

Version 02
(2002.04.14)

Growth and Yield: GyHand
Validation Rules for Screen#102

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SAMPLE->SA_BRKPNT Database Field #6

Prompt

Step	Validation Rule
0	Sample Break Point

Warning Validation - Immediate

Step	Validation Rule
10	if PUBLIC->SA_TYPE \$ 'PS': then (20): else (25).
20	if SAMPLE->SA_BRKPNT = 7.50: then OK: else "7.5 for this Type".
25	if PUBLIC->SA_TYPE \$ 'GMR': then (30): else (40).
30	if SAMPLE->SA_BRKPNT = 4.00: then OK: else "4.0 for this Type".
40	if PUBLIC->SA_TYPE = T: then (50): else (80).
50	if SAMPLE->SA_BRKPNT = 4.00: then OK: else (60).
60	if SAMPLE->SA_BRKPNT > 4.00: then "Tag Limit <= 4.0": else (70).
70	if 1.30 <= SAMPLE->SA_BRKPNT <= 4.00: then OK: else "1.3 <= TagLim <=4.0".
80	if SAMPLE->SA_BRKPNT < 4.00: then "<4cm only for typeC": else OK.

SAMPLE->SA_COLSTMP Database Field #70

Prompt

Step	Validation Rule
0	Always Coll. Stumps

Error Validation - Immediate

Step	Validation Rule
10	if SAMPLE->SA_COLSTMP \$ 'YN': then OK: else "Must be Y or N".

SAMPLE->SA_D13 Database Field #4

Prompt

Step	Validation Rule
0	DBH @1.3m Reqd?

Error Validation - Immediate

Step	Validation Rule
10	if case SAMPLE->SA_D13 \$ N,Y: then OK: else "Must be Y or N".

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SAMPLE->SA_D137 Database Field #5

Prompt

Step	Validation Rule
0	Dia. @1.37m Reqd?

Error Validation - Immediate

Step	Validation Rule
10	if case SAMPLE->SA_D137 \$ N,Y: then (20): else "Must be Y or N".
20.2	. case SAMPLE->SA_D137 = N:- if SAMPLE->SA_D13 = Y: then OK: else "DBH or DIA Must = Y".

SAMPLE->SA_DIA_HT Database Field #7

Prompt

Step	Validation Rule
0	(D)iameter/(H)eight

Error Validation - Immediate

Step	Validation Rule
10	if SAMPLE->SA_DIA_HT \$ 'DH': then (20): else "Must be D or H".
20	if PUBLIC->SA_TYPE \$ 'GMPRS': then (30): else OK.
30	if SAMPLE->SA_DIA_HT = D: then OK: else "Must be D (not H)".

SAMPLE->SA_LN_SWP Database Field #46

Prompt

Step	Validation Rule
0	Lean/Sweep Reqd?

Error Validation - Immediate

Step	Validation Rule
10	if SAMPLE->SA_LN_SWP \$ 'YN': then OK: else "Must be Y or N".

SAMPLE->SA_SPECPRG Database Field #54

Prompt

Step	Validation Rule
0	Special Program Y/N

Error Validation - Immediate

Step	Validation Rule
10	if SAMPLE->SA_SPECPRG \$ ' NY': then OK: else "Must be Y or N".

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SAMPLE->SA_ESTBDAT Database Field #68

Prompt

Step	Validation Rule
0	Establishment Date

Warning Validation - Immediate

Step	Validation Rule
10	if eMPty(SAMPLE->SA_ESTBDAT): then OK: else (20).
20	PUBLIC->N_RESULT_1:= Current Year.
30	if PUBLIC->N_RESULT_1 >= 1925.00: then OK: else "Year too Early".

SAMPLE->SA_SLCTLOG Database Field #14

Prompt

Step	Validation Rule
0	Select. Logged(Y/N)

Error Validation - Immediate

Step	Validation Rule
10	if SAMPLE->SA_SLCTLOG \$ 'YN': then OK: else "Must be Y or N".

SAMPLE->SA_TH_SSEC Database Field #71

Prompt

Step	Validation Rule
0	TopHeight Site Sect

Error Validation - Immediate

```

Step   Validation Rule
  10   if SAMPLE->SA_TH_SSEC $ 'AC':  then OK:  else "Must be 'C' or 'A'".

```

SP_MEAS->SM_DATE Database Field #3

Prompt

```

Step   Validation Rule
  0     SampleDate YYYYMMDD

```

Error Validation - Immediate

```

Step   Validation Rule
  10   if PUBLIC->PREV_SAMPL:  then (20):  else OK.
  20   if SP_MEAS->SM_DATE > PSPMEAS->SM_DATE:  then OK:  else "Not > Prev. Sample".

```

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SP_MEAS->SM_MEAS_NO Database Field #2

Prompt

```

Step   Validation Rule
  0     New Measurement#

```

Error Validation - Immediate

```

Step   Validation Rule
  10   if PUBLIC->PREV_SAMPL:  then (20):  else OK.
  20   PUBLIC->x_RESULT_1:= PSPMEAS->SM_MEAS_NO + 1.00.
  30   if SP_MEAS->SM_MEAS_NO = PUBLIC->N_RESULT_1:  then OK:  else "Meas# Not Prev.+1".

```

Warning Validation - Immediate

```

Step   Validation Rule
  10   if SP_MEAS->SM_MEAS_NO <= 20.00:  then OK:  else "Should be <= 20".

```

SP_MEAS->SM_SIBECMS Database Field #44

Prompt

```

Step   Validation Rule
  0     SIBEC Measurement?

```

Error Validation - Immediate

Step	Validation Rule
10	if SP_MEAS->SM_SIBECMS \$ 'YN': then OK: else "Must be Y or N".

SP_MEAS->SM_STEMMAP Database Field #37

Prompt

Step	Validation Rule
0	Stem Map (Y/N)

Error Validation - Immediate

Step	Validation Rule
10	if SP_MEAS->SM_STEMMAP \$ 'YN': then OK: else "Must be Y or N".

SP_MEAS->SM_SUIT_RM Database Field #38

Prompt

Step	Validation Rule
0	Suit. for Remeasure

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Error Validation - Immediate

Step	Validation Rule
10	if SP_MEAS->SM_SUIT_RM \$ 'YN': then OK: else "Must be Y or N".

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SAMPLE->SA_ACT_HT Database Field #20
Prompt
Step Validation Rule
0 Special Site Index

Error Validation - Immediate
Step Validation Rule

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```

10   if SAMPLE->SA_ACT_HT = 0.00:  then OK:  else (20).
20   if 5.00 <= SAMPLE->SA_ACT_HT <= 50.00:  then OK:  else "0 or Rng 5.0 - 50.0".

```

SAMPLE->SA_SMC Database Field #3

Prompt

```

Step   Validation Rule
0      SMC Type 0,1 or 2

```

Error Validation - Immediate

```

Step   Validation Rule
10     if PUBLIC->SA_TYPE = C:  then (20):  else (30).
20     if SAMPLE->SA_SMC $ '12':  then OK:  else "Must be 1,2 - TypeC".
30     if SAMPLE->SA_SMC = 0:  then OK:  else "Must be 0 -NotTypeC".

```

SP_MEAS->SM_L1_GRND Database Field #6

Prompt

```

Step   Validation Rule
0      Crown Closure Lyr-1

```

Error Validation - Immediate

```

Step   Validation Rule
10     PUBLIC->N_RESULT_1:= MOD(SP_MEAS->SM_L1_GRND, 10.00).
20     if PUBLIC->N_RESULT_1 = 0.00:  then (30):  else "Increments of 10".
30     if 0.00 <= SP_MEAS->SM_L1_GRND <= 100.00:  then OK:  else "Range 0- 100 in 10".

```

Warning Validation - Immediate

```

Step   Validation Rule
10     if PUBLIC->PREV_SAMPL:  then (20):  else OK.
20     if SP_MEAS->SM_L1_GRND >= PSPMEAS->SM_L1_GRND:  then (30):  else "Less Than Prev Smpl".
30     if SP_MEAS->SM_L1_GRND > 0.00:  then (40):  else "Should be > 0".
40     PUBLIC->x_RESULT_1:= PSPMEAS->SM_L1_GRND + 20.00.

```

```

50   if SP_MEAS->SM_L1_GRND <= PUBLIC->N_RESULT_1:  then OK:  else "More than 20%> prev".

```

SP_MEAS->SM_L2_GRND Database Field #9

Prompt

Step	Validation Rule
0	CrownClose Lyr 2orV

Warning Validation - Immediate

Step	Validation Rule
10	if SP_MEAS->SM_STNSTRC \$ '12': then (40): else (30).
30	if SP_MEAS->SM_L2_GRND > 0.00: then (50): else "Should be > 0".
40	if 0.00 <= SP_MEAS->SM_L2_GRND <= 5.00: then (80): else "Should be 0 - 5".
50	PUBLIC->N_RESULT_1:= MOD(SP_MEAS->SM_L2_GRND, 10.00).
60	if PUBLIC->N_RESULT_1 = 0.00: then (70): else "Increments of 10".
70	if SP_MEAS->SM_L2_GRND <= 100.00: then (80): else "Should be <= 100".
80	if PUBLIC->PREV_SAMPL: then (90): else OK.
90	if SP_MEAS->SM_L2_GRND >= PSPMEAS->SM_L2_GRND: then (100): else "Less Than Prev Smpl".
100	if SP_MEAS->SM_STNSTRC \$ '12': then (106): else (120).
106	PUBLIC->x_RESULT_1:= PSPMEAS->SM_L2_GRND + 1.00.
110	if SP_MEAS->SM_L2_GRND <= PUBLIC->N_RESULT_1: then OK: else "More than 1 > prev".
120	PUBLIC->x_RESULT_1:= PSPMEAS->SM_L2_GRND + 20.00.
130	if SP_MEAS->SM_L2_GRND <= PUBLIC->N_RESULT_1: then OK: else "More than 20%> prev".

SP_MEAS->SM_PRI_LYR Database Field #5

Prompt

Step	Validation Rule
0	Primary Layer

Error Validation - Immediate

Step	Validation Rule
10	if SP_MEAS->SM_PRI_LYR \$ '123': then OK: else "Must be 1 or 2".

Warning Validation - Immediate

Step	Validation Rule
10	if SP_MEAS->SM_PRI_LYR \$ '12': then OK: else "Must be 1 or 2".

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SP_MEAS->SM_SPFCTYP Database Field #36

Prompt

Step	Validation Rule
0	Spacing Type S or T

Error Validation - Immediate

Step	Validation Rule
10	if SP_MEAS->SM_SPFCTYP \$ 'ST': then OK: else "SpFact must be S, T".

SP_MEAS->SM_STEM_HA Database Field #22

Prompt

Step	Validation Rule
0	Stems per hectare

Warning Validation - Immediate

Step	Validation Rule
10	if SP_MEAS->SM_L1_GRND = 0.00: then (20): else OK.
20	if SP_MEAS->SM_STEM_HA = 0.00: then "Lyr 1 Also 0": else OK.

SP_MEAS->SM_STNSTRC Database Field #4

Prompt

Step	Validation Rule
0	Stand Structure

Error Validation - Immediate

Step	Validation Rule
10	if SP_MEAS->SM_STNSTRC \$ '123': then OK: else "Stand Str. 1,2,or 3".

Warning Validation - Immediate

Step	Validation Rule
10	if PUBLIC->PREV_SAMPL: then (20): else OK.
20	if SP_MEAS->SM_STNSTRC = PSPMEAS->SM_STNSTRC: then OK: else "Should = Prev. Valu".

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PLOT->PL_AREA Database Field #8

Prompt

Step	Validation Rule
0	Enter Plot Area

Error Validation - Immediate

Step	Validation Rule
10	if PUBLIC->SA_TYPE \$ 'GT': then (20): else (40).
20	if eMPty(SAMPLE->SA_CSAMP): then OK: else (30).
30	if PLOT->PL_RADIUS = 0.00: then (50): else OK.
40	if PUBLIC->SA_TYPE \$ 'MR': then (50): else OK.
50	if 0.01 <= PLOT->PL_AREA <= 0.60: then OK: else "0.01 - 0.6 for MPRC".

PLOT->PL_BA_FCTR Database Field #11

Prompt

Step	Validation Rule
0	Plot BA Factor

Error Validation - Immediate

Step	Validation Rule
10	if PUBLIC->SA_TYPE = S: then (20): else (40).
20	if PLOT->PL_RADIUS = 0.00: then (30): else (40).
30	if 0.50 <= PLOT->PL_BA_FCTR <= 20.00: then OK: else "0.5 - 20 for Type S".
40	if PLOT->PL_BA_FCTR = 0.00: then OK: else "Must be 0".

PLOT->PL_LGTH Database Field #9

Prompt

Step	Validation Rule
0	Plot Length(m)

Warning Validation - Immediate

Step	Validation Rule
10	if PUBLIC->SA_TYPE \$ 'GT': then (20): else (40).
20	if PLOT->PL_RADIUS = 0.00: then (50): else (30).

```

30   if PLOT->PL_LGTH = 0.00: then OK: else "Must be 0".
40   if PUBLIC->SA_TYPE $ 'MRC': then (50): else (30).
50   if PLOT->PL_LGTH > 0.00: then OK: else "Must be > 0;TypeMRC".

```

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PLOT->PL_RADIUS Database Field #7

Prompt

Step	Validation Rule
0	Plot Radius(m)

Error Validation - Immediate

Step	Validation Rule
10	if PUBLIC->SA_TYPE \$ 'GI': then (20): else (30).
20	if 5.00 <= PLOT->PL_RADIUS <= 30.90: then OK: else "Radius 5.0 - 30.9".
30	if PUBLIC->SA_TYPE = T: then (40): else (43).
40	if eMPTY(SAMPLE->SA_CSAMP): then (20): else (46).
43	if PUBLIC->SA_TYPE \$ 'PS': then (46): else (50).
46	if 5.00 <= PLOT->PL_RADIUS <= 30.90: then OK: else (48).
48	if PLOT->PL_RADIUS = 0.00: then OK: else "Radius0 or 5to30.9m".
50	if PLOT->PL_RADIUS = 0.00: then OK: else "Must be 0".

Warning Validation - Immediate

Step	Validation Rule
10	if PUBLIC->SM_MEAS_NO = 0.00: then (20): else OK.
20	if PLOT->PL_RADIUS < 11.28: then "Plt Area < 0.04Ha": else OK.

PLOT->PL_STK_OK Database Field #19

Prompt

Step	Validation Rule
0	CenterStake OK(Y/N)

Error Validation - Immediate

Step	Validation Rule
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```

10   if PLOT->PL_STK_OK $ 'YN': then (20): else "Must be Y or N".
20   if PUBLIC->SM_MEAS_NO = 0.00: then (30): else OK.
30   if PLOT->PL_STK_OK = Y: then OK: else "Must be Y for Meas0".

```

PLOT->PL_TL_BEAR Database Field #32

Prompt

Step	Validation Rule
0	Tieline Bear. to PC

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Error Validation - Immediate

Step	Validation Rule
10	if 0.00 <= PLOT->PL_TL_BEAR <= 360.00: then (20): else "Must be 0 - 360".
20	if PLOT->PL_TL_BEAR = 0.00: then (30): else OK.
30	PLOT->PL_TL_DIST:= 0.00.

PLOT->PL_TL_DIST Database Field #33

Prompt

Step	Validation Rule
0	Tieline Dist. to PC

Error Validation - Immediate

Step	Validation Rule
10	if PLOT->PL_TL_BEAR = 0.00: then (20): else (30).
20	if PLOT->PL_TL_DIST > 0.00: then "Must be 0": else OK.
30	if PLOT->PL_TL_DIST = 0.00: then "Must be > 0": else OK.

PLOT->PL_WIDTH Database Field #10

Prompt

Step	Validation Rule
0	Plot Width

Warning Validation - Immediate

Step	Validation Rule
10	if PUBLIC->SA_TYPE \$ 'CMRT': then (30): else (20).
20	if PLOT->PL_WIDTH = 0.00: then OK: else "Must be 0".
30	PUBLIC->x_RESULT_1:= PLOT->PL_LENGTH * PLOT->PL_WIDTH.
50	PUBLIC->NVAR_CUR:= PUBLIC->N_RESULT_1.
60	PUBLIC->x_RESULT_1:= PLOT->PL_AREA * 100.00.
70	PUBLIC->x_RESULT_1:= PUBLIC->N_RESULT_1 * 100.00.
80	if PUBLIC->NVAR_CUR +/- 1.00 within range of PUBLIC->N_RESULT_1: then OK: else "Area !=Length*Width".

PUBLIC->PL_PLOT_NO Database Field #8

Prompt

Step	Validation Rule
0	Plot Number

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Error Validation - Immediate

Step	Validation Rule
10	if 1.00 <= PUBLIC->PL_PLOT_NO <= 10.00: then OK: else "Range 1 - 10".

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PUBLIC->LDEL_TREE Database Field #35

Prompt

Step	Validation Rule
0	Delete Tree?

Warning Validation - Immediate

Step	Validation Rule
10	No OPERATION.

PUBLIC->TR_TREE_NO Database Field #11

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Prompt

Step	Validation Rule
0	Tree Number

Error Validation - Immediate

Step	Validation Rule
10	if PUBLIC->TR_TREE_NO > 0.00: then OK: else "Must be > 0".

TR_MEAS->TM_CLASS Database Field #15

Prompt

Step	Validation Rule
0	Tree Class

Error Validation - Immediate

Step	Validation Rule
1	if TR_MEAS->TM_CLASS = 0.00: then (2): else (10).
2	if PUBLIC->SM_MEAS_NO = 0.00: then (3): else (6).
3	if SAMPLE->SA_SLCTLOG = Y: then (4): else (6).
4	if TR_MEAS->TM_DBH1_3 = 0.00: then (5): else (10).
5	if TR_MEAS->TM_DIA1_37 = 0.00: then OK: else (10).
6	if SAMPLE->SA_COLSTMP = Y: then (4): else (10).
10	if 1.00 <= TR_MEAS->TM_CLASS <= 6.00: then (13): else "Tree Class 1 - 6".
13	if TR_MEAS->TM_CLASS = 6.00: then (17): else (20).
17	if PUBLIC->PREV_MEAS: then (20): else "TC 6 invalid @Estab".
20	if PUBLIC->SA_TYPE = M: then (30): else OK.
30	if TR_MEAS->TM_CLASS != 5.00: then OK: else "Invalid for M Sampl".
40	if TR_MEAS->TM_CLASS \$ '346': then (50): else OK.
50	if TR_MEAS->TM_CROWN = 0.00: then (60): else "CrwnClss must be 0".

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60	if TR_MEAS->TM_LC_LEN = 0.00: then OK: else "LC% must be 0".
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Warning Validation - Immediate

Step	Validation Rule
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```

10   if PUBLIC->PREV_MEAS: then (20): else (100).
20   if case PREV->TM_CLASS $ 1,2,3,4,5,6: then (30): else "Tree Class 1 - 6".
30.1 . case PREV->TM_CLASS = 1:- if TR_MEAS->TM_CLASS $ '12346': then OK: else "Val. T.C.
    1234or6".
30.2 . case PREV->TM_CLASS = 2:- if TR_MEAS->TM_CLASS $ '2346': then OK: else "Val. T.C. 234 or
    6".
30.3 . case PREV->TM_CLASS = 3:- if TR_MEAS->TM_CLASS $ '346': then OK: else "TC 3/4 to 1/2/5".
30.4 . case PREV->TM_CLASS = 4:- if TR_MEAS->TM_CLASS $ '46': then OK: else (50).
30.5 . case PREV->TM_CLASS = 5:- if 3.00 <= TR_MEAS->TM_CLASS <= 6.00: then OK: else "Val. T.C.
    345 or 6".
30.6 . case PREV->TM_CLASS = 6:- if TR_MEAS->TM_CLASS = 0.00: then OK: else "Val. T.C. 0".
50   if TR_MEAS->TM_CLASS $ '125': then "TC 3/4 to 1/2/5": else "TC 4 to 3".
100  if TR_MEAS->TM_CLASS $ '34': then (110): else OK.
110  if SAMPLE->SA_D13 = Y: then (120): else (130).
120  if TR_MEAS->TM_DBH1_3 < 10.00: then "Dead Tree < 10cm": else OK.
130  if SAMPLE->SA_D137 = Y: then (140): else OK.
140  if TR_MEAS->TM_DIA1_37 < 10.00: then "Dead Tree < 10cm": else OK.

```

```

TR_MEAS->TM_CROWN      Database Field #12
Prompt
Step    Validation Rule
0       Crown Class

```

Error Validation - Immediate

```

Step    Validation Rule
10     if 0.00 <= TR_MEAS->TM_CROWN <= 6.00: then OK: else "Crown Class 0 - 6".

```

Error Validation - Deffered

```

Step    Validation Rule
10     if TR_MEAS->TM_CLASS = 5.00: then (15): else (20).
15     if TR_MEAS->TM_CROWN = 5.00: then (25): else "TClass of 5 C.C=5".
20     if TR_MEAS->TM_CROWN = 5.00: then "5 Only for TC of 5": else (25).
25     if PUBLIC->SA_TYPE $ 'GIMRST': then (30): else OK.
30     if TR_MEAS->TM_CLASS $ '125': then (40): else OK.

```


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40 if TR_MEAS->TM_CROWN != 0.00: then OK: else "CC 1 - 6 for TC".

Warning Validation - Immediate

Step Validation Rule

10 if PUBLIC->PREV_MEAS: then (15): else OK.
 15 if TR_MEAS->TM_CROWN = 0.00: then OK: else (20).
 20 if case PREV->TM_CROWN \$ 0,1,2,3,4,5,6: then (20): else "Inv Prev Crown Clas".
 20.1 . case PREV->TM_CROWN = 1:- if TR_MEAS->TM_CROWN \$ '12': then OK: else "Prev=1, new 1 or 2".
 20.2 . case PREV->TM_CROWN = 2:- if TR_MEAS->TM_CROWN \$ '123': then OK: else "Prev=2, new 12or3".
 20.3 . case PREV->TM_CROWN = 3:- if TR_MEAS->TM_CROWN \$ '234': then OK: else "Prev=3, New=23or4".
 20.4 . case PREV->TM_CROWN = 4:- if TR_MEAS->TM_CROWN \$ '34': then OK: else "Prev=4, New=3or4".
 20.5 . case PREV->TM_CROWN = 5:- if TR_MEAS->TM_CROWN = 5.00: then OK: else "Prev=5, New=5".
 20.6 . case PREV->TM_CROWN = 6:- if TR_MEAS->TM_CROWN = 6.00: then OK: else "Prev=6, New=6".

TR_MEAS->TM_DBH1_3 Database Field #9

Prompt

Step Validation Rule
 0 DBH @ 1.3m

Error Validation - Immediate

Step Validation Rule

10 if PUBLIC->SA_TYPE = M: then (20): else (40).
 20 if TR_MEAS->TM_DBH1_3 = 0.00: then (50): else (30).
 30 if TR_MEAS->TM_DBH1_3 >= 4.00: then OK: else "<TagLim, Adj TagLim".
 40 if TR_MEAS->TM_DBH1_3 < 4.00: then (50): else OK.
 50 if PLOT->PL_SUB_RAD > 0.00: then OK: else (60).
 60 if PLOT->PL_SUBAREA > 0.00: then OK: else "No SubPlot Spec'd".

Warning Validation - Immediate

Step Validation Rule

10 if 2.00 <= TR_MEAS->TM_DBH1_3 <= 125.00: then (20): else "DIA Range 2 - 125cm".
 20 if PUBLIC->PREV_MEAS: then OK: else (30).
 30 if PUBLIC->SM_MEAS_NO > 0.00: then (40): else OK.
 40 if PUBLIC->SA_TYPE = I: then (60): else (50).
 50 if TR_MEAS->TM_DBH1_3 <= 15.00: then OK: else "Ingrowth > 15cm".
 60 if TR_MEAS->TM_DBH1_3 <= 8.00: then OK: else "Ingrowth > 8cm".

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Warning Validation - Deferred

```

Step   Validation Rule
10     if PUBLIC->SA_TYPE = M: then (30): else (20).
20     if SAMPLE->SA_D13 = Y: then (70): else (45).
30     if SAMPLE->SA_D13 = Y: then (35): else OK.
35     if TR_MEAS->TM_CLASS $ '12': then (70): else (40).
40     if TR_MEAS->TM_CLASS $ '346': then (45): else OK.
45     if PREV->TM_DBH1_3 = 0.00: then OK: else (70).
70     if PUBLIC->PREV_MEAS: then (75): else OK.
75     PUBLIC->x_RESULT_1:= TR_MEAS->TM_DBH1_3 - PREV->TM_DBH1_3.
80     if case PUBLIC->SA_TYPE $ G,I,M,P,R,S,T: then (80): else "Type GIMPRS or T".
80.1   . case PUBLIC->SA_TYPE = G:- if case TR_MEAS->TM_CLASS $ 1,2,3,4,5,6: then (90): else "Tree
Class 1 - 6".
80.2   . case PUBLIC->SA_TYPE = I:- if case TR_MEAS->TM_CLASS $ 1,2,3,4,5,6: then (150): else "Tree
Class 1 - 6".
80.3   . case PUBLIC->SA_TYPE = M:- if case TR_MEAS->TM_CLASS $ 1,2,3,4,5,6: then (130): else "Tree
Class 1 - 6".
80.4   . case PUBLIC->SA_TYPE = P:- then OK.
80.5   . case PUBLIC->SA_TYPE = R:- if case TR_MEAS->TM_CLASS $ 1,2,3,4,5,6: then (90): else "Tree
Class 1 - 6".
80.6   . case PUBLIC->SA_TYPE = S:- then OK.
80.7   . case PUBLIC->SA_TYPE = T:- if case TR_MEAS->TM_CLASS $ 1,2,3,4,5,6: then (90): else "Tree
Class 1 - 6".
90.1   . . case PUBLIC->SA_TYPE = G:- , case TR_MEAS->TM_CLASS = 1:- if TR_MEAS->TM_CROWN <= 2.00:
then (100): else (110).
90.2   . . case PUBLIC->SA_TYPE = G:- , case TR_MEAS->TM_CLASS = 2:- if TR_MEAS->TM_CROWN <= 2.00:
then (100): else (110).
90.3   . . case PUBLIC->SA_TYPE = G:- , case TR_MEAS->TM_CLASS = 3:- if -0.40 <= PUBLIC->N_RESULT_1 <=
8.00: then OK: else "Grwth Rng -.4 - 8.0".
90.4   . . case PUBLIC->SA_TYPE = G:- , case TR_MEAS->TM_CLASS = 4:- if -0.40 <= PUBLIC->N_RESULT_1 <=
8.00: then OK: else "Grwth Rng -.4 - 8.0".
90.5   . . case PUBLIC->SA_TYPE = G:- , case TR_MEAS->TM_CLASS = 5:- if TR_MEAS->TM_CROWN <= 2.00:
then OK: else (110).
90.6   . . case PUBLIC->SA_TYPE = G:- , case TR_MEAS->TM_CLASS = 6:- if -0.40 <= PUBLIC->N_RESULT_1 <=
8.00: then OK: else "Grwth Rng -.4 - 8.0".
100    if 0.10 <= PUBLIC->N_RESULT_1 <= 8.00: then OK: else "Grwth Rng .1 - 8.0".

```

110 if -0.10 <= PUBLIC->N_RESULT_1 <= 4.00: then OK: else "Grwth Rng -.1 - 4.0".

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```

130.1 . . case PUBLIC->SA_TYPE = M:- , case TR_MEAS->TM_CLASS = 1:- if case TR_MEAS->TM_CROWN $
0,1,2,3,4,5,6: then (140): else "Crown Class 0 - 6".
130.2 . . case PUBLIC->SA_TYPE = M:- , case TR_MEAS->TM_CLASS = 2:- if case TR_MEAS->TM_CROWN $
0,1,2,3,4,5,6: then (140): else "Crown Class 0 - 6".
130.3 . . case PUBLIC->SA_TYPE = M:- , case TR_MEAS->TM_CLASS = 3:- if -0.20 <= PUBLIC->N_RESULT_1 <=
2.50: then OK: else "Grwth Rng -.2 - 2.5".
130.4 . . case PUBLIC->SA_TYPE = M:- , case TR_MEAS->TM_CLASS = 4:- if -0.20 <= PUBLIC->N_RESULT_1 <=
2.50: then OK: else "Grwth Rng -.2 - 2.5".
130.6 . . case PUBLIC->SA_TYPE = M:- , case TR_MEAS->TM_CLASS = 6:- if TR_MEAS->TM_DBH1_3 = TR_MEAS-
>TM_DBH1_3: then "Inv. TC for Type'M'": else OK.
140 if 0.50 <= PUBLIC->N_RESULT_1 <= 5.00: then OK: else "Grwth Rng 0.5 - 5.0".
140.1 . . . case PUBLIC->SA_TYPE = M:- , case TR_MEAS->TM_CLASS = 1:- , case TR_MEAS->TM_CROWN = 1:-
if 0.50 <= PUBLIC->N_RESULT_1 <= 5.00: then OK: else "Grwth Rng 0.5 - 5.0".
140.2 . . . case PUBLIC->SA_TYPE = M:- , case TR_MEAS->TM_CLASS = 1:- , case TR_MEAS->TM_CROWN = 2:-
if 0.50 <= PUBLIC->N_RESULT_1 <= 5.00: then OK: else "Grwth Rng 0.5 - 5.0".
140.3 . . . case PUBLIC->SA_TYPE = M:- , case TR_MEAS->TM_CLASS = 1:- , case TR_MEAS->TM_CROWN = 3:-
if 0.00 <= PUBLIC->N_RESULT_1 <= 2.50: then OK: else "Grwth Rng 0 - 2.5cm".
140.4 . . . case PUBLIC->SA_TYPE = M:- , case TR_MEAS->TM_CLASS = 1:- , case TR_MEAS->TM_CROWN = 4:-
if 0.00 <= PUBLIC->N_RESULT_1 <= 2.50: then OK: else "Grwth Rng 0 - 2.5cm".
140.5 . . . case PUBLIC->SA_TYPE = M:- , case TR_MEAS->TM_CLASS = 1:- , case TR_MEAS->TM_CROWN = 5:-
if TR_MEAS->TM_DBH1_3 = TR_MEAS->TM_DBH1_3: then "Inv. CC for Type'M'": else OK.
140.6 . . . case PUBLIC->SA_TYPE = M:- , case TR_MEAS->TM_CLASS = 1:- , case TR_MEAS->TM_CROWN = 6:-
if TR_MEAS->TM_DBH1_3 = TR_MEAS->TM_DBH1_3: then "Inv. CC for Type'M'": else OK.
150.1 . . case PUBLIC->SA_TYPE = I:- , case TR_MEAS->TM_CLASS = 1:- if TR_MEAS->TM_CROWN <= 2.00:
then (160): else (170).
150.2 . . case PUBLIC->SA_TYPE = I:- , case TR_MEAS->TM_CLASS = 2:- if TR_MEAS->TM_CROWN <= 2.00:
then (160): else (170).
150.3 . . case PUBLIC->SA_TYPE = I:- , case TR_MEAS->TM_CLASS = 3:- if -0.40 <= PUBLIC->N_RESULT_1 <=
7.00: then OK: else "Grwth Rng -.4 - 7.0".

```

```

150.4 . . case PUBLIC->SA_TYPE = I:- , case TR_MEAS->TM_CLASS = 4:- if -0.40 <= PUBLIC->N_RESULT_1 <=
7.00: then OK: else "Grwth Rng -.4 - 7.0".
150.5 . . case PUBLIC->SA_TYPE = I:- , case TR_MEAS->TM_CLASS = 5:- if TR_MEAS->TM_CROWN <= 2.00:
then OK: else (180).
150.6 . . case PUBLIC->SA_TYPE = I:- , case TR_MEAS->TM_CLASS = 6:- if -0.40 <= PUBLIC->N_RESULT_1 <=
7.00: then OK: else "Grwth Rng -.4 - 7.0".
160 if 0.30 <= PUBLIC->N_RESULT_1 <= 7.00: then OK: else "Grwth Rng .3 - 7.0".
170 if 0.00 <= PUBLIC->N_RESULT_1 <= 5.00: then OK: else "Grwth Rng 0 - 5.0".
180 if 0.00 <= PUBLIC->N_RESULT_1 <= 5.00: then OK: else "Grwth Rng 0 - 5.0".

```

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TR_MEAS->TM_DIAL_37 Database Field #10

Prompt

Step	Validation Rule
0	Dia. @1.37meters

Error Validation - Immediate

Step	Validation Rule
10	if PUBLIC->SA_TYPE = M: then (15): else (20).
15	if TR_MEAS->TM_DIAL_37 < 4.00: then (20): else "<TagLim, Adj TagLim".
20	if TR_MEAS->TM_DIAL_37 = 0.00: then (40): else (25).
25	if TR_MEAS->TM_DIAL_37 >= 2.00: then (40): else "Must be 0 or >=2cm".
40	if TR_MEAS->TM_DIAL_37 < 4.00: then (50): else OK.
50	if PLOT->PL_SUB_RAD > 0.00: then OK: else (60).
60	if PLOT->PL_SUBAREA > 0.00: then OK: else "No SubPlot Spec'd".

Warning Validation - Immediate

Step	Validation Rule
10	if 2.00 <= TR_MEAS->TM_DIAL_37 <= 125.00: then (20): else "DIA Range 2 - 125cm".
20	if PUBLIC->PREV_MEAS: then OK: else (30).
30	if PUBLIC->SM_MEAS_NO > 0.00: then (40): else OK.
40	if PUBLIC->SA_TYPE = I: then (60): else (50).
50	if TR_MEAS->TM_DIAL_37 <= 15.00: then OK: else "Ingrowth > 15cm".

60 if TR_MEAS->TM_DIA1_37 <= 8.00: then OK: else "Ingrowth > 8cm".

Warning Validation - Deferred

```

Step   Validation Rule
10    if TR_MEAS->TM_DIA1_37 <= TR_MEAS->TM_DBH1_3: then (20): else "Should be <= DBH1_3".
20    if PUBLIC->SA_TYPE = M: then (30): else (25).
25    if SAMPLE->SA_D137 = Y: then (70): else (45).
30    if SAMPLE->SA_D137 = Y: then (35): else OK.
35    if TR_MEAS->TM_CLASS $ '12': then (70): else (40).
40    if TR_MEAS->TM_CLASS $ '346': then (45): else OK.
45    if PREV->TM_DIA1_37 = 0.00: then OK: else (70).
70    if PUBLIC->PREV_MEAS: then (75): else OK.
75    PUBLIC->x_RESULT_1:= TR_MEAS->TM_DIA1_37 - PREV->TM_DIA1_37.
80    if case PUBLIC->SA_TYPE $ G,I,M,P,R,S,T: then (80): else "Type GIMPRS or T".
80.1  . case PUBLIC->SA_TYPE = G:- if case TR_MEAS->TM_CLASS $ 1,2,3,4,5,6: then (90): else "Tree
      Class 1 - 6".

```

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80.2  . case PUBLIC->SA_TYPE = I:- if case TR_MEAS->TM_CLASS $ 1,2,3,4,5,6: then (150): else "Tree
      Class 1 - 6".
80.3  . case PUBLIC->SA_TYPE = M:- if case TR_MEAS->TM_CLASS $ 1,2,3,4,5,6: then (130): else "Tree
      Class 1 - 6".
80.4  . case PUBLIC->SA_TYPE = P:- then OK.
80.5  . case PUBLIC->SA_TYPE = R:- if case TR_MEAS->TM_CLASS $ 1,2,3,4,5,6: then (90): else "Tree
      Class 1 - 6".
80.6  . case PUBLIC->SA_TYPE = S:- then OK.
80.7  . case PUBLIC->SA_TYPE = T:- if case TR_MEAS->TM_CLASS $ 1,2,3,4,5,6: then (90): else "Tree
      Class 1 - 6".
90.1  . . case PUBLIC->SA_TYPE = G:- , case TR_MEAS->TM_CLASS = 1:- if TR_MEAS->TM_CROWN <= 2.00:
      then (100): else (110).
90.2  . . case PUBLIC->SA_TYPE = G:- , case TR_MEAS->TM_CLASS = 2:- if TR_MEAS->TM_CROWN <= 2.00:
      then (100): else (110).
90.3  . . case PUBLIC->SA_TYPE = G:- , case TR_MEAS->TM_CLASS = 3:- if -0.40 <= PUBLIC->N_RESULT_1 <=
      8.00: then OK: else "Grwth Rng -.4 - 8.0".
90.4  . . case PUBLIC->SA_TYPE = G:- , case TR_MEAS->TM_CLASS = 4:- if -0.40 <= PUBLIC->N_RESULT_1 <=

```

```

8.00: then OK: else "Grwth Rng -.4 - 8.0".
90.5 . . case PUBLIC->SA_TYPE = G:- , case TR_MEAS->TM_CLASS = 5:- if TR_MEAS->TM_CROWN <= 2.00:
then OK: else (110).
90.6 . . case PUBLIC->SA_TYPE = G:- , case TR_MEAS->TM_CLASS = 6:- if -0.40 <= PUBLIC->N_RESULT_1 <=
8.00: then OK: else "Grwth Rng -.4 - 8.0".
100 if 0.10 <= PUBLIC->N_RESULT_1 <= 8.00: then OK: else "Grwth Rng .1 - 8.0".
110 if -0.10 <= PUBLIC->N_RESULT_1 <= 4.00: then OK: else "Grwth Rng -.1 - 4.0".
130.1 . . case PUBLIC->SA_TYPE = M:- , case TR_MEAS->TM_CLASS = 1:- if case TR_MEAS->TM_CROWN $
0,1,2,3,4,5,6: then (140): else "Crown Class 0 - 6".
130.2 . . case PUBLIC->SA_TYPE = M:- , case TR_MEAS->TM_CLASS = 2:- if case TR_MEAS->TM_CROWN $
0,1,2,3,4,5,6: then (140): else "Crown Class 0 - 6".
130.3 . . case PUBLIC->SA_TYPE = M:- , case TR_MEAS->TM_CLASS = 3:- if -0.20 <= PUBLIC->N_RESULT_1 <=
2.50: then OK: else "Grwth Rng -.2 - 2.5".
130.4 . . case PUBLIC->SA_TYPE = M:- , case TR_MEAS->TM_CLASS = 4:- if -0.20 <= PUBLIC->N_RESULT_1 <=
2.50: then OK: else "Grwth Rng -.2 - 2.5".
130.6 . . case PUBLIC->SA_TYPE = M:- , case TR_MEAS->TM_CLASS = 6:- if TR_MEAS->TM_DIAL_37 = TR_MEAS-
>TM_DIAL_37: then "Inv. TC for Type'M'": else OK.
140 if 0.50 <= PUBLIC->N_RESULT_1 <= 5.00: then OK: else "Grwth Rng 0.5 - 5.0".
140.1 . . . case PUBLIC->SA_TYPE = M:- , case TR_MEAS->TM_CLASS = 1:- , case TR_MEAS->TM_CROWN = 1:-
if 0.50 <= PUBLIC->N_RESULT_1 <= 5.00: then OK: else "Grwth Rng 0.5 - 5.0".

```

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140.2 . . . case PUBLIC->SA_TYPE = M:- , case TR_MEAS->TM_CLASS = 1:- , case TR_MEAS->TM_CROWN = 2:-
if 0.50 <= PUBLIC->N_RESULT_1 <= 5.00: then OK: else "Grwth Rng 0.5 - 5.0".
140.3 . . . case PUBLIC->SA_TYPE = M:- , case TR_MEAS->TM_CLASS = 1:- , case TR_MEAS->TM_CROWN = 3:-
if 0.00 <= PUBLIC->N_RESULT_1 <= 2.50: then OK: else "Grwth Rng 0 - 2.5cm".
140.4 . . . case PUBLIC->SA_TYPE = M:- , case TR_MEAS->TM_CLASS = 1:- , case TR_MEAS->TM_CROWN = 4:-
if 0.00 <= PUBLIC->N_RESULT_1 <= 2.50: then OK: else "Grwth Rng 0 - 2.5cm".
140.5 . . . case PUBLIC->SA_TYPE = M:- , case TR_MEAS->TM_CLASS = 1:- , case TR_MEAS->TM_CROWN = 5:-
if TR_MEAS->TM_DIAL_37 = TR_MEAS->TM_DIAL_37: then "Inv. CC for Type'M'": else OK.
140.6 . . . case PUBLIC->SA_TYPE = M:- , case TR_MEAS->TM_CLASS = 1:- , case TR_MEAS->TM_CROWN = 6:-
if TR_MEAS->TM_DIAL_37 = TR_MEAS->TM_DIAL_37: then "Inv. CC for Type'M'": else OK.

```

```

150.1 . . case PUBLIC->SA_TYPE = I:- , case TR_MEAS->TM_CLASS = 1:- if TR_MEAS->TM_CROWN <= 2.00:
then (160): else (170).
150.2 . . case PUBLIC->SA_TYPE = I:- , case TR_MEAS->TM_CLASS = 2:- if TR_MEAS->TM_CROWN <= 2.00:
then (160): else (170).
150.3 . . case PUBLIC->SA_TYPE = I:- , case TR_MEAS->TM_CLASS = 3:- if -0.40 <= PUBLIC->N_RESULT_1 <=
7.00: then OK: else "Grwth Rng -.4 - 7.0".
150.4 . . case PUBLIC->SA_TYPE = I:- , case TR_MEAS->TM_CLASS = 4:- if -0.40 <= PUBLIC->N_RESULT_1 <=
7.00: then OK: else "Grwth Rng -.4 - 7.0".
150.5 . . case PUBLIC->SA_TYPE = I:- , case TR_MEAS->TM_CLASS = 5:- if TR_MEAS->TM_CROWN <= 2.00:
then OK: else (180).
150.6 . . case PUBLIC->SA_TYPE = I:- , case TR_MEAS->TM_CLASS = 6:- if -0.40 <= PUBLIC->N_RESULT_1 <=
7.00: then OK: else "Grwth Rng -.4 - 7.0".
160 if 0.30 <= PUBLIC->N_RESULT_1 <= 7.00: then OK: else "Grwth Rng .3 - 7.0".
170 if 0.00 <= PUBLIC->N_RESULT_1 <= 5.00: then OK: else "Grwth Rng 0 - 5.0".
180 if 0.00 <= PUBLIC->N_RESULT_1 <= 5.00: then OK: else "Grwth Rng 0 - 5.0".

```

TR_MEAS->TM_HEIGHT Database Field #11

Prompt

Step	Validation Rule
0	Est.Vet-Meas Sml Tr

Error Validation - Immediate

Step	Validation Rule
10	if TR_MEAS->TM_CLASS = 5.00: then (20): else (30).
20	if TR_MEAS->TM_HEIGHT > 10.00: then (30): else "Class 5: Ht > 10m".
30	if TR_MEAS->TM_HEIGHT = 0.00: then (40): else OK.
40	if TR_MEAS->TM_DBH1_3 = 0.00: then (50): else OK.
50	if TR_MEAS->TM_DIA1_37 = 0.00: then "Both Dia's also 0": else OK.

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Warning Validation - Immediate

Step	Validation Rule
10	if TR_MEAS->TM_DBH1_3 = 0.00: then (20): else (30).
20	if TR_MEAS->TM_HEIGHT <= 4.00: then (33): else "Hght. must be <=4m".

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```
30  if TR_MEAS->TM_HEIGHT <= 60.00:  then (33):  else "Hght. must be <=60m".
33  if PUBLIC->SA_TYPE = S:  then (36):  else (40).
36  if TR_MEAS->TMSHEIGHT = 0.00:  then (38):  else (100).
38  if TR_MEAS->TM_HEIGHT = 0.00:  then "Should have Height":  else (100).
40  if PUBLIC->SA_TYPE = M:  then (50):  else (100).
45  if PUBLIC->PREV_MEAS:  then (50):  else OK.
50  PUBLIC->x_RESULT_1:= TR_MEAS->TM_HEIGHT - PREV->TM_HEIGHT.
60  if case TR_MEAS->TM_CROWN $ 0,1,2,3,4,5,6:  then (70):  else "Crown Class 0 - 6".
70.1 . case TR_MEAS->TM_CROWN = 1:- if 1.00 <= PUBLIC->N_RESULT_1 <= 4.00:  then OK:  else "Grwth
    Rng 1.0-4.0m".
70.2 . case TR_MEAS->TM_CROWN = 2:- if 1.00 <= PUBLIC->N_RESULT_1 <= 4.50:  then OK:  else "Grwth
    Rng 1.0-4.0m".
70.3 . case TR_MEAS->TM_CROWN = 3:- if 0.00 <= PUBLIC->N_RESULT_1 <= 2.50:  then OK:  else "Grwth
    Rng 0.0-2.5m".
70.4 . case TR_MEAS->TM_CROWN = 4:- if 0.00 <= PUBLIC->N_RESULT_1 <= 4.00:  then OK:  else "Grwth
    Rng 0.0-2.5m".
70.5 . case TR_MEAS->TM_CROWN = 5:- if TR_MEAS->TM_HEIGHT = TR_MEAS->TM_HEIGHT:  then "Inv. CC for
    Type'M'":  else OK.
70.6 . case TR_MEAS->TM_CROWN = 6:- if TR_MEAS->TM_HEIGHT = TR_MEAS->TM_HEIGHT:  then "Inv. CC for
    Type'M'":  else OK.
70.9 . case TR_MEAS->TM_CROWN = 0:- if TR_MEAS->TM_HEIGHT = TR_MEAS->TM_HEIGHT:  then "Inv. CC for
    Type'M'":  else OK.
100 if PUBLIC->PREV_MEAS:  then (110):  else OK.
110 PUBLIC->x_RESULT_1:= TR_MEAS->TM_HEIGHT - PREV->TM_HEIGHT.
130 if TR_MEAS->TM_HEIGHT = 0.00:  then (131):  else (135).
131 if PUBLIC->SA_TYPE = S:  then (133):  else OK.
133 if TR_MEAS->TM_HEIGHT = 0.00:  then "Should have Height":  else OK.
135 if TR_MEAS->TM_DBH1_3 = 0.00:  then (140):  else (160).
140 if TR_MEAS->TM_DIA1_37 = 0.00:  then (150):  else (160).
150 if 0.30 <= TR_MEAS->TM_HEIGHT <= 4.00:  then OK:  else "Ht/Dia Incompatible".
160 if TR_MEAS->TM_DBH1_3 = 0.00:  then (190):  else (170).
170 PUBLIC->x_RESULT_1:= TR_MEAS->TM_HEIGHT / TR_MEAS->TM_DBH1_3.
180 PUBLIC->NVAR_PRV:= PUBLIC->N_RESULT_1.
190 if TR_MEAS->TM_DIA1_37 = 0.00:  then (220):  else (200).
```


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```

200 PUBLIC->x_RESULT_1:= TR_MEAS->TM_HEIGHT / TR_MEAS->TM_DIA1_37.
210 PUBLIC->NVAR_CUR:= PUBLIC->N_RESULT_1.
220 if 2.00 <= TR_MEAS->TM_DBH1_3 <= 20.00: then (230): else (240).
230 if 0.40 <= PUBLIC->NVAR_PRV <= 1.75: then OK: else "Check Ht/Dia Relatn".
240 if 2.00 <= TR_MEAS->TM_DIA1_37 <= 20.00: then (250): else (260).
250 if 0.40 <= PUBLIC->NVAR_CUR <= 1.75: then OK: else "Check Ht/Dia Relatn".
260 if 20.01 <= TR_MEAS->TM_DBH1_3 <= 40.00: then (270): else (280).
270 if 0.40 <= PUBLIC->NVAR_PRV <= 1.25: then OK: else "Check Ht/Dia Relatn".
280 if 20.01 <= TR_MEAS->TM_DIA1_37 <= 40.00: then (300): else (310).
300 if 0.40 <= PUBLIC->NVAR_CUR <= 1.25: then OK: else "Check Ht/Dia Relatn".
310 if 40.01 <= TR_MEAS->TM_DBH1_3 <= 60.00: then (320): else (330).
320 if 0.40 <= PUBLIC->NVAR_PRV <= 1.00: then OK: else "Check Ht/Dia Relatn".
330 if 40.01 <= TR_MEAS->TM_DIA1_37 <= 60.00: then (340): else (350).
340 if 0.40 <= PUBLIC->NVAR_CUR <= 1.00: then OK: else "Check Ht/Dia Relatn".
350 if 60.01 <= TR_MEAS->TM_DBH1_3 <= 100.00: then (360): else (370).
360 if 0.30 <= PUBLIC->NVAR_PRV <= 0.75: then OK: else "Check Ht/Dia Relatn".
370 if 60.01 <= TR_MEAS->TM_DIA1_37 <= 100.00: then (380): else (390).
380 if 0.30 <= PUBLIC->NVAR_CUR <= 0.75: then OK: else "Check Ht/Dia Relatn".
390 if TR_MEAS->TM_DBH1_3 > 100.00: then (400): else (410).
400 if 0.30 <= PUBLIC->NVAR_PRV <= 0.50: then OK: else "Check Ht/Dia Relatn".
410 if TR_MEAS->TM_DIA1_37 > 100.00: then (420): else "Ht/Dia Incompatible".
420 if 0.30 <= PUBLIC->NVAR_CUR <= 0.50: then OK: else "Check Ht/Dia Relatn".

```

TR_MEAS->TM_LAYER Database Field #13

Prompt

Step	Validation Rule
0	Layer

Error Validation - Immediate

Step	Validation Rule
10	if TR_MEAS->TM_LAYER \$ ' 12V': then (20): else "Layer=Blank,1,2orV".
20	if SP_MEAS->SM_STNSTRC = 3: then (30): else OK.
30	if TR_MEAS->TM_LAYER \$ '12': then OK: else "Layer must = 1 or 2".

TR_MEAS->TM_LC_LEN Database Field #14

Prompt

Step	Validation Rule
0	Live Crown% in 10's

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Error Validation - Immediate

Step	Validation Rule
10	if 0.00 <= TR_MEAS->TM_LC_LEN <= 10.00: then OK: else "Range 0 - 10".

Error Validation - Deffered

Step	Validation Rule
20	if PUBLIC->SA_TYPE \$ 'GIMRT': then (30): else OK.
30	if TR_MEAS->TM_CLASS \$ '125': then (40): else OK.
40	if TR_MEAS->TM_LC_LEN > 0.00: then OK: else "LC% must be 1 - 10".

Warning Validation - Immediate

Step	Validation Rule
10	if PUBLIC->PREV_MEAS: then (20): else OK.
20	if PREV->TM_LC_LEN != 0.00: then (25): else OK.
25	if TR_MEAS->TM_LC_LEN = 0.00: then OK: else (30).
30	PUBLIC->N_RESULT_1:= PREV->TM_LC_LEN.
40	if TR_MEAS->TM_LC_LEN +/- 2.00 within range of PUBLIC->N_RESULT_1: then OK: else "Lv Crwn% OutOfRange".

TR_MEAS->TM_MISSED Database Field #6

Prompt

Step	Validation Rule
0	M'sd, Drop'd, Falln

Error Validation - Immediate

Step	Validation Rule
10	if TR_MEAS->TM_MISSED \$ ' MDF': then OK: else "Mustbe M,D,F or < >".

Warning Validation - Immediate

Step	Validation Rule
10	if TR_MEAS->TM_MISSED = M: then (20): else (30).
20	if PUBLIC->PREV_MEAS: then "Previously Measured": else OK.
30	if TR_MEAS->TM_MISSED \$ 'DF': then (40): else OK.
40	if PUBLIC->PREV_MEAS: then OK: else "Not Prev. Measured".

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TR_MEAS->TR_SECCNTR Database Field #125

Prompt

Step	Validation Rule
0	Company Sample No.

TREE->TR_NEAR Database Field #5

Prompt

Step	Validation Rule
0	Near Tree Number

Error Validation - Immediate

Step	Validation Rule
10	if PUBLIC->STUMP: then (30): else (20).
20	if PUBLIC->PREV_SAMPL: then (25): else (27).
25	if PUBLIC->PREV_MEAS: then (27): else (30).
27	if TR_MEAS->TM_CLASS \$ '34': then (30): else (35).
30	if TREE->TR_NEAR > 0.00: then OK: else "Must be > 0".
35	if TREE->TR_NEAR >= 0.00: then OK: else "Must be >= 0".

TREE->TR_SECCNTR Database Field #32

Prompt

Step	Validation Rule
10	Center Sct Tree ?_

Error Validation - Immediate

Step	Validation Rule
10	if TREE->TR_SECCNTR \$ ' C': then OK: else "Must be C or<blank>".

TREE->TR_SECSITE Database Field #29

Prompt

Step	Validation Rule
------	-----------------

0 Site Sector

Error Validation - Immediate

```

Step    Validation Rule
10     if 0.00 <= TREE->TR_SECSITE <= 40.00: then (20): else "Must be 0 - 16".
20     if PUBLIC->SA_TYPE = M: then (30): else OK.
30     if TREE->TR_SECSITE < 10.00: then OK: else "Must be 1 - 9".

```

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Warning Validation - Immediate

```

Step    Validation Rule
10     if PUBLIC->PREV_MEAS: then (20): else OK.
20     if PREV->TR_SECSITE != 0.00: then (30): else OK.
30     if TREE->TR_SECSITE = PREV->TR_SECSITE: then OK: else "Sector# has Changed".

```

TREE->TR_SECTOR Database Field #4

Prompt

```

Step    Validation Rule
0       Tagging Sector

```

Error Validation - Immediate

```

Step    Validation Rule
10     if 1.00 <= TREE->TR_SECTOR <= 40.00: then (20): else "Sector 1 - 16".
20     if PUBLIC->SA_TYPE = M: then (30): else OK.
30     if TREE->TR_SECTOR < 10.00: then OK: else "Must be 1 - 9".

```

Warning Validation - Immediate

```

Step    Validation Rule
10     if PUBLIC->PREV_MEAS: then (20): else OK.
20     if PREV->TR_SECTOR != 0.00: then (30): else OK.
30     if TREE->TR_SECTOR = PREV->TR_SECTOR: then OK: else "Sector# has Changed".

```

TREE->TR_SPECIES Database Field #6

Prompt

Step Validation Rule
0 Tree Species

Error Validation - Immediate

Step Validation Rule
5 PUBLIC->C_RESULT_1:= TREE->TR_SPECIES.
10 PICK value from 'SPECIE' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 & TREE->TR_SPECIES: found OK: not found "Invalid Species".

Warning Validation - Immediate

Step Validation Rule
10 if PUBLIC->PREV_MEAS: then (20): else OK.
20 PUBLIC->C_RESULT_1:= LEFTmost 1.00 characters of PREV->TR_SPECIES.

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30 PUBLIC->CVAR_PRV:= PUBLIC->C_RESULT_1.
40 PUBLIC->C_RESULT_1:= LEFTmost 1.00 characters of TREE->TR_SPECIES.
50 if PUBLIC->C_RESULT_1 = PUBLIC->CVAR_PRV: then (60): else "Genus Changed".
60 if PUBLIC->C_RESULT_1 \$ 'EBHS': then OK: else (70).
70 PUBLIC->N_RESULT_1:= 1.00.
80 PUBLIC->C_RESULT_1:= SUBstring PUBLIC->N_RESULT_1 characters of PREV->TR_SPECIES starting at character 2.00.
90 PUBLIC->CVAR_PRV:= PUBLIC->C_RESULT_1.
100 PUBLIC->C_RESULT_1:= SUBstring PUBLIC->N_RESULT_1 characters of TREE->TR_SPECIES starting at character 2.00.
110 if PUBLIC->C_RESULT_1 = PUBLIC->CVAR_PRV: then OK: else "Species Changed".

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Validation Rules for Screen#107

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TR_MEAS->TM_LC_CORR Database Field #99

Prompt

Step	Validation Rule
0	Bottom Correction

Warning Validation - Immediate

Step	Validation Rule
10	if 0.00 <= TR_MEAS->TM_LC_CORR <= 4.00: then OK: else "Range 0 - 4".

TR_MEAS->TM_LC_DSSL Database Field #97

Prompt

Step	Validation Rule
0	LCMeas - Slope Dist

Error Validation - Immediate

Step	Validation Rule
10	if TR_MEAS->TM_LC_DSSL > 0.00: then OK: else "Must be > 0".

Warning Validation - Immediate

Step	Validation Rule
10	if TR_MEAS->TM_LC_DSSL <= 70.00: then OK: else "Should be <= 70m".

TR_MEAS->TM_LC_HTBS Database Field #93

Prompt

Step	Validation Rule
0	Ht. to Live Crown

Error Validation - Immediate

Step	Validation Rule
10	if TR_MEAS->TMSHEIGHT = 0.00: then OK: else (20).
20	if TR_MEAS->TM_LC_HTBS <= TR_MEAS->TMSHEIGHT: then OK: else "Must be <= Measd Ht.".

Warning Validation - Immediate

Step	Validation Rule
10	if TR_MEAS->TMSHEIGHT = 0.00: then (20): else OK.
20	if TR_MEAS->TM_LC_HTBS <= TR_MEAS->TM_HEIGHT: then OK: else "Should be <= Est Ht".

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TR_MEAS->TM_LC_PCBS Database Field #95

Prompt

Step	Validation Rule
0	Bottom Live Crown%

Error Validation - Immediate

Step	Validation Rule
------	-----------------

10 if TR_MEAS->TM_LC_PCBS >= 0.00: then OK: else "Must be >= 0".

Warning Validation - Immediate

Step Validation Rule

10 if 0.00 <= TR_MEAS->TM_LC_PCBS <= 115.00: then OK: else "Range 0 - 115".

TR_MEAS->TM_LC_PCBT Database Field #96

Prompt

Step Validation Rule

0 Bottom Reading %

Error Validation - Immediate

Step Validation Rule

10 if 0.00 <= TR_MEAS->TM_LC_PCBT <= 99.00: then OK: else "Range 0 to 99".

TR_MEAS->TM_LC_PCSSL Database Field #98

Prompt

Step Validation Rule

0 LCMeas - Slope%

Error Validation - Immediate

Step Validation Rule

10 if 0.00 <= TR_MEAS->TM_LC_PCSSL <= 99.00: then OK: else "Range 0 to 99".

TR_MEAS->TM_LC_SGNB Database Field #100

Prompt

Step Validation Rule

0 Bottom % Sign

Error Validation - Immediate

Step	Validation Rule
10	if TR_MEAS->TM_LC_SGNB \$ '+-': then OK: else "Must be + or -".

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TR_MEAS->TM_BL_CONK Database Field #18

Prompt

Step	Validation Rule
0	Blind Conk (0 - 7)

Error Validation - Immediate

Step	Validation Rule
30	if 0.00 <= TR_MEAS->TM_BL_CONK <= 7.00: then OK: else "Bl. Conk (0 - 7)".

Warning Validation - Immediate

Step	Validation Rule
10	if PUBLIC->PREV_MEAS: then (20): else OK.
20	if case PREV->TM_BL_CONK \$ 1,2,3,4,5,6,7: then (20): else OK.
20.1	. case PREV->TM_BL_CONK = 1:- if TR_MEAS->TM_BL_CONK \$ '0235': then "Prv=1, New!=023or5": else OK.
20.2	. case PREV->TM_BL_CONK = 2:- if TR_MEAS->TM_BL_CONK \$ '03': then "Prv=2, New!=0 or 3": else OK.
20.3	. case PREV->TM_BL_CONK = 3:- if TR_MEAS->TM_BL_CONK \$ '01': then "Prv=3, New!=0 or 1": else OK.
20.4	. case PREV->TM_BL_CONK = 4:- if TR_MEAS->TM_BL_CONK \$ '0235': then "Prv=4, New!=023or5": else OK.
20.5	. case PREV->TM_BL_CONK = 5:- if TR_MEAS->TM_BL_CONK \$ '013': then "Prv=5, New!=01or3": else OK.
20.6	. case PREV->TM_BL_CONK = 6:- if TR_MEAS->TM_BL_CONK \$ '01235': then "Prv=6, New!=0123or5": else OK.
20.7	. case PREV->TM_BL_CONK = 7:- if TR_MEAS->TM_BL_CONK \$ '01235': then "Prv=7, New!=0123or5": else OK.

TR_MEAS->TM_BRKNTOP Database Field #26

Prompt

Step	Validation Rule
0	Broken Top (0 - 3)

Error Validation - Immediate

Step	Validation Rule
10	if 0.00 <= TR_MEAS->TM_BRKNTOP <= 3.00: then OK: else "Dead/Brkn Top (0-3)".

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Warning Validation - Immediate

Step	Validation Rule
3	if TR_MEAS->TM_BRKNTOP > 0.00: then (6): else (10).
6	if TR_MEAS->TM_DEADTOP > 0.00: then "Dead & Broken Top": else (10).
10	if PUBLIC->PREV_MEAS: then (20): else OK.
20	if TR_MEAS->TM_FKCROOK \$ '3567': then OK: else (30).
30	if PREV->TM_BRKNTOP = 0.00: then OK: else (40).
40	if TR_MEAS->TM_BRKNTOP = PREV->TM_BRKNTOP: then OK: else "Prev was Brkn Top".

TR_MEAS->TM_CNDTN Database Field #34

Prompt

Step	Validation Rule
0	(S)tanding or(D)own

Error Validation - Immediate

Step	Validation Rule
10	if TR_MEAS->TM_CLASS \$ '346': then (20): else (30).
20	if TR_MEAS->TM_CNDTN \$ 'SD': then OK: else "Must be S or D".
30	if TR_MEAS->TM_CNDTN \$ ' SD': then OK: else "Must be S,D or < >".

TR_MEAS->TM_CONK Database Field #17

Prompt

Step	Validation Rule
0	Conk (0 - 7)

Error Validation - Immediate

Step	Validation Rule
30	if 0.00 <= TR_MEAS->TM_CONK <= 7.00: then OK: else "Conk 0 - 7".

Warning Validation - Immediate

Step	Validation Rule
10	if PUBLIC->PREV_MEAS: then (20): else OK.
20	if case PREV->TM_CONK \$ 1,2,3,4,5,6,7: then (20): else OK.
20.1	. case PREV->TM_CONK = 1:- if TR_MEAS->TM_CONK \$ '0235': then "Prv=1, New!=023or5": else OK.

```

20.2 . case PREV->TM_CONK = 2:- if TR_MEAS->TM_CONK $ '03': then "Prv=2, New!=0 or 3": else OK.
20.3 . case PREV->TM_CONK = 3:- if TR_MEAS->TM_CONK $ '01': then "Prv=3, New!=0 or 1": else OK.
20.4 . case PREV->TM_CONK = 4:- if TR_MEAS->TM_CONK $ '0235': then "Prv=4, New!=023or5": else OK.
20.5 . case PREV->TM_CONK = 5:- if TR_MEAS->TM_CONK $ '013': then "Prv=5, New!=01or3": else OK.

```

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```

20.6 . case PREV->TM_CONK = 6:- if TR_MEAS->TM_CONK $ '01235': then "Prv=6, New!=0123or5": else OK.
20.7 . case PREV->TM_CONK = 7:- if TR_MEAS->TM_CONK $ '01235': then "Prv=7, New!=0123or5": else OK.

```

TR_MEAS->TM_DBTOP Database Field #24

Prompt

Step	Validation Rule
0	DeadBrokenTop (0-3)

Error Validation - Immediate

Step	Validation Rule
30	if 0.00 <= TR_MEAS->TM_DBTOP <= 3.00: then OK: else "Dead/Brkn Top (0-3)".

Warning Validation - Immediate

Step	Validation Rule
10	if PUBLIC->PREV_MEAS: then (20): else OK.
20	if TR_MEAS->TM_FKCROOK \$ '3567': then OK: else (30).
30	if PREV->TM_DBTOP = 0.00: then OK: else (40).
40	if TR_MEAS->TM_DBTOP = PREV->TM_DBTOP: then OK: else "Prev was DeadBrkTop".

TR_MEAS->TM_DEADTOP Database Field #25

Prompt

Step	Validation Rule
0	Dead Top (0 - 3)

Error Validation - Immediate

Step	Validation Rule
------	-----------------

10 if 0.00 <= TR_MEAS->TM_DEADTOP <= 3.00: then OK: else "Dead/Brkn Top (0-3)".

Warning Validation - Immediate

Step	Validation Rule
3	if TR_MEAS->TM_DEADTOP > 0.00: then (6): else (10).
6	if TR_MEAS->TM_BRKNTOP > 0.00: then "Dead & Broken Top": else (10).
10	if PUBLIC->PREV_MEAS: then (20): else OK.
20	if TR_MEAS->TM_FKCROOK \$ '3567': then OK: else (30).
30	if PREV->TM_DEADTOP = 0.00: then OK: else (40).
40	if TR_MEAS->TM_DEADTOP = PREV->TM_DEADTOP: then OK: else "Prev was Dead Top".

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TR_MEAS->TM_FKCROOK Database Field #20

Prompt

Step	Validation Rule
0	Fork/Crook (0 - 7)

Error Validation - Immediate

Step	Validation Rule
30	if 0.00 <= TR_MEAS->TM_FKCROOK <= 7.00: then OK: else "Frk Crook (0 - 7)".

Warning Validation - Immediate

Step	Validation Rule
10	if PUBLIC->PREV_MEAS: then (20): else OK.
20	if case PREV->TM_FKCROOK \$ 1,2,3,4,5,6,7: then (20): else OK.
20.1	. case PREV->TM_FKCROOK = 1:- if TR_MEAS->TM_FKCROOK \$ '023457': then "Prv=1, New!=023457": else OK.
20.2	. case PREV->TM_FKCROOK = 2:- if TR_MEAS->TM_FKCROOK \$ '03': then "Prv=2, New!=0 or 3": else OK.
20.3	. case PREV->TM_FKCROOK = 3:- if TR_MEAS->TM_FKCROOK \$ '01467': then "Prv=3, New!=0146or7": else OK.
20.4	. case PREV->TM_FKCROOK = 4:- if TR_MEAS->TM_FKCROOK \$ '0235': then "Prv=4, New!=023or5": else OK.
20.5	. case PREV->TM_FKCROOK = 5:- if TR_MEAS->TM_FKCROOK \$ '013': then "Prv=5, New!=01or3": else

```

OK.
20.6 . case PREV->TM_FKCROOK = 6:- if TR_MEAS->TM_FKCROOK $ '01235': then "Prv=6, New!=0123or5":
      else OK.
20.7 . case PREV->TM_FKCROOK = 7:- if TR_MEAS->TM_FKCROOK $ '01235': then "Prv=7, New!=0123or5":
      else OK.
20.8 . case PREV->TM_FKCROOK:- if TR_MEAS->TM_FKCROOK $ '124567': then "Prv=0, New!=124567": else
      OK.

```

TR_MEAS->TM_FROST Database Field #21

Prompt

Step	Validation Rule
0	Frost Crack (0 - 7)

Error Validation - Immediate

Step	Validation Rule
30	if 0.00 <= TR_MEAS->TM_FROST <= 7.00: then OK: else "Frost Crack (0 - 7)".

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Warning Validation - Immediate

Step	Validation Rule
10	if PUBLIC->PREV_MEAS: then (20): else OK.
20	if case PREV->TM_FROST \$ 1,2,3,4,5,6,7: then (20): else OK.
20.1	. case PREV->TM_FROST = 1:- if TR_MEAS->TM_FROST \$ '0235': then "Prv=1, New!=023or5": else OK.
20.2	. case PREV->TM_FROST = 2:- if TR_MEAS->TM_FROST \$ '03': then "Prv=2, New!=0 or 3": else OK.
20.3	. case PREV->TM_FROST = 3:- if TR_MEAS->TM_FROST \$ '01': then "Prv=3, New!=0 or 1": else OK.
20.4	. case PREV->TM_FROST = 4:- if TR_MEAS->TM_FROST \$ '0235': then "Prv=4, New!=023or5": else OK.
20.5	. case PREV->TM_FROST = 5:- if TR_MEAS->TM_FROST \$ '013': then "Prv=5, New!=01or3": else OK.
20.6	. case PREV->TM_FROST = 6:- if TR_MEAS->TM_FROST \$ '01235': then "Prv=6, New!=0123or5": else OK.
20.7	. case PREV->TM_FROST = 7:- if TR_MEAS->TM_FROST \$ '01235': then "Prv=7, New!=0123or5": else OK.

TR_MEAS->TM_HT_BRK Database Field #71

Prompt

Step	Validation Rule
0	Height to Break(m)

Error Validation - Immediate

Step	Validation Rule
10	if TR_MEAS->TM_HT_BRK = 0.00: then (20): else (30).
20	if TR_MEAS->TM_BRKNTOP = 0.00: then OK: else "Broken Top not = 0".
30	if TR_MEAS->TM_BRKNTOP = 0.00: then "Broken Top = 0": else OK.

Warning Validation - Immediate

Step	Validation Rule
60	if TR_MEAS->TM_HT_BRK = 0.00: then OK: else (70).
70	PUBLIC->NVAR_CUR:= TR_MEAS->TM_DIA1_37.
80	if TR_MEAS->TM_DBH1_3 = 0.00: then (100): else (90).
90	PUBLIC->NVAR_CUR:= TR_MEAS->TM_DBH1_3.
100	PUBLIC->NVAR_PRV:= 1.75.
110	if PUBLIC->NVAR_CUR > 20.00: then (120): else (130).
120	PUBLIC->NVAR_PRV:= 1.25.
130	if PUBLIC->NVAR_CUR > 40.00: then (140): else (150).
140	PUBLIC->NVAR_PRV:= 1.00.

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150	if PUBLIC->NVAR_CUR > 60.00: then (160): else (170).
160	PUBLIC->NVAR_PRV:= 0.75.
170	if PUBLIC->NVAR_CUR > 100.00: then (180): else (190).
180	PUBLIC->NVAR_PRV:= 0.50.
190	PUBLIC->x_RESULT_1:= PUBLIC->NVAR_PRV * PUBLIC->NVAR_CUR.
200	if TR_MEAS->TM_HT_BRK > PUBLIC->N_RESULT_1: then "Brk TooHigh for DBH": else OK.

TR_MEAS->TM_LEAN Database Field #29

Prompt

Step	Validation Rule
------	-----------------

0 Lean/Sweep (0 - 2)

Error Validation - Immediate

```

Step   Validation Rule
10     if TR_MEAS->TM_CLASS $ '346': then (30): else (20).
20     if 0.00 <= TR_MEAS->TM_LEAN <= 2.00: then OK: else "Tcls!=34or6:Rng 0-2".
30     if TR_MEAS->TM_LEAN = 0.00: then OK: else "Tcls=34or6: Must=0".

```

Warning Validation - Immediate

```

Step   Validation Rule
10     if PUBLIC->PREV_MEAS: then (20): else OK.
20     if TR_MEAS->TM_LEAN >= PREV->TM_LEAN: then OK: else "Should be >= Prev.".

```

TR_MEAS->TM_MISTLE Database Field #22

Prompt

```

Step   Validation Rule
0      Mistletoe (0 - 7)

```

Error Validation - Immediate

```

Step   Validation Rule
30     if 0.00 <= TR_MEAS->TM_MISTLE <= 7.00: then OK: else "Mistletoe (0 - 7)".

```

Warning Validation - Immediate

```

Step   Validation Rule
10     if PUBLIC->PREV_MEAS: then (20): else OK.
20     if PUBLIC->SA_TYPE $ 'GIRST': then (30): else (40).
30     if case PREV->TM_MISTLE $ 1,2,3,4,5,6,7: then (30): else OK.

```

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```

30.1 . case PREV->TM_MISTLE = 1:- if TR_MEAS->TM_MISTLE $ '0235': then "Prv=1, New!=023or5": else
      OK.
30.2 . case PREV->TM_MISTLE = 2:- if TR_MEAS->TM_MISTLE $ '03': then "Prv=2, New!=0 or 3": else
      OK.

```



```

30.3 . case PREV->TM_MISTLE = 3:- if TR_MEAS->TM_MISTLE $ '01': then "Prv=3, New!=0 or 1": else
      OK.
30.4 . case PREV->TM_MISTLE = 4:- if TR_MEAS->TM_MISTLE $ '0235': then "Prv=4, New!=023or5": else
      OK.
30.5 . case PREV->TM_MISTLE = 5:- if TR_MEAS->TM_MISTLE $ '013': then "Prv=5, New!=01or3": else
      OK.
30.6 . case PREV->TM_MISTLE = 6:- if TR_MEAS->TM_MISTLE $ '01235': then "Prv=6, New!=0123or5":
      else OK.
30.7 . case PREV->TM_MISTLE = 7:- if TR_MEAS->TM_MISTLE $ '01235': then "Prv=7, New!=0123or5":
      else OK.
40   if PUBLIC->SA_TYPE = M: then (50): else OK.
50   if case PREV->TM_MISTLE $ 1,2,3,4,5,6,7: then (50): else OK.
50.1 . case PREV->TM_MISTLE = 1:- if TR_MEAS->TM_MISTLE = 0.00: then "Prv=1, New!=0": else OK.
50.2 . case PREV->TM_MISTLE = 2:- if TR_MEAS->TM_MISTLE $ '01': then "Prv=2, New!=0 or 1": else
      OK.
50.3 . case PREV->TM_MISTLE = 3:- if TR_MEAS->TM_MISTLE $ '012': then "Prv=3, New!=01 or 2": else
      OK.
50.4 . case PREV->TM_MISTLE = 4:- if TR_MEAS->TM_MISTLE $ '0123': then "Prv=4, New!=012or3": else
      OK.
50.5 . case PREV->TM_MISTLE = 5:- if TR_MEAS->TM_MISTLE $ '01234': then "Prv=5, New!=0123or4":
      else OK.
50.6 . case PREV->TM_MISTLE = 6:- if 0.00 <= TR_MEAS->TM_MISTLE <= 5.00: then "Prv=6, New!=012345":
      else OK.

```

TR_MEAS->TM_RBRANCH Database Field #23

Prompt

Step	Validation Rule
0	Rotten Branch (0-7)

Error Validation - Immediate

Step	Validation Rule
30	if 0.00 <= TR_MEAS->TM_RBRANCH <= 7.00: then OK: else "Rot. Branch (0 - 7)".

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Warning Validation - Immediate

```

Step    Validation Rule
10      if PUBLIC->PREV_MEAS: then (20): else OK.
20      if case PREV->TM_RBRANCH $ 1,2,3,4,5,6,7: then (20): else OK.
20.1    . case PREV->TM_RBRANCH = 1:- if TR_MEAS->TM_RBRANCH $ '0235': then "Prv=1, New!=023or5":
        else OK.
20.2    . case PREV->TM_RBRANCH = 2:- if TR_MEAS->TM_RBRANCH $ '03': then "Prv=2, New!=0 or 3": else
        OK.
20.3    . case PREV->TM_RBRANCH = 3:- if TR_MEAS->TM_RBRANCH $ '01': then "Prv=3, New!=0 or 1": else
        OK.
20.4    . case PREV->TM_RBRANCH = 4:- if TR_MEAS->TM_RBRANCH $ '0235': then "Prv=4, New!=023or5":
        else OK.
20.5    . case PREV->TM_RBRANCH = 5:- if TR_MEAS->TM_RBRANCH $ '013': then "Prv=5, New!=01or3": else
        OK.
20.6    . case PREV->TM_RBRANCH = 6:- if TR_MEAS->TM_RBRANCH $ '01235': then "Prv=6, New!=0123or5":
        else OK.
20.7    . case PREV->TM_RBRANCH = 7:- if TR_MEAS->TM_RBRANCH $ '01235': then "Prv=7, New!=0123or5":
        else OK.

```

TR_MEAS->TM_SCAR Database Field #19

Prompt

```

Step    Validation Rule
0       Scar (0 - 7)

```

Error Validation - Immediate

```

Step    Validation Rule
10      if 0.00 <= TR_MEAS->TM_SCAR <= 7.00: then (30): else "Scar 0 - 7".
30      if PUBLIC->SA_TYPE = M: then (50): else OK.
50      if TR_MEAS->TM_SCAR = 0.00: then OK: else "TClass 2,5 Type M".

```

Warning Validation - Immediate

```

Step    Validation Rule
10      if PUBLIC->PREV_MEAS: then (20): else OK.
20      if case PREV->TM_SCAR $ 1,2,3,4,5,6,7: then (20): else OK.
20.1    . case PREV->TM_SCAR = 1:- if TR_MEAS->TM_SCAR $ '0235': then "Prv=1, New!=023or5": else OK.
20.2    . case PREV->TM_SCAR = 2:- if TR_MEAS->TM_SCAR $ '03': then "Prv=2, New!=0 or 3": else OK.
20.3    . case PREV->TM_SCAR = 3:- if TR_MEAS->TM_SCAR $ '01': then "Prv=3, New!=0 or 1": else OK.
20.4    . case PREV->TM_SCAR = 4:- if TR_MEAS->TM_SCAR $ '0235': then "Prv=4, New!=023or5": else OK.

```

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```

20.5 . case PREV->TM_SCAR = 5:- if TR_MEAS->TM_SCAR $ '013': then "Prv=5, New!=01or3": else OK.
20.6 . case PREV->TM_SCAR = 6:- if TR_MEAS->TM_SCAR $ '01235': then "Prv=6, New!=0123or5": else
    OK.
20.7 . case PREV->TM_SCAR = 7:- if TR_MEAS->TM_SCAR $ '01235': then "Prv=7, New!=0123or5": else
    OK.

```

TR_MEAS->TM_SWEEP Database Field #28

Prompt

Step	Validation Rule
0	Sweep (0 - 2)

Error Validation - Immediate

Step	Validation Rule
10	if TR_MEAS->TM_CLASS \$ '346': then (30): else (20).
20	if 0.00 <= TR_MEAS->TM_SWEEP <= 2.00: then OK: else "Tcls!=34or6:Rng 0-2".
30	if TR_MEAS->TM_SWEEP = 0.00: then OK: else "Tcls=34or6: Must=0".

Warning Validation - Immediate

Step	Validation Rule
10	if PUBLIC->PREV_MEAS: then (20): else OK.
20	if TR_MEAS->TM_SWEEP >= PREV->TM_SWEEP: then OK: else "Should be >= Prev.".

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TR_MEAS->TM_1KNOT5M Database Field #32

Prompt

Step	Validation Rule
0	Knot - 1st 5 meters

Error Validation - Immediate

Step	Validation Rule
10	if 0.00 <= TR_MEAS->TM_1KNOT5M <= 5.00: then (20): else "TClS=12,5: Rng 0-5".
20	if TR_MEAS->TM_1KNOT5M = 0.00: then (30): else OK.
30	if TR_MEAS->TM_LIMB = 1.00: then "Cannot=0forLimbStub": else (40).
40	if TR_MEAS->TM_STUB = 1.00: then "Cannot=0forLimbStub": else OK.

TR_MEAS->TM_2KNOT5M Database Field #33

Prompt

Step	Validation Rule
0	Knot - 2nd 5 meters

Error Validation - Immediate

Step	Validation Rule
10	if 0.00 <= TR_MEAS->TM_2KNOT5M <= 5.00: then (20): else "TClS=12,5: Rng 0-5".
20	if TR_MEAS->TM_2KNOT5M = 0.00: then (30): else OK.
30	if TR_MEAS->TM_LIMB \$ '12': then "Cannot=0forLimbStub": else (40).
40	if TR_MEAS->TM_STUB \$ '12': then "Cannot=0forLimbStub": else OK.

Warning Validation - Immediate

Step	Validation Rule
10	if eMPty(TR_MEAS->TM_SPIRAL): then (20): else OK.
20	if eMPty(TR_MEAS->TM_LIMB): then (30): else OK.
30	if eMPty(TR_MEAS->TM_STUB): then (40): else OK.
40	if eMPty(TR_MEAS->TM_1KNOT5M): then (50): else OK.
50	if eMPty(TR_MEAS->TM_2KNOT5M): then "No Quality Exists": else OK.

TR_MEAS->TM_LIMB Database Field #30
 Prompt
 Step Validation Rule
 0 1st. Live Limb

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Error Validation - Immediate

Step Validation Rule
 10 if TR_MEAS->TM_CLASS \$ '346': then OK: else (20).
 20 if 1.00 <= TR_MEAS->TM_LIMB <= 7.00: then OK: else "Must=1-7 for TClass".

TR_MEAS->TM_SPIRAL Database Field #27
 Prompt
 Step Validation Rule
 0 Spiral

Error Validation - Immediate

Step Validation Rule
 10 if TR_MEAS->TM_CLASS \$ '125': then (20): else OK.
 20 if TR_MEAS->TM_SPIRAL \$ '01': then OK: else "Tcls=12or5: Rng 0-1".

TR_MEAS->TM_STUB Database Field #31
 Prompt
 Step Validation Rule
 0 Stub

Error Validation - Immediate

Step Validation Rule
 10 if TR_MEAS->TM_CLASS \$ '125': then (20): else OK.
 20 if 1.00 <= TR_MEAS->TM_STUB <= 7.00: then OK: else "Must=1-7 for TClass".

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PUBLIC->L_RESULT_1 Database Field #21

Prompt

Step	Validation Rule
0	Damage Present(Y/N)

Error Validation - Immediate

Step	Validation Rule
10	if PUBLIC->L_RESULT_1: then OK: else (20).
20	if TR_MEAS->TM_MISTLE > 0.00: then "Mist Damage Remark": else OK.

TR_MEAS->DUMMY_D Database Field #61

Prompt

Step	Validation Rule
0	Tree in Plot(Y/N) ?

Error Validation - Immediate

Step	Validation Rule
10	if TR_MEAS->DUMMY_D \$ 'YN': then OK: else "Must be Y or N".

TR_MEAS->TM_DASPEC1 Database Field #67

Prompt

Step	Validation Rule
0	Damage Agent

Error Validation - Immediate

Step	Validation Rule
7	PUBLIC->x_RESULT_1:= TR_MEAS->TM_DATYPE1 + TR_MEAS->TM_DASPEC1.
10	if TR_MEAS->TM_DATYPE1 = A: then (20): else (30).
20	PICK value from 'DATYPA' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 & PUBLIC->C_RESULT_1: found (200): not found "Inv. Dmg Agent Code".
30	if TR_MEAS->TM_DATYPE1 = C: then (40): else (50).
40	PICK value from 'DATYPC' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 & PUBLIC->C_RESULT_1: found (200): not found "Inv. Dmg Agent Code".
50	if TR_MEAS->TM_DATYPE1 = D: then (60): else (70).
60	PICK value from 'DATYPD' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 & PUBLIC->C_RESULT_1: found (200): not found "Inv. Dmg Agent Code".
70	if TR_MEAS->TM_DATYPE1 = I: then (80): else (90).

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80	PICK value from 'DATYPI' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 & PUBLIC->C_RESULT_1: found (200): not found "Inv. Dmg Agent Code".
90	if TR_MEAS->TM_DATYPE1 = M: then (100): else (110).
100	PICK value from 'DATYPM' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 & PUBLIC->C_RESULT_1: found (200): not found "Inv. Dmg Agent Code".
110	if TR_MEAS->TM_DATYPE1 = N: then (120): else (130).
120	PICK value from 'DATYPN' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 & PUBLIC->C_RESULT_1: found (200): not found "Inv. Dmg Agent Code".
130	if TR_MEAS->TM_DATYPE1 = P: then (140): else (150).
140	PICK value from 'DATYPP' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 & PUBLIC->C_RESULT_1: found (200): not found "Inv. Dmg Agent Code".
150	if TR_MEAS->TM_DATYPE1 = T: then (160): else (170).
160	PICK value from 'DATYPT' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 &

```

PUBLIC->C_RESULT_1: found (200): not found "Inv. Dmg Agent Code".
170 if TR_MEAS->TM_DATYPE1 = V: then (180): else "Inv. Dmg Agent Type".
180 PICK value from 'DATYPV' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 &
PUBLIC->C_RESULT_1: found (200): not found "Inv. Dmg Agent Code".
200 PUBLIC->N_RESULT_1:= 2.00.
205 PUBLIC->C_RESULT_1:= SUBstring PUBLIC->N_RESULT_1 characters of PUBLIC->C_RESULT_1 starting at
character 2.00.
210 TR_MEAS->TM_DASPEC1:= PUBLIC->C_RESULT_1.

```

Warning Validation - Immediate

```

Step Validation Rule
10 if TR_MEAS->TM_DATYPE1 $ 'DI': then (20): else OK.
20 if eMPTy(TR_MEAS->TM_DASPEC1): then "Invalid Damage Agnt": else OK.

```

TR_MEAS->TM_DASPEC2 Database Field #122

Prompt

```

Step Validation Rule
0 2nd Damage Agent

```

Error Validation - Immediate

```

Step Validation Rule
5 PUBLIC->x_RESULT_1:= TR_MEAS->TM_DATYPE2 + TR_MEAS->TM_DASPEC2.
10 if TR_MEAS->TM_DATYPE2 = A: then (20): else (30).
20 PICK value from 'DATYPA' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 &
PUBLIC->C_RESULT_1: found (200): not found "Inv. Dmg Agent Code".

```

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```

30 if TR_MEAS->TM_DATYPE2 = C: then (40): else (50).
40 PICK value from 'DATYPC' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 &
PUBLIC->C_RESULT_1: found (200): not found "Inv. Dmg Agent Code".
50 if TR_MEAS->TM_DATYPE2 = D: then (60): else (70).
60 PICK value from 'DATYPD' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 &
PUBLIC->C_RESULT_1: found (200): not found "Inv. Dmg Agent Code".
70 if TR_MEAS->TM_DATYPE2 = I: then (80): else (90).

```



```

80  PICK value from 'DATYPI' set in PickList.dbf.  Seed from C_RESULT_1, result in C_RESULT_1 &
PUBLIC->C_RESULT_1: found (200): not found "Inv. Dmg Agent Code".
90  if TR_MEAS->TM_DATATYPE2 = M: then (100): else (110).
100 PICK value from 'DATYPM' set in PickList.dbf.  Seed from C_RESULT_1, result in C_RESULT_1 &
PUBLIC->C_RESULT_1: found (200): not found "Inv. Dmg Agent Code".
110 if TR_MEAS->TM_DATATYPE2 = N: then (120): else (130).
120 PICK value from 'DATYPN' set in PickList.dbf.  Seed from C_RESULT_1, result in C_RESULT_1 &
PUBLIC->C_RESULT_1: found (200): not found "Inv. Dmg Agent Code".
130 if TR_MEAS->TM_DATATYPE2 = P: then (140): else (150).
140 PICK value from 'DATYPP' set in PickList.dbf.  Seed from C_RESULT_1, result in C_RESULT_1 &
PUBLIC->C_RESULT_1: found (200): not found "Inv. Dmg Agent Code".
150 if TR_MEAS->TM_DATATYPE2 = T: then (160): else (170).
160 PICK value from 'DATYPT' set in PickList.dbf.  Seed from C_RESULT_1, result in C_RESULT_1 &
PUBLIC->C_RESULT_1: found (200): not found "Inv. Dmg Agent Code".
170 if TR_MEAS->TM_DATATYPE2 = V: then (180): else "Inv. Dmg Agent Type".
180 PICK value from 'DATYPV' set in PickList.dbf.  Seed from C_RESULT_1, result in C_RESULT_1 &
PUBLIC->C_RESULT_1: found (200): not found "Inv. Dmg Agent Code".
200 PUBLIC->N_RESULT_1:= 2.00.
205 PUBLIC->C_RESULT_1:= SUBstring PUBLIC->N_RESULT_1 characters of PUBLIC->C_RESULT_1 starting at
character 2.00.
210 TR_MEAS->TM_DASPEC2:= PUBLIC->C_RESULT_1.

```

Warning Validation - Immediate

```

Step    Validation Rule
10      if TR_MEAS->TM_DATATYPE2 = D: then (20): else OK.
20      if eMPTY(TR_MEAS->TM_DASPEC2): then "Invalid Damage Agnt": else OK.

```

TR_MEAS->TM_DASVTY1 Database Field #46

Prompt

```

Step    Validation Rule
0       Damage Severity

```

Error Validation - Immediate

```
Step Validation Rule
10 PUBLIC->C_RESULT_1:= LEFTmost 1.00 characters of TR_MEAS->TM_DASPEC1.
15 PUBLIC->CVAR_CUR:= PUBLIC->C_RESULT_1.
20 PUBLIC->C_RESULT_1:= TR_MEAS->TM_DASVTY1.
30 if TR_MEAS->TM_DATYPE1 = A: then (40): else (50).
40 PICK value from 'DAGPCT' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 &
TR_MEAS->TM_DASVTY1: found OK: not found "Inv Animal Severity".
50 if TR_MEAS->TM_DATYPE1 $ 'CNPTV': then (60): else (70).
60 PICK value from 'DASUBJ' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 &
TR_MEAS->TM_DASVTY1: found OK: not found "Inv. Subj. Assess.".
70 if TR_MEAS->TM_DATYPE1 = D: then (80): else (220).
80 if PUBLIC->CVAR_CUR $ 'BM': then (90): else (100).
90 PICK value from 'DAMSTL' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 &
TR_MEAS->TM_DASVTY1: found OK: not found "Inv. Rust or Mistl.".
100 if PUBLIC->CVAR_CUR $ 'DL': then (110): else (120).
110 PICK value from 'DASUBJ' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 &
TR_MEAS->TM_DASVTY1: found OK: not found "Inv. Subj. Assess.".
120 if PUBLIC->CVAR_CUR = F : then (130): else (180).
130 PICK value from 'DAIDDP' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 &
TR_MEAS->TM_DASVTY1: found OK: not found "Inv Foliage Disease".
180 if PUBLIC->CVAR_CUR = R : then (190): else (200).
190 PICK value from 'DARROT' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 &
TR_MEAS->TM_DASVTY1: found OK: not found "Inv Root Disease".
200 if PUBLIC->CVAR_CUR = S : then (210): else "Invalid Damage Agnt".
210 PICK value from 'DASRST' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 &
TR_MEAS->TM_DASVTY1: found OK: not found "Inv Stem Disease".
220 if TR_MEAS->TM_DATYPE1 = I: then (230): else (310).
230 if PUBLIC->CVAR_CUR = A : then (233): else (236).
233 PICK value from 'DASUBJ' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 &
TR_MEAS->TM_DASVTY1: found OK: not found "Inv Aphids/Adelgids".
236 if PUBLIC->CVAR_CUR = S : then (240): else (250).
240 PICK value from 'DAWVLS' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 &
TR_MEAS->TM_DASVTY1: found OK: not found "Inv Shoot Insect".
250 if PUBLIC->CVAR_CUR = B : then (260): else (270).
260 PICK value from 'DABRKB' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 &
TR_MEAS->TM_DASVTY1: found OK: not found "Inv Bark Beetles".
270 if PUBLIC->CVAR_CUR = D : then (280): else (290).
```

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280  PICK value from 'DADPCT' set in PickList.dbf.  Seed from C_RESULT_1, result in C_RESULT_1 &
      TR_MEAS->TM_DASVTY1:  found OK:  not found "Inv Defoliator".
290  if PUBLIC->CVAR_CUR = W      :  then (300):  else "Invalid Insect".
300  PICK value from 'DAWVLS' set in PickList.dbf.  Seed from C_RESULT_1, result in C_RESULT_1 &
      TR_MEAS->TM_DASVTY1:  found OK:  not found "Inv Weevil Assess.".
310  if TR_MEAS->TM_DATYPE1 = M:  then (320):  else "Inv. Dmg Agent Type".
320  PICK value from 'DAIDDP' set in PickList.dbf.  Seed from C_RESULT_1, result in C_RESULT_1 &
      TR_MEAS->TM_DASVTY1:  found OK:  not found "Inv Mite Dmg Assess".

```

TR_MEAS->TM_DASVTY2 Database Field #124

Prompt

Step	Validation Rule
0	2nd Damage Severity

Error Validation - Immediate

Step	Validation Rule
10	PUBLIC->C_RESULT_1:= LEFTmost 1.00 characters of TR_MEAS->TM_DASPEC2.
15	PUBLIC->CVAR_CUR:= PUBLIC->C_RESULT_1.
20	PUBLIC->C_RESULT_1:= TR_MEAS->TM_DASVTY2.
30	if TR_MEAS->TM_DATYPE2 = A: then (40): else (50).
40	PICK value from 'DAGPCT' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 & TR_MEAS->TM_DASVTY2: found OK: not found "Inv Animal Severity".
50	if TR_MEAS->TM_DATYPE2 \$ 'CNPTV': then (60): else (70).
60	PICK value from 'DASUBJ' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 & TR_MEAS->TM_DASVTY2: found OK: not found "Inv. Subj. Assess.".
70	if TR_MEAS->TM_DATYPE2 = D: then (80): else (220).
80	if PUBLIC->CVAR_CUR \$ 'BM': then (90): else (100).
90	PICK value from 'DAMSTL' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 & TR_MEAS->TM_DASVTY2: found OK: not found "Inv. Rust or Misl.".
100	if PUBLIC->CVAR_CUR \$ 'DL': then (110): else (120).
110	PICK value from 'DASUBJ' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 & TR_MEAS->TM_DASVTY2: found OK: not found "Inv. Subj. Assess.".
120	if PUBLIC->CVAR_CUR = F : then (130): else (180).
130	PICK value from 'DAIDDP' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 & TR_MEAS->TM_DASVTY2: found OK: not found "Inv Foliage Disease".
180	if PUBLIC->CVAR_CUR = R : then (190): else (200).
190	PICK value from 'DARROT' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 & TR_MEAS->TM_DASVTY2: found OK: not found "Inv Root Disease".

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```

200  if PUBLIC->CVAR_CUR = S      : then (210): else "Invalid Damage Agnt".
210  PICK value from 'DASRST' set in PickList.dbf. Seed from C_RESULT_1 &
    TR_MEAS->TM_DASVTY2: found OK: not found "Inv Stem Disease".
220  if TR_MEAS->TM_DATYPE2 = I: then (230): else (310).
230  if PUBLIC->CVAR_CUR = A      : then (233): else (236).
233  PICK value from 'DASUBJ' set in PickList.dbf. Seed from C_RESULT_1 &
    TR_MEAS->TM_DASVTY2: found OK: not found "Inv Aphids/Adelgids".
236  if PUBLIC->CVAR_CUR = S      : then (240): else (250).
240  PICK value from 'DAWVLS' set in PickList.dbf. Seed from C_RESULT_1 &
    TR_MEAS->TM_DASVTY2: found OK: not found "Inv Shoot Insect".
250  if PUBLIC->CVAR_CUR = B      : then (260): else (270).
260  PICK value from 'DABRKB' set in PickList.dbf. Seed from C_RESULT_1 &
    TR_MEAS->TM_DASVTY2: found OK: not found "Inv Bark Beetles".
270  if PUBLIC->CVAR_CUR = D      : then (280): else (290).
280  PICK value from 'DADPCT' set in PickList.dbf. Seed from C_RESULT_1 &
    TR_MEAS->TM_DASVTY2: found OK: not found "Inv Defoliator".
290  if PUBLIC->CVAR_CUR = W      : then (300): else "Invalid Insect".
300  PICK value from 'DAWVLS' set in PickList.dbf. Seed from C_RESULT_1 &
    TR_MEAS->TM_DASVTY2: found OK: not found "Inv Weevil Assess.".
310  if TR_MEAS->TM_DATYPE2 = M: then (320): else "Inv. Dmg Agent Type".
320  PICK value from 'DAIDDP' set in PickList.dbf. Seed from C_RESULT_1 &
    TR_MEAS->TM_DASVTY2: found OK: not found "Inv Mite Dmg Assess".

```

TR_MEAS->TM_DATYPE1 Database Field #45

Prompt

Step	Validation Rule
0	Damage Type

Error Validation - Immediate

Step	Validation Rule
10	PUBLIC->C_RESULT_1:= TR_MEAS->TM_DATYPE1.
30	PICK value from 'DATYP1' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 & TR_MEAS->TM_DATYPE1: found OK: not found "A,C,D,I,M,N,P,T,V".

TR_MEAS->TM_DATYPE2 Database Field #123

Prompt

Step	Validation Rule
0	2nd Damage Type

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Error Validation - Immediate

Step	Validation Rule
5	if eMPTy(TR_MEAS->TM_DATYPE1): then "Dmg Type 1 absent": else (10).
10	PUBLIC->C_RESULT_1:= TR_MEAS->TM_DATYPE2.
20	PICK value from 'DATYP2' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 & TR_MEAS->TM_DATYPE2: found OK: not found "A,C,D,I,M,N,P,T,V".

TR_MEAS->TM_SUITHT Database Field #106

Prompt

Step	Validation Rule
0	Suit for Ht(YNCFVE)

Error Validation - Immediate

Step	Validation Rule
10	if TR_MEAS->TM_CLASS \$ '346': then (20): else (30).
20	if TR_MEAS->TM_SUITHT = N: then OK: else "Must be N for DeadT".
30	if TR_MEAS->TM_SUITHT = PUBLIC->C_RESULT_1: then OK: else (50).
50	if TR_MEAS->TM_SUITHT \$ 'YNCFVE': then OK: else "Mustbe YNCVE or F".

TR_MEAS->TM_TAG_OK Database Field #7

Prompt

Step	Validation Rule
0	Tag OK (Y/N)?

Error Validation - Immediate

Step	Validation Rule
10	if case TR_MEAS->TM_TAG_OK \$ N,Y: then (20): else "Must be Y or N".

```

20   if PUBLIC->SM_MEAS_NO = 0.00:  then (30):  else OK.
30   if TR_MEAS->TM_TAG_OK = Y:  then OK:  else "Must be Y for Estb.".

```

TREE->TR_IN_PLOT Database Field #21

Prompt

```

Step   Validation Rule
0      Tree in Plot(Y/N) ?

```

Error Validation - Immediate

```

Step   Validation Rule
10     if TREE->TR_IN_PLOT $ 'YN':  then OK:  else "Must be Y or N".

```

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TREE->TR_NAT Database Field #7

Prompt

```

Step   Validation Rule
0      (N)at/(P)lant or< >

```

Error Validation - Immediate

```

Step   Validation Rule
10     if TREE->TR_NAT $ ' NP':  then OK:  else "Must be N,P or < >".

```

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PUBLIC->TR_TREE_NO Database Field #11

Prompt

Step	Validation Rule
0	Stem Map Tree#

Error Validation - Immediate

Step	Validation Rule
10	if PUBLIC->TR_TREE_NO > 0.00: then OK: else "Must be > 0".

TREE->TR_BEAR Database Field #11

Prompt

Step	Validation Rule
0	Bearing - degrees

Warning Validation - Immediate

```

Step    Validation Rule
10      if 1.00 <= TREE->TR_BEAR <= 360.00:  then OK:  else "Range 1 - 360".

```

TREE->TR_DIST Database Field #13

Prompt

```

Step    Validation Rule
0      Slope Distance(m)

```

Error Validation - Immediate

```

Step    Validation Rule
10      if TREE->TR_BEAR > 0.00:  then (20):  else OK.
20      if TREE->TR_DIST = 0.00:  then "Must be > 0":  else OK.

```

Warning Validation - Immediate

```

Step    Validation Rule
10      if PLOT->PL_OS_BEAR > 0.00:  then OK:  else (40).
40      PUBLIC->N_RESULT_1:= ArcTan(TREE->TR_SLOPE).
50      PUBLIC->N_RESULT_1:= Cos(PUBLIC->N_RESULT_1).
60      PUBLIC->x_RESULT_1:= TREE->TR_DIST * PUBLIC->N_RESULT_1.
70      if PUBLIC->SA_TYPE = R:  then (80):  else (100).
80      if PUBLIC->N_RESULT_1 <= 41.50:  then OK:  else "Tree Dist.-Out Plot".
100     if PUBLIC->SA_TYPE $ 'GTI':  then (110):  else OK.
110     if PUBLIC->N_RESULT_1 <= PLOT->PL_RADIUS:  then OK:  else "Tree Dist. Out Plot".

```

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TREE->TR_SLOPE Database Field #12

Prompt

```

Step    Validation Rule
0      Slope %

```

Warning Validation - Immediate

```

Step    Validation Rule
10      if 0.00 <= TREE->TR_SLOPE <= 99.00:  then OK:  else "Range 0 to 99".

```


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PUBLIC->TR_TREE_NO Database Field #11
Prompt
Step Validation Rule

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0 Productivity Tree#

Error Validation - Immediate

Step	Validation Rule
10	if PUBLIC->TR_TREE_NO > 0.00: then OK: else "Must be > 0".

TREE->TR_TR1_NO Database Field #14

Prompt

Step	Validation Rule
0	Stem Map Tree#1

Error Validation - Immediate

Step	Validation Rule
10	if PUBLIC->SM_MEAS_NO > 0.00: then (20): else OK.
20	if PUBLIC->PREV_MEAS: then (30): else OK.
30	if TREE->TR_TR1_NO > 0.00: then OK: else "Must be > 0".

TREE->TR_TR1DIST Database Field #15

Prompt

Step	Validation Rule
0	Map Tree#1 Dist.(m)

Error Validation - Immediate

Step	Validation Rule
10	if TREE->TR_TR1_NO > 0.00: then (30): else (20).
20	if TREE->TR_TR1DIST = 0.00: then OK: else "Must be 0".
30	if TREE->TR_TR1DIST > 0.00: then OK: else "Must be > 0".

Warning Validation - Immediate

Step	Validation Rule
10	if TREE->TR_TR1DIST < 10.00: then OK: else "Greater than 9.99".

TREE->TR_TR2_NO Database Field #16

Prompt

Step	Validation Rule
0	Stem Map Tree#2

Error Validation - Immediate

Step	Validation Rule
10	if PUBLIC->SM_MEAS_NO > 0.00: then (20): else OK.
20	if PUBLIC->PREV_MEAS: then (30): else OK.
30	if TREE->TR_TR2_NO > 0.00: then OK: else "Must be > 0".

TREE->TR_TR2DIST Database Field #17

Prompt

Step	Validation Rule
0	Map Tree#2 Dist(m)

Error Validation - Immediate

Step	Validation Rule
10	if TREE->TR_TR2_NO > 0.00: then (30): else (20).
20	if TREE->TR_TR2DIST = 0.00: then OK: else "Must be 0".
30	if TREE->TR_TR2DIST > 0.00: then OK: else "Must be > 0".

Warning Validation - Immediate

Step	Validation Rule
10	if TREE->TR_TR2DIST < 10.00: then OK: else "Greater than 9.99".

TREE->TR_TR3_NO Database Field #18

Prompt

Step	Validation Rule
0	Stem Map Tree#3

Error Validation - Immediate

Step	Validation Rule
10	if PUBLIC->SM_MEAS_NO > 0.00: then (20): else OK.
20	if PUBLIC->PREV_MEAS: then (30): else OK.
30	if TREE->TR_TR3_NO > 0.00: then OK: else "Must be > 0".

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TREE->TR_TR3DIST Database Field #19

Prompt

Step	Validation Rule
0	Map Tree#3 Dist(m)

Error Validation - Immediate

Step	Validation Rule
10	if TREE->TR_TR3_NO > 0.00: then (30): else (20).
20	if TREE->TR_TR3DIST = 0.00: then OK: else "Must be 0".
30	if TREE->TR_TR3DIST > 0.00: then OK: else "Must be > 0".

Warning Validation - Immediate

Step	Validation Rule
10	if TREE->TR_TR3DIST < 10.00: then OK: else "Greater than 9.99".

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TREE->TR_DIA Database Field #8

Prompt

Step	Validation Rule
0	Stump Diameter(cm)

Error Validation - Immediate

Step	Validation Rule
10	if TREE->TR_DIA >= 0.00: then OK: else "Must be >= 0".

Warning Validation - Immediate

Step	Validation Rule
10	if 7.50 <= TREE->TR_DIA <= 125.00: then OK: else "Stump Dia 7.5 - 125".

TREE->TR_HEIGHT Database Field #9

Prompt

Step	Validation Rule
0	Stump Height(m)

Error Validation - Immediate

Step	Validation Rule
10	if TREE->TR_HEIGHT = 0.00: then (20): else OK.
20	if TREE->TR_DIA = 0.00: then "Stump Dia & Ht.= 0": else OK.

Warning Validation - Immediate

Step	Validation Rule
10	if TREE->TR_HEIGHT <= 2.00: then OK: else "Stump Ht. > 2.0m".

TREE->TR_NEW_OLD Database Field #10

Prompt

Step	Validation Rule
------	-----------------

0 (N)ew/(O)ld Stump?

Error Validation - Immediate

Step	Validation Rule
10	if TREE->TR_NEW_OLD \$ 'NO': then OK: else "(N)ew, (O)ld".

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PUBLIC->PL_PLOT_NO Database Field #8

Prompt

Step	Validation Rule
0	Plot Number

Warning Validation - Immediate

Step	Validation Rule
10	No OPERATION.

PUBLIC->TR_TREE_NO Database Field #11

Prompt

Step	Validation Rule
0	Tree# for Hght Meas

Error Validation - Immediate

Step	Validation Rule
10	if PUBLIC->TR_TREE_NO > 0.00: then OK: else "Must be > 0".

TR_MEAS->TM_BOTSIGN Database Field #16

Prompt

Step	Validation Rule
0	Bottom % Sign

Error Validation - Immediate

```
Step    Validation Rule
10      if TR_MEAS->TM_BOTSIGN $ '+-': then OK: else "Must be + or -".
```

TR_MEAS->TM_LC_MEAS Database Field #94

Prompt

```
Step    Validation Rule
0       Meas Live Crown Y/N
```

Error Validation - Immediate

```
Step    Validation Rule
10      if TR_MEAS->TM_LC_MEAS $ 'YN': then OK: else "Must be Y or N".
```

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TR_MEAS->TM_VD_MEAS Database Field #107

Prompt

```
Step    Validation Rule
0       Meas Vert Dist(Y/N)
```

Error Validation - Immediate

```
Step    Validation Rule
10      if TR_MEAS->TM_VD_MEAS $ 'YN': then OK: else "Must be Y or N".
```

TR_MEAS->TMS_BOT Database Field #63

Prompt

```
Step    Validation Rule
0       Bottom% Reading
```

Error Validation - Immediate

```
Step    Validation Rule
10      if 0.00 <= TR_MEAS->TMS_BOT <= 99.00: then OK: else "Range 0 to 99".
```

TR_MEAS->TMS_HTCORR Database Field #66

Prompt

Step	Validation Rule
0	Height Correction(m)

Warning Validation - Immediate

Step	Validation Rule
10	if 0.00 <= TR_MEAS->TMS_HTCORR <= 4.00: then OK: else "Range 0 - 4".

TR_MEAS->TMS_SLOPE Database Field #65

Prompt

Step	Validation Rule
0	Slope%

Error Validation - Immediate

Step	Validation Rule
10	if 0.00 <= TR_MEAS->TMS_SLOPE <= 99.00: then OK: else "Range 0 to 99".

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TR_MEAS->TMS_SLPDIS Database Field #64

Prompt

Step	Validation Rule
0	Slope Distance(m)

Warning Validation - Immediate

Step	Validation Rule
10	if TR_MEAS->TMS_SLPDIS <= 70.00: then (20): else "Max Value = 70".
20	if TR_MEAS->TMS_TOP > 0.00: then (40): else (30).
30	if TR_MEAS->TMS_SLPDIS >= 0.00: then OK: else "Must be >= 0".
40	if TR_MEAS->TMS_SLPDIS > 0.00: then OK: else "Must be > 0".


```
TR_MEAS->TMS_TOP      Database Field #62
  Prompt
  Step   Validation Rule
  0      Top% Reading

  Error Validation - Immediate
  Step   Validation Rule
  10     if TR_MEAS->TMS_TOP >= 0.00:  then OK:  else "Must be >= 0".

  Warning Validation - Immediate
  Step   Validation Rule
  10     if 0.00 <= TR_MEAS->TMS_TOP <= 115.00:  then OK:  else "Range 0 - 115".

TR_MEAS->TMSCOMP_HT    Database Field #53
  Prompt
  Step   Validation Rule
  0      Use as TopHght(Y/N)

  Error Validation - Immediate
  Step   Validation Rule
  10     if TR_MEAS->TMSCOMP_HT $ 'YN':  then OK:  else "Must be Y or N".

TR_MEAS->TMSHEIGHT     Database Field #51
  Prompt
  Step   Validation Rule
  0      Total Height (m)
```

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```
  Error Validation - Immediate
  Step   Validation Rule
  10     if TR_MEAS->TMSHEIGHT >= 0.00:  then OK:  else "Must be >= 0".

  Warning Validation - Immediate
  Step   Validation Rule
```

```

10  if PUBLIC->PREV_MEAS: then (20): else (130).
20  if PREV->TMSHEIGHT = 0.00: then (130): else (30).
30  PUBLIC->x_RESULT_1:= TR_MEAS->TMSHEIGHT - PREV->TMSHEIGHT.
40  if case PUBLIC->SA_TYPE $ G,I,M,P,R,S,T: then (40): else (130).
40.1 . case PUBLIC->SA_TYPE = G:- if TR_MEAS->TM_CLASS $ '125': then (50): else (130).
40.2 . case PUBLIC->SA_TYPE = I:- if PUBLIC->SA_NUMBER = 1.00: then (70): else (90).
40.3 . case PUBLIC->SA_TYPE = M:- if TR_MEAS->TM_CLASS $ '12': then (110): else (130).
40.5 . case PUBLIC->SA_TYPE = R:- if TR_MEAS->TM_CLASS $ '125': then (50): else (130).
40.7 . case PUBLIC->SA_TYPE = T:- if TR_MEAS->TM_CLASS $ '125': then (50): else (130).
50  if case TR_MEAS->TM_CROWN $ 0,1,2,3,4,5,6: then (60): else (130).
60.1 . case TR_MEAS->TM_CROWN = 1:- if 0.50 <= PUBLIC->N_RESULT_1 <= 6.00: then (130): else "Grwth
Rng .5-6.0m".
60.2 . case TR_MEAS->TM_CROWN = 2:- if 0.50 <= PUBLIC->N_RESULT_1 <= 6.00: then (130): else "Grwth
Rng .5-6.0m".
60.3 . case TR_MEAS->TM_CROWN = 3:- if 0.00 <= PUBLIC->N_RESULT_1 <= 4.00: then (130): else "Grwth
Rng 0.0-4.0m".
60.4 . case TR_MEAS->TM_CROWN = 4:- if 0.00 <= PUBLIC->N_RESULT_1 <= 4.00: then (130): else "Grwth
Rng 0.0-4.0m".
60.5 . case TR_MEAS->TM_CROWN = 5:- if 0.00 <= PUBLIC->N_RESULT_1 <= 4.00: then (130): else "Grwth
Rng 0.0-4.0m".
60.6 . case TR_MEAS->TM_CROWN = 6:- if 0.00 <= PUBLIC->N_RESULT_1 <= 4.00: then (130): else "Grwth
Rng 0.0-4.0m".
60.9 . case TR_MEAS->TM_CROWN = 0:- if 0.50 <= PUBLIC->N_RESULT_1 <= 6.00: then (130): else "Grwth
Rng .5-6.0m".
70  if TR_MEAS->TM_CLASS $ '125': then (80): else (130).
80  if case TR_MEAS->TM_CROWN $ 0,1,2,3,4,5,6: then (80): else (130).
80.1 . case TR_MEAS->TM_CROWN = 1:- if 0.50 <= PUBLIC->N_RESULT_1 <= 4.00: then (130): else "Grwth
Rng 0.5-4.0m".
80.2 . case TR_MEAS->TM_CROWN = 2:- if 0.50 <= PUBLIC->N_RESULT_1 <= 4.00: then (130): else "Grwth
Rng 0.5-4.0m".
80.3 . case TR_MEAS->TM_CROWN = 3:- if 0.00 <= PUBLIC->N_RESULT_1 <= 2.50: then (130): else "Grwth
Rng 0.0-2.5m".

```

```
80.4 . case TR_MEAS->TM_CROWN = 4:- if 0.00 <= PUBLIC->N_RESULT_1 <= 2.50: then (130): else "Grwth
Rng 0.0-2.5m".
80.5 . case TR_MEAS->TM_CROWN = 5:- if 0.00 <= PUBLIC->N_RESULT_1 <= 2.50: then (130): else "Grwth
Rng 0.0-2.5m".
80.6 . case TR_MEAS->TM_CROWN = 6:- if 0.00 <= PUBLIC->N_RESULT_1 <= 2.50: then (130): else "Grwth
Rng 0.0-2.5m".
80.9 . case TR_MEAS->TM_CROWN = 0:- if 0.00 <= PUBLIC->N_RESULT_1 <= 4.00: then (130): else "Grwth
Rng 0.0-4.0m".
90 if PUBLIC->SA_NUMBER > 1.00: then (100): else (130).
100 if case TR_MEAS->TM_CROWN $ 0,1,2,3,4,5,6: then (100): else (130).
100.1 . case TR_MEAS->TM_CROWN = 1:- if 1.00 <= PUBLIC->N_RESULT_1 <= 4.50: then (130): else "Grwth
Rng 1.0-4.5m".
100.2 . case TR_MEAS->TM_CROWN = 2:- if 1.00 <= PUBLIC->N_RESULT_1 <= 4.50: then (130): else "Grwth
Rng 1.0-4.5m".
100.3 . case TR_MEAS->TM_CROWN = 3:- if 0.00 <= PUBLIC->N_RESULT_1 <= 3.00: then (130): else "Grwth
Rng 0.0-3.0m".
100.4 . case TR_MEAS->TM_CROWN = 4:- if 0.00 <= PUBLIC->N_RESULT_1 <= 3.00: then (130): else "Grwth
Rng 0.0-3.0m".
100.5 . case TR_MEAS->TM_CROWN = 5:- if 0.00 <= PUBLIC->N_RESULT_1 <= 3.00: then (130): else "Grwth
Rng 0.0-3.0m".
100.6 . case TR_MEAS->TM_CROWN = 6:- if 0.00 <= PUBLIC->N_RESULT_1 <= 3.00: then (130): else "Grwth
Rng 0.0-3.0m".
100.9 . case TR_MEAS->TM_CROWN = 0:- if 0.00 <= PUBLIC->N_RESULT_1 <= 4.50: then (130): else "Grwth
Rng 0.0-4.5m".
110 if case TR_MEAS->TM_CROWN $ 0,1,2,3,4,5,6: then (110): else (130).
110.1 . case TR_MEAS->TM_CROWN = 1:- if 1.00 <= PUBLIC->N_RESULT_1 <= 4.00: then (130): else "Grwth
Rng 1.0-4.0m".
110.2 . case TR_MEAS->TM_CROWN = 2:- if 1.00 <= PUBLIC->N_RESULT_1 <= 4.00: then (130): else "Grwth
Rng 1.0-4.0m".
110.3 . case TR_MEAS->TM_CROWN = 3:- if 0.00 <= PUBLIC->N_RESULT_1 <= 2.50: then (130): else "Grwth
Rng 0.0-2.5m".
110.4 . case TR_MEAS->TM_CROWN = 4:- if 0.00 <= PUBLIC->N_RESULT_1 <= 2.50: then (130): else "Grwth
Rng 0.0-2.5m".
110.5 . case TR_MEAS->TM_CROWN = 5:- if 0.00 <= PUBLIC->N_RESULT_1 <= 2.50: then (130): else "Grwth
Rng 0.0-2.5m".
110.6 . case TR_MEAS->TM_CROWN = 6:- if 0.00 <= PUBLIC->N_RESULT_1 <= 2.50: then (130): else "Grwth
Rng 0.0-2.5m".
```

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```
110.9 . case TR_MEAS->TM_CROWN = 0:- if 0.00 <= PUBLIC->N_RESULT_1 <= 4.00: then (130): else "Grwth
Rng 0.0-4.0m".
130 if TR_MEAS->TMSHEIGHT = 0.00: then (131): else (135).
131 if PUBLIC->SA_TYPE = S: then (133): else OK.
133 if TR_MEAS->TM_HEIGHT = 0.00: then "Should have Height": else OK.
135 if TR_MEAS->TM_DBH1_3 = 0.00: then (140): else (160).
140 if TR_MEAS->TM_DIAL_37 = 0.00: then (150): else (160).
150 if 0.30 <= TR_MEAS->TMSHEIGHT <= 4.00: then OK: else "Ht/Dia Incompatible".
160 if TR_MEAS->TM_DBH1_3 = 0.00: then (190): else (170).
170 PUBLIC->x_RESULT_1:= TR_MEAS->TMSHEIGHT / TR_MEAS->TM_DBH1_3.
180 PUBLIC->NVAR_PRV:= PUBLIC->N_RESULT_1.
190 if TR_MEAS->TM_DIAL_37 = 0.00: then (220): else (200).
200 PUBLIC->x_RESULT_1:= TR_MEAS->TMSHEIGHT / TR_MEAS->TM_DIAL_37.
210 PUBLIC->NVAR_CUR:= PUBLIC->N_RESULT_1.
220 if 2.00 <= TR_MEAS->TM_DBH1_3 <= 20.00: then (230): else (240).
230 if 0.40 <= PUBLIC->NVAR_PRV <= 1.75: then OK: else "Check Ht/Dia Relatn".
240 if 2.00 <= TR_MEAS->TM_DIAL_37 <= 20.00: then (250): else (260).
250 if 0.40 <= PUBLIC->NVAR_CUR <= 1.75: then OK: else "Check Ht/Dia Relatn".
260 if 20.01 <= TR_MEAS->TM_DBH1_3 <= 40.00: then (270): else (280).
270 if 0.40 <= PUBLIC->NVAR_PRV <= 1.25: then OK: else "Check Ht/Dia Relatn".
280 if 20.01 <= TR_MEAS->TM_DIAL_37 <= 40.00: then (300): else (310).
300 if 0.40 <= PUBLIC->NVAR_CUR <= 1.25: then OK: else "Check Ht/Dia Relatn".
310 if 40.01 <= TR_MEAS->TM_DBH1_3 <= 60.00: then (320): else (330).
320 if 0.40 <= PUBLIC->NVAR_PRV <= 1.00: then OK: else "Check Ht/Dia Relatn".
330 if 40.01 <= TR_MEAS->TM_DIAL_37 <= 60.00: then (340): else (350).
340 if 0.40 <= PUBLIC->NVAR_CUR <= 1.00: then OK: else "Check Ht/Dia Relatn".
350 if 60.01 <= TR_MEAS->TM_DBH1_3 <= 100.00: then (360): else (370).
360 if 0.30 <= PUBLIC->NVAR_PRV <= 0.75: then OK: else "Check Ht/Dia Relatn".
370 if 60.01 <= TR_MEAS->TM_DIAL_37 <= 100.00: then (380): else (390).
380 if 0.30 <= PUBLIC->NVAR_CUR <= 0.75: then OK: else "Check Ht/Dia Relatn".
390 if TR_MEAS->TM_DBH1_3 > 100.00: then (400): else (410).
400 if 0.30 <= PUBLIC->NVAR_PRV <= 0.50: then OK: else "Check Ht/Dia Relatn".
410 if TR_MEAS->TM_DIAL_37 > 100.00: then (420): else "Ht/Dia Incompatible".
420 if 0.30 <= PUBLIC->NVAR_CUR <= 0.50: then OK: else "Check Ht/Dia Relatn".
```

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PUBLIC->PL_PLOT_NO Database Field #8

Prompt

Step	Validation Rule
0	Plot Number

Warning Validation - Immediate

Step	Validation Rule
10	No OPERATION.

PUBLIC->TR_TREE_NO Database Field #11

Prompt

Step	Validation Rule
0	Tree# for Age Meas.

Error Validation - Immediate

Step	Validation Rule
10	if PUBLIC->TR_TREE_NO > 0.00: then OK: else "Must be > 0".

TR_MEAS->TM_AGECORE Database Field #117

Prompt

Step	Validation Rule
0	Age-Core Taken?

Error Validation - Immediate

Step	Validation Rule
10	if TR_MEAS->TM_AGECORE \$ 'YN': then OK: else "Must be Y or N".

TR_MEAS->TM_RADINC1 Database Field #59

Prompt

Step	Validation Rule
0	10Yr radial inc(mm)

Error Validation - Immediate

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```

Step    Validation Rule
10      if TR_MEAS->TMS_AGE13M >= 10.00: then (30): else (20).
20      if TR_MEAS->TM_RADINC1 = 0.00: then OK: else "Must be 0".
30      if TR_MEAS->TM_RADINC1 > 0.00: then (40): else "Must be > 0".
40      if TR_MEAS->TM_RADINC1 > TR_MEAS->TM_RADINC5: then OK: else "Ri10 Must be > Ri5".

```

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Warning Validation - Immediate

```

Step    Validation Rule
10      if TR_MEAS->TM_RADINC1 <= 200.00: then (20): else "Ri10 Should be<=200".
20      if SAMPLE->SA_D13 = Y: then (30): else (50).
30      PUBLIC->x_RESULT_1:= TR_MEAS->TM_DBH1_3 * 5.00.
50      PUBLIC->x_RESULT_1:= TR_MEAS->TM_DIA1_37 * 5.00.
60      if TR_MEAS->TM_RADINC1 < PUBLIC->N_RESULT_1: then OK: else "Ri10 >= 1/2 DBH/Dia".

```

TR_MEAS->TM_RADINC2 Database Field #60

Prompt

```

Step    Validation Rule
0       20Yr radial inc(mm)

```

Error Validation - Immediate

```

Step    Validation Rule
10      if TR_MEAS->TMS_AGE13M >= 20.00: then (30): else (20).
20      if TR_MEAS->TM_RADINC2 = 0.00: then OK: else "Must be 0".
30      if TR_MEAS->TM_RADINC2 > 0.00: then (40): else "Must be > 0".
40      if TR_MEAS->TM_RADINC2 > TR_MEAS->TM_RADINC1: then OK: else "Ri20 must be > Ri10".

```

Warning Validation - Immediate

```

Step    Validation Rule
10      if TR_MEAS->TM_RADINC2 <= 400.00: then (20): else "Ri20 Should be<=400".
20      if SAMPLE->SA_D13 = Y: then (30): else (50).
30      PUBLIC->x_RESULT_1:= TR_MEAS->TM_DBH1_3 * 5.00.
50      PUBLIC->x_RESULT_1:= TR_MEAS->TM_DIA1_37 * 5.00.
60      if TR_MEAS->TM_RADINC2 < PUBLIC->N_RESULT_1: then OK: else "Ri20 >= 1/2 DBH/Dia".

```

TR_MEAS->TM_RADINC5 Database Field #86

Prompt

Step	Validation Rule
0	5Yr radial inc.(mm)

Error Validation - Immediate

Step	Validation Rule
10	if TR_MEAS->TMS_AGE13M >= 5.00: then (30): else (20).
20	if TR_MEAS->TM_RADINC5 = 0.00: then OK: else "Must be 0".
30	if TR_MEAS->TM_RADINC5 > 0.00: then OK: else "Must be > 0".

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Warning Validation - Immediate

Step	Validation Rule
10	if TR_MEAS->TM_RADINC5 <= 200.00: then (20): else "Ri10 Should be<=200".
20	if SAMPLE->SA_D13 = Y: then (30): else (50).
30	PUBLIC->x_RESULT_1:= TR_MEAS->TM_DBH1_3 * 5.00.
50	PUBLIC->x_RESULT_1:= TR_MEAS->TM_DIA1_37 * 5.00.
60	if TR_MEAS->TM_RADINC5 < PUBLIC->N_RESULT_1: then OK: else "Ri5 >= 1/2 DBH/Dia".

TR_MEAS->TM_SUPPRES Database Field #85

Prompt

Step	Validation Rule
0	(Y)es (N)o (P)osbly

Error Validation - Immediate

Step	Validation Rule
10	if TR_MEAS->TM_SUPPRES \$ 'YNP': then OK: else "Must be Y, N or P".

TR_MEAS->TMS_AGE13M Database Field #54

Prompt

Step	Validation Rule
0	Breast Height Age

Error Validation - Immediate

Step	Validation Rule
10	if TR_MEAS->TM_CLASS \$ '346': then (30): else (20).
20	if TR_MEAS->TMS_AGE13M >= 0.00: then OK: else "Must be >= 0".
30	if TR_MEAS->TMS_AGE13M = 0.00: then OK: else "Must = 0 for TClass".

Warning Validation - Immediate

Step	Validation Rule
10	if TR_MEAS->TM_CLASS \$ '12': then (30): else (20).
20	if TR_MEAS->TMS_AGE13M <= 400.00: then OK: else "Too Old for TClass".
30	if TR_MEAS->TMS_AGE13M <= 200.00: then OK: else "Too Old for TClass".

TR_MEAS->TMS_NEWAGE Database Field #126

Prompt

Step	Validation Rule
0	New Breast Ht Age

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Error Validation - Immediate

Step	Validation Rule
10	if TR_MEAS->TM_CLASS \$ '346': then (30): else (20).
20	if TR_MEAS->TMS_NEWAGE >= 0.00: then (40): else "Must be >= 0".
30	if TR_MEAS->TMS_NEWAGE = 0.00: then OK: else "Must = 0 for TClass".
40	if TR_MEAS->TM_PRV_AGE = *: then OK: else (50).
50	TR_MEAS->TMS_AGE13M:= TR_MEAS->TMS_NEWAGE.

Warning Validation - Immediate

Step	Validation Rule
10	if TR_MEAS->TM_CLASS \$ '12': then (30): else (20).
20	if TR_MEAS->TMS_NEWAGE <= 400.00: then OK: else "Too Old for TClass".
30	if TR_MEAS->TMS_NEWAGE <= 200.00: then OK: else "Too Old for TClass".

TR_MEAS->TMSBOREHT Database Field #55

Prompt

Step	Validation Rule
0	Boring Height(m)

Error Validation - Immediate

Step	Validation Rule
10	if TR_MEAS->TMSCOMPAGE = Y: then (20): else OK.
20	if TR_MEAS->TMSBOREHT >= 0.00: then OK: else "BoreHt >= 0".

Warning Validation - Immediate

Step	Validation Rule
10	if TR_MEAS->TMSBOREHT = 1.30: then OK: else "Should be 1.3m".

TR_MEAS->TMSCOMPAGE Database Field #57

Prompt

Step	Validation Rule
0	Use for Av.Age(Y/N)

Error Validation - Immediate

Step	Validation Rule
10	if TR_MEAS->TMSCOMPAGE \$ 'YN': then OK: else "Must be Y or N".

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TR_MEAS->TMSPITHCDE Database Field #58

Prompt

Step	Validation Rule
0	(Y),(N),(R)tn,(E)st

Error Validation - Immediate

Step	Validation Rule
10	if TR_MEAS->TMS_AGE13M = 0.00: then (20): else (30).
20	if eMPty(TR_MEAS->TMSPITHCDE): then OK: else "Must be Blank".

30 if TR_MEAS->TMSPITHCDE \$ 'NRYE': then OK: else "(Y),(N),(R)tn,(E)st".

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TREE->TR_DIST Database Field #13
Warning Validation - Immediate
Step Validation Rule

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```
10   if 0.00 < TREE->TR_DIST < 40.00:  then (20):  else "Range >0 - <40".
20   if PUBLIC->SA_TYPE $ 'GTI':  then (30):  else OK.
30   if TREE->TR_DIST <= PLOT->PL_RADIUS:  then OK:  else "Exceeds Plot Radius".
```

TREE->TR_SLOPE Database Field #12

Warning Validation - Immediate

Step Validation Rule

```
10   if 0.00 <= TREE->TR_SLOPE <= 99.00:  then OK:  else "Range 0 to 99".
```

TR_MEAS->TM_AGECORE Database Field #117

Prompt

Step	Validation Rule
0	Slope% to Germ'n Pt

Warning Validation - Immediate

Step	Validation Rule
10	if TR_MEAS->TM_AGECORE <= : then OK: else "Should be 0 - 99".

TR_MEAS->TM_BOTSIGN Database Field #16

Prompt

Step	Validation Rule
0	Bottom % Sign

Error Validation - Immediate

Step	Validation Rule
10	if TR_MEAS->TM_BOTSIGN \$ '+-': then OK: else "Must be + or -".

TR_MEAS->TM_REMARK1 Database Field #114

Prompt

Step	Validation Rule
0	Bottom Correction

Warning Validation - Immediate

Step	Validation Rule
10	if <= TR_MEAS->TM_REMARK1 <= : then OK: else "Should be 0 - 4".

TR_MEAS->TM_REMARK2 Database Field #115

Prompt

Step	Validation Rule
0	Bearing of Lean

Error Validation - Immediate

Step	Validation Rule
10	if <= TR_MEAS->TM_REMARK2 <= : then OK: else "Must be 1 - 360".

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TR_MEAS->TM_REMARK3 Database Field #116

Prompt

Step	Validation Rule
0	Dist. to Germ'n Pt

Warning Validation - Immediate

Step	Validation Rule
10	if TR_MEAS->TM_REMARK3 <= : then OK: else "Should be <= 70m".

TR_MEAS->TM_VDSSIGN Database Field #112

Prompt

Step	Validation Rule
0	Sign of Slope%

Error Validation - Immediate

Step	Validation Rule
10	if TR_MEAS->TM_VDSSIGN \$ '+-': then OK: else "Must be + or -".

TR_MEAS->TMS_BOT Database Field #63

Prompt

Step	Validation Rule
0	Bottom Reading %

Error Validation - Immediate

Step	Validation Rule
10	if 0.00 <= TR_MEAS->TMS_BOT <= 99.00: then OK: else "Range 0 to 99".

TR_MEAS->TMS_HTCORR Database Field #66

Prompt

Step	Validation Rule
0	Bottom Correction

Warning Validation - Immediate

Step	Validation Rule
10	if 0.00 <= TR_MEAS->TMS_HTCORR <= 4.00: then OK: else "Should be 0 - 4".

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TR_MEAS->TMS_SLOPE Database Field #65

Prompt

Step	Validation Rule
0	Slope %

Error Validation - Immediate

Step	Validation Rule
10	if 0.00 <= TR_MEAS->TMS_SLOPE <= 99.00: then OK: else "Range 0 to 99".

TR_MEAS->TMS_SLPDIS Database Field #64

Prompt

Step	Validation Rule
0	Slope Distance

Warning Validation - Immediate

Step	Validation Rule
10	if TR_MEAS->TMS_SLPDIS <= 70.00: then OK: else "Should be <= 70m".

TR_MEAS->TMS_TOP Database Field #62

Prompt

Step	Validation Rule
0	Top Reading%

Error Validation - Immediate

Step	Validation Rule
10	if TR_MEAS->TMS_TOP >= 0.00: then OK: else "Must be >= 0".

Warning Validation - Immediate

Step	Validation Rule
10	if 0.00 <= TR_MEAS->TMS_TOP <= 115.00: then OK: else "Range 0 - 115".

TR_MEAS->TMS_VDBEAR Database Field #109
 Prompt
 Step Validation Rule
 0 Bearing of Lean

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Error Validation - Immediate

Step Validation Rule
 10 if 1.00 <= TR_MEAS->TMS_VDBEAR <= 360.00: then OK: else "Must be 1 - 360".

TR_MEAS->TMS_VDDPOG Database Field #110
 Prompt
 Step Validation Rule
 0 Dist. to Germ'n Pt

Warning Validation - Immediate

Step Validation Rule
 10 if TR_MEAS->TMS_VDDPOG <= 70.00: then OK: else "Should be <= 70m".

TR_MEAS->TMS_VDSPOG Database Field #111
 Prompt
 Step Validation Rule
 0 Slope% to Germ'n Pt

Error Validation - Immediate

Step Validation Rule
 10 if 0.00 <= TR_MEAS->TMS_VDSPOG <= 99.00: then OK: else "Range 0 to 99".

TR_MEAS->TMSVERTDIS Database Field #108
 Prompt

Step	Validation Rule
0	Vertical Distance

Error Validation - Immediate

Step	Validation Rule
10	if TR_MEAS->TMSVERTDIS >= 0.00: then OK: else "Must be >= 0".

TR_MEAS->TR_REMSBLE Database Field #113

Prompt

Step	Validation Rule
0	Slope %

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Warning Validation - Immediate

Step	Validation Rule
10	if <= TR_MEAS->TR_REMSBLE <= : then OK: else "Should be 0 - 99".

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TR_MEAS->TM_COR_LEN Database Field #89

Prompt

Step	Validation Rule
0	Core Length (mm)

Error Validation - Immediate

Step	Validation Rule
10	if 1.00 <= TR_MEAS->TM_COR_LEN <= 999.00: then OK: else "Range 1 - 999".

TR_MEAS->TM_REL_10 Database Field #92

Prompt

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Step Validation Rule
0 Released 10Yrs(mm)

Error Validation - Immediate

Step Validation Rule
10 if 1.00 <= TR_MEAS->TM_REL_10 <= 200.00: then OK: else "Range 1 - 200".

Warning Validation - Immediate

Step Validation Rule
10 PUBLIC->x_RESULT_1:= TR_MEAS->TM_SUP_10 + TR_MEAS->TM_SUP_10.
20 if TR_MEAS->TM_REL_10 >= PUBLIC->N_RESULT_1: then OK: else "Not 2x supp. growth".

TR_MEAS->TM_SUP_10 Database Field #91

Prompt

Step Validation Rule
0 Suppressed 10Yr(mm)

Error Validation - Immediate

Step Validation Rule
10 if 1.00 <= TR_MEAS->TM_SUP_10 <= 200.00: then OK: else "Range 1 - 200".

TR_MEAS->TM_SUP_AGE Database Field #88

Prompt

Step Validation Rule
0 Suppressed Age(Yrs)

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Error Validation - Immediate

Step Validation Rule
10 if 1.00 <= TR_MEAS->TM_SUP_AGE <= 500.00: then OK: else "Range 1 - 500".

TR_MEAS->TM_SUP_LEN Database Field #87

Prompt

Step Validation Rule
0 Suppressed Lgth(mm)

Error Validation - Immediate

Step Validation Rule
10 if 1.00 <= TR_MEAS->TM_SUP_LEN <= 999.00: then OK: else "Range 1 - 999".

TR_MEAS->TMS_AGE13M Database Field #54

Prompt

Step Validation Rule
0 Breast Height Age

Error Validation - Immediate

Step Validation Rule
10 if TR_MEAS->TMS_AGE13M >= 0.00: then OK: else "Must be >= 0".

Warning Validation - Immediate

Step Validation Rule
10 if TR_MEAS->TM_CLASS \$ '12': then (30): else (20).
20 if TR_MEAS->TMS_AGE13M <= 400.00: then OK: else "Too Old for TClass".
30 if TR_MEAS->TMS_AGE13M <= 200.00: then OK: else "Too Old for TClass".

TR_MEAS->TMS_NEWAGE Database Field #126

Prompt

Step Validation Rule
0 New Breast Ht Age

Error Validation - Immediate

Step Validation Rule
10 if TR_MEAS->TMS_NEWAGE >= 0.00: then OK: else "Must be >= 0".

Warning Validation - Immediate

Step Validation Rule

- 10 if TR_MEAS->TM_CLASS \$ '346': then (30): else (20).
- 20 if TR_MEAS->TMS_NEWAGE >= 0.00: then OK: else "Must be >= 0".
- 30 if TR_MEAS->TMS_NEWAGE = 0.00: then OK: else "Must = 0 for TClass".

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DOT->DC_CLASS0 Database Field #5

Prompt

Step	Validation Rule
0	D-0; Ht .3 - 1.3

Warning Validation - Immediate

Step	Validation Rule
10	if DOT->DC_CLASS0 < 100.00: then OK: else "Should be < 100".

DOT->DC_CLASS1 Database Field #6

Prompt

Step	Validation Rule
0	D-1; Dia 0 - 1.9

Warning Validation - Immediate

Step	Validation Rule
10	if DOT->DC_CLASS1 < 100.00: then OK: else "Should be < 100".

DOT->DC_CLASS10 Database Field #15

Prompt

Step	Validation Rule
0	D-10;Dia 18 - 19.9

Warning Validation - Immediate

Step	Validation Rule
10	if DOT->DC_CLASS10 < 100.00: then OK: else "Should be < 100".

DOT->DC_CLASS11 Database Field #16

Prompt

Step	Validation Rule
0	D-11;Dia 20 & Up

Warning Validation - Immediate

Step	Validation Rule
10	if DOT->DC_CLASS11 < 100.00: then OK: else "Should be < 100".

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DOT->DC_CLASS2 Database Field #7

Prompt

Step	Validation Rule
0	D-2; Dia 2 - 3.9

Warning Validation - Immediate

Step	Validation Rule
10	if DOT->DC_CLASS2 < 100.00: then OK: else "Should be < 100".

DOT->DC_CLASS3 Database Field #8

Prompt

Step	Validation Rule
0	D-3; Dia 4 - 5.9

Warning Validation - Immediate

Step	Validation Rule
10	if DOT->DC_CLASS3 < 100.00: then OK: else "Should be < 100".

DOT->DC_CLASS4 Database Field #9

Prompt

Step	Validation Rule
0	D-4; Dia 6 - 7.9

Warning Validation - Immediate

Step	Validation Rule
10	if DOT->DC_CLASS4 < 100.00: then OK: else "Should be < 100".

DOT->DC_CLASS5 Database Field #10

Prompt

Step	Validation Rule
0	D-5; Dia 8 - 9.9

Warning Validation - Immediate

Step Validation Rule
10 if DOT->DC_CLASS5 < 100.00: then OK: else "Should be < 100".

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DOT->DC_CLASS6 Database Field #11

Prompt

Step Validation Rule
0 D-6; Dia 10 - 11.9

Warning Validation - Immediate

Step Validation Rule
10 if DOT->DC_CLASS6 < 100.00: then OK: else "Should be < 100".

DOT->DC_CLASS7 Database Field #12

Prompt

Step Validation Rule
0 D-7; Dia 12 - 13.9

Warning Validation - Immediate

Step Validation Rule
10 if DOT->DC_CLASS7 < 100.00: then OK: else "Should be < 100".

DOT->DC_CLASS8 Database Field #13

Prompt

Step Validation Rule
0 D-8; Dia 14 - 15.9

Warning Validation - Immediate

Step Validation Rule

10 if DOT->DC_CLASS8 < 100.00: then OK: else "Should be < 100".

DOT->DC_CLASS9 Database Field #14

Prompt

Step	Validation Rule
0	D-9; Dia 16 - 17.9

Warning Validation - Immediate

Step	Validation Rule
10	if DOT->DC_CLASS9 < 100.00: then OK: else "Should be < 100".

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DOT->DC_SPECIES Database Field #4

Prompt

Step	Validation Rule
0	Dot Count Species

Error Validation - Immediate

Step	Validation Rule
5	if eMPTy(DOT->DC_SPECIES): then OK: else (7).
7	PUBLIC->C_RESULT_1:= DOT->DC_SPECIES.
10	PICK value from 'SPECIE' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 & DOT->DC_SPECIES: found OK: not found "Invalid Species".

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TR_MEAS->TM_S_BASE Database Field #47

Prompt

Step	Validation Rule
0	Prod. Scar Base

Error Validation - Immediate

Step	Validation Rule
10	if 0.00 <= TR_MEAS->TM_S_BASE <= 8.00: then OK: else "Must be 0 - 8".

Warning Validation - Immediate

Step	Validation Rule
10	PUBLIC->N_RESULT_1:= PREV->TM_S_BASE.
20	if PUBLIC->SM_MEAS_NO = 0.00: then OK: else (30).

```

30   if PUBLIC->PREV_MEAS: then (40): else OK.
40   if case PUBLIC->N_RESULT_1 $ 0,1,2,3,4,5,6,7,8: then (50): else "Must be 0 - 8".
50.1 . case PUBLIC->N_RESULT_1 = 1:- if TR_MEAS->TM_S_BASE $ '12346': then OK: else "Should be 1-4
    or 6".

50.2 . case PUBLIC->N_RESULT_1 = 2:- if TR_MEAS->TM_S_BASE $ '012346': then OK: else "Should be 0-
    4 or 6".
50.3 . case PUBLIC->N_RESULT_1 = 3:- if TR_MEAS->TM_S_BASE $ '35678': then OK: else "Should be
    3567 or 8".
50.4 . case PUBLIC->N_RESULT_1 = 4:- if 3.00 <= TR_MEAS->TM_S_BASE <= 8.00: then OK: else "Should
    be 3-8".
50.5 . case PUBLIC->N_RESULT_1 = 5:- if TR_MEAS->TM_S_BASE $ '578': then OK: else "Should be 5, 7
    or 8".
50.6 . case PUBLIC->N_RESULT_1 = 6:- if 3.00 <= TR_MEAS->TM_S_BASE <= 8.00: then OK: else "Should
    be 3-8".
50.7 . case PUBLIC->N_RESULT_1 = 7:- if TR_MEAS->TM_S_BASE $ '578': then OK: else "Should be 5, 7
    or 8".
50.8 . case PUBLIC->N_RESULT_1 = 8:- if TR_MEAS->TM_S_BASE $ '578': then OK: else "Should be 5, 7
    or 8".
50.9 . case PUBLIC->N_RESULT_1 = 0:- if TR_MEAS->TM_S_BASE $ '014': then OK: else "Should be
    0,1,or 4".

```

TR_MEAS->TM_S_MID Database Field #48

Prompt

Step	Validation Rule
0	Scar Mid Point

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Error Validation - Immediate

Step	Validation Rule
10	if 0.00 <= TR_MEAS->TM_S_MID <= 8.00: then OK: else "Must be 0 - 8".

Warning Validation - Immediate

Step	Validation Rule
------	-----------------

```

10 PUBLIC->N_RESULT_1:= PREV->TM_S_MID.
20 if PUBLIC->SM_MEAS_NO = 0.00: then OK: else (30).
30 if PUBLIC->PREV_MEAS: then (40): else OK.
40 if case PUBLIC->N_RESULT_1 $ 0,1,2,3,4,5,6,7,8: then (50): else "Must be 0 - 8".
50.1 . case PUBLIC->N_RESULT_1 = 1:- if TR_MEAS->TM_S_MID $ '12346': then OK: else "Should be 1-4
or 6".
50.2 . case PUBLIC->N_RESULT_1 = 2:- if TR_MEAS->TM_S_MID $ '012346': then OK: else "Should be 0-4
or 6".
50.3 . case PUBLIC->N_RESULT_1 = 3:- if TR_MEAS->TM_S_MID $ '35678': then OK: else "Should be 3567
or 8".
50.4 . case PUBLIC->N_RESULT_1 = 4:- if 3.00 <= TR_MEAS->TM_S_MID <= 8.00: then OK: else "Should
be 3-8".
50.5 . case PUBLIC->N_RESULT_1 = 5:- if TR_MEAS->TM_S_MID $ '578': then OK: else "Should be 5, 7
or 8".
50.6 . case PUBLIC->N_RESULT_1 = 6:- if 3.00 <= TR_MEAS->TM_S_MID <= 8.00: then OK: else "Should
be 3-8".
50.7 . case PUBLIC->N_RESULT_1 = 7:- if TR_MEAS->TM_S_MID $ '578': then OK: else "Should be 5, 7
or 8".
50.8 . case PUBLIC->N_RESULT_1 = 8:- if TR_MEAS->TM_S_MID $ '578': then OK: else "Should be 5, 7
or 8".
50.9 . case PUBLIC->N_RESULT_1 = 0:- if TR_MEAS->TM_S_MID $ '014': then OK: else "Should be 0,1,or
4".

```

TR_MEAS->TM_S_TOP Database Field #49

Prompt

Step	Validation Rule
0	Prod. Scar Top

Error Validation - Immediate

Step	Validation Rule
10	if 0.00 <= TR_MEAS->TM_S_TOP <= 8.00: then OK: else "Must be 0 - 8".

Warning Validation - Immediate

```
Step    Validation Rule
10     PUBLIC->N_RESULT_1:= PREV->TM_S_TOP.
20     if PUBLIC->SM_MEAS_NO = 0.00:  then OK:  else (30).
30     if PUBLIC->PREV_MEAS:  then (40):  else OK.
40     if case PUBLIC->N_RESULT_1 $ 0,1,2,3,4,5,6,7,8:  then (50):  else "Must be 0 - 8".
50.1   . case PUBLIC->N_RESULT_1 = 1:- if TR_MEAS->TM_S_TOP $ '12346':  then OK:  else "Should be 1-4
or 6".
50.2   . case PUBLIC->N_RESULT_1 = 2:- if TR_MEAS->TM_S_TOP $ '012346':  then OK:  else "Should be 0-4
or 6".
50.3   . case PUBLIC->N_RESULT_1 = 3:- if TR_MEAS->TM_S_TOP $ '35678':  then OK:  else "Should be 3567
or 8".
50.4   . case PUBLIC->N_RESULT_1 = 4:- if 3.00 <= TR_MEAS->TM_S_TOP <= 8.00:  then OK:  else "Should
be 3-8".
50.5   . case PUBLIC->N_RESULT_1 = 5:- if TR_MEAS->TM_S_TOP $ '578':  then OK:  else "Should be 5, 7
or 8".
50.6   . case PUBLIC->N_RESULT_1 = 6:- if 3.00 <= TR_MEAS->TM_S_TOP <= 8.00:  then OK:  else "Should
be 3-8".
50.7   . case PUBLIC->N_RESULT_1 = 7:- if TR_MEAS->TM_S_TOP $ '578':  then OK:  else "Should be 5, 7
or 8".
50.8   . case PUBLIC->N_RESULT_1 = 8:- if TR_MEAS->TM_S_TOP $ '578':  then OK:  else "Should be 5, 7
or 8".
50.9   . case PUBLIC->N_RESULT_1 = 0:- if TR_MEAS->TM_S_TOP $ '014':  then OK:  else "Should be 0,1,or
4".
```

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PLOT->PL_ASPECT Database Field #3

Prompt

Step	Validation Rule
0	Plot Aspect

Error Validation - Immediate

Step	Validation Rule
10	if 0.00 <= PLOT->PL_ASPECT <= 360.00: then OK: else "Must be 0 - 360".

PLOT->PL_ELEVATE Database Field #6

Prompt

Step	Validation Rule
0	Plot Elevation

Warning Validation - Immediate

Step	Validation Rule
10	if 1.00 <= PLOT->PL_ELEVATE <= 2500.00: then OK: else "Range 1 - 2500m".

PLOT->PL_OS_BEAR Database Field #12

Prompt

Step	Validation Rule
0	Offset Bear'g to PC

Error Validation - Immediate

Step	Validation Rule
10	if 1.00 <= PLOT->PL_OS_BEAR <= 360.00: then OK: else "Range 1 - 360".

PLOT->PL_OS_SLOP Database Field #13

Prompt

Step	Validation Rule
0	Offset Slope %

Warning Validation - Immediate

Step	Validation Rule
10	if -100.00 < PLOT->PL_OS_SLOP < 100.00: then OK: else "Range -100 to 100".

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PLOT->PL_OSSDIST Database Field #14

Prompt

Step	Validation Rule
0	Offset Slope Dist.

Error Validation - Immediate

Step	Validation Rule
10	if PLOT->PL_OS_SLOP > 0.00: then (20): else (30).
20	if PLOT->PL_OSSDIST > 0.00: then (30): else "> 0 for OS_Slope >0".
30	if PLOT->PL_OS_BEAR > 0.00: then (40): else OK.
40	if 0.00 < PLOT->PL_OSSDIST < 10.00: then OK: else "0-9 for OS_Bear >0".

PLOT->PL_SL_POS Database Field #5

Prompt

Step	Validation Rule
0	Slope Position

Warning Validation - Immediate

Step	Validation Rule
10	if case PLOT->PL_SL_POS \$ C,D,F,L,M,T,U: then OK: else "Sl Pos - CUMLTDF".

PLOT->PL_SLOPE Database Field #4

Prompt

Step	Validation Rule
0	Plot Slope

Error Validation - Immediate

Step	Validation Rule
10	if PLOT->PL_ASPECT = 0.00: then (20): else (30).
20	if PLOT->PL_SLOPE = 0.00: then OK: else "=0 for Aspect of 0".
30	if PLOT->PL_SLOPE = 0.00: then ">0 for Aspect >0": else OK.

PUBLIC->STEM_OFF

Database Field #33

Prompt

Step	Validation Rule
0	Plot Centre Offset?

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Warning Validation - Immediate

Step	Validation Rule
10	No OPERATION.

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PLOT->PL_SUB_BA Database Field #17

Prompt

Step	Validation Rule
0	Sub-Plot Basel Area

Warning Validation - Immediate

Step	Validation Rule
10	if PUBLIC->SA_TYPE = S: then (20): else OK.
20	if PLOT->PL_SUB_RAD > 0.00: then OK: else (30).
30	if 0.50 <= PLOT->PL_SUB_BA <= 20.00: then OK: else (40).
40	if PLOT->PL_SUB_BA = 0.00: then (50): else "SubBA 0.5 - 20".
50	if SP_MEAS->SM_STNSTRC = 3: then "SubBA 0.5 - 20": else OK.

PLOT->PL_SUB_RAD Database Field #15

Prompt

Step	Validation Rule
0	Sub-Plot Radius(m)

Error Validation - Immediate

Step	Validation Rule
------	-----------------


```

10  if 0.56 <= PLOT->PL_SUB_RAD <= 30.90:  then (50):  else (20).
20  if PUBLIC->SA_TYPE $ 'GIRT':  then "Range 0.56 - 30.9m":  else (30).
30  if PLOT->PL_SUB_RAD = 0.00:  then (50):  else "0 or Rng 0.56-30.9m".
50  if PLOT->PL_RADIUS > 0.00:  then (60):  else OK.
60  if PLOT->PL_SUB_RAD <= PLOT->PL_RADIUS:  then OK:  else "SubRad > Radius".

```

PLOT->PL_SUBAREA Database Field #16

Prompt

Step	Validation Rule
0	Sub-Plot Area(Ha)

Error Validation - Immediate

Step	Validation Rule
10	PUBLIC->x_RESULT_1:= PLOT->PL_SUBAREA * 100.00.
20	if 0.01 <= PUBLIC->N_RESULT_1 <= 20.00: then OK: else (30).
30	if PUBLIC->SA_TYPE \$ 'GIRT': then "SubArea .0001 - .2": else (40).
40	if PLOT->PL_SUBAREA = 0.00: then OK: else "SubArea .0001 - .2".

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PUBLIC->PL_PLOT_NO Database Field #8

Prompt

Step	Validation Rule
0	Plot#

Error Validation - Immediate

Step	Validation Rule
10	if 0.00 < PUBLIC->PL_PLOT_NO < 11.00: then OK: else "Range 1 - 10".

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PUBLIC->L_RESULT_1 Database Field #21

Prompt

Step	Validation Rule
0	Buffer Disturb.(YN)

Error Validation - Immediate

Step	Validation Rule
------	-----------------

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```
10    if PUBLIC->L_RESULT_1:  then OK:  else OK.
```

```
SAMPLE->SA_ALL_HTS      Database Field #69
```

```
Prompt
```

```
Step    Validation Rule
10     Buffer Disturb.(YN)
```

```
Error Validation - Immediate
```

```
Step    Validation Rule
10     if SAMPLE->SA_ALL_HTS $ 'YN':  then OK:  else "Must be Y or N".
```

```
SP_MEAS->SM_CMPL      Database Field #18
```

```
Prompt
```

```
Step    Validation Rule
0     Complete/Part./None
```

```
Error Validation - Immediate
```

```
Step    Validation Rule
10     if SP_MEAS->SM_CMPL $ ' CP':  then OK:  else "Must Be C,P or spc".
```

```
SP_MEAS->SM_DASPEC1   Database Field #20
```

```
Prompt
```

```
Step    Validation Rule
0     Damage Agent
```

```
Error Validation - Immediate
```

```
Step    Validation Rule
7     PUBLIC->x_RESULT_1:= SP_MEAS->SM_DATYPE1 + SP_MEAS->SM_DASPEC1.
10    if SP_MEAS->SM_DATYPE1 = A:  then (20):  else (30).
20    PICK value from 'DATYPA' set in PickList.dbf.  Seed from C_RESULT_1, result in C_RESULT_1 &
PUBLIC->C_RESULT_1:  found (200):  not found "Inv. Dmg Agent Code".
```

```
30    if SP_MEAS->SM_DATYPE1 = C:  then (40):  else (50).
40    PICK value from 'DATYPC' set in PickList.dbf.  Seed from C_RESULT_1, result in C_RESULT_1 &
```

```

PUBLIC->C_RESULT_1: found (200): not found "Inv. Dmg Agent Code".
50  if SP_MEAS->SM_DATYPE1 = D: then (60): else (70).
60  PICK value from 'DATYPD' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 &
PUBLIC->C_RESULT_1: found (200): not found "Inv. Dmg Agent Code".
70  if SP_MEAS->SM_DATYPE1 = I: then (80): else (90).
80  PICK value from 'DATYPI' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 &
PUBLIC->C_RESULT_1: found (200): not found "Inv. Dmg Agent Code".
90  if SP_MEAS->SM_DATYPE1 = M: then (100): else (110).
100 PICK value from 'DATYPM' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 &
PUBLIC->C_RESULT_1: found (200): not found "Inv. Dmg Agent Code".
110 if SP_MEAS->SM_DATYPE1 = N: then (120): else (130).
120 PICK value from 'DATYPN' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 &
PUBLIC->C_RESULT_1: found (200): not found "Inv. Dmg Agent Code".
130 if SP_MEAS->SM_DATYPE1 = P: then (140): else (150).
140 PICK value from 'DATYPP' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 &
PUBLIC->C_RESULT_1: found (200): not found "Inv. Dmg Agent Code".
150 if SP_MEAS->SM_DATYPE1 = T: then (160): else (170).
160 PICK value from 'DATYPT' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 &
PUBLIC->C_RESULT_1: found (200): not found "Inv. Dmg Agent Code".
170 if SP_MEAS->SM_DATYPE1 = V: then (180): else "Inv. Dmg Agent Type".
180 PICK value from 'DATYPV' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 &
PUBLIC->C_RESULT_1: found (200): not found "Inv. Dmg Agent Code".
200 PUBLIC->N_RESULT_1:= 2.00.
205 PUBLIC->C_RESULT_1:= SUBstring PUBLIC->N_RESULT_1 characters of PUBLIC->C_RESULT_1 starting at
character 2.00.
210 SP_MEAS->SM_DASPEC1:= PUBLIC->C_RESULT_1.

```

SP_MEAS->SM_DASPEC2 Database Field #42

Prompt

Step	Validation Rule
0	2nd Damage Agent

Error Validation - Immediate

Step	Validation Rule
7	PUBLIC->x_RESULT_1:= SP_MEAS->SM_DATYPE2 + SP_MEAS->SM_DASPEC2.
10	if SP_MEAS->SM_DATYPE2 = A: then (20): else (30).

```

20  PICK value from 'DATYPA' set in PickList.dbf.  Seed from C_RESULT_1, result in C_RESULT_1 &
PUBLIC->C_RESULT_1:  found (200):  not found "Inv. Dmg Agent Code".
30  if SP_MEAS->SM_DATATYPE2 = C:  then (40):  else (50).
40  PICK value from 'DATYPC' set in PickList.dbf.  Seed from C_RESULT_1, result in C_RESULT_1 &
PUBLIC->C_RESULT_1:  found (200):  not found "Inv. Dmg Agent Code".
50  if SP_MEAS->SM_DATATYPE2 = D:  then (60):  else (70).

60  PICK value from 'DATYPD' set in PickList.dbf.  Seed from C_RESULT_1, result in C_RESULT_1 &
PUBLIC->C_RESULT_1:  found (200):  not found "Inv. Dmg Agent Code".
70  if SP_MEAS->SM_DATATYPE2 = I:  then (80):  else (90).
80  PICK value from 'DATYPI' set in PickList.dbf.  Seed from C_RESULT_1, result in C_RESULT_1 &
PUBLIC->C_RESULT_1:  found (200):  not found "Inv. Dmg Agent Code".
90  if SP_MEAS->SM_DATATYPE2 = M:  then (100):  else (110).
100 PICK value from 'DATYPM' set in PickList.dbf.  Seed from C_RESULT_1, result in C_RESULT_1 &
PUBLIC->C_RESULT_1:  found (200):  not found "Inv. Dmg Agent Code".
110 if SP_MEAS->SM_DATATYPE2 = N:  then (120):  else (130).
120 PICK value from 'DATYPN' set in PickList.dbf.  Seed from C_RESULT_1, result in C_RESULT_1 &
PUBLIC->C_RESULT_1:  found (200):  not found "Inv. Dmg Agent Code".
130 if SP_MEAS->SM_DATATYPE2 = P:  then (140):  else (150).
140 PICK value from 'DATYPP' set in PickList.dbf.  Seed from C_RESULT_1, result in C_RESULT_1 &
PUBLIC->C_RESULT_1:  found (200):  not found "Inv. Dmg Agent Code".
150 if SP_MEAS->SM_DATATYPE2 = T:  then (160):  else (170).
160 PICK value from 'DATYPT' set in PickList.dbf.  Seed from C_RESULT_1, result in C_RESULT_1 &
PUBLIC->C_RESULT_1:  found (200):  not found "Inv. Dmg Agent Code".
170 if SP_MEAS->SM_DATATYPE2 = V:  then (180):  else "Inv. Dmg Agent Type".
180 PICK value from 'DATYPV' set in PickList.dbf.  Seed from C_RESULT_1, result in C_RESULT_1 &
PUBLIC->C_RESULT_1:  found (200):  not found "Inv. Dmg Agent Code".
200 PUBLIC->N_RESULT_1:= 2.00.
205 PUBLIC->C_RESULT_1:= SUBstring PUBLIC->N_RESULT_1 characters of PUBLIC->C_RESULT_1 starting at
character 2.00.
210 SP_MEAS->SM_DASPEC2:= PUBLIC->C_RESULT_1.

```

Warning Validation - Immediate

```

Step  Validation Rule
10    if SP_MEAS->SM_DATATYPE2 $ 'DI':  then (20):  else OK.
20    if eMPTY(SP_MEAS->SM_DASPEC2):  then "Invalid Damage Agnt":  else OK.

```

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SP_MEAS->SM_DASVTY1 Database Field #21

Prompt

Step	Validation Rule
0	Damage Severity

Error Validation - Immediate

Step	Validation Rule
10	PUBLIC->N_RESULT_1:= numeric VALue of 3.00 characters of SP_MEAS->SM_DASVTY1.
20	if 1.00 <= PUBLIC->N_RESULT_1 <= 100.00: then (30): else "Must be 1 - 100%".
30	PUBLIC->C_RESULT_1:= STRing of 3.00 characters from PUBLIC->N_RESULT_1.
40	SP_MEAS->SM_DASVTY1:= PUBLIC->C_RESULT_1.

SP_MEAS->SM_DASVTY2 Database Field #43

Prompt

Step	Validation Rule
0	2nd Damage Severity

Error Validation - Immediate

Step	Validation Rule
10	PUBLIC->N_RESULT_1:= numeric VALue of 3.00 characters of SP_MEAS->SM_DASVTY2.
20	if 1.00 <= PUBLIC->N_RESULT_1 <= 100.00: then (30): else "Must be 1 - 100%".
30	PUBLIC->C_RESULT_1:= STRing of 3.00 characters from PUBLIC->N_RESULT_1.
40	SP_MEAS->SM_DASVTY2:= PUBLIC->C_RESULT_1.

SP_MEAS->SM_DATYPE1 Database Field #19

Prompt

Step	Validation Rule
0	Damage Agent

Error Validation - Immediate

Step	Validation Rule
10	PUBLIC->C_RESULT_1:= SP_MEAS->SM_DATYPE1.
30	PICK value from 'DATYP1' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 & SP_MEAS->SM_DATYPE1: found OK: not found "A,C,D,I,M,N,P,T,V".

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Validation Rules for Screen#125

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SP_MEAS->SM_DATYPE2 Database Field #41

Prompt

Step	Validation Rule
0	2nd Damage Type

Error Validation - Immediate

Step	Validation Rule
5	if eMPTy(SP_MEAS->SM_DATYPE1): then "Dmg Type 1 absent": else (10).
10	PUBLIC->C_RESULT_1:= SP_MEAS->SM_DATYPE2.
30	PICK value from 'DATYP2' set in PickList.dbf. Seed from C_RESULT_1, result in C_RESULT_1 & SP_MEAS->SM_DATYPE2: found OK: not found "A,C,D,I,M,N,P,T,V".

SP_MEAS->SM_DAYEAR1 Database Field #17

Prompt

Step	Validation Rule
0	Stand Disturb. Year

Error Validation - Immediate

Step	Validation Rule
10	PUBLIC->D_RESULT_1:= Today's Date.
20	PUBLIC->N_RESULT_1:= Current Year.
30	if SP_MEAS->SM_DAYEAR1 >= 1850.00: then (40): else (50).
40	if SP_MEAS->SM_DAYEAR1 <= PUBLIC->N_RESULT_1: then OK: else "0 or 1850 - Present".
50	if SP_MEAS->SM_DAYEAR1 = 0.00: then OK: else "0 or 1850 - Present".

SP_MEAS->SM_DAYEAR2 Database Field #40

Prompt

Step	Validation Rule
0	2nd stand dist year

Error Validation - Immediate

Step	Validation Rule
10	PUBLIC->D_RESULT_1:= Today's Date.
20	PUBLIC->N_RESULT_1:= Current Year.
30	if SP_MEAS->SM_DAYEAR2 >= 1850.00: then (40): else (50).
40	if SP_MEAS->SM_DAYEAR2 <= PUBLIC->N_RESULT_1: then OK: else "0 or 1850 - Present".
50	if SP_MEAS->SM_DAYEAR2 = 0.00: then OK: else "0 or 1850 - Present".

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SP_MEAS->SM_DISDIST Database Field #39

Prompt

Step	Validation Rule
0	Plt Bdry to Disturb

Error Validation - Immediate

Step	Validation Rule
10	if SP_MEAS->SM_DISDIST > 0.00: then OK: else "Must be > 0".

Warning Validation - Immediate

Step	Validation Rule
10	if SP_MEAS->SM_DISDIST <= 100.00: then OK: else "Should not be > 100".

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TR_MEAS->TM_CLASS Database Field #15

Prompt

Step	Validation Rule
0	Tree Class

Error Validation - Immediate

Step	Validation Rule
10	if 1.00 <= TR_MEAS->TM_CLASS <= 6.00: then (13): else "Tree Class 1 - 6".
13	if TR_MEAS->TM_CLASS = 6.00: then (17): else (20).
17	if PUBLIC->PREV_MEAS: then (20): else "TC 6 invalid @Estab".
20	if PUBLIC->SA_TYPE = M: then (30): else OK.
30	if TR_MEAS->TM_CLASS != 5.00: then OK: else "Invalid for M Sampl".
40	if TR_MEAS->TM_CLASS \$ '346': then (50): else OK.
50	if TR_MEAS->TM_CROWN = 0.00: then (60): else "CrwnClss must be 0".
60	if TR_MEAS->TM_LC_LEN = 0.00: then OK: else "LC% must be 0".

Warning Validation - Immediate

```

Step   Validation Rule
10     if PUBLIC->PREV_MEAS: then (20): else (100).
20     if case PREV->TM_CLASS $ 1,2,3,4,5,6: then (30): else "Tree Class 1 - 6".
30.1   . case PREV->TM_CLASS = 1:- if TR_MEAS->TM_CLASS $ '12346': then OK: else "Val. T.C.
      1234or6".
30.2   . case PREV->TM_CLASS = 2:- if TR_MEAS->TM_CLASS $ '2346': then OK: else "Val. T.C. 234 or
      6".
30.3   . case PREV->TM_CLASS = 3:- if TR_MEAS->TM_CLASS $ '346': then OK: else "TC 3/4 to 1/2/5".
30.4   . case PREV->TM_CLASS = 4:- if TR_MEAS->TM_CLASS $ '46': then OK: else (50).
30.5   . case PREV->TM_CLASS = 5:- if 3.00 <= TR_MEAS->TM_CLASS <= 6.00: then OK: else "Val. T.C.
      345 or 6".
30.6   . case PREV->TM_CLASS = 6:- if TR_MEAS->TM_CLASS = 0.00: then OK: else "Val. T.C. 0".
50     if TR_MEAS->TM_CLASS $ '125': then "TC 3/4 to 1/2/5": else "TC 4 to 3".
100    if TR_MEAS->TM_CLASS $ '34': then (110): else OK.
110    if SAMPLE->SA_D13 = Y: then (120): else (130).
120    if TR_MEAS->TM_DBH1_3 < 10.00: then "Dead Tree < 10cm": else OK.
130    if SAMPLE->SA_D137 = Y: then (140): else OK.
140    if TR_MEAS->TM_DIA1_37 < 10.00: then "Dead Tree < 10cm": else OK.

```

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TREE->TR_TREE_NO Database Field #3

Prompt

```

Step   Validation Rule
0     Tree Number

```

Warning Validation - Immediate

```

Step   Validation Rule
10     No OPERATION.

```

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DT_TALLY->TR_TREE_NO Database Field #3
Error Validation - Immediate

Step	Validation Rule
10	if DT_TALLY->TR_TREE_NO > 0.00: then OK: else "Must be > 0".

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PUBLIC->L_RESULT_1 Database Field #21

Prompt

Step	Validation Rule
0	Broken Top (Y/N)?

Error Validation - Immediate

Step	Validation Rule
10	if PUBLIC->L_RESULT_1: then OK: else OK.

TR_MEAS->TM_CNDTN Database Field #34

Prompt

Step	Validation Rule
0	(S)tanding or(D)own

Error Validation - Immediate

Step	Validation Rule
3	if PUBLIC->PREV_SAMPL: then (10): else (6).
6	if TR_MEAS->TM_CNDTN = S : then OK: else "Must be S for Estab".
10	if TR_MEAS->TM_CNDTN \$ 'SD': then OK: else "Must be S or D".

TR_MEAS->TM_DTDNPOS Database Field #105

Prompt

Step	Validation Rule
0	(S)upported(G)round

Error Validation - Immediate

Step	Validation Rule
10	if TR_MEAS->TM_DTDNPOS \$ 'SG': then OK: else "Mustbe(S)upp.(G)rnd".

TR_MEAS->TM_DTNOCRT Database Field #102

Prompt

Step	Validation Rule
0	No. Certainty (1-3)

Error Validation - Immediate

Step	Validation Rule
10	if 1.00 <= TR_MEAS->TM_DTNOCRT <= 3.00: then OK: else "Must be 1 - 3".

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TR_MEAS->TM_DTSPCRT Database Field #103

Prompt

Step	Validation Rule
0	Spc Certainty (1-3)

Error Validation - Immediate

Step	Validation Rule
10	if 1.00 <= TR_MEAS->TM_DTSPCRT <= 3.00: then OK: else "Must be 1 - 3".

TR_MEAS->TM_DTSTUMP Database Field #118

Prompt

Step	Validation Rule
0	Dead Tree Stump(YN)

Error Validation - Immediate

Step	Validation Rule
10	if TR_MEAS->TM_DTSTUMP \$ 'YN': then OK: else "Must be Y or N".

TR_MEAS->TM_DTWLIFE Database Field #104

Prompt

Step	Validation Rule
0	Wildlife Appear 1-7

Error Validation - Immediate

Step	Validation Rule
10	if 1.00 <= TR_MEAS->TM_DTWLIFE <= 7.00: then OK: else "Must be 1 - 7".

TR_MEAS->TM_HT_BRK Database Field #71

Prompt

Step	Validation Rule
0	Height to Break(m)

Warning Validation - Immediate

Step	Validation Rule
5	if TR_MEAS->TM_HT_BRK < 1.30: then "Should be >= 1.3m": else (60).
60	if TR_MEAS->TM_HT_BRK = 0.00: then OK: else (70).
70	PUBLIC->NVAR_CUR:= TR_MEAS->TM_DIA1_37.
80	if TR_MEAS->TM_DBH1_3 = 0.00: then (100): else (90).

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```
90 PUBLIC->NVAR_CUR:= TR_MEAS->TM_DBH1_3.
100 PUBLIC->NVAR_PRV:= 1.75.
110 if PUBLIC->NVAR_CUR > 20.00: then (120): else (130).
120 PUBLIC->NVAR_PRV:= 1.25.
130 if PUBLIC->NVAR_CUR > 40.00: then (140): else (150).
140 PUBLIC->NVAR_PRV:= 1.00.
150 if PUBLIC->NVAR_CUR > 60.00: then (160): else (170).
160 PUBLIC->NVAR_PRV:= 0.75.
170 if PUBLIC->NVAR_CUR > 100.00: then (180): else (190).
180 PUBLIC->NVAR_PRV:= 0.50.
190 PUBLIC->x_RESULT_1:= PUBLIC->NVAR_PRV * PUBLIC->NVAR_CUR.
200 if TR_MEAS->TM_HT_BRK > PUBLIC->N_RESULT_1: then "Brk TooHigh for DBH": else OK.
```

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GROUP->GR_GROUP Database Field #4

Prompt

Step	Validation Rule
0	Group Number

Warning Validation - Immediate

Step	Validation Rule
10	No OPERATION.

SAMPLE->SA_GRP_SEC Database Field #49

Prompt

Step	Validation Rule
0	(F)ixed/(V)ariable?

Warning Validation - Immediate

Step	Validation Rule
10	No OPERATION.

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TR_MEAS->TM_LAYER Database Field #13

Prompt

Step	Validation Rule
0	Layer

Warning Validation - Immediate

Step	Validation Rule
10	No OPeration.

