint	No	17					taxonomic_family_part_size_mod
14	taxonomic_family_c_e_act_class	taxceactcl	CEC Activity Cl	Choice	Smallint	No	15					taxonomic_family_c_e_act_class
15	taxonomic_family_reaction	taxreaction	Reaction	Choice	Smallint	No	13					taxonomic_family_reaction
16	taxonomic_family_temp_class	taxtempcl	Temp Class	Choice	Smallint	No	15					taxonomic_family_temp_class
17	taxonomic_family_haht_mat_cl	taxfamhahatmatcl	HAHT Material Class	Choice	Smallint	No	19					taxonomic_family_haht_mat_class
18	origin_year	originyear	Origin Year	Integer	Smallint	No	11					
19	established_year	establishedyear	Established Year	Integer	Smallint	No	16					
20	description_date_initial	descriptiondateinitial	Description Date Initial	Date/Time	Datetime	No	24					
21	description_date_updated	descriptiondateupdated	Description Date Last Updated	Date/Time	Datetime	No	29					
22	benchmark_soil_flag	benchmarksoilflag	Benchmark Soil?	Boolean	Bit	Yes	15					
23	statsgo_flag	statsgoflag	STATSGO?	Boolean	Bit	Yes	8					
24	soil_series_edit_history	soilseriesedithistory	Soil Series Edit History	Narrative Text	Varchar(max)	No	24					
25	soil_series_database_iid_ref	soilseriesdbiidref	Soil Series NASIS Site	Integer	Int	Yes	22					
26	group_iid_ref	grpIIDref	NASIS Group	Integer	Int	Yes	11					
27	object_when_last_updated	objwIupdated	Object Last Updated	Date/Time	Datetime	No	19					
28	object_user_iid_ref	objuseriidref	Object Last Updated By	Integer	Int	No	22					
29	record_when_last_updated	recwIupdated	Record Last Updated	Date/Time	Datetime	No	19					
30	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
31	soil_series_iid	soilseriesiid	Rec ID	Integer	Int	Yes	11					

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



## NASIS 7.3.3 Tables and Columns

Table Logical Name: soil\_series\_mlras\_using

Table Physical Name: soilseriesmlrasusing

Table Label: Soil Series MLRAs Using

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	soil_series_iid_ref	soilseriesiidref	Lineage	Integer	Int	Yes	11					
2	mlra_area_iid_ref	mlraareaiidref	MLRA	Integer	Int	Yes	11					
3	mlra_area_type_iid_ref	mlraareatypeiidref	MLRA Area Type	Integer	Int	Yes	14					
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	soil_series_mlras_using_iid	soilseriesmlrasusingiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: soil\_series\_states\_using

Table Physical Name: soilseriesstatesusing

Table Label: Soil Series States Using

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	soil_series_iid_ref	soilseriesiidref	Lineage	Integer	Int	Yes	11					
2	state_area_iid_ref	stateareaiidref	State	Integer	Int	Yes	11					
3	state_area_type_iid_ref	stateareatypeiidref	State Area Type	Integer	Int	Yes	15					
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	soil_series_states_using_iid	soilseriesstatesusingiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: soil\_series\_tax\_fam\_other

Table Physical Name: soilseriestaxfamother

Table Label: Soil Series Taxonomic Family Other

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	soil_series_iid_ref	soilseriesiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	taxonomic_family_other	taxfamother	Family Other	Choice	Smallint	Yes	20					taxonomic_family_other
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	soil_series_tax_fam_oth_iid	soilseriestaxfamothiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: soil\_series\_tax\_mineralogy

Table Physical Name: soilseriestaxmineralogy

Table Label: Soil Series Taxonomic Mineralogy

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	soil_series_iid_ref	soilseriesiidref	Lineage	Integer	Int	Yes	11					
2	mineralogy_order	minorder	Vertical Order	Integer	Smallint	Yes	14		1			
3	taxonomic_family_mineralogy	taxminalogy	Mineralogy	Choice	Smallint	Yes	29					taxonomic_family_mineralogy
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	soil_series_tax_min_iid	soilseriestaxminiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: soil\_temp\_monitor\_data

Table Physical Name: soiltempmonitordata

Table Label: Soil Temperature Monitor Data

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	soil_monitor_data_iid_ref	soilmonitordataiidref	Lineage	Integer	Int	Yes	11					
2	sensor_id	sensorid	Sensor ID	Integer	Int	Yes	11		1			
3	soil_temp_sensor_depth	soiltempsensordepth	Sensor Depth	Float	Real	Yes	12	1	0		cm	
4	soil_temp_sensor_kind	soiltempsensorkind	Sensor Kind	Choice	Smallint	No	21					soil_temperature_sensor_kind
5	soil_temp_daily_min	soiltempdailymin	Min Soil Temp	Float	Real	No	13	2	-40	50	degrees c	
6	soil_temp_daily_ave	soiltempdailyave	Ave Soil Temp	Float	Real	No	13	2	-40	50	degrees c	
7	soil_temp_daily_max	soiltempdailymax	Max Soil Temp	Float	Real	No	13	2	-40	50	degrees c	
8	notes	notes	Notes	Narrative Text	Varchar(max)	No	7					
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	soil_temp_monitor_data_iid	soiltempmonitordataiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: subplot\_plant\_details

Table Physical Name: subplotplantdetails

Table Label: Subplot Plant Details

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	plot_plant_inventory_iid_ref	plotplantinventoryiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	subplot_number	subplotnumber	Subplot #	Integer	Int	Yes	11		1			
4	subplot_size	subplotsize	Subplot Size	Float	Real	Yes	12	1	0.1		m2	
5	stem_count	stemcount	# of Stems	Integer	Int	Yes	11		1			
6	stem_diameter_average	stemdiameteraverage	Average Stem Diameter	Float	Real	Yes	21	1	0.1		inches	
7	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
8	record_user_iid_ref	recuseridref	Record Last Updated By	Integer	Int	No	22					
9	subplot_plant_details_iid	subplotplantdetailsiid	Rec ID	Integer	Int	Yes	11					

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

### NASIS 7.3.3 Tables and Columns

Table Logical Name: system  
Table Label: System

Table Physical Name: system

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	system_name	sysnm	System Name	String	Varchar	Yes	30					
2	system_version	sysver	System Version	String	Varchar	Yes	30					
3	system_description	sysdesc	Description	Narrative Text	Varchar(max)	No	11					
4	system_creation_date	syscreatedate	Creation Date	Date/Time	Datetime	No	19					
5	notes	notes	Notes	Narrative Text	Varchar(max)	No	7					
6	sql_advance_options	sqladvanceoptions	SQL Advance Options	Narrative Text	Varchar(max)	No	20					
7	system_database_iid_ref	sysdbiidref	System NASIS Site	Integer	Int	Yes	17					
8	group_iid_ref	grpIIDref	NASIS Group	Integer	Int	Yes	11					
9	object_when_last_updated	objwIupdated	Object Last Updated	Date/Time	Datetime	No	19					
10	object_user_iid_ref	objuseriidref	Object Last Updated By	Integer	Int	No	22					
11	record_when_last_updated	recwIupdated	Record Last Updated	Date/Time	Datetime	No	19					
12	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
13	system_iid	sysiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: system\_table  
Table Label: System Table

Table Physical Name: systemtable

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	table_collection_iid_ref	tablecollectiidref	Lineage	Integer	Int	Yes	11					
2	system_iid_ref	sysiidref	System	Integer	Int	Yes	11					
3	table_logical_name	tablognm	<b>Table Logical Name</b>	String	Varchar	Yes	30					
4	table_physical_name	tabphynm	Table Physical Name	String	Varchar	Yes	30					
5	table_label	tablab	Table Label	String	Varchar	Yes	30					
6	table_help_text	tabhelptext	Help Text	Narrative Text	Varchar(max)	No	9					
7	soil_entity_type	soilentitytype	Soil Entity Type	Choice	Smallint	No	25					soil_entity_type
8	import_export_file_name	importexportfilename	Import Export File Name	String	Varchar	Yes	30					
9	table_visible	tabvisible	Visible?	Boolean	Bit	Yes	8					
10	table_selectable	tabselectable	Selectable?	Boolean	Bit	Yes	11					
11	table_editable	tabeditable	Editable?	Boolean	Bit	Yes	9					
12	table_no_insert_or_delete	tabnoinsertordelete	No Insert?	Boolean	Bit	Yes	10					
13	table_root_table	tabroottable	Root Table?	Boolean	Bit	Yes	11					
14	table_temp	tabtemp	Temp Table?	Boolean	Bit	Yes	11					
15	table_aliased	tabaliased	Aliased?	Boolean	Bit	Yes	8					
16	table_static	tabstatic	Static Table?	Boolean	Bit	Yes	13					
17	table_client_database_only	tabclientonly	Client Only?	Boolean	Bit	Yes	12					
18	table_server_database_only	tabserveronly	Server Only?	Boolean	Bit	Yes	12					
19	table_create_as_view	tabcreateasview	Create As View?	Boolean	Bit	Yes	15					
20	table_staging_alias_required	tabssaliasreq	Staging Alias Required?	Boolean	Bit	Yes	23					
21	staging_counterpart_required	tabsscounterpartreq	Staging Counterpart Required?	Boolean	Bit	Yes	29					
22	table_pedon_pc_to_nasis	tabpedpctonasis	Pedon PC to NASIS?	Boolean	Bit	Yes	18					
23	ip_diag_msg_sql_stmt	ipdiagmsgsqlstmt	Import Pedon Diagnostic Message SQL Statement	Narrative Text	Varchar(max)	No	30					
24	dag_level	daglevel	DAG Level	Integer	Int	No	11					
25	table_id	tableid	Table ID	Integer	Int	No	11					
26	table_description	tabdesc	Description	Narrative Text	Varchar(max)	No	11					
27	sql_advance_options	sqladvanceoptions	SQL Advance Options	Narrative Text	Varchar(max)	No	20					
28	originating_person	orgper	Originating Person	String	Varchar	No	30					
29	contact_person	conper	Contact Person	String	Varchar	No	30					
30	pending_action	pendact	Pending Action	Choice	Smallint	No	14					pending_action
31	pending_status	pendstat	Pending Status	Choice	Smallint	No	14					pending_status
32	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
33	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
34	system_table_iid	syslabiid	Rec ID	Integer	Int	Yes	11					

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



## NASIS 7.3.3 Tables and Columns

Table Logical Name: system\_table\_history

Table Physical Name: systemtablehist

Table Label: System Table History

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	system_table_iid_ref	systabiidref	Lineage	Integer	Int	Yes	11					
2	note_date	notedate	Date	Date/Time	Datetime	No	19					
3	notes	notes	Notes	Narrative Text	Varchar(max)	No	7					
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	table_note_iid	tabnoteiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: table\_collection  
Table Label: Table Collection

Table Physical Name: tablecollection

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	system_iid_ref	sysiidref	Lineage	Integer	Int	Yes	11					
2	table_collection_name	tablecollectname	Table Collection Name	String	Varchar	Yes	30					
3	table_collection_sequence	tablecollectsequence	Table Collection Sequence	Integer	Int	Yes	25					
4	table_collection_insert_seq	tablecollectinsertsequence	Table Collection Insert Sequence	Integer	Int	Yes	30					
5	restricted_nasis_site_iid	restrictednasissiteiid	Restricted NASIS Site ID	Integer	Int	No	24					
6	non_restricted_visible	nonrestrictedvisible	Visible When Restricted?	Boolean	Bit	Yes	24					
7	load_all	loadall	Load All?	Boolean	Bit	Yes	9					
8	visible_in_editor	visibleingrideditor	Visible in Grid Editor?	Boolean	Bit	Yes	23					
9	table_collection_replication	tablecollectreplication	Table Collection Replication Type	Choice	Tinyint	Yes	30					table_collection_replication
10	customization_query	customizationquery	Customization Query	Narrative Text	Varchar(max)	No	19					
11	customization_column_iid_ref	customtabcolliidref	Customization Column	Integer	Int	No	20					
12	table_collection_id	tablecollectid	Table Collection ID	Integer	Int	No	19					
13	originating_person	orgper	Originating Person	String	Varchar	No	30					
14	contact_person	conper	Contact Person	String	Varchar	No	30					
15	pending_action	pendact	Pending Action	Choice	Smallint	No	14					pending_action
16	pending_status	pendstat	Pending Status	Choice	Smallint	No	14					pending_status
17	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
18	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
19	table_collection_iid	tablecollectiid	Rec ID	Integer	Int	Yes	11					

Table collection data

## NASIS 7.3.3 Tables and Columns

Table Logical Name: table\_collection\_history

Table Physical Name: tablecollectionhist

Table Label: Table Collection History

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	table_collection_iid_ref	tablecollectiidref	Lineage	Integer	Int	Yes	11					
2	note_date	notedate	Date	Date/Time	Datetime	No	19					
3	notes	notes	Notes	Narrative Text	Varchar(max)	No	7					
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	table_collection_note_iid	tablecollectnoteiid	Rec ID	Integer	Int	Yes	11					

This table records changes made to a particular Table Collection.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: table\_column  
Table Label: Table Column

Table Physical Name: tablecolumn

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	system_table_iid_ref	sysabiidref	Lineage	Integer	Int	Yes	11					
2	system_iid_ref	sysiidref	System	Integer	Int	Yes	11					
3	column_default_sequence	coldefseq	Default Sequence	Integer	Smallint	Yes	16					
4	attribute_iid_ref	attiidref	Attribute	Integer	Int	Yes	11					
5	column_label	collab	Column Label	String	Varchar	Yes	30					
6	<b>Phys Data Type</b>	colphydatatype	Physical Data Type	Choice	Smallint	Yes	18					Phys Data Type
7	column_display_size	coldisplaysz	<b>Size</b>	Integer	Int	No	20					
8	default_type	defaulttype	Type of Default Value	Choice	Smallint	No	30					default_type
9	column_literal_default_value	collitdefval	Literal Default Value	String	Varchar	No	30					
10	column_default_row_change	colsetonrowchange	Set Default on Row Change?	Boolean	Bit	Yes	26					
11	column_default_object_change	colsetonobjchange	Set Default on Object Change?	Boolean	Bit	Yes	29					
12	aggregation	aggregation	Aggregation	Choice	Tinyint	Yes	30					variability_expression
13	column_not_null_boolean	colnotnulbool	Not Null?	Boolean	Bit	Yes	9					
14	column_calculable	colcalc	Calculable?	Boolean	Bit	Yes	11					
15	column_visible	colvisible	Visible?	Boolean	Bit	Yes	8					
16	column_protected	colprotected	Protected?	Boolean	Bit	Yes	10					
17	column_unique	colunique	Unique?	Boolean	Bit	Yes	7					
18	column_business_oriented	colbusinessoriented	Business Column?	Boolean	Bit	Yes	16					
19	column_sort_sequence	colsortseq	Sort Sequence	Integer	Smallint	No	13					
20	column_sort_ascending	colsorta	Sort Ascending?	Choice	Smallint	No	15					sort_direction
21	column_sort_type	colsorttyp	Sort Type	Choice	Smallint	No	17					sort_type
22	column_alignment	alignment	Alignment	Choice	Smallint	No	16					column_alignment
23	in_replication_select_list	inreplicationselectlist	In Replication Select List?	Boolean	Bit	Yes	27					
24	column_include_in_pedon_pc	colincludepedonpc	Include in Pedon PC DM?	Boolean	Bit	Yes	23					
25	fed_geo_data_cmte	fgdc	FGDC	Boolean	Bit	Yes	4					
26	column_server_identity	colsrvdeftypeidentity	Set Server Default Type to Identity	Boolean	Bit	Yes	30					
27	column_spatialdata	colspatialdata	Spatial Data Type?	Boolean	Bit	Yes	18					
28	column_spatial_reference_id	colsrld	SRID	Integer	Int	No	11					
29	file_content_column_iid_ref	filecontentcolumniidref	File Content Column	Integer	Int	No	19					
30	column_field_size_override	colfieldsizoverride	Override Field Size	Integer	Int	No	20					
31	column_help_text	colhelptext	Help Text	Narrative Text	Varchar(max)	No	9					
32	column_id	columnid	Column ID	Integer	Int	No	11					
33	originating_person	orgper	Originating Person	String	Varchar	No	30					
34	contact_person	conper	Contact Person	String	Varchar	No	30					
35	pending_action	pendact	Pending Action	Choice	Smallint	No	14					pending_action
36	pending_status	pendstat	Pending Status	Choice	Smallint	No	14					pending_status
37	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
38	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
39	table_column_iid	tabcoliid	Rec ID	Integer	Int	Yes	11					

## NASIS 7.3.3 Tables and Columns

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: table\_column\_history

Table Physical Name: tablecolumnhist

Table Label: Table Column History

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	table_column_iid_ref	tabcollidref	Lineage	Integer	Int	Yes	11					
2	note_date	notedate	Date	Date/Time	Datetime	No	19					
3	notes	notes	Notes	Narrative Text	Varchar(max)	No	7					
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	column_note_iid	colnoteiid	Rec ID	Integer	Int	Yes	11					

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

# NASIS 7.3.3 Tables and Columns

Table Logical Name: tech\_soil\_service  
Table Label: Technical Soil Service

Table Physical Name: techsoilservice

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	scheduled_start_date	scheduledstartdate	Scheduled Start Date	Date/Time	Datetime	No	20					
2	scheduled_completion_date	scheduledcompletiondate	Scheduled Completion Date	Date/Time	Datetime	No	25					
3	tss_date_started	tssdatestarted	Date Started	Date/Time	Datetime	No	19					
4	tss_date_completed	tssdatecompleted	Date Completed	Date/Time	Datetime	No	19					
5	tss_iid_ref	tssiidref	Tech Soil Service Type	Integer	Int	Yes	22					
6	tss_time_spent	tssimespent	Hours	Float	Real	No	5	1	0	500	hours	
7	tss_instances	tssinstances	Instances	Integer	Int	No	11					
8	tss_provider_user_iid_ref	tssprovideruseridref	Provider	Integer	Int	Yes	11					
9	tss_recipient	tssrecipient	Recipient	Choice	Smallint	Yes	30					tss_recipient
10	tss_cons_plans_affected	tssconsplansaffected	Plans Affected	Integer	Int	No	14					
11	tss_program_benefitted_iid_ref	tssprogbenefittediidref	Program Benefitted	Integer	Int	Yes	18					
12	tss_acres_benefitted	tssacresbenefitted	Acres Benefitted	Integer	Int	No	16		1			
13	tss_people_served	tsspeopleserved	People Served	Integer	Int	No	13		1			
14	tss_outcome	tssoutcome	Outcome	Choice	Smallint	No	30					tss_outcomes
15	tss_impact	tssimpact	Impact	Narrative Text	Varchar(max)	No	7					
16	state_area_iid_ref	stateareaiidref	State FIPS	Integer	Int	No	11					
17	state_area_type_iid_ref	stateareatypeiidref	State	Integer	Int	Yes	11					
18	county_area_iid_ref	countyareaiidref	County Name	Integer	Int	No	11					
19	county_area_type_iid_ref	countyareatypeiidref	County	Integer	Int	Yes	11					
20	mlra_area_iid_ref	mlraareaiidref	MLRA Symbol	Integer	Int	No	11					
21	mlra_area_type_iid_ref	mlraareatypeiidref	MLRA	Integer	Int	Yes	11					
22	latitude_std_decimal_degrees	latstddecimaldegrees	Std Latitude	Float	Float	No	12	7	-90	90	degrees	
23	longitude_std_decimal_degrees	longstddecimaldegrees	Std Longitude	Float	Float	No	13	7	-180	180	degrees	
24	latitude_degrees	latdegrees	Lat. Degrees	Integer	Smallint	No	12		0	90	degrees	
25	latitude_minutes	latminutes	Lat. Minutes	Integer	Smallint	No	12		0	60	minutes (lat/long)	
26	latitude_seconds	latseconds	Lat. Seconds	Float	Real	No	12	2	0	60	seconds (lat/long)	
27	latitude_direction	latdir	Lat. Direction	Choice	Smallint	No	14					latitude_direction
28	longitude_degrees	longdegrees	Long. Degrees	Integer	Smallint	No	13		0	180	degrees	
29	longitude_minutes	longminutes	Long. Minutes	Integer	Smallint	No	13		0	60	minutes (lat/long)	
30	longitude_seconds	longseconds	Long. Seconds	Float	Real	No	13	2	0	60	seconds (lat/long)	
31	longitude_direction	longdir	Long. Direction	Choice	Smallint	No	15					longitude_direction
32	horizontal_datum_name	horizdatnm	Datum Name	Choice	Smallint	No	25					horizontal_datum_name
33	utm_zone	utmzone	UTM Zone	Integer	Smallint	No	8		1	60		
34	utm_northing	utmnorthing	UTM Northing	Float	Float	No	12	2	0	10000000	meters	
35	utm_easting	utmeasting	UTM Easting	Float	Float	No	11	2	0	10000000	meters	
36	tss_database_iid_ref	tssdbiidref	Tech Soil Service NASIS Site	Integer	Int	Yes	28					
37	group_iid_ref	grpriidref	NASIS Group	Integer	Int	Yes	11					
38	object_when_last_updated	objwupdated	Object Last Updated	Date/Time	Datetime	No	19					

### NASIS 7.3.3 Tables and Columns

39	object_user_iid_ref	objuseridref	Object Last Updated By	Integer	Int	No	22
40	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19
41	record_user_iid_ref	recuseridref	Record Last Updated By	Integer	Int	No	22
42	tss_iid	tssiid	Rec ID	Integer	Int	Yes	11

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.



### NASIS 7.3.3 Tables and Columns

Table Logical Name: tech\_soil\_service\_area\_overlap  
 Table Label: Technical Soil Service Area Overlap

Table Physical Name: techsoilserviceareaoverlap

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	tss_iid_ref	tssiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	area_iid_ref	areaiidref	Area	Integer	Int	Yes	11					
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	tss_area_overlap_iid	tssareaoverlapiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: tech\_soil\_service\_site

Table Physical Name: techsoilservicesite

Table Label: Technical Soil Service Site

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	tss_iid_ref	tssiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	site_iid_ref	siteiidref	User Site Id	Integer	Int	Yes	12					
4	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
5	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
6	tss_site_iid	tsssiteiid	Rec Id	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: tech\_soil\_service\_text

Table Physical Name: techsoilservicetext

Table Label: Tech Soil Service Text

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	tss_iid_ref	tssiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	record_date	recdate	Date	Date/Time	Datetime	Yes	19					
4	record_author	recauthor	Author	String	Varchar	No	25					
5	tss_text_kind	tsstextkind	Kind	Choice	Smallint	No	19					tss_text_kind
6	text_category	textcat	Category	String	Varchar	No	20					
7	text_subcategory	textsubcat	Subcategory	String	Varchar	No	20					
8	text_entry	textentry	Text Entry	Narrative Text	Varchar(max)	Yes	10					
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	tss_text_iid	tsstextiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: tech\_soil\_service\_type

Table Physical Name: techsoilservicetype

Table Label: Technical Soil Service Type

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	tsst_name	tsstname	Tech Soil Service Type Name	String	Varchar	Yes	30					
2	tsst_description	tsstdescription	Description	String	Varchar	No	30					
3	obsolete_term	obterm	Obsolete?	Boolean	Bit	Yes	9					
4	tsst_database_iid_ref	tsstdbiidref	Tech Soil Service Type NASIS Site	Integer	Int	Yes	30					
5	group_iid_ref	grpriidref	NASIS Group	Integer	Int	Yes	11					
6	object_when_last_updated	objwupdated	Object Last Updated	Date/Time	Datetime	No	19					
7	object_user_iid_ref	objuseriidref	Object Last Updated By	Integer	Int	No	22					
8	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
10	tsst_iid	tsstiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: tech\_soil\_serv\_prog\_benefitted  
 Table Label: Technical Soil Service Program Benefitted

Table Physical Name: techsoilservprogbenefit

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	tss_program_benefitted_sym	tssprogrambenefittedsym	Program Benefitted Symbol	String	Varchar	Yes	25					
2	tss_program_benefitted_name	tssprogrambenefittednm	Program Benefitted Name	String	Varchar	Yes	30					
3	obsolete_term	obterm	Obsolete?	Boolean	Bit	Yes	9					
4	tss_prog_benefitted_db_iid_ref	tssprogbenefitteddbiidref	TSS Prog. Benefitted NASIS Site	Integer	Int	Yes	30					
5	group_iid_ref	grpIIDref	NASIS Group	Integer	Int	Yes	11					
6	object_when_last_updated	objwIupdated	Object Last Updated	Date/Time	Datetime	No	19					
7	object_user_iid_ref	objuseriidref	Object Last Updated By	Integer	Int	No	22					
8	record_when_last_updated	recwIupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
10	tss_program_benefitted_iid	tssprogbenefittediid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: total\_quadrat\_harvest

Table Physical Name: totalquadratharvest

Table Label: Total Quadrat Harvest

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	vegetation_transect_iid_ref	vegtransectiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	quadrat_number	quadrathnumber	Quadrat #	Integer	Int	Yes	9		1	999		
4	transect_point_location	transectpointlocation	Transect Point Location	Float	Real	No	23	1	0	1000	feet	
5	quadrat_tot_wt_clipped_fresh	quadrattotwtclippedfresh	Total Clipped Wt - Fresh	Integer	Int	Yes	24		0		g	
6	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
7	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
8	total_quadrat_harvest_iid	totalquadratharvestiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: transect  
Table Label: Transect

Table Physical Name: transect

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	user_transect_id	ultransectid	User Transect ID	String	Varchar	Yes	30					
2	transect_author	tsectauth	Transect Author	String	Varchar	No	30					
3	transect_kind	tsectkind	Transect Kind	Choice	Smallint	No	16					transect_kind
4	transect_selection_method	tsectselmeth	Transect Selection Method	Choice	Smallint	No	25					transect_selection
5	transect_delineation_size	tsectdelinsize	Transect Delineation Size	Integer	Smallint	No	25		0		acres	
6	transect_direction	tsectdir	Transect Direction	Integer	Smallint	No	18		0	360	degrees	
7	transect_certification_status	tsectcertstatus	Certification Status	Choice	Smallint	No	20					transect_cert_status
8	transect_database_id_ref	tsectdbidref	Transect NASIS Site	Integer	Int	Yes	19					
9	group_id_ref	grpildref	NASIS Group	Integer	Int	Yes	11					
10	object_when_last_updated	objwlastupdated	Object Last Updated	Date/Time	Datetime	No	19					
11	object_user_id_ref	objuseridref	Object Last Updated By	Integer	Int	No	22					
12	record_when_last_updated	recwlastupdated	Record Last Updated	Date/Time	Datetime	No	19					
13	record_user_id_ref	recuseridref	Record Last Updated By	Integer	Int	No	22					
14	transect_iid	tsectiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: transect\_est\_composition

Table Physical Name: transectestcomposition

Table Label: Transect Estimated Composition

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	transect_iid_ref	tsectiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	component_name	compname	Component Name	String	Varchar	Yes	30					
4	local_phase	localphase	Local Phase	String	Varchar	No	30					
5	component_percent	comp_pct	Comp %	Integer	Smallint	Yes	6		0	100	percent	
6	slope_gradient	slope	Slope Gradient	Float	Real	No	14	1	0	999	percent	
7	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
8	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
9	transect_est_comp_iid	tsectestcomp_iid	Rec ID	Integer	Int	Yes	11					

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



## NASIS 7.3.3 Tables and Columns

Table Logical Name: transect\_gap\_details

Table Physical Name: transectgapdetails

Table Label: Transect Gap Details

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	vegetation_transect_iid_ref	vegtransectiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	gap_number	gapnumber	Gap #	Integer	Smallint	Yes	5		1	100		
4	gap_kind	gapkind	Gap Kind	Choice	Smallint	Yes	8					gap_kind
5	gap_start_point	gapstartpoint	Gap Start Point	Float	Real	Yes	15	1	0	1000	feet	
6	gap_end_point	gapendpoint	Gap End Point	Float	Real	Yes	13	1	0	1000	feet	
7	gap_length	gaplength	Gap Length	Float	Real	No	10	1	0.1	1000	feet	
8	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
10	transect_gap_details_iid	transectgapdetailsiid	Rec ID	Integer	Int	Yes	11					

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

# NASIS 7.3.3 Tables and Columns

Table Logical Name: transect\_ground\_cover

Table Physical Name: transectgroundcover

Table Label: Transect Ground Cover

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	vegetation_transect_iid_ref	vegtransectiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	ground_cover_type	groundcovertype	Ground Cover Type	Choice	Smallint	Yes	24					ground_cover_type
4	ground_cover_point_count	groundcoverptcount	# of Points	Integer	Int	No	11		0			
5	ground_cover_point_pct	groundcoverptpct	Ground Cover % - Points	Integer	Smallint	No	23		0	100	percent	
6	quadrat_size	quadratsize	Quadrat Size	Float	Real	No	12	2	0.1	999	ft2	
7	quadrat_shape	quadratshape	Quadrat Shape	Choice	Smallint	No	13					quadrat_shape
8	ground_cover_quad_pct_ave	groundcoverquadpctave	Ground Cover % Ave. - Quadrats	Integer	Smallint	No	30		0	100	percent	
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	transect_ground_cover_iid	transectgroundcoveriid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: transect\_gr\_cov\_data\_legacy

Table Physical Name: transectgroundcoverdatalegacy

Table Label: Transect Ground Cover Data - Legacy

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	vegetation_transect_iid_ref	vegtransectiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	quadrat_number	quadratnumber	Quadrat #	Integer	Int	Yes	9		1	999		
4	quadrat_bare_ground_pct	quadratbaregrpct	Bare Ground %	Integer	Smallint	No	13		0	100	percent	
5	quadrat_canopy_cover_pct	quadratcancovpct	Canopy Cover %	Integer	Smallint	No	14		0	100	percent	
6	quadrat_rock_frag_cov_pct	quadratrockfragcovpct	Rock Frag Cover %	Integer	Smallint	No	17		0	100	percent	
7	quadrat_mulch_weight	quadratmulchwt	Mulch Weight	Integer	Int	No	12		0		g	
8	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
10	trans_gr_cov_legacy_data_iid	transgrcovlegacydataiid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: transect\_ground\_surface\_cover

Table Physical Name: transectgroundsurfcover

Table Label: Transect Ground Surface Cover

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	vegetation_transect_iid_ref	vegtransectiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	ground_surface_cover_type	groundsurfcovtype	Ground Surface Cover Type	Choice	Smallint	Yes	25					ground_surface_cover_type
4	ground_cover_point_count	groundcoverptcount	# of Points	Integer	Int	No	11		0			
5	ground_cover_point_pct	groundcoverptpct	Ground Cover % - Points	Integer	Smallint	No	23		0	100	percent	
6	quadrat_size	quadratsize	Quadrat Size	Float	Real	No	12	2	0.1	999	ft2	
7	quadrat_shape	quadratshape	Quadrat Shape	Choice	Smallint	No	13					quadrat_shape
8	ground_cover_quad_pct_ave	groundcoverquadpctave	Ground Cover % Ave. - Quadrats	Integer	Smallint	No	30		0	100	percent	
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	transect_ground_surf_cover_iid	transectgroundsurfcoveriid	Rec ID	Integer	Int	Yes	11					

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

## NASIS 7.3.3 Tables and Columns

Table Logical Name: transect\_overstory\_canopy\_cov

Table Physical Name: transectoverstorycanopycover

Table Label: Transect Overstory Canopy Cover

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	vegetation_transect_iid_ref	vegtransectiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	transect_point_location	transectpointlocation	Transect Point Location	Float	Real	Yes	23	1	0	1000	feet	
4	overstory_canopy_present	overstorycanopypresent	Overstory Canopy Present ?	Boolean	Bit	Yes	26					
5	densiometer_quads_covered	densiometerquadscovered	# of Densiometer Quadrants Covered	Integer	Int	No	30		0			
6	overstory_can_cov_pct_point	overstorycancovpctpoint	Overstory Canopy Cov %	Integer	Smallint	No	22		0	100	percent	
7	overstory_can_cov_class_point	overstorycancovclpoint	Overstory Canopy Cov Class	Choice	Smallint	No	26					canopy_cover_class
8	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
10	trans_overstory_canopy_cov_iid	transoverstorycancoviid	Rec ID	Integer	Int	Yes	11					

This table contains data pertaining to canopy cover of overstory species collected at points along a vegetation transect.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: transect\_samp\_protocol\_used

Table Physical Name:

transectsamplingprotocolused

Table Label: Transect Sampling Protocol Used

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	vegetation_transect_iid_ref	vegtransectiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	transect_samp_protocol_name	transsampprotocolname	Protocol Name	Choice	Smallint	Yes	30					transect_protocol
4	data_collector	datacollector	Data Collector	String	Varchar	No	30					
5	data_recorder	datarecorder	Data Recorder	String	Varchar	No	30					
6	sampling_intensity	samplingintensity	Sampling Intensity	Choice	Smallint	No	18					sampling_intensity
7	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
8	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
9	trans_samp_protocol_used_iid	transsampprotocolusediid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: transect\_stand\_biomass\_details

Table Physical Name: transectstandingbiomassdetails

Table Label: Transect Standing Biomass Details

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	vegetation_transect_iid_ref	vegtransectiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	quadrat_number	quadratnumber	Quadrat #	Integer	Int	Yes	9		1	999		
4	transect_point_location	transectpointlocation	Transect Point Location	Float	Real	No	23	1	0	1000	feet	
5	quadrat_size	quadratsize	Quadrat Size	Float	Real	Yes	12	2	0.1	999	ft2	
6	quadrat_shape	quadratshape	Quadrat Shape	Choice	Smallint	Yes	13					quadrat_shape
7	herb_biomass_wt_green	herbbiomasswtgreen	Herbaceous Biomass Wt. Green	Integer	Int	No	28		1		g	
8	herb_biomass_wt_air_dry	herbbiomasswtairdry	Herbaceous Biomass Wt. Air-dry	Integer	Int	No	30		1		g	
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	trans_stand_biomass_detail_iid	transstandbiomassdetailiid	Rec ID	Integer	Int	Yes	11					

This table contains data pertaining to standing biomass measurements collected from individual quadrats along a vegetation transect.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: transect\_text  
Table Label: Transect Text

Table Physical Name: transecttext

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	transect_iid_ref	tsectiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	record_date	recdate	Date	Date/Time	Datetime	No	19					
4	record_author	recauthor	Author	String	Varchar	No	25					
5	transect_text_kind	transecttextkind	Kind	Choice	Smallint	No	29					transect_text_kind
6	text_category	textcat	Category	String	Varchar	No	20					
7	text_subcategory	textsubcat	Subcategory	String	Varchar	No	20					
8	text_entry	textentry	Text Entry	Narrative Text	Varchar(max)	No	10					
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	transect_text_iid	transecttextiid	Rec ID	Integer	Int	Yes	11					

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.



## NASIS 7.3.3 Tables and Columns

Table Logical Name: unit\_of\_measure  
Table Label: Unit of Measure

Table Physical Name: uom

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	unit_of_measure_symbol	uomsym	Symbol	String	Varchar	Yes	30					
2	unit_of_measure_units	uomunits	Units	String	Varchar	Yes	30					
3	unit_of_measure_si_boolean	uomsibool	SI?	Boolean	Bit	Yes	3					
4	unit_of_measure_application	uomapp	Application	Narrative Text	Varchar(max)	No	11					
5	notes	notes	Notes	Narrative Text	Varchar(max)	No	7					
6	obsolete_term	obterm	Obsolete?	Boolean	Bit	Yes	9					
7	unit_of_measure_id	uomid	Unit of Measure Id	Integer	Int	No	18					
8	unit_of_measure_db_iid_ref	uomdbiidref	Unit Measure NASIS Site	Integer	Int	Yes	23					
9	group_iid_ref	grpIIDref	NASIS Group	Integer	Int	Yes	11					
10	object_user_iid_ref	objuseriidref	Object Last Updated By	Integer	Int	No	22					
11	object_when_last_updated	objwIupdated	Object Last Updated	Date/Time	Datetime	No	19					
12	record_when_last_updated	recwIupdated	Record Last Updated	Date/Time	Datetime	No	19					
13	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
14	unit_of_measure_iid	uomiid	Rec ID	Integer	Int	Yes	11					

This table records the various units of measure in which values of attributes in a particular database are recorded.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: usfs\_eco\_class\_level  
Table Label: USFS Ecological Classification Level

Table Physical Name: usfsecllevel

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	usfs_eco_class_type_iid_ref	usfseclidref	Lineage	Integer	Int	Yes	11					
2	usfs_eco_class_level_rank	usfseclrank	USFS Ecological Classification Level Rank	Integer	Smallint	Yes	30					
3	usfs_eco_class_level_code	usfseclcode	USFS Ecological Classification Level Code	String	Varchar	Yes	30					
4	usfs_eco_class_level_name	usfseclname	USFS Ecological Classification Level Name	String	Varchar	Yes	30					
5	usfs_eco_class_level_id	usfseclid	USFS Ecological Classification Level ID	String	Varchar	Yes	30					
6	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
7	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
8	usfs_eco_class_level_iid	usfsecliid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: usfs\_eco\_class  
Table Label: USFS Ecological Classification

Table Physical Name: usfsecoclass

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	usfs_eco_class_level_iid_ref	usfseclidref	Lineage	Integer	Int	Yes	11					
2	usfs_eco_class_set_name	usfsecsetname	USFS Ecological Classification Set Name	String	Varchar	Yes	30					
3	usfs_eco_class_short_name	usfsecshortname	USFS Ecological Classification Short Name	String	Varchar	Yes	30					
4	usfs_eco_class_name	usfsecname	USFS Ecological Classification Name	String	Varchar	No	30					
5	usfs_eco_class_code	usfseccode	USFS Ecological Classification Code	String	Varchar	No	30					
6	obsolete_term	obterm	Obsolete?	Boolean	Bit	Yes	9					
7	usfs_eco_class_id	usfsecid	USFS Ecological Classification ID	String	Varchar	Yes	30					
8	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
10	usfs_eco_class_iid	usfseciid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: usfs\_eco\_class\_type  
Table Label: USFS Ecological Classification Type

Table Physical Name: usfssectype

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	usfs_eco_class_type_code	usfssectcode	USFS Ecological Classification Type Code	String	Varchar	Yes	30					
2	usfs_eco_class_type_name	usfssectname	USFS Ecological Classification Type Name	String	Varchar	Yes	30					
3	usfs_eco_class_type_id	usfssectid	USFS Ecological Classification Type ID	String	Varchar	Yes	30					
4	usfs_ect_database_iid_ref	usfssectdbiidref	USFS Ecological Classification Type NASIS Site	Integer	Int	Yes	30					
5	group_iid_ref	grpIIDref	NASIS Group	Integer	Int	Yes	11					
6	object_when_last_updated	objwIupdated	Object Last Updated	Date/Time	Datetime	No	19					
7	object_user_iid_ref	objuseriidref	Object Last Updated By	Integer	Int	No	22					
8	record_when_last_updated	recwIupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
10	usfs_eco_class_type_iid	usfssectiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: usfs\_interp\_category  
Table Label: USFS Interpretation Category

Table Physical Name: usfsicat

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	usfs_interp_category_code	usfsicatcode	USFS Interpretation Category Code	String	Varchar	Yes	30					
2	usfs_interp_category_name	usfsicatname	USFS Interpretation Category Name	String	Varchar	Yes	30					
3	usfs_interp_category_id	usfsicatid	USFS Interpretation Category ID	String	Varchar	Yes	30					
4	usfs_interp_cat_db_iid_ref	usfsicatdbiidref	USFS Interpretation Category NASIS Site	Integer	Int	Yes	30					
5	group_iid_ref	grpIIDref	NASIS Group	Integer	Int	Yes	11					
6	object_when_last_updated	objwIupdated	Object Last Updated	Date/Time	Datetime	No	19					
7	object_user_iid_ref	objuseriidref	Object Last Updated By	Integer	Int	No	22					
8	record_when_last_updated	recwIupdated	Record Last Updated	Date/Time	Datetime	No	19					
9	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
10	usfs_interp_category_iid	usfsicatiiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: usfs\_interp  
Table Label: USFS Interpretation

Table Physical Name: usfsinterp

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	usfs_interp_category_iid_ref	usfsicatidref	Lineage	Integer	Int	Yes	11					
2	usfs_interp_code	usfsinterpcode	USFS Interpretation Code	String	Varchar	Yes	24					
3	usfs_interp_name	usfsinterpname	USFS Interpretation Name	String	Varchar	Yes	30					
4	usfs_irclass_set_id	usfsirclssetid	USFS Interpretation Rating Class Set ID	String	Varchar	Yes	30					
5	usfs_interp_id	usfsinterp_id	USFS Interpretation ID	String	Varchar	Yes	30					
6	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
7	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
8	usfs_interp_iid	usfsinterp_iid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: usfs\_interp\_rating\_class  
Table Label: USFS Interpretation Rating Class

Table Physical Name: usfsirclass

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	usfs_interp_iid_ref	usfsinterp_iidref	Lineage	Integer	Int	Yes	11					
2	usfs_irating_class_code	usfsirclscode	USFS Interpretation Rating Class Code	String	Varchar	Yes	30					
3	usfs_irating_class_name	usfsirclsname	USFS Interpretation Rating Class Name	String	Varchar	Yes	30					
4	usfs_irating_class_rank	usfsirclsrank	USFS Interpretation Rating Class Rank	Integer	Smallint	No	30					
5	obsolete_term	obterm	Obsolete?	Boolean	Bit	Yes	9					
6	usfs_irating_class_id	usfsirclsid	USFS Interpretation Rating Class ID	String	Varchar	Yes	30					
7	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
8	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
9	usfs_irclass_iid	usfsirclassiid	Rec ID	Integer	Int	Yes	11					

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 classes 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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: usfs\_interp\_restriction  
Table Label: USFS Interpretation Restriction

Table Physical Name: usfsirestrict

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	usfs_irestriction_code	usfsistrctcode	USFS Interpretation Restriction Code	String	Varchar	Yes	30					
2	usfs_irestriction_name	usfsistrctname	USFS Interpretation Restriction Name	String	Varchar	Yes	30					
3	obsolete_term	obterm	Obsolete?	Boolean	Bit	Yes	9					
4	usfs_irestriction_id	usfsistrctid	USFS Interpretation Restriction ID	String	Varchar	Yes	30					
5	usfs_irestriction_db_iid_ref	usfsistrctdbiidref	USFS Interpretation Restriction NASIS Site	Integer	Int	Yes	30					
6	group_iid_ref	grpIIDref	NASIS Group	Integer	Int	Yes	11					
7	object_when_last_updated	objwIupdated	Object Last Updated	Date/Time	Datetime	No	19					
8	object_user_iid_ref	objuserIIDref	Object Last Updated By	Integer	Int	No	22					
9	record_when_last_updated	recwIupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuserIIDref	Record Last Updated By	Integer	Int	No	22					
11	usfs_irestriction_iid	usfsistrctiid	Rec ID	Integer	Int	Yes	11					

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.



## NASIS 7.3.3 Tables and Columns

Table Logical Name: usgs\_quadrangle

Table Physical Name: usgsquadrangle

Table Label: USGS Quadrangle

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	usgs_quadrangle_type_iid_ref	usgsquadrangletypeiidref	Lineage	Integer	Int	Yes	11					
2	usgs_quadrangle_symbol	usgsquadranglesymbol	USGS Quadrangle Symbol	String	Varchar	Yes	22					
3	usgs_quadrangle_name	usgsquadranglename	USGS Quadrangle Name	String	Varchar	Yes	30					
4	obsolete_term	obterm	Obsolete?	Boolean	Bit	Yes	9					
5	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
6	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
7	usgs_quadrangle_iid	usgsquadrangleiid	Rec ID	Integer	Int	Yes	11					

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.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: usgs\_quadrangle\_type

Table Physical Name: usgsquadrangletype

Table Label: USGS Quadrangle Type

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	usgs_quadrangle_type_name	usgsquadrangletypename	USGS Quadrangle Type Name	String	Varchar	Yes	30					
2	usgs_quad_type_db_iid_ref	uqtdbiidref	USGS Quadrangle Type NASIS Site	Integer	Int	Yes	30					
3	group_iid_ref	grp_iidref	NASIS Group	Integer	Int	Yes	11					
4	object_when_last_updated	objwupdated	Object Last Updated	Date/Time	Datetime	No	19					
5	object_user_iid_ref	objuseriidref	Object Last Updated By	Integer	Int	No	22					
6	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
7	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
8	usgs_quadrangle_type_iid	usgsquadrangletypeiid	Rec ID	Integer	Int	Yes	11					

This table records the types of USGS Topographic Quadrangles - 7.5 minute and 15 minute.

# NASIS 7.3.3 Tables and Columns

Table Logical Name: vegetation\_plot

Table Physical Name:

vegplot

Table Label: Vegetation Plot

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	site_observation_id_ref	siteobsidref	Site/Site Observation	Integer	Int	Yes	21					
2	vegetation_plot_id	vegplotid	Vegetation Plot ID	String	Varchar	Yes	25					
3	vegetation_plot_name	vegplotname	Vegetation Plot Name	String	Varchar	No	30					
4	primary_data_collector	primarydatacollector	Primary Data Collector	String	Varchar	No	30					
5	data_collection_purpose	datacollectionpurpose	Data Collection Purpose	String	Varchar	No	30					
6	vegetation_data_origin	vegdataorigin	Data Origin	Choice	Smallint	No	30					vegetation_data_origin
7	vegetation_plot_size	vegplotsize	Plot Size	Integer	Int	No	11		1		m2	
8	soil_profile_indicator	soilprofileindicator	Soil Profile ?	Boolean	Bit	Yes	14					
9	associated_user_pedon_id	assocuserpedonid	Assoc. User Pedon ID	String	Varchar	No	30					
10	soil_232_id_legacy	soil232idlegacy	Legacy Soil 232 ID	String	Varchar	No	18					
11	a_horizon_depth	ahorizondepth	A Horizon Depth	Integer	Int	No	15		0	9999	cm	
12	alkaline_saline_indicator	alkalinesalineindicator	Alkaline/Saline Indicator	Choice	Smallint	No	25					alkaline_saline_indicator
13	alkaline_affected	alkalineaffected	Alkaline Affected ?	Boolean	Bit	Yes	19					
14	salinity_class	salinityclass	Salinity Class	Choice	Smallint	No	20					salinity_class
15	restrictive_layer_depth_legacy	restrictivelayerdepthlegacy	Legacy Restrictive Layer Depth	Integer	Int	No	30		0	9999	cm	
16	legacy_soil_component_name	legacysoilcompname	Legacy Soil Name	String	Varchar	No	30					
17	legacy_soil_phase	legacysoilphase	Legacy Soil Phase	String	Varchar	No	30					
18	legacy_local_soil_phase	legacylocalsoilphase	Legacy Local Soil Phase	String	Varchar	No	30					
19	legacy_soil_surface_texture	legacysoilsturfext	Legacy Surface Texture	Choice	Smallint	No	22					texture_class
20	legacy_surf_texture_modifier	legacysurfextmod	Legacy Texture Modifier	Choice	Smallint	No	23					texture_modifier
21	legacy_term_in_lieu_of_texture	legacyterminlieu	Legacy Term In Lieu of Texture	Choice	Smallint	No	30					terms_used_in_lieu_of_texture
22	erosion_class_legacy	erosionclasslegacy	Legacy Erosion Class	Choice	Smallint	No	20					erosion_class_legacy
23	landform_group_legacy	landformgrouplegacy	Legacy Landform Group	Choice	Smallint	No	30					landforms_legacy
24	cryptogam_cover_class_legacy	cryptogamcovlegacy	Legacy Cryptogam Cover Class	Choice	Smallint	No	28					cryptogam_cover_class_legacy
25	rangeland_use_history	rangelandusehistory	Rangeland Use History	Choice	Smallint	No	23					rangeland_use_history
26	canopy_cover_pct_plot_ave	cancovpctplotave	Canopy Cover % - Ave.	Integer	Smallint	No	21		0	100	percent	
27	canopy_cover_total_pct	cancovtotalpct	Total Canopy Cover %	Integer	Smallint	No	20		0	100	percent	
28	canopy_cover_total_class	cancovtotalclass	Total Canopy Cover Class	Choice	Smallint	No	24					canopy_cover_class
29	overstory_canopy_cov_tot_pct	overstorycancovtotalpct	Total Overstory Canopy Cover %	Integer	Smallint	No	30		0	100	percent	
30	overstory_canopy_cov_tot_cl	overstorycancovtotalclass	Total Overstory Canopy Cover Class	Choice	Smallint	No	30					canopy_cover_class
31	dbl_sampling_annual_prod_ave	dblsampanannualprodave	Dbl. Sampling Ave. Annual Prod.	Integer	Int	No	30		0		lbs/acre	
32	comparative_yield_prod_ave	compyieldproductionave	Comparative Yield Ave. Prod.	Integer	Int	No	28		0		lbs/acre	
33	above_ground_biomass_tot_ave	abovegroundbiomassatotave	Total Above Ground Biomass - Ave.	Integer	Int	No	30		0		lbs/acre	
34	understory_reprod_abundance	understoryreprodabundance	Understory Reprod. Abundance	Choice	Smallint	No	28					abundance_class
35	woody_understory_abundance	woodyunderstoryabundance	Woody Understory Abundance	Choice	Smallint	No	26					abundance_class
36	herb_understory_abundance	herbunderstoryabundance	Herb. Understory Abundance	Choice	Smallint	No	26					abundance_class
37	lichens_understory_abundance	lichensunderstoryabundance	Lichens Understory Abundance	Choice	Smallint	No	28					abundance_class
38	crown_canopy_closure_pct	crowncanclosurepct	Crown Canopy Closure %	Integer	Smallint	No	22		0	100	percent	
39	crown_canopy_close_assess_meth	crowncancloseassessmethod	Crown Can. Closure Assess. Meth.	Choice	Smallint	No	30					assessment_method
40	crown_comp_factor_lpp	crowncompfactorlpp	LPP Crown Competition Factor	Float	Real	No	28	1	1	500		
41	crown_comp_lpp_ave_dbh	crowncmplppavedbh	LPP Crown Comp. Ave DBH	Integer	Int	No	23		1	360	inches	
42	basal_cover_pct_ave	basalcoverpctave	Basal Cover % - Ave.	Integer	Smallint	No	20		0	100	percent	

# NASIS 7.3.3 Tables and Columns

43	basal_area_plot_total	basalareaplottotal	Total Basal Area	Integer	Int	No	16	0	500	ft2/acre	
44	basal_area_assess_method	basalareaassessmethod	Basal Area Assess. Method	Choice	Smallint	No	25				assessment_method
45	conservation_tree_shrub_group	constreeshrubgrp	Cons Tree Shrub Group	Choice	Smallint	No	21				conservation_tree_shrub_group
46	windbreak_row_one_direction	windbreakrowonedirection	Windbreak Row 1 Direction	Choice	Smallint	No	25				windbreak_row_direction
47	windbreak_trapped_soil_depth	windbreaktrappedsoildepth	Windbreak Trapped Soil Depth	Integer	Int	No	28	0		cm	
48	windbreak_trapped_soil_texture	windbreaktrappedsoiltexture	Windbreak Trapped Soil Texture	Choice	Smallint	No	30				texture_class
49	understory_desc_indicator	understorydescindicator	Understory Description ?	Boolean	Bit	Yes	24				
50	mensuration_data_indicator	mensurationdataindicator	Mensuration Data ?	Boolean	Bit	Yes	18				
51	vigor_class_legacy	vigorclasslegacy	Legacy Vigor Class	Choice	Smallint	No	18				vigor_class
52	site_condition_legacy	siteconditionlegacy	Legacy Site Condition	Integer	Smallint	No	21	0	100	percent	
53	overstory_species_legacy	overstoryspecieslegacy	Legacy Overstory Species	String	Varchar	No	30				
54	plant_moisture_state	plantmoiststate	Plant Moisture State	Choice	Smallint	No	21				plant_moisture_state
55	current_tree_density	currenttreedensity	Current Tree Density	Integer	Int	No	20	1		trees/ac	
56	current_tree_spacing	currenttreespacing	Current Tree Spacing	Integer	Int	No	20	1	200	feet	
57	current_dx_spacing	currentdxspacing	Current D+x Spacing	Integer	Int	No	19	1	50	feet	
58	current_plot_average_dbh	currentplotavedbh	Current Plot Ave DBH	Float	Real	No	20	1	1	360	inches
59	plot_basal_area_factor	plotbasalareafactor	Plot Basal Area Factor	Choice	Smallint	No	22				basal_area_factor
60	current_basal_area	currentbasalarea	Current Basal Area	Integer	Int	No	18	0	500	ft2/acre	
61	forest_stand_type	foreststandtype	Forest Stand Type	Choice	Smallint	No	17				forest_stand_type
62	forest_strata_inventoried	foreststratainventoried	Strata Inventoried	Choice	Smallint	No	18				forest_strata_inventoried
63	forest_stand_regeneration	foreststandregen	Stand Regeneration	Choice	Smallint	No	18				forest_stand_regeneration
64	forest_stand_quality	foreststandquality	Stand Quality	Choice	Smallint	No	13				forest_stand_quality
65	desired_tree_density	desiredtreedensity	Desired Tree Density	Integer	Int	No	20	1	3000	trees/ac	
66	desired_dx_spacing	desireddxspacing	Desired D+x Spacing	Integer	Int	No	19	1	50	feet	
67	desired_basal_area	desiredbasalarea	Desired Basal Area	Integer	Int	No	18	0	500	ft2/acre	
68	excess_basal_area	excessbasalarea	Excess Basal Area	Integer	Int	No	17	-500	500	ft2/acre	
69	excess_tree_density	excesstreedensity	Excess Tree Density	Integer	Int	No	19				
70	stocking_change_pct	stockingchange_pct	% Stocking Change	Integer	Smallint	No	17			percent	
71	tree_pct_good_condition	treepctgoodcondition	% Good Condition	Integer	Smallint	No	16	0	100	percent	
72	tree_pct_fair_condition	treepctfaircondition	% Fair Condition	Integer	Smallint	No	16	0	100	percent	
73	tree_pct_poor_condition	treepctpoorcondition	% Poor Condition	Integer	Smallint	No	16	0	100	percent	
74	tree_count_total	treecounttotal	# of Trees Counted	Integer	Int	No	18	0			
75	tree_snag_density_hard	treesnagdensityhard	Hard Tree Snag Density	Integer	Int	No	22	0		trees/ac	
76	tree_snag_density_soft	treesnagdensitysoft	Soft Tree Snag Density	Integer	Int	No	22	0		trees/ac	
77	rhi_annual_production	rhiannualprod	RHI - Annual Production	Choice	Smallint	No	23				rhi_annual_production
78	rhi_bare_ground	rhibareground	RHI - Bare Ground	Choice	Smallint	No	19				rhi_bare_ground
79	rhi_compaction_layer	rhicompactionlayer	RHI - Compaction Layer	Choice	Smallint	No	22				rhi_compaction_layer
80	rhi_functional_struct_groups	rhifuncstructgroups	RHI - Func/Stuct Groups	Choice	Smallint	No	23				rhi_functional_struct_groups
81	rhi_erosion_resistance	rhierosionresistance	RHI - Erosion Resistance	Choice	Smallint	No	24				rhi_erosion_resistance
82	rhi_gullies	rhigullies	RHI - Gullies	Choice	Smallint	No	19				rhi_gullies
83	rhi_rills	rhirills	RHI - Rills	Choice	Smallint	No	19				rhi_rills
84	rhi_pedestals_terracettes	rhipedastalsterracettes	RHI - Pedestals/Terracettes	Choice	Smallint	No	27				rhi_pedestals_terracettes
85	rhi_infiltration_runoff	rhiinfiltrunoff	RHI - Infiltration & Runoff	Choice	Smallint	No	27				rhi_infiltration_runoff
86	rhi_litter_amount	rhilitteramount	RHI - Litter Amount	Choice	Smallint	No	19				rhi_litter_amount
87	rhi_litter_movement	rhilittermovement	RHI - Litter Movement	Choice	Smallint	No	21				rhi_litter_movement
88	rhi_plant_mortality	rhiplantmortality	RHI - Plant Mortality	Choice	Smallint	No	21				rhi_plant_mortality
89	rhi_reproductive_capability	rhireprodcapability	RHI - Reproductive Capability	Choice	Smallint	No	29				rhi_reproductive_capability
90	rhi_invasive_plants	rhiinvasiveplants	RHI - Invasive Plants	Choice	Smallint	No	21				rhi_invasive_plants

# NASIS 7.3.3 Tables and Columns

91	rhi_soil_surface_degradation	rhisoilsurfdegradation	RHI - Soil Surface Degradation	Choice	Smallint	No	30							rhi_soil_surf_degradation
92	rhi_water_flow_patterns	rhiwaterflowpatterns	RHI - Water Flow Patterns	Choice	Smallint	No	25							rhi_water_flow_patterns
93	rhi_wind_scour_areas	rhiwindscourareas	RHI - Wind Scour Areas	Choice	Smallint	No	22							rhi_wind_scour_areas
94	rhi_soil_site_stab_summary	rhisoilsitestabsumm	RHI - Soil/Site Stability Summ.	Choice	Smallint	No	30							rhi_summary
95	rhi_biotic_integrity_summary	rhibioticintegritysumm	RHI - Biotic Integrity Summ.	Choice	Smallint	No	28							rhi_summary
96	rhi_hydro_function_summary	rhihydrofunctionsumm	RHI - Hydro. Function Summ.	Choice	Smallint	No	27							rhi_summary
97	pasture_forage_type	pastureforagetype	Pasture Forage Type	String	Varchar	No	30							
98	pasture_stand_density_ave	pasturestanddensityave	Average Pasture Stand Density	Integer	Smallint	No	29		0	100		percent		
99	pasture_plant_height_ave	pastureplanthtave	Average Pasture Plant Ht.	Integer	Int	No	25		0	100		inches		
100	pasture_production_ave	pastureprodave	Average Pasture Production	Integer	Int	No	26		0			lbs/acre		
101	pci_desirable_plants	pcidesirableplants	PCI - Desirable Plants	Choice	Smallint	No	22							pci_desirable_plants
102	pci_plant_cover	pciplantcover	PCI - Plant Cover	Choice	Smallint	No	17							pci_plant_cover
103	pci_plant_diversity	pciplantdiversity	PCI - Plant Diversity	Choice	Smallint	No	21							pci_plant_diversity
104	pci_ground_cover_residue	pcigroundcovresidue	PCI - Ground Cover Residue	Choice	Smallint	No	26							pci_ground_cover_residue
105	pci_standing_dead_forage	pcistandingdeadforage	PCI - Standing Dead Forage	Choice	Smallint	No	26							pci_standing_dead_forage
106	pci_plant_residue_comp_score	pciplantresiduecompscore	PCI - Plant Residue Comp. Score	Float	Real	No	30	1	1	5				
107	pci_plant_vigor	pciplantvigor	PCI - Plant Vigor	Choice	Smallint	No	17							pci_plant_vigor
108	pci_legume_pct_class	pcilegumepctclass	PCI - Legume %	Choice	Smallint	No	14							pci_legume_pct_class
109	pci_use_uniformity	pciuseuniformity	PCI - Use Uniformity	Choice	Smallint	No	20							pci_use_uniformity
110	pci_livestock_conc_areas	pcilivestockconcareas	PCI - Livestock Conc. Areas	Choice	Smallint	No	27							pci_concentration_areas
111	pci_soil_compaction	pcisoilcompaction	PCI - Soil Compaction	Choice	Smallint	No	21							pci_soil_compaction
112	pci_sheet_rill_erosion	pcisheetrillerosion	PCI - Sheet & Rill Erosion	Choice	Smallint	No	26							pci_sheet_rill_erosion
113	pci_wind_erosion	pciwinderosion	PCI - Wind Erosion	Choice	Smallint	No	18							pci_wind_erosion
114	pci_stream_shore_erosion	pcistreamshoreerosion	PCI - Stream/Shore Erosion	Choice	Smallint	No	26							pci_stream_shore_erosion
115	pci_gully_erosion	pcigullyerosion	PCI - Gully Erosion	Choice	Smallint	No	19							pci_gully_erosion
116	pci_erosion_comp_score	pcierosioncompscore	PCI - Erosion Comp. Score	Float	Real	No	25	1	1	5				
117	pci_pasture_condition_score	pcipastureconditionscore	PCI - Pasture Condition Score	Float	Real	No	29	1	1	5				
118	reference_plant_community	refplantcommunity	Ref. Plant Community	String	Varchar	No	30							
119	representative_annual_prod	repannualprod	Representative Annual Prod.	Integer	Int	No	27		0			lbs/acre		
120	total_estimated_annual_prod	totestannualprod	Total Est. Annual Prod.	Integer	Int	No	23		0			lbs/acre		
121	total_allowable_annual_prod	totalallowableannualprod	Total Allowable Prod.	Integer	Int	No	21		0			lbs/acre		
122	total_palatable_annual_prod	totalpalatableannualprod	Total Palatable Prod.	Integer	Int	No	21		0			lbs/acre		
123	similarity_index	similarityindex	Similarity Index	Integer	Int	No	16		0	100				
124	annual_useable_prod	annualuseableprod	Annual Useable Prod.	Integer	Int	No	20		0			lbs/acre		
125	harvest_efficiency_pct	harvesteffpct	Harvest Efficiency %	Integer	Smallint	No	20		25	35		percent		
126	take_half_leave_half	takehalfleavehalf	Take 1/2 Leave 1/2	Float	Real	No	18	1	0			aum/acre		
127	acres_per_aum	acresperaum	Acres/AUM	Float	Real	No	9	1	0			acres/aum		
128	aum_per_acre	aumperacre	AUM/acre	Float	Real	No	9	1	0			aum/acre		
129	aud_per_acre	audperacre	AUD/acre	Float	Real	No	9	2	0			aud/acre		
130	desirable_plant_vigor	desirableplantvigor	Desirable Plant Vigor	Choice	Smallint	No	21							vigor_class
131	desirable_seedling_abundance	desirableseedlingabundance	Desirable Seedling Abundance	Choice	Smallint	No	28							seedling_abundance
132	decadent_plant_abundance	decadentplantabundance	Decadent Plant Abundance	Choice	Smallint	No	24							decadent_plant_abundance
133	plant_residue_adequacy	plantresidueadequacy	Plant Residue Adequacy	Choice	Smallint	No	22							plant_residue_adequacy
134	undesirable_invading_species	undesirableinvadingspecies	Undesirable Invading Species	Choice	Smallint	No	28							invading_plants
135	major_invading_species	majorinvadingspecies	Major Invading Species	String	Varchar	No	30							
136	invading_species_can_cov_pct	invadingspeciescancovpct	Invading Species Can. Cov. %	Integer	Smallint	No	28		0	100		percent		
137	soil_surface_erosion	soilsurferosion	Soil Surface Erosion	Choice	Smallint	No	20							soil_surface_erosion
138	soil_crusting	soilcrusting	Soil Crusting	Choice	Smallint	No	13							soil_crusting

### NASIS 7.3.3 Tables and Columns

139	soil_compaction	soilcompaction	Soil Compaction	Choice	Smallint	No	15							soil_compaction
140	bare_ground_pct	baregroundpct	Bare Ground %	Integer	Smallint	No	13	0	100	percent				
141	gully_rill_presence	gullyrillpresence	Gully & Rill Presence	Choice	Smallint	No	21							gully_rill_presence
142	soil_degradation_rating	soildegradationrating	Soil Degradation	Choice	Smallint	No	16							soil_degradation
143	range_trend_current	rangetrendcurrent	Current Range Trend	Choice	Smallint	No	19							range_trend
144	range_trend_planned	rangetrendplanned	Planned Range Trend	Choice	Smallint	No	19							range_trend
145	qc_review_person	qcreviewperson	QC Review Person	String	Varchar	No	30							
146	qc_review_date	qcreviewdate	QC Review Date	Date/Time	Datetime	No	19							
147	qa_review_person	qareviewperson	QA Review Person	String	Varchar	No	30							
148	qa_review_date	qareviewdate	QA Review Date	Date/Time	Datetime	No	19							
149	swcd_legacy	swcdlegacy	Legacy SWCD	String	Varchar	No	30							
150	field_office_legacy	fieldofficelegacy	Legacy Field Office	String	Varchar	No	30							
151	nrcs_area_legacy	nrc sarealegacy	Legacy SCS/NRCS Area	String	Varchar	No	30							
152	ak_total_lichen_cover_pct	aktotallichencoverpct	AK Total Lichen Cover	Float	Real	No	21	1	0	100	percent			
153	ak_total_litter1_cover_pct	aktotallitter1coverpct	AK Total Litter1 Cover	Float	Real	No	22	1	0	100	percent			
154	ak_total_litter2_cover_pct	aktotallitter2coverpct	AK Total Litter2 Cover	Float	Real	No	22	1	0	100	percent			
155	ak_total_moss_cover_pct	aktotalmosscoverpct	AK Total Moss Cover	Float	Real	No	19	1	0	100	percent			
156	ak_total_rock_cover_pct	aktotalrockcoverpct	AK Total Surface Fragment Cover	Float	Real	No	31	1	0	100	percent			
157	ak_total_soil_cover_pct	aktotalsoilcoverpct	AK Total Bare Soil Cover	Float	Real	No	24	1	0	100	percent			
158	ak_total_water_cover_pct	aktotalwatercoverpct	AK Total Surface Water Cover	Float	Real	No	28	1	0	100	percent			
159	ak_ecological_site_status	akecologicalsitesstatus	AK Ecological Site Status	Choice	Smallint	No	25							ak_ecological_site_status
160	ak_total_bedrock_cover_pct	aktotalbedrockcoverpct	AK Total Surface Bedrock Cover	Float	Real	No	30	1	0	100	percent			
161	ak_field_ecological_site_id	akfieldecositeid	AK fEcosite	String	Varchar	No	11							
162	veg_plot_database_iid_ref	vegplothbidref	Veg Plot NASIS Site	Integer	Int	Yes	19							
163	group_iid_ref	grpiddref	NASIS Group	Integer	Int	Yes	11							
164	object_when_last_updated	objwltupdated	Object Last Updated	Date/Time	Datetime	No	19							
165	object_user_iid_ref	objusrlidref	Object Last Updated By	Integer	Int	No	22							
166	record_when_last_updated	recwlupdated	Record Last Updated	Date/Time	Datetime	No	19							
167	record_user_iid_ref	recusserlidref	Record Last Updated By	Integer	Int	No	22							
168	vegetation_plot_iid	vegplotiid	Rec ID	Integer	Int	Yes	11							

This table contains information about each vegetation plot and summary data collected from the plot.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: vegetation\_plot\_text  
Table Label: Vegetation Plot Text

Table Physical Name: vegplottext

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	vegetation_plot_iid_ref	vegplotiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	record_date	recdate	Date	Date/Time	Datetime	Yes	19					
4	record_author	recauthor	Author	String	Varchar	No	25					
5	vegetation_plot_text_kind	vegplottextkind	Kind	Choice	Smallint	No	29					veg_plot_text_kind
6	text_category	textcat	Category	String	Varchar	No	20					
7	text_subcategory	textsubcat	Subcategory	String	Varchar	No	20					
8	text_entry	textentry	Text Entry	Narrative Text	Varchar(max)	Yes	10					
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	vegetation_plot_text_iid	vegplottextiid	Rec ID	Integer	Int	Yes	11					

This table contains text notes that pertain to a vegetation plot as a whole.

# NASIS 7.3.3 Tables and Columns

Table Logical Name: vegetation\_transect  
Table Label: Vegetation Transect

Table Physical Name: vegtransect

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	vegetation_plot_iid_ref	vegplotidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	vegetation_transect_id	vegtransectid	Veg Transect ID	String	Varchar	Yes	15					
4	transect_start_latitude	transectstartlatitude	Start Latitude (WGS84)	Float	Real	No	22	7	-90	90	degrees	
5	transect_start_longitude	transectstartlongitude	Start Longitude (WGS84)	Float	Real	No	23	7	-180	180	degrees	
6	transect_end_latitude	transectendlatitude	End Latitude (WGS84)	Float	Real	No	20	7	-90	90	degrees	
7	transect_end_longitude	transectendlongitude	End Longitude (WGS84)	Float	Real	No	21	7	-180	180	degrees	
8	transect_azimuth	transectazimuth	Transect Azimuth	Integer	Int	No	16		0	360	degrees	
9	transect_length	transectlength	Transect Length	Integer	Int	No	15		1	1000	feet	
10	transect_start_elevation	transectstartelevation	Start Elevation	Float	Real	No	15	1	-300	8550	meters	
11	transect_end_elevation	transectendelevation	End Elevation	Float	Real	No	13	1	-300	8550	meters	
12	dbl_sampling_quadrats_sampled	dblsampquadratssampled	# of Dbl. Samp. Quadrats Sampled	Integer	Int	No	30		1			
13	dbl_sampling_quadrats_clipped	dblsampquadratsclipped	# of Dbl. Samp. Quadrats Clipped	Integer	Int	No	30		1			
14	nested_freq_quadrats_sampled	nestedfreqquadratssampled	# of Nested Freq. Quadrats Sampled	Integer	Int	No	30		1			
15	frequency_quadrats_sampled	freqquadratssampled	# of Frequency Quadrats Sampled	Integer	Int	No	30		1			
16	dwr_quadrats_sampled	dwrquadratssampled	# of DWR Quadrats Sampled	Integer	Int	No	25		1			
17	daubenmire_quadrats_sampled	daubenmirequadratssampled	# of Daubenmire Quadrats Sampled	Integer	Int	No	30		1			
18	quadrat_size_dom_legacy	quadratsizedomlegacy	Dominant Quadrat Size - Legacy	Float	Real	No	30	2	0.1	999	ft2	
19	quadrat_size_sec_legacy	quadratsizeseclegacy	Secondary Quadrat Size - Legacy	Float	Real	No	30	2	0.1	999	ft2	
20	quadrat_shape_dom_legacy	quadratshapedomlegacy	Dominant Quadrat Shape - Legacy	Choice	Smallint	No	30					quadrat_shape
21	quadrat_shape_sec_legacy	quadratshapseclegacy	Secondary Quadrat Shape - Legacy	Choice	Smallint	No	30					quadrat_shape
22	belt_width	beltwidth	Belt Width	Float	Real	No	10	1	1	30	feet	
23	dbl_sampling_annual_prod	dblsampannualprod	Dbl. Sampling Annual Prod	Integer	Int	No	25		0		lbs/acre	
24	total_harvest_annual_prod	totharvestannualprod	Total Harvest Annual Prod	Integer	Int	No	25		0		lbs/acre	
25	weight_unit_annual_prod	wtunitannualprod	Weight Unit Annual Prod	Integer	Int	No	23		0		lbs/acre	
26	dwr_annual_prod	dwrannualprod	DWR Annual Prod	Integer	Int	No	15		0		lbs/acre	
27	comparative_yield_prod	comparativeyieldprod	Comparative Yield Annual Prod	Integer	Int	No	29		0		lbs/acre	
28	comparative_yield_rank_total	comparativeyieldranktotal	Total Comparative Yield Rank	Float	Real	No	28	1	0	999		
29	comparative_yield_rank_ave	comparativeyieldrankave	Ave. Comparative Yield Rank	Float	Real	No	27	2	0	5		
30	comparative_ref_clip_wt_ave	comparativerefclipwtave	Comparative Ref. Clipped Wt. Ave.	Float	Real	No	30	1	0	999	g	
31	above_ground_biomass_total	abovegroundbiomasstotal	Total Above Ground Biomass	Integer	Int	No	26		0		lbs/acre	
32	standing_herb_biomass	standingherbbiomass	Standing Herbaceous Biomass	Integer	Int	No	27		0		lbs/acre	
33	transect_basal_cover_pct	transectbasalcovpct	Transect Basal Cover %	Integer	Smallint	No	22		0	100	percent	
34	basal_cover_pct_total	basalcovpcttotal	Total Basal Cover %	Integer	Smallint	No	19		0	100	percent	
35	basal_gap_size_minimum	basalgapsizemin	Minimum Basal Gap Size	Float	Real	No	22	1	0.1		feet	
36	canopy_gap_size_minimum	canopygapsizemin	Minimum Canopy Gap Size	Float	Real	No	23	1	0.1		feet	
37	gaps_measured_between	gapsmeasuredbetween	Gaps Measured Between	String	Varchar	No	30					
38	canopy_gap_length_total	canopygaplengthtotal	Total Canopy Gap Length	Float	Real	No	23	1	1	1000	feet	
39	canopy_gap_pct_total	canopygappcttotal	Total Canopy Gap %	Integer	Smallint	No	18		0	100	percent	
40	basal_gap_length_total	basalgaplengthtotal	Total Basal Gap Length	Float	Real	No	22	1	1	1000	feet	
41	basal_gap_pct_total	basalgappcttotal	Total Basal Gap %	Integer	Smallint	No	17		0	100	percent	
42	understory_reprod_abundance	understoryreprodabundance	Understory Reprod. Abundance	Choice	Smallint	No	28					abundance_class



### NASIS 7.3.3 Tables and Columns

43	woody_understory_abundance	woodyunderstoryabundance	Woody Understory Abundance	Choice	Smallint	No	26										abundance_class
44	herb_understory_abundance	herbundertoryabundance	Herb. Understory Abundance	Choice	Smallint	No	26										abundance_class
45	lichens_understory_abundance	lichensunderstoryabundance	Lichens Understory Abundance	Choice	Smallint	No	28										abundance_class
46	canopy_cover_total_pct_trans	cancovpcttotaltrans	Transect Total Canopy Cover %	Integer	Smallint	No	29	0						percent			
47	canopy_cover_total_class_trans	cancovtotalclasstrans	Transect Total Canopy Cover Class	Choice	Smallint	No	30										canopy_cover_class
48	canopy_cover_assess_method	cancovassessmethod	Canopy Cover Assess. Method	Choice	Smallint	No	27										assessment_method
49	crown_canopy_closure_pct	crowncanclosurepct	Crown Canopy Closure %	Integer	Smallint	No	22	0	100					percent			
50	crown_canopy_close_assess_meth	crowncancloseassessmethod	Crown Can. Closure Assess. Meth.	Choice	Smallint	No	30										assessment_method
51	crown_comp_factor_lpp	crowncmpfactorlpp	LPP Crown Competition Factor	Float	Real	No	28	1	1	500							
52	crown_comp_lpp_ave_dbh	crowncmplppavedbh	LPP Crown Comp. Ave DBH	Integer	Int	No	23		1	360				inches			
53	overstory_can_cov_pct_trans	overstorycancovpcttrans	Overstory Canopy Cover %	Integer	Smallint	No	24	0	100					percent			
54	overstory_can_cov_class_trans	overstorycancovclasstrans	Overstory Canopy Cover Class	Choice	Smallint	No	28										canopy_cover_class
55	ground_cover_assess_method	groundcovassessmethod	Gr. Cover Assess. Method	Choice	Smallint	No	24										assessment_method
56	ground_cov_quadrats_sampled	groundcovquadratssampled	# of Gr. Cover Quadrats Sampled	Integer	Int	No	30	0									
57	ground_cov_points_sampled	groundcovpointssampled	# of Gr. Cover Points Sampled	Integer	Int	No	29	0									
58	ground_surf_cov_assess_method	groundsurfcovassessmethod	Gr. Surf. Cover Assess. Method	Choice	Smallint	No	30										assessment_method
59	ground_surf_cov_quadrats_samp	groundsurfcovquadratsamp	# of Gr. Surf. Cover Quadrats Sampled	Integer	Int	No	30	0									
60	ground_surf_cov_points_sampled	groundsurfcovpointssamp	# of Gr. Surf. Cover Points Sampled	Integer	Int	No	30	0									
61	lpi_observation_interval	lpiobsinterval	LPI Observation Interval	Float	Real	No	24	1	0.1					feet			
62	total_points_sampled_count	totalpointssampledcount	Total # of Points Sampled	Integer	Int	No	25	0									
63	top_canopy_ht_ave	topcanopyhtave	Top Canopy Ht. Ave.	Float	Real	No	19	1	0.1					feet			
64	top_canopy_ht_std_dev	topcanopyhtstddev	Top Canopy Ht. Std. Dev.	Float	Real	No	24	3	0.1					feet			
65	total_number_plants_belt	totalnumplantsbelt	Total # Plants - Belt	Integer	Int	No	21		1								
66	total_number_species_belt	totalnumspeciesbelt	Total # Species - Belt	Integer	Int	No	22		1								
67	total_plant_density_belt	totalplantdensitybelt	Total Density - Belt	Integer	Int	No	20	0						plants/acre			
68	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19										
69	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22										
70	vegetation_transect_iid	vegtransectiid	Rec ID	Integer	Int	Yes	11										

This table contains information about each vegetation transect within a vegetation plot, and summary vegetation data collected along the transect.

# NASIS 7.3.3 Tables and Columns

Table Logical Name: vegetation\_transect\_plant\_summ

Table Physical Name: vegtransectplantsummary

Table Label: Vegetation Transect Plant Summary

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	vegetation_transect_iid_ref	vegtransectiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	plant_iid_ref	plantiidref	Plant	Integer	Int	Yes	11					
4	plant_nativity	plantnativity	Plant Nativity	Choice	Smallint	No	14					plant_nativity
5	plant_type_group	planttypegroup	Plant Type Group	Choice	Smallint	No	17					plant_type
6	plant_height_class_lower_limit	planheightcllowerlimit	Height Class Lower Limit	Float	Real	No	24	1	0	500	feet	
7	plant_height_class_upper_limit	planheightclupperlimit	Height Class Upper Limit	Float	Real	No	24	1	0	500	feet	
8	sociability_class	sociabilityclass	Sociability Class	Choice	Smallint	No	20					sociability_class
9	species_live_canopy_ht_bot_ave	specieslivecanhtbotave	Ave. Live Canopy Ht. Bottom	Integer	Int	No	27		0	500	feet	
10	species_live_canopy_ht_top_ave	specieslivecanhttopave	Ave. Live Canopy Ht. Top	Integer	Int	No	24		0	500	feet	
11	overstory_dbh_minimum	overstorydbhmin	Overstory DBH Minimum	Float	Real	No	21	1	0.1	99	inches	
12	overstory_dbh_maximum	overstorydbhmax	Overstory DBH Maximum	Float	Real	No	21	1	0.1	360	inches	
13	species_overstory_can_cov_pct	speciesovercancovpct	Overstory Canopy Cover %	Integer	Smallint	No	24		0	100	percent	
14	species_overstory_can_cov_cl	speciesovercancovclass	Overstory Canopy Cover Class	Choice	Smallint	No	28					canopy_cover_class
15	plant_prod_quadrat_size	plantprodquadratsize	Plant Prod Quadrat Size	Float	Real	No	23	2	0.1	999	ft2	
16	plant_prod_quadrat_shape	plantprodquadratsshape	Plant Prod Quadrat Shape	Choice	Smallint	No	24					quadrat_shape
17	nested_freq_quadrat_size	nestedfreqquadratsize	Nested Freq. Quadrat Size	Float	Real	No	25	2	0.1	999	ft2	
18	nested_freq_quadrat_shape	nestedfreqquadratsshape	Nested Freq. Quadrat Shape	Choice	Smallint	No	26					quadrat_shape
19	frequency_quadrat_size	frequencyquadratsize	Freq. Quadrat Size	Float	Real	No	18	2	0.1	999	ft2	
20	frequency_quadrat_shape	frequencyquadratsshape	Freq. Quadrat Shape	Choice	Smallint	No	19					quadrat_shape
21	dwr_quadrat_size	dwrquadratsize	DWR Quadrat Size	Float	Real	No	16	2	0.1	999	ft2	
22	dwr_quadrat_shape	dwrquadratsshape	DWR Quadrat Shape	Choice	Smallint	No	17					quadrat_shape
23	density_quadrat_size	densityquadratsize	Density Quadrat Size	Float	Real	No	20	2	0.1	999	ft2	
24	density_quadrat_shape	densityquadratsshape	Density Quadrat Shape	Choice	Smallint	No	21					quadrat_shape
25	species_tot_wt_clipped_est	species_totwtclippedest	Total Clipped Wt. - Estimated	Integer	Int	No	28		0		g	
26	species_tot_wt_clipped_fresh	species_totwtclippedfresh	Total Clipped Wt. - Fresh	Integer	Int	No	25		0		g	
27	species_tot_wt_clipped_air_dry	species_totwtclippedairdry	Total Clipped Wt. - Air-dry	Integer	Int	No	27		0		g	
28	species_tot_wt_air_dry	species_totwtairdry	Total Wt. - Air-dry	Integer	Int	No	19		0		g	
29	species_tot_wt_est	species_totwttest	Total Wt. - Estimated	Integer	Int	No	21		0		g	
30	species_tot_wt_existing	species_totwtexisting	Total Wt. - Existing	Integer	Int	No	20		0		g	
31	species_dry_wt_pct	speciesdrywtpct	Dry Weight %	Integer	Smallint	No	12		0	100	percent	
32	species_tot_wt	species_totwt	Species Total Wt.	Integer	Int	No	17		0		g	
33	species_ave_yield_dbl_sampling	speciesaveyielddblsamp	Dbl. Sampling Ave. Yield	Integer	Int	No	24		0		lbs/acre	
34	species_comp_pct_dbl_sampling	speciescompctdblsamp	Dbl. Sampling Composition %	Integer	Smallint	No	27		0	100	percent	
35	species_comp_pct_daubenmire	speciescompctdaubenmire	Daubenmire Composition %	Integer	Smallint	No	24		0	100	percent	
36	species_comp_pct_line_int	speciescompctlineintercept	Line Intercept Composition %	Integer	Smallint	No	28		0	100	percent	
37	species_trace_amt_flag	speciestraceamtflag	Trace Amount ?	Boolean	Bit	Yes	14					
38	weight_conv_factor	weightconvfactor	Wt. Conversion Factor	Float	Real	No	21	2	1			
39	dbl_sampling_correction_factor	dblsampcorrectionfactor	Dbl. Sampling Correction Factor	Float	Real	No	30	2	0	99		
40	air_dry_wt_adjustment	airdrywtadjustment	Air-dry Wt. Adjustment	Float	Real	No	22	2	0.01	1		
41	utilization_adjustment	utilizationadjustment	Utilization Adjustment	Float	Real	No	22	2	0.01	1		

# NASIS 7.3.3 Tables and Columns

42	growth_adjustment	growthadjustment	Growth Adjustment	Float	Real	No	17	2	0.01	1	
43	weather_adjustment	weatheradjustment	Weather Adjustment	Float	Real	No	18	2	0.01	2	
44	number_of_quadrats_in	numberofquadratsin	# of Quadrats In	Integer	Int	No	16		0		
45	species_freq_daubenmire	speciesfreqdaubenmire	Species Frequency - Daubenmire	Integer	Smallint	No	30		0	100	percent
46	dwr_one_tally	dwronetally	DWR 1 Tally	Integer	Int	No	11		0	999	
47	dwr_two_tally	dwrwtotally	DWR 2 Tally	Integer	Int	No	11		0	999	
48	dwr_three_tally	dwrthreetally	DWR 3 Tally	Integer	Int	No	11		0	999	
49	dwr_weighted_tally	dwrweightedtally	DWR Weighted Tally	Integer	Int	No	18		0	999	
50	species_comp_pct_dwr	speciescompctdwr	DWR Composition %	Integer	Smallint	No	17		0	100	percent
51	species_ave_yield_dwr	speciesaveyielddwr	DWR Ave. Yield	Integer	Int	No	14		0		lbs/acre
52	weight_unit_weight	wtunitweight	Wt. Unit Weight	Integer	Int	No	15				g
53	weight_unit_count_total	wtunitcounttotal	Total # of Wt. Units	Float	Real	No	20	2	0		
54	species_ave_yield_weight_unit	speciesaveyieldwtunit	Wt. Unit Ave. Yield	Integer	Int	No	19		0		lbs/acre
55	weight_unit_weight_clipped_tot	wtunitwtclippedtotal	Total Wt. Unit Weight Clipped	Integer	Int	No	29		0		g
56	species_canopy_cov_hit_count	speciescancovhitcount	# of Canopy Cover Hits	Integer	Int	No	22		0		
57	species_canopy_cover_pct	speciescancovpct	Canopy Cover %	Integer	Smallint	No	14		0	100	percent
58	species_can_cov_ave_pct_daub	speciescancovpctavedaub	Canopy Cover % Ave. - Daubenmire	Integer	Smallint	No	30		0	100	percent
59	species_canopy_cover_ave_class	speciescancovaveclass	Canopy Cover Ave. Class	Choice	Smallint	No	23				canopy_cover_class
60	species_foliar_cov_hit_count	speciesfoliarcovhitcount	# of Foliar Cover Hits	Integer	Int	No	22		0		
61	species_fol_cov_pct_line_int	speciesfoliarcovpctlineint	Foliar Cover % - Line Int.	Integer	Smallint	No	26		0	100	percent
62	species_tot_fol_cov_line_int	speciestotfoliarcovlineint	Total Foliar Cover - Line Int.	Float	Real	No	30	1	0	1000	feet
63	species_basal_cov_hit_count	speciesbasalcovhitcount	# of Basal Cover Hits	Integer	Int	No	21		0		
64	species_basal_cov_pct_line_int	speciesbasalcovpctlineint	Basal Cover % - Line Int.	Integer	Smallint	No	25		0	100	percent
65	species_tot_basal_cov_line_int	speciestotbasalcovlineint	Total Basal Cover - Line Int.	Float	Real	No	29	1	0	1000	feet
66	mature_count_total	maturecounttotal	Total # of Mature Plants	Integer	Int	No	24		1		
67	mature_density_ave	maturedensityave	Average Mature Density	Integer	Int	No	22		1	999	
68	mature_density_ave_class	maturedensityaveclass	Average Mature Density Class	Choice	Smallint	No	28				plant_density_class
69	seedling_count_total	seedlingcounttotal	Total # of Seedling Plants	Integer	Int	No	26		1		
70	seedling_density_ave	seedlingdensityave	Average Seedling Density	Integer	Int	No	24		1	999	
71	seedling_density_ave_class	seedlingdensityaveclass	Average Seedling Density Class	Choice	Smallint	No	30				plant_density_class
72	species_ground_cov_abun_class	speciesgroundcovabundclass	Ground Cover Abundance Class	Choice	Smallint	No	28				ground_cover_class
73	species_canopy_cov_portion	speciescancovportion	% of Total Canopy Cover	Integer	Smallint	No	23		0	100	percent
74	species_basal_area	speciesbasalarea	Basal Area	Integer	Int	No	10		1	500	ft2/acre
75	basal_area_assess_method	basalareaassessmethod	Basal Area Assess. Method	Choice	Smallint	No	25				assessment_method
76	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19				
77	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22				
78	veg_trans_plant_summ_iid	vegtransplantsummiiid	Rec ID	Integer	Int	Yes	11				

This table contains data about plant species found along a vegetation transect within a vegetation plot.

## NASIS 7.3.3 Tables and Columns

Table Logical Name: vegetation\_transect\_text

Table Physical Name: vegtransecttext

Table Label: Vegetation Transect Text

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	vegetation_transect_iid_ref	vegtransectiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	record_date	recdate	Date	Date/Time	Datetime	Yes	19					
4	record_author	recauthor	Author	String	Varchar	No	25					
5	veg_transect_text_kind	vegtransecttextkind	Kind	Choice	Smallint	No	21					veg_transect_text_kind
6	text_category	textcat	Category	String	Varchar	No	20					
7	text_subcategory	textsubcat	Subcategory	String	Varchar	No	20					
8	text_entry	textentry	Text Entry	Narrative Text	Varchar(max)	Yes	10					
9	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	veg_transect_text_iid	vegtranstextiid	Rec ID	Integer	Int	Yes	11					

This table contains text notes pertaining to an individual vegetation transect.

# NASIS 7.3.3 Tables and Columns

Table Logical Name: windbreak\_row\_data

Table Physical Name: windbreakrowdata

Table Label: Windbreak Row Data

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	vegetation_plot_iid_ref	vegplotiidref	Lineage	Integer	Int	Yes	11					
2	sequence_number	seqnum	Seq	Integer	Smallint	No	6		1			
3	windbreak_row_id	windbreakrowid	Row ID	String	Varchar	Yes	6					
4	plant_iid_ref	plantiidref	Plant	Integer	Int	Yes	11					
5	growing_season_count	growingseasoncount	# of Growing Seasons	Integer	Int	No	20		1	200		
6	species_condition	speiescondition	Species Condition	Choice	Smallint	No	17					species_condition
7	crown_spread_left	crownspreadleft	Crown Spread Left	Integer	Int	No	17		1		feet	
8	crown_spread_right	crownspreadright	Crown Spread Right	Integer	Int	No	18		1		feet	
9	spacing_between_rows	spacingbetweenrows	Spacing Between Rows	Integer	Int	No	20		1	99	feet	
10	spacing_within_row	spacingwithinrow	Spacing Within Row	Integer	Int	No	18		1	99	feet	
11	cultivation_past	cultivationpast	Cultivation Past	Choice	Smallint	No	16					cultivation_extent
12	cultivation_present	cultivationpresent	Cultivation Present	Choice	Smallint	No	19					cultivation_extent
13	species_diameter_breast_ht_ave	speciesdbhaverage	DBH Average	Float	Real	No	11	1	1	360	inches	
14	disease_kind	diseasekind	Disease Kind	Choice	Smallint	No	16					disease_kind
15	disease_damage_degree	diseasedamagedegree	Disease Damage Degree	Choice	Smallint	No	21					damage_degree
16	injury_kind	injurykind	Injury Kind	Choice	Smallint	No	11					injury_kind
17	injury_damage_degree	injurydamagedegree	Injury Damage Degree	Choice	Smallint	No	20					damage_degree
18	insect_kind	insectkind	Insect Kind	Choice	Smallint	No	15					insect_kind
19	insect_damage_degree	insectdamagedegree	Insect Damage Degree	Choice	Smallint	No	20					damage_degree
20	ground_cover_extent	groundcoverextent	Ground Cover Extent	Choice	Smallint	No	19					ground_cover_extent
21	height_live_crown_left	heightlivecrownleft	Ht. to Live Crown Left	Integer	Int	No	22		0	500	feet	
22	height_live_crown_right	heightlivecrownright	Ht. to Live Crown Right	Integer	Int	No	23		0	500	feet	
23	survival_percent	survivalpct	Survival %	Integer	Smallint	No	10		0	100	percent	
24	windbreak_row_height_ave	windbreakrowhtave	Row Ht. Average	Integer	Int	No	15		0	500	feet	
25	windbreak_row_height_max_ave	windbreakrowhtmaxave	Row Ht. Max. Aveage	Integer	Int	No	19		0	500	feet	
26	reproduction_abundance_class	reprodabundanceclass	Reproduction Abundance Class	Choice	Smallint	No	28					reproduction_abundance_class
27	root_depth_few	rootdepthfew	Rooting Depth Few	Integer	Int	No	17		0	9999	cm	
28	root_depth_common	rootdepthcommon	Rooting Depth Common	Integer	Int	No	20		0	9999	cm	
29	root_depth_many	rootdepthmany	Root Depth Many	Integer	Int	No	15		0	9999	cm	
30	suppression_degree_left	suppressiondegreelleft	Suppression Degree Left	Choice	Smallint	No	23					suppression_degree
31	suppression_row_left	suppressionrowleft	Suppression Row ID Left	String	Varchar	No	23					
32	suppression_degree_right	suppressiondegreeright	Suppression Degree Right	Choice	Smallint	No	24					suppression_degree
33	suppression_row_right	suppressionrowright	Suppression Row ID Right	String	Varchar	No	24					
34	vital_notes_indicator	vitalnotesindicator	Vital Notes ?	Boolean	Bit	Yes	13					
35	soil_taxon_range_indicator	soiltaxonrangeindicator	Within Soil Taxon Range ?	Boolean	Bit	Yes	25					
36	notes	notes	Notes	Narrative Text	Varchar(max)	No	7					
37	record_when_last_updated	recwupdated	Record Last Updated	Date/Time	Datetime	No	19					
38	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
39	windbreak_row_data_iid	windbreakrowdataiid	Rec ID	Integer	Int	Yes	11					

This table contains data collected from individual rows of a windbreak as part of a vegetation inventory.



### NASIS 7.3.3 Tables and Columns

Table Logical Name: ws\_import\_map  
Table Label: Worksheet Import Map

Table Physical Name: wsimportmap

Default Sequence	Table Logical Name	Physical Name	Column Label	Log Data Type	Phys Data Type	Not Null?	Size	Prec	Min	Max	UOM	Domain Name
1	wb_name	wbname	Workbook Name	String	Varchar	Yes	30					
2	wb_version	wbversion	Workbook Version	String	Varchar	Yes	30					
3	ws_name	wsname	Worksheet Name	String	Varchar	Yes	30					
4	ws_import_mapping	wsimportmapping	Worksheet Import Mapping	XML	Varchar(max)	Yes	24					
5	ws_import_map_db_iid_ref	wsimportmapdbiidref	Worksheet Import Map NASIS Site	Integer	Int	Yes	30					
6	group_iid_ref	grpIIDref	NASIS Group	Integer	Int	Yes	11					
7	object_when_last_updated	objwIupdated	Object Last Updated	Date/Time	Datetime	No	19					
8	object_user_iid_ref	objuseriidref	Object Last Updated By	Integer	Int	No	22					
9	record_when_last_updated	recwIupdated	Record Last Updated	Date/Time	Datetime	No	19					
10	record_user_iid_ref	recuseriidref	Record Last Updated By	Integer	Int	No	22					
11	ws_import_map_iid	wsimportmapiid	Rec ID	Integer	Int	Yes	11					

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.