

UFST Data Dictionary: Fayetteville, Arkansas

Two features are created for risk assessment in this GPS dictionary. The first for street trees (**RiskStrt**) and the second for park or campus trees (**RiskPark**). Except for the prompt for address in the **RiskStrt** feature, all other attributes are the same. There is a separate feature type for **Stumps**.

Reddish cells are risk assessment attributes (used to create a risk management treatment; Risk_Mgt) 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**.

Attribute Prompt in SOLOforest	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 be common or Latin; if common and including species, place genus common name first for better sorting (e.g. Oak, white; Maple, red). May also include species if appropriate. Acer Celtis Fraxinus Lagerstroemia Other ... Pinus Platanus Quercus Ulmus <div style="text-align: center; color: red; font-weight: bold;"> This list is specific to each response & city. </div>
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)
SizePart	The basic risk assessment series; size of part can be 0-4. Drop-down selection list. 0 (None) 1 (<8") 2 (8-18") 3 (18-24") 4 (>24")
ProbFail	The basic risk assessment series; probability of failure can be 0-4. Drop-down selection list. 0 (Never) 1 (Low) 2 (Possible) 3 (Likely) 4 (Move Quickly)
Risk_Mgt	Based on the TSP just assigned; this is a drop-down list of arborist recommendations. Drop-down selection: No Action Prune (Hazard) Remove (Hazard) Reinspect (Immediate) Reinspect (Routine)
FEMA_Mgt	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) Remove (30° Lean) Remove (Other)
Hangers	Number of FEMA attached limbs >2" diameter at break. Make a quick (and fairly accurate) count or estimate: 0 1 2-4 5+
Public	Indicate ownership of the tree. Yes No Unknown
TeamCrew	For the first tree in each file , enter the Team and Crew number in the standard format: TxCx (e.g. T1C1)
FieldNotes	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)

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

Other GPS Settings:

- Minimum positions for an attribute = 21 (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.

Evaluation Notes & Hints

For Risk-Mgt...

- If a tree is marked as a **Prune (Hazard)** it is assumed that it will be pruned properly and WILL NOT need restoration pruning.
- Reinspections are reserved (primarily) for a local or second opinion for risk.
- **No Action** is used here when there is no risk; however, there would be a FEMA debris selection or else you wouldn't be standing in front of the tree with the GPS unit collecting data!

For FEMA-Mgt...

- **Prune (>2" Limbs)** assumes that a restoration pruning WILL be required.
- **Non-FEMA** is used when the storm damage doesn't meet current FEMA criteria; however, there would be a risk management selection or else you wouldn't be standing in front of the tree with the GPS unit collecting data!

Also see **Suggested Evaluation Sequence** that follows.

Field Painting

Only trees with either a prune or remove for **FEMA-Mgt** will be painted:

- Prune (>2" Limbs) 2" white dot on trunk at DBH; also white dot at edge of pavement
- Remove (any) 2" orange dot on trunk at DBH; also orange dot at edge of pavement

Note: City arborist/community may opt to NOT paint privately owned trees; use only a pavement mark in these situations. Discuss during training with community and Team Leader.

Remember

FEMA is a debris management organization; we are the professional arborists. Our evaluations can provide important data to help the community and FEMA deal with the storm debris & public safety.

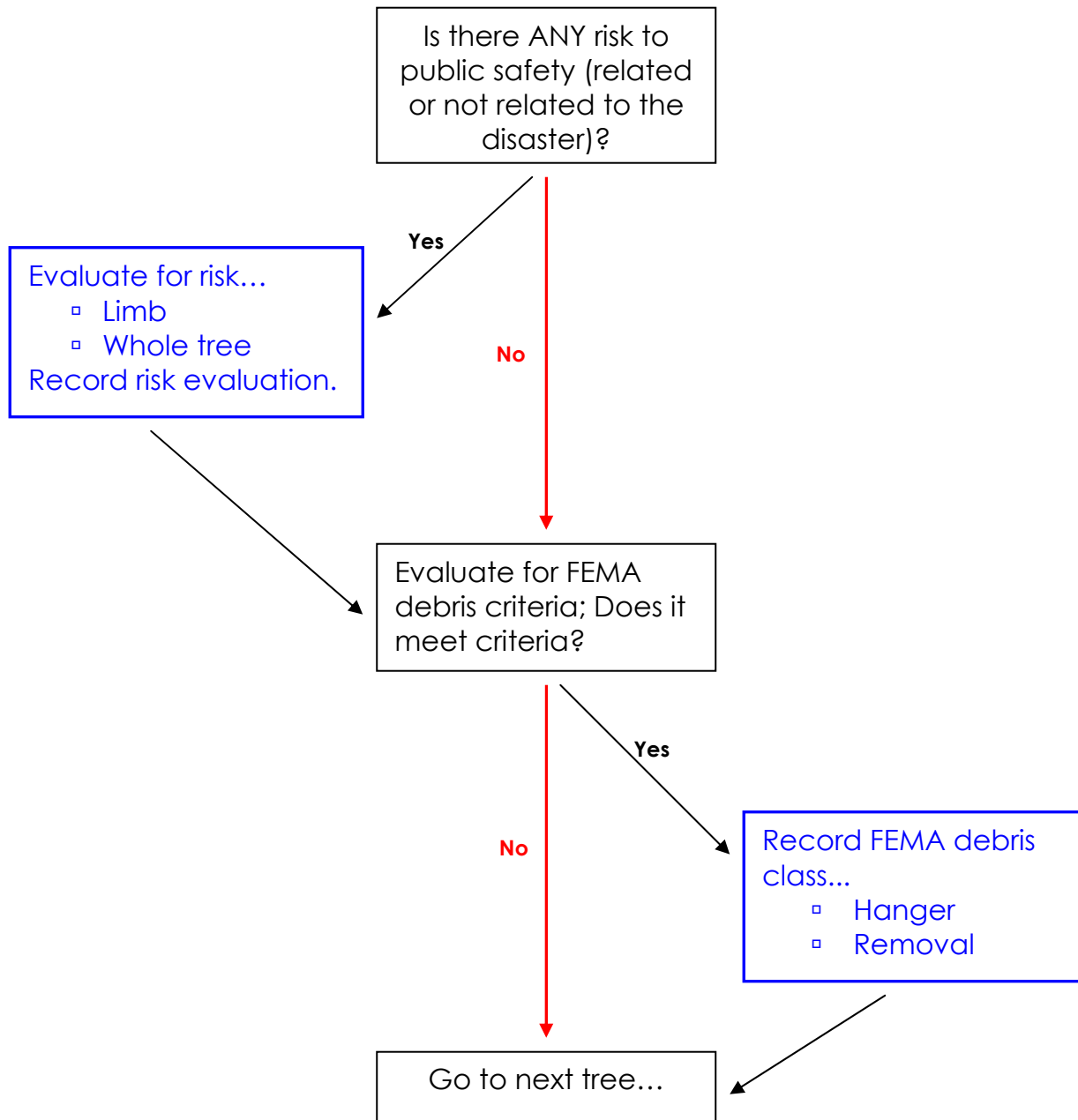
A FEMA "hanger" is an ATTACHED limb greater than 2" at the point of the break.

An unattached limb still "hanging" in the crown is ground debris NOT a "hanger"; FEMA will pay for the removal of this as ground debris but will NOT pay to get it out of the crown (they assume it will fall).

If tree damage does not exceed the threshold for a FEMA "hanger" or a FEMA removal, then the damage is of no concern (to FEMA); these are trees that some level of risk to public safety and can be recorded (but not painted) for the local urban forest manager.

Suggested Evaluation Sequence

As you approach each tree in the area of interest (e.g. street ROW, park, or campus):



Blue boxes result in the capture of a GPS point (tree)