

Oracle Designer

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Parameter Values

Workarea : GLOBAL SHARED WORKAREA
Container : NAVF
Container Version:
Recurse Sub-Containers : N
Entity Name : %
Include Notes : Yes
ER Diagram :

Entities Created

On/After :
On/Before : 03 May 2006
and

Entities Changed

On/After :
On/Before : 03 May 2006

Entity Definition

Container: NVAF Version:

Entity

Name : VDHH ACTUAL TRLDLDR PATHOLOGY
 Short Name : VATP
 Plural Name : VDHH ACTUAL TRLDLDR PATHOLOGY
 Synonyms :
 VDHH_ACTUAL_TRLDLDR_PATHOLOGY

Description

Details of a pathology associated with a tree leader.

Notes

From DVHand Tr_Path.dbf

Attributes

* - Attributes in primary unique identifier

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>	<u>Scale</u>
HT TO PATH IND END		N	NUMBER	6	,2
The height from the ground along the bole to the point at which the pathological indicator ends (metres).					
HT TO PATH IND START		N	NUMBER	6	,2
The height from the ground along the bole to the highest point at which the pathological indicator starts (metres).					
* PATH ID		N	NUMBER	2	
Pathology ID. No business meaning. Unique within a leader?					
VATP TYPE		N	VARCHAR2	4	
Type of pathology.					
WIDTH		N	NUMBER	5	,1
Width of the pathology (cm).					

Relationships

* - Relationships in primary unique identifier

Each Occurrence Of This Entity :

* MUST BE describe the pathology of one and only VDHH TREE LEADERS
 one

Unique Identifiers

<u>Name</u>	<u>Primary?</u>	<u>Attrib.Name</u>	<u>Relationship</u>	<u>To Entity Name</u>
TLP1	Yes	PATH ID		
			describe the pathology of	VDHH TREE LEADERS

Entity Definition

Container: NVAF Version:

Entity

Name : VDHH EST TREE PATHOLOGY

Short Name : VETP

Plural Name : VDHH EST TREE PATHOLOGY

Synonyms :
VDHH EST TREE PATHOLOGY

Description

Details of a pathology associated with a tree.

Notes

From DVHand Tr Path.dbf

Attributes

* - Attributes in primary unique identifier

Name	Domain	Opt	Format	Length	Scale
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HT TO PATH IND END	N	NUMBER	6	, 2
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The height from the ground along the bole to the point at which the pathological indicator ends (metres).

HT TO PATH IND START	N	NUMBER	6	, 2
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The height from the ground along the bole to the highest point at which the pathological indicator starts (metres).

*	PATH ID	N	NUMBER	2
---	---------	---	--------	---

Pathology ID. No business meaning.

TYPE	N	VARCHAR2	4
------	---	----------	---

Type of pathology.

WIDTH	N	MONEY	5	,1
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Width of the pathology (cm).

Relationships

* - Relationships in primary unique identifier

Each Occurrence Of This Entity :

* MUST BE describe the pathology of one and only one VDHH TREES

Unique Identifiers

Name	Primary?	Attrib.Name	Relationship	To Entity Name
Customer		CustomerID	1:M	Order
Order		OrderID	1:M	OrderDetail
OrderDetail		OrderDetailID	1:M	Product
Product		ProductID	1:M	Inventory
Inventory		InventoryID	1:M	Supplier
Supplier		SupplierID	1:M	Shipment
Shipment		ShipmentID	1:M	Customer

STP	Yes	PATH ID
-----	-----	---------

describe the pathology of VDHH TREES

Entity Definition

Container: NVAF Version:

Entity

Name : VDHH LAYER SPP COMPOSITION

Short Name : VLSC

Plural Name : VDHH LAYER SPP COMPOSITION

Synonyms :
VDHH_LAYER_SPP_COMPOSITION

Description

Tree species composition of a given layer within a sample

Notes

From SA_LAYER_SL_SPECIE1-7, SA_LAYER_SL_SPPCT1-7 and
SA_LAYER_SL_PREDOM1-7

Attributes

* - Attributes in primary unique identifier

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>	<u>Scale</u>
* TREE SPP		Y	VARCHAR2	3	
Tree species					
TREE SPP PCT		Y	NUMBER	3	
Tree species percent composition					

Relationships

* - Relationships in primary unique identifier

Each Occurrence Of This Entity :

* MUST BE describe the species composition of one VDHH LAYERS
and only one

Unique Identifiers

<u>Name</u>	<u>Primary?</u>	<u>Attrib.Name</u>	<u>Relationship</u>	<u>To Entity Name</u>
LSC1	Yes	TREE SPP		
			describe the species composition of	VDHH LAYERS

Entity Definition

Container: NVAF Version:

Entity

Name : VDHH LAYERS
 Short Name : VL
 Plural Name : VDHH LAYERS
 Synonyms : VDHH_LAYERS

Description

Stand composition information relating to the sample as a whole

Notes

From DVHost Sa_Layer.dbf

Attributes

* - Attributes in primary unique identifier

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>	<u>Scale</u>
* LAYER ID		N	VARCHAR2	1	
Layer number					
AIR CROWN CLOSURE PCT		Y	NUMBER	3	
Crown Closure % as viewed from the aerial photo					
GROUND CROWN CLOSURE PCT		Y	NUMBER	3	
Crown Closure % as viewed from the ground					
RELATIVE DENSITY		Y	NUMBER	5	
Relative density					
STAND STRUCTURE		Y	VARCHAR2	1	
Stand structure					

Relationships

* - Relationships in primary unique identifier

Each Occurrence Of This Entity :

MAY BE	be composed of one or more	VDHH LAYER SPP COMPOSITION
* MUST BE	describe the stand composition for one and only one	VDHH SAMPLES

Unique Identifiers

<u>Name</u>	<u>Primary?</u>	<u>Attrib.Name</u>	<u>Relationship</u>	<u>To Entity Name</u>
LYR1	Yes	LAYER ID		
			describe the stand composition for	VDHH SAMPLES

Entity Definition

Container: NVAF Version:

Entity

Name : VDHH PLOTS
 Short Name : VP
 Plural Name : VDHH PLOTS
 Synonyms : VDHH_PLOTS

Description

Information associated with a plot within a sample

Notes

From DVHand Plot.dbf

Attributes

* - Attributes in primary unique identifier

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>	<u>Scale</u>
SLOPE PCT		N	NUMBER	3	
Plot slope percent. Must be between 0 and 150. If Plot Aspect is 0, Plot Slope must also be 0. If Plot Aspect >0, Plot Slope must also be > 0.					
ASPECT		N	NUMBER	3	
Plot aspect (degrees).					
ELEVATION		N	NUMBER	4	
Plot elevation (metres). Must be 0 to 5000 metres.					
* PLOT COUNT ID		N	VARCHAR2	1	
Count Plot ID. Must be A, B, or F(ull).					
* PLOT NO		N	NUMBER	2	
Plot number					
SLOPE POSITION		N	VARCHAR2	1	
Plot slope position.					
SITE UNIT		Y	NUMBER	2	
Site unit.					

Relationships

* - Relationships in primary unique identifier

Each Occurrence Of This Entity :

MAY BE	contain one or more	VDHH TREES
* MUST BE	be contained within one and only one	VDHH SAMPLES

Entity Definition

Container: NVAF Version:

Unique Identifiers

<u>Name</u>	<u>Primary?</u>	<u>Attrib.Name</u>	<u>Relationship</u>	<u>To Entity Name</u>
PLT1	Yes	PLOT COUNT ID PLOT NO	be contained within	VDHH SAMPLES

Entity Definition

Container: NVAF Version:

Entity

Name : VDHH SAMPLES
Short Name : VS
Plural Name : VDHH SAMPLES
Synonyms : VDHH_SAMPLES

Description

Information relevant to the Net Volume Adjustment Factor sample as a whole

Notes

From DVHand Sample.dbf

Attributes

* - Attributes in primary unique identifier

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>	<u>Scale</u>
AIR PHOTO NO		N	NUMBER	3	
Aerial photograph number. Should be >= 1.					
COAST INTERIOR		N	VARCHAR2	1	
C(oastal) or I(nterior) sample. Used for determining diameter for utilization top.					
COMPARTMENT		N	NUMBER	3	
Sample compartment number. Valid numbers are 1 to 206.					
POLYGON NO		N	NUMBER	4	
Sample polygon - forest cover.					
REGION		N	NUMBER	2	
Forestry region. Must be 1 to 88.					
SAMPLE DATE		N	DATE		
Date the sample was created. Must be greater than or equal to January 1, 1999.					
SAMPLE NO		N	NUMBER	3	
Sample number.					
SAMPLE TYPE		N	VARCHAR2	1	
Sample type. Can be D(ecay), V(olume) or B(oth). If it is D or V then the tree types must be the same. If it is b, the tree types can be a mixture of D and V.					
UTM EASTING		N	NUMBER	6	
Sample UTM co-ordinate - latitudinal.					
UTM NORTHING		N	NUMBER	7	
Sample UTM co-ordinate - longitudinal.					
UTM ZONE		N	NUMBER	2	
Sample UTM zone.					

Entity Definition

Container: NVAF Version:

BEC SITE ASSOC	Y	NUMBER	2
BEC site association.			
BEC SITE PHASE	Y	VARCHAR2	1
BEC site phase.			
BEC SITE SERIES	Y	NUMBER	2
BEC site series.			
BEC SITE SUB ASSOC	Y	NUMBER	1
BEC site sub-association.			
BEC SITE TYPE	Y	NUMBER	2
BEC site type.			
BGC PHASE	Y	VARCHAR2	1
Biogeoclimatic phase.			
BGC SUB ZONE	Y	VARCHAR2	3
Biogeoclimatic sub plot zone.			
BGC VARIANT	Y	NUMBER	1
Biogeoclimatic variant.			
BGC ZONE	Y	VARCHAR2	4
Biogeoclimatic zone.			
BGC ZONE DATA SOURCE	Y	VARCHAR2	1
Biogeoclimatic zone data source.			
COLLECTION PURPOSE	Y	VARCHAR2	15
COMPARTMENT LETTER	Y	VARCHAR2	1
Sample letter. Valid codes are A to P.			
FLIGHT NO	Y	VARCHAR2	5
Flight number.			
INSTALLATION	Y	NUMBER	3
Installation. This attribute may be NULL which makes the REGION, COMPARTMENT, COMPARTMENT LETTER, INSTALLATION and SAMPLE NUMBER combination unsuitable for a primary key but okay for a unique key constraint. Therefore, the NVAF SAMPLES table must have a surrogate primary key.			
MAP NO	Y	VARCHAR2	8
Sample map number. If entered, the first three characters should be 82, 92, 93, 94, 102, 103, 104 or 114. The fourth character should be A to P and characters 5 to 8 should not add up to zero.			
MEASMT AGENCY	Y	VARCHAR2	1
Sample measurement agency.			
MEASMT CONTRACTOR	Y	VARCHAR2	10
Sample measurement contractor.			

Entity Definition

Container: NVAF Version:

MEASMT CREW MEMBER #1	Y	VARCHAR2	25
Sample measurement crew member #1.			
MEASMT CREW MEMBER #2	Y	VARCHAR2	25
Sample measurement crew member #2.			
MEASMT DATA OWNER	Y	VARCHAR2	10
Sample measurement data owner.			
NOTES	Y	VARCHAR2	100
Notes regarding the sample.			
PROJECT NO	Y	VARCHAR2	30
Sample project number.			
TSA	Y	NUMBER	2
Timber supply area.			

Relationships * - Relationships in primary unique identifier

Each Occurrence Of This Entity :

MAY BE	be composed of one or more	VDHH LAYERS
MAY BE	contain one or more	VDHH PLOTS

Unique Identifiers

Name	Primary?	Attrib.Name	Relationship	To Entity Name
SMP1	No	COMPARTMENT COMPARTMENT LETTER INSTALLATION REGION SAMPLE NO		

Entity Definition

Container: NVAF Version:

Entity

Name : VDHH TREE LEADER DECAY

Short Name : VTLD

Plural Name : VDHH TREE LEADER DECAY

Synonyms :
VDHH_TREE_LEADER_DECAY

Description

Description of a decay occurrence associated with a particular tree leader.

Notes

From DVHand Tl_Decay.dbf

Attributes

* - Attributes in primary unique identifier

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>	<u>Scale</u>
DECAY SHADE CD		N	VARCHAR2	1	
Decay shade code. A code for the patterning and/or shading of the decay or stain occurrence.					
DECAY SHAPE CD		N	VARCHAR2	1	
Decay shape code. The shape of the cross-section of a body of decay.					
DECAY STAIN COLOUR CD		N	VARCHAR2	1	
Decay stain colour code. A code for the colour of the decay or stain occurrence.					
* DECAY STAIN ID		N	NUMBER	2	
Decay/stain id number. An assigned number to identify a specific decay or stain occurrence in the tree leader. The number is unique for the tree although occurrences are specific to a leader. Thus a body of decay or stain that spans multiple leaders is recorded as multiple occurrences.					
DECAY TEXTURE CD		N	VARCHAR2	1	
Decay texture code. A code for the textural characteristics of the decay occurrence.					
DEVELOPMENT STAGE CD		N	VARCHAR2	1	
Development stage code. A code for the development stage of the decay or stain occurrence.					
ENTRANCE CD		N	VARCHAR2	1	
Entrance code. A code for the entrance of the decay or stain occurrence.					
MYCELIUM COLOUR CD		N	VARCHAR2	1	
Mycelium colour code. A code for the predominant colouration of the mycelium associated with the decay occurrence.					
MYCELIUM SHADE CD		N	VARCHAR2	1	

Entity Definition

Container: NVAF Version:

Mycelium shade code. A code for the predominant shading and/or patterning of the mycelium associated with the decay occurrence.

MYCELIUM TYPE CD	N	VARCHAR2	1
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Mycelium type code. A code for the physical description of the mycelium associated with the decay occurrence.

ORGANISM CD	N	VARCHAR2	6
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Decay or stain organism code. A code for the organism which caused the decay occurrence.

PFS COLOUR CD	N	VARCHAR2	1
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Pits, flecks and spots colour code. A code for the predominant colouration of the pits, flecks and spots associated with the decay occurrence.

PFS NUM CD	N	VARCHAR2	1
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Pits, flecks and spots number code. A code for the qualification of the number of pits, flecks and spots associated with the decay occurrence.

PFS SHADE CD	N	VARCHAR2	1
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Pits, flecks and spots shade code. A code for the predominant shading and/or patterning of pits, flecks and spots associated with the decay occurrence.

PFS SHAPE CD	N	VARCHAR2	1
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Pits, flecks and spots shape code. A code for the shape of pits, flecks and spots associated with the decay occurrence.

PFS TYPE CD	N	VARCHAR2	1
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Pits, flecks and spots type code. A code for the categorization of pits, flecks and spots or combinations thereof associated with the decay occurrence.

SEPARATE MIXED	N	VARCHAR2	1
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Whether the decay elements are separate or mixed.

TYPE	N	VARCHAR2	1
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Decay or stain indicator. Must be D(ecay), S(tain) or V(oid).

WOOD STRENGTH CD	N	VARCHAR2	1
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Wood strength code. A code for the wood strength characteristics associated with the decay occurrence.

Relationships * - Relationships in primary unique identifier

Each Occurrence Of This Entity :

	MAY BE	contain one or more	VDHH TREE SEGMENT DECAY
*	MUST BE	describe the decay of one and only one	VDHH TREE LEADERS

Entity Definition

Container: NVAF Version:

Unique Identifiers

<u>Name</u>	<u>Primary?</u>	<u>Attrib.Name</u>	<u>Relationship</u>	<u>To Entity Name</u>
TLD1	Yes	DECAY STAIN ID	describe the decay of	VDHH TREE LEADERS

Entity Definition

Container: NVAF Version:

Entity

Name : VDHH TREE LEADERS
 Short Name : VTL
 Plural Name : VDHH TREE LEADERS
 Synonyms : VDHH_TREE_LEADERS

Description

Description of the primary leader and any secondary leader emanating from the primary leader. The data in this entity focuses on the leader as a whole and, for secondary leaders, the fork from which the leader emerges.

Notes

From DVHand TrLeader.dbf

Attributes

* - Attributes in primary unique identifier

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>	<u>Scale</u>
HT FROM GROUND TO LEADER TOP		N	NUMBER	6	,2
The height from the ground of the top of this leader (metres). Must be < tree height.					
* TREE LEADER NO		N	NUMBER	1	
Tree leader number. Primary leader = 1, secondary leader = 2, etc.					
UTILIZATION HT		N	NUMBER	6	,2
Utilization height for this leader. Must be >= 0. Must be < leader height. Must be > top fork height.					
CHILD DECAY WEDGE SECTION NO		Y	NUMBER	2	,0
Child decay wedge section number for this leader.					
CHILD VOLUME WEDGE SECTION NO		Y	NUMBER	2	,0
Child volume wedge section number for this leader.					
DIAM OVER BARK AT FORK BOTTOM		Y	NUMBER	5	,1
Diameter over bark at bottom of fork (cm). Must be between 0 and 999. Should be <= the previous lower section's top diameter with bark.					
DOUBLE BARK THICKNESS		Y	NUMBER	4	,1
Double bark thickness at the bottom of the fork (cm). Must be between 0 and 99.9. If a previous section exists, and it's first double bark thickness is > 0, then this double bark thickness should be within + or - 50% of the previous section's first double bark thickness					
HT TO FORK BOTTOM		Y	NUMBER	6	,2
Height above ground of bottom of fork from which this child leader emerges					

Entity Definition

Container: NVAF Version:

(metres). If the leader's utilization top height > 0, then this bottom fork height must be < the child leader's utilization top height. If the leader's utilization top height = 0, then the bottom fork height must be < the child leader height.

HT TO FORK TOP	Y	NUMBER	6	,2
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Height of top of fork from which this child leader emerges above ground (metres).

PARENT DECAY SECTION NO	Y	NUMBER	2	,0
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Parent decay section number.

PARENT LEADER NO	Y	NUMBER	2	,0
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Parent leader number for this child leader.

PARENT VOLUME SECTION NO	Y	NUMBER	2	,0
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Parent volume section number.

TOP FORK PARENT LEADER DBT	Y	NUMBER	4	,1
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Top fork parent leader double bark thickness (cm). Used only for volume assessment. Must be between 0 and 99.9. If a previous section exists, and it's first double bark thickness is > 0, then this double bark thickness should be within + or - 50% of the previous section's first double bark thickness.

TOP FORK PARENT LEADER DIB#1	Y	NUMBER	5	,1
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Top fork parent leader diameter inside bark #1. Used for decay assessment only.

TOP FORK PARENT LEADER DIB#2	Y	NUMBER	5	,1
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Top fork parent leader diameter inside bark #2. Used for decay assessment only.

TOP FORK PARENT LEADER DOB	Y	NUMBER	5	,1
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Top fork parent leader diameter outside bark (cm). Used only for volume assessment. Must be between 0 and 999. Should be < bottom fork diameter outside bark.

TOP FORK SECONDARY LEADER DBT	Y	NUMBER	4	,1
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Top fork secondary leader double bark thickness (cm). Used only for volume assessment. Must be between 0 and 99.9. If a previous section exists, and it's first double bark thickness is > 0, then this double bark thickness should be within + or - 50% of the previous section's first double bark thickness.

TOP FORK SECONDARY LEADER DOB	Y	NUMBER	5	,1
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Top fork secondary leader diameter outside bark (cm). Used for volume assessment only. Must be between 0 and 999. Should be < parent leader top diameter outside bark.

Relationships * - Relationships in primary unique identifier

Each Occurrence Of This Entity :

MAY BE be decayed by one or more

VDHH TREE LEADER
DECAY

Entity Definition

Container: NVAF Version:

MAY BE	be described pathologically by one or more	VDHH ACTUAL TRLDR PATHOLOGY
* MUST BE	be part of one and only one	VDHH TREES
MUST BE	be sectioned into one or more	VDHH TREE SEGMENTS

Unique Identifiers

<u>Name</u>	<u>Primary?</u>	<u>Attrib.Name</u>	<u>Relationship</u>	<u>To Entity Name</u>
TL1	Yes	TREE LEADER NO		
			be part of	VDHH TREES

Entity Definition

Container: NVAF Version:

Entity

Name : VDHH TREE SEGMENT DECAY

Short Name : VTSD

Plural Name : VDHH TREE SEGMENT DECAY

Synonyms :
VDHH_TREE_SEGMENT_DECAY

Description

Description of a decay instance which must be related to a parent decay occurrence.

Notes

From DVHand Ts_Decay.dbf

Attributes

* - Attributes in primary unique identifier

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>	<u>Scale</u>
CONTD TO NEXT SECTION		N	VARCHAR2	1	
Decay instance is continued to the next section's instance.					
CONTN FROM PREV SECTION		N	VARCHAR2	1	
Decay instance is a continuation from previous section's instance.					
DECAY LENGTH		N	NUMBER	6	,2
The length of the decay within the section (m). It may reach all the way to the top and/or the bottom of the section.					
DECAY PCT		N	NUMBER	3	
If decay in this section is mixed, this is the percentage that this part of the mixed decay contributes to the whole in this section.					
INNER BREADTH		N	NUMBER	5	,1
The distance across one dimension of the inner cross-section of a body of decay within the section (cm). The inner breadth width is measured along a dimension perpendicular to the inner width. If > 0, must be <= inner width. If inner width or inner breadth > 0, decay top height must be 0. If decay not continued from previous section, inner width must be > 0.					
INNER WIDTH		N	NUMBER	5	,1
The distance across one dimension of the inner cross-section of a body of decay within the section (cm). The inner width is measured along a dimension perpendicular to the inner width. If > 0, must be <= inner breadth. If inner width or inner breadth > 0, decay top height must be 0. If decay not continued from previous section, inner breadth must be > 0.					
OUTER BREADTH		Y	VARCHAR2	5	
The distance across one dimension of the outer most cross section of a body of decay within the section (cm). The outer breadth is measured along a dimension perpendicular to the outer width. If > 0, must be >= outer width. Outer breadth					

Entity Definition

Container: NVAF Version:

must be $\leq$ current section's second diameter inside bark. Outer breadth must be $>$ inner breadth.

OUTER WIDTH	Y	VARCHAR2	5
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The distance across one dimension of the outer most cross section of a body of decay within the section (cm). The outer width is measured along a dimension perpendicular to the outer breadth. If > 0, must be >= outer breadth. Outer width must be <= current section's first diameter inside bark. Outer width must be > inner width.

TREE TOP TO DECAY Y NUMBER 6 , 2
BOTTOM HT

The distance from the top of a tree section to the bottom of the major body of decay within the tree section (m). Must be $\geq$ distance to top of decay. Must be $\leq$ section length.

TREE TOP TO DECAY
TOP HT

Y NUMBER 6 , 2

The distance from the top of a tree section to the top of the major body of decay within the tree section (m). Must be < the section length. If a decay instance width and/or breadth > 0, then this must be 0 (indicating that the decay instance extends to the top of the section).

Relationships * - Relationships in primary unique identifier

Each Occurrence Of This Entity :

* MUST BE	be associated with one and only one	VDHH TREE LEADER DECAY
* MUST BE	describe the decay of one and only one	VDHH TREE SEGMENTS

Unique Identifiers

Name	Primary?	Attrib.Name	Relationship	To Entity Name
TSD1	Yes		be associated with describe the decay of	VDHH TREE LEADER DECAY VDHH TREE SEGMENTS

Entity Definition

Container: NVAF Version:

Entity

Name : VDHH TREE SEGMENTS
 Short Name : VTS
 Plural Name : VDHH TREE SEGMENTS
 Synonyms : VDHH_TREE_SEGMENTS

Description

Description of an assessment of a section or segment of a tree associated with a parent leader.

Notes

From DVHand Tr_Seg.dbf

Attributes

* - Attributes in primary unique identifier

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>	<u>Scale</u>
* ASSESSMENT TYPE		N	VARCHAR2	1	
Character indicating D(ecay) or V(olume) assessment record. For trees on which both volume and decay assessments are made. The base segments (numbers 1 through 5) are identical for both volume and decay and are duplicated for each of these two assessments.					
CUMULATIVE TREE LENGTH		N	NUMBER	6	,2
Cumulative tree length from bottom of lowest section on the leader to the top of this section (metres). Entered for decay assessment, calculated for volume assessment.					
FIRST LEADER SECTION WITHIN		N	NUMBER	2	,0
The first section number on the leader to which this section belongs. Volume and decay sectioning being different. Volume section entries may well have different numbering to decay entries.					
FORK PRESENT		N	VARCHAR2	1	
True if fork present in this section, otherwise false.					
LAST SECTION		N	VARCHAR2	1	
True if this section is the last segment in the leader, else false.					
SECTION LENGTH		N	NUMBER	5	,2
Section length (metres).					
* SEGMENT NO		N	NUMBER	3	
Segment or section number. Sections are internally numbered from the base of the stem up the main leader, thence along each secondary, etc. leader. The 5 base sections (1 - 5) are identical for both Volume and Decay. Section 1 is used for that part of the tree that occurs below the high side. Sections higher than 5 are internally numbered separately for Volume and Decay assessment purposes. The section on the parent leader where a fork occurs is considered a normal section. The section of a secondary leader that is below the secondary leader top fork					

Entity Definition

Container: NVAF Version:

height and joins the parent section is termed the wedge section.

SEGMENT TYPE	N	VARCHAR2	2
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Segment type. For sections 1 - 5, the type is B(ase). For sections 6 and above, the type is V(olume) or D(ecay).

BARK THICKNESS SUM	Y	NUMBER	4	,1
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The sum of the two bark thickness measurements taken at opposite sides of the tree at the top of the tree section (cm).

FIRST DIAMETER INSIDE BARK	Y	NUMBER	5	,1
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First observed diameter inside bark at section top (cm).

PARENT LEADER NO	Y	NUMBER	1	,0
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Parent leader number if this section is not in the primary leader. 0 if this section is in the primary leader.

PARENT SECTION NO	Y	NUMBER	2	,0
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Parent section number if this section is not in the primary leader. 0 if this section is in the primary leader.

SECOND DIAMETER INSIDE BARK	Y	NUMBER	5	,1
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Second observed diameter inside bark at section top (cm).

TOP DIAM WITH BARK	Y	NUMBER	5	,1
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The diameter at the top of the tree section including the bark (cm). Used only for volume assessment.

Relationships * - Relationships in primary unique identifier

Each Occurrence Of This Entity :

MAY BE	be decayed by one or more	VDHH TREE SEGMENT DECAY
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* MUST BE	be part of one and only one	VDHH TREE LEADERS
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Unique Identifiers

<u>Name</u>	<u>Primary?</u>	<u>Attrib.Name</u>	<u>Relationship</u>	<u>To Entity Name</u>
TS1	Yes	ASSESSMENT TYPE SEGMENT NO		
			be part of	VDHH TREE LEADERS

Entity Definition

Container: NVAF Version:

Entity

Name : VDHH TREES
Short Name : VT
Plural Name : VDHH TREES
Synonyms : VDHH_TREES

Description

Information associated with a tree within a plot

Notes

From DVHand Tree.dbf

Attributes

* - Attributes in primary unique identifier

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>	<u>Scale</u>
AGE CORRECTION		N	NUMBER	4	
Age correction (years). Age correction plus stump age must be between 10 and 1500.					
COUNTED STUMP AGE		N	NUMBER	4	,0
Counted stump age (years) excluding missing wood. Should be between 10 and 1500.					
DBH ASSESSMENT TYPE		N	VARCHAR2	1	
Diameter at breast height assessment type. Must be A(ctual) or E(stimated).					
DBH13		N	NUMBER	5	,1
Diameter of tree measured at breast height which is 1.3 metres above the germination point. Measured in centimetres.					
EST STUMP DIAM INSIDE BARK		N	NUMBER	5	,1
Estimated stump DIB (cm). Use top DIB of segment below stump height.					
HEIGHT		N	NUMBER	4	,1
Measured tree height in metres. Must be between 3 and 100 metres. Must be greater than height to base of live crown, utilization top and break height. Crown should start in lowest third of tree.					
HT TO LIVE CROWN BASE		N	NUMBER	6	,2
Height to base of live crown measured in metres. Must be between 0.1 and 999.99.					
NUM VOL SEGMT IN MAIN LDR		N	NUMBER	2	
Number of volume sections assigned to the main leader. If tree height >= 26.3m then 20 else 10.					
SOUND WOOD ANNULAR RADIUS		N	NUMBER	5	,1
Annular radius of sound wood (cm). The sum of the radius of missing wood and the annular radius of sound wood must be >= DIB * 0.25 and <= DIB * 0.75.					

Entity Definition

Container: NVAF Version:

SPECIES	N	VARCHAR2	3	
Tree species.				
STUMP HT	N	NUMBER	5	,2
Stump height (metres). Must be between 0 and 10.00.				
TOTAL AGE AT BH	N	NUMBER	4	,0
Tree total age at breast height (after correction) (years).				
* TREE NO	N	NUMBER	4	
Tree number. No business meaning.				
TREE TYPE	N	VARCHAR2	1	
Tree type must be V(olume), D(ecay) or B(oth).				
DIAM INSIDE BARK AT BREAK	Y	NUMBER	5	,1
Diameter inside bark at break (cm). 0 if no break. Must be <= DBH.				
HT TO BREAK	Y	NUMBER	6	,2
Height to break (metres). 0 if no break. If > 0, should be > live crown height. If 0, diameter at break is 0.				
MISSING WOOD RADIUS	Y	NUMBER	5	,1
Radius of missing (decayed) wood (cm). Must be >= 0. Missing radius must be <= 0.90 * stump DIB.				
NOTES	Y	VARCHAR2	100	
Tree comments.				
STUMP AGE	Y	NUMBER	4	
Observed stump age in years. Must be between 10 and 1500.				
UTILIZATION TOP DIAM	Y	NUMBER	2	
Utilization top diameter (cm). Set up as 15 cm for coastal samples with a breast height age >= 121. Otherwise, 10 cm.				

Relationships * - Relationships in primary unique identifier

Each Occurrence Of This Entity :

	MAY BE	be described pathologically by one or more	VDHH EST TREE PATHOLOGY
	MUST BE	be comprised of one or more	VDHH TREE LEADERS
*	MUST BE	be contained within one and only one	VDHH PLOTS

Entity Definition

Container: NVAF Version:

Unique Identifiers

<u>Name</u>	<u>Primary?</u>	<u>Attrib.Name</u>	<u>Relationship</u>	<u>To Entity Name</u>
TR1	Yes	TREE NO	be contained within	VDHH PLOTS

Oracle Designer

ENTITY DEFINITION REPORT

End of Report