

Microclimate Deployment Decision Tree

4/5/10

The following decision tree will guide whether to deploy logtag devices and how many at a given FIA plot.

- 1) Is FIA plot located on non-reserved public land with no impediments (such as permit required, permission to cross private land required, etc..) to access the plot? In New Mexico only, is plot a panel 2010 plot? In Nevada only, is plot a panel 2008 plot?
Yes – go to 2
No – do not deploy logtag device
- 2) Is the FIA plot less than 1 hour walk from truck parking location?
Yes – go to 3
No – do not deploy logtag device
- 3) Is there greater than 300 vertical feet change in elevation from truck parking location to FIA plot?
Yes – go to 4
No – place 1 logtag device just outside of the FIA plot
- 4) Is there greater than 300 but less than 600 vertical feet change in elevation from truck parking location to FIA plot?
Yes– place 1 logtag ~50 yards away from parking location along the route to the FIA plot and 1 just outside the FIA plot
No – go to 5
- 5) Is there greater than 600 vertical feet from truck parking location to FIA plot?
Yes – place a total of 3 logtags (including FIA plot): 1 logtag ~50m away from parking location along the route to the FIA plot, 1 logtag ½ the vertical distance to the plot, and 1 logtag just outside the FIA plot. Preferred location of additional logtag deployment is in valley bottom, and locations that maximize relative differences in elevation (e.g. valley bottom to hilltop).
No – install logtag devices as instructed above

FINAL CRITERIA DETERMINING WHETHER SENSOR SHOULD BE DEPLOYED

1. If a field plot (forested or ACI) is not installed, do not deploy any logtags
2. If there is no vegetation greater than 8 ft tall present at a plot, or at sites on the way to plot where a sensor would be deployed based on the criteria above, do not deploy logtag.
3. If vegetation (e.g. mesquite, PJ, PIPO, etc) greater than 8 feet high is present on a plot, place the shield/sensor within that vegetation. Try to maximize the shading the sensor will receive.

On the microclimate data form, note if logtags are located at each of the three potential locations

- 1) Just outside FIA plot,
- 2) 150 ft away from parking location along route to the FIA plot,
- 3) Half-way from parking location to FIA plot.

Using a permanent marker, record State, County, Location codes on each logtag being deployed. When you are deploying a logtag just outside the FIA plot (location 1), place it on the north side of the largest diameter tree that is between 24 and 90 feet away from the center of the FIA plot, and that is not tallied on any subplot. Hang it at breast height by a wire tied to an aluminum nail. For locations 2 and 3 write down GPS coordinates based on an average of at least 80 fixes. For 1 – 3 write down the description of where the logtag is placed. If placed just outside the FIA plot, write down the distance and direction in degrees from the center of the FIA plot, as well as the species and diameter of the tree to which it is attached. If placed at 2 or 3, write down the species and diameter of the tree to which it is attached, and its distance and direction in degrees from any notable landmark, and a description of that landmark (e.g. 45 ft at 123 degrees from large ponderosa pine snag).

Microclimate Sensor Deployment

FIA Plot: State #:_____ **County #:**_____ **Location #:**_____

1) Plot Location Sensor Logtag S/N_____

Species_____ Diameter_____ AZ_____ Distance_____

Comment_____

2) Parking Location Sensor Deployed?_____ Logtag S/N_____

Species_____ Diameter_____ Comment_____

ZONE_____ EASTING_____ NORTHING_____

3) "Half-way" Sensor Deployed?_____ Logtag S/N_____

Species_____ Diameter_____ Comment_____

ZONE_____ EASTING_____ NORTHING_____