Town of Dayton
Risk Tree Management Plan In- Season Evaluation: Fall 2016

Prepared by Ranger Services Inc. December 2016

The Town of Dayton lies in a rich natural resource area of forests, lakes and fields. This resource base gives the Town its identifiable character and rural environmental appeal. This creates the situation where trees, forests and people are required to share the same space.

A Risk Tree Management Plan provides a strategy to enable people and trees to share the same space while providing public safety along the Towns Rights-of-Ways (ROW). Its recommendations are focused on public safety and protecting the tree/forested environment. An initial 5-year Management Plan was developed by Ranger Services Inc. Appleton, Wisconsin with data collected early in 2016. This plan was updated when the trees were inspected during the growing season when the leaves were on the trees**. This is a summary of the updated tree inspections.**

This plan should now be updated once per year, with inspections occurring in during the "leaf on "stage. Originally it was believed that a twice per year inspection would be necessary however the detail of the data collection and subsequent action by implementing the plan by the Town of Dayton allows for a once per year update to occur unless unforeseen events i.e. storm damage, insect/disease infection etc. occurs.

To be a risk tree or for a risk tree condition to exist several criteria must be present;

1. A whole tree or part of a tree that is structurally defective
2. A likelihood to fail under normal conditions (failure under extreme conditions i.e. tornados, do not constitute risk trees or risk conditions)
3. A target; the failing portion of the tree must have the likelihood or potential of hitting or landing on something and cause undesirable damage or threat of injury. A dead tree in the woods is not a risk tree because it does not have a target to hit, (these are Environmental Trees)

Tree removal is the necessary action for a high-risk tree

Tree pruning is the necessary action for a tree risk condition

Methods/ Data

Data on the Rights-of-Way (ROW) trees was collected on all Town of Dayton roads by conduction a re-inspection of the trees during the "leaf-on" stage in the summer and fall of 2016. Trees were evaluated by degreed and Certified Arborists of Ranger Services Inc. The following data was up dated on risk trees and risk conditions in trees.

- **Tree number**: each tree is assigned a tree number. It is not a significant number but only used for tallying purposes
- **Site/location**: the of the tree location is listed.
- **Species**: tree species.
- **Trunk diameter**: listed as DBH, (diameter at breast height is measured in inches at 4.5 ft. It is a universal forestry measurement). Diameters are listed in classes: 1-5 inches, 6-10", 11-15" etc.
- **Size of defective part**: either whole tree or DW (deadwood) if only branches and diameter of the branches is listed
- **Probability of Target**: likelihood of the tree to hit the target in the area. High - Medium- Low rating.
- **Probability of Failure rating**: how likely is the tree or part to fail. High -Medium-Low rating
- **Description**: any specifics regarding the tree.
- **Recommended action**: remove or prune.
- **Risk rating**: High-Medium-Low rating
- **Priority;** 5-year removal/abatement plan: #1 = first year of action, #2 = 2-3 years of action, #3= 4-5 years of action.
- **Estimate plan budgets**; hourly estimate to complete *****
- **Other factors**: miscellaneous comments

*****Note: estimated hours may vary considerably based on numerous factors i.e. contractor, Town personal, degree of clean up, equipment used etc. This number is provided but having a contractor (if used) provide an estimated bid is recommended

Evaluation

The new data was added into the original data and presented to the Town of Dayton in one report prior to their beginning tree work. Trees were also marked by Ranger Services Arborists and included on a map of the Town of Dayton. The new data is listed in the following table but has been incorporated already into the master listing.

When circumstances require schedules and budgets to be extended the Failure rating of High – Medium-Low and then the Target rating of High-Medium-Low should be used as criteria. Example: if all the trees planned during a year are not able to be completed in that year, the trees with a Failure and Target rating both of High should receive first attention. Next would be trees with a Failure rating of High and a Target rating of Medium, etc.

Summary Updated Data Fall 2016 (new trees only)

	Priority 1 (first year)	Priority 2 (2-3 year)	Priority 3 (3-4 year)
# of trees/stops (multiple trees may be at one location on occasion)	9	2	0
*Estimated Costs	$6,000	$2,000	0

*Note: estimated hours may vary considerably based on numerous factors i.e. contractor, Town personal, degree of clean up, equipment used etc. This number is provided but having a contractor (if used) provide an estimated bid is recommended.

Table 1 Updated Data Fall 2016 Pruning and Removals

#	Location	Species	DBH	Size Defect	Target	Failure	Description	Action	Risk	Priority	Budget (Work Hours)
135	Smith Rd South of Newman	Elm	11-15	Whole Tree	High	Med	Dead Tree	Remove	High	1	2.5
136	Spencer lake & Olive Dale	Oak	16-20	Whole Tree	High	Med	Dead Tree	remove	Med	2	9
137	Olive Dale Ln 1946	Oak	11-15	Whole Tree	High	High	Dead Tree	remove	High	1	3
138	Olive Dale Ln 1946	Oak	26-30	Whole Tree	High	High	Dead Tree	remove	High	1	9
139	Corner of main & Rural	Elm	16-20	Whole Tree	High	High	Dead Tree	remove	High	1	9
140	2046 Cleghorn Rd East side	Oak	21-25	Whole Tree	High	High	Dead Tree	remove	Med	1	20
141	n1407 East Rd	Oak	21-25	Whole Tree	High	High	Dead Tree	remove	Med	1	10
142	Jensen Rd south of Radley west side	Oak	26-30	Whole Tree	High	Med	Dead Tree	remove	Med	1	20
143	corner of crystal lake & East	Elm	26-30	Whole Tree	High	Med	Dead Tree	remove	Med	2	10
144	E611 Suhs Rd northside	Oak	11-15	Whole Tree	High	High	Dead Tree	remove	High	1	10
145	Mynard Rd by field	Oak	26-30	Whole Tree	High	Med	Dead Tree	remove	High	1	9