

UFST Data Dictionary Suggestions¹

Two features are created for risk assessment in these dictionaries. The first for street trees (**RiskStrt**) and the second for park or campus trees (**RiskPark**). The biggest change from the New Kent training is the disassociation of the 'risk treatment' attribute from the 'disaster (debris) treatment'. I'm not certain of the paint marking that we'll use in the field for this dictionary; that will have to be developed.

Except for the prompt for address in the **RiskStrt** feature, all other attributes are the same.

Reddish cells are risk assessment attributes (used to create a risk treatment) independent of the disaster assessment (but should include disaster damage appropriate for the risk assessment). The **light yellow** cell is based solely on the disaster damage.

Modification #1

Attribute ²	Comments
Address	Text data entry for the numeric address on the street; only used in the RiskStrt .
Genus	Drop-down list created by Team Leader during pre-team visit with state U&CF Coordinator and/or community. May also include species if appropriate. Acer Celtis Fraxinus Lagerstroemia Other ... Pinus Platanus Quercus Ulmus
DBH	2" diameter classes are sufficient; may be implemented as a drop-down or numeric data entry. Defaults to 0"
Target	The basic risk assessment series; target can be 0-4 (or optionally 0-3 if using the USDA FS revised methodology). Drop-down selection list. 0 (Never) 1 (Infrequent) 2 (Occasional) 3 (Frequent) 4 (Always)
Size (of part)	The basic risk assessment series; size can be 0-4 (or optionally 0-3 if using the USDA FS revised methodology). Drop-down selection list. 0 (None) 1 (<8") 2 (8-18") 3 (17-24") 4 (>24")
Probability (of failure)	The basic risk assessment series; probability can be 0-4. Drop-down selection list. 0 (Never) 1 (Low) 2 (Possible) 3 (Likely) 4 (Move Quickly)
Risk Treatment	Based on the TSP just assigned; this is a drop-down list of arborist recommendations. Drop-down selection: No Action Prune (Hazard) Prune (Other) Remove (Hazard) Reinspect (Immediate) Reinspect (Routine)
Disaster (Related) Treatment	Based on FEMA debris standards (FEMA 325) and discussions with FEMA and/community during pre-team visit. Drop-down selection: Non-FEMA Prune (≥2" Limbs) Remove (≥50% Crown Loss) Remove (Heartwood Exposed) Remove (30° Lean) Remove (Other)
Field Notes	Text data entry; 24 characters.

¹ Following Friday's training close-out discussion at New Kent (liability issues).

² The dictionary will also contain date or date/time, and crew identification.

Modification #2

Light yellow cells are selections based solely on the disaster damage and create the "disaster treatment".

Attribute	Comments
Address	Text data entry for the numeric address on the street; only used in the RiskStrt .
Genus	Drop-down list created by Team Leader during pre-team visit with state U&CF Coordinator and/or community. May also include species. Acer Celtis Fraxinus Lagerstroemia Other ... Pinus Platanus Quercus Ulmus
DBH	2" diameter classes are sufficient; may be implemented as a drop-down or numeric data entry. Defaults to 0"
Target	The basic risk assessment series; target can be 0-4 (or optionally 0-3 if using the USDA FS revised methodology). Drop-down selection list. 0 (Never) 1 (Infrequent) 2 (Occasional) 3 (Frequent) 4 (Always)
Size (of part)	The basic risk assessment series; size can be 0-4 (or optionally 0-3 if using the USDA FS revised methodology). Drop-down selection list. 0 (None) 1 (<8") 2 (8-18") 3 (17-24") 4 (>24")
Probability (of failure)	The basic risk assessment series; probability can be 0-4. Drop-down selection list. 0 (Never) 1 (Low) 2 (Possible) 3 (Likely) 4 (Move Quickly)
Risk Treatment	Based on the TSP just assigned; this is a drop-down list of arborist recommendations. Drop-down selection: No Action Prune (Hazard) Prune (Other) Remove (Hazard) Reinspect (Immediate) Reinspect (Routine)
Crown Damage (Loss)	Used to determine FEMA debris eligibility. Drop-down selection: None Minor (≤20%) Moderate (21-40%) Heavy (41-50%) Major (51-70%) Catastrophic (71-90%) Complete (>90%)
Limb Damage	Used to determine FEMA debris eligibility. Evaluate the largest damaged limb in the crown. Drop-down selection: None <2" dia @ Break ≥2" dia & Attached ≥2" dia & Un-attached (Hanger)
Number of Limbs	[Optionally] Enter the number of limbs ≥2" diameter @ break.
Trunk (or Structural Limb) Damage	Used to determine FEMA debris eligibility. Drop-down selection: None Crack with Heartwood Exposed Crack no Heartwood Exposed
Tree Lean	Used to determine FEMA debris eligibility. Drop-down selection: None Lean <10° Lean 11-30° Lean >30°
Root Damage	Used to determine FEMA debris eligibility. Drop-down selection: None Plate Lifted Roots >50% Exposed
Field Notes	Text data entry; 24 characters.

Additional data dictionary specifications

Attributes will also be included for:

- Date (in the format yyyyymmdd)
- Time (in 24 hour format)
- UnitCrew Text; 10 characters (in the format RrTUCcCcCc)
Rr= two character regional code; currently SO (NA)
T = single digit IT toolbox number from the region (1 or 2)
U = single digit GPS unit for the toolbox (1-6)
Cc or
Ccc = two or three character initials of the crew members

Note: All of these attributes are automatically filled when the feature (i.e. tree) is logged.

Other GPS Settings:

- Minimum positions for an attribute = 16 (epochs)
- Lat/long is logged at 1 second intervals

Incident Limitations:

Once data collection has begun for an incident, attribute characteristics and selections (i.e. drop-down menu items) must not change with the exception of genus and/or species names. The Team Leaders pre-crew test of GPS equipment (Item #8, Deployment Checklist) should resolve any issues with data collection before crew assessments begin.