Appendix F – Calibration Documentation

Documented Calibration Exercise
Name_____
Date_____
Site_____
Application Method_____

1) Dimensions of test plot _____

2) Time required to spray test plot _____

3) Amount of water sprayed _____

4) Rate of application for test plot _____ gal/ac

5) Herbicide _____

6) Amount of herbicide to be added _____ oz/gal

7) Application rate of herbicide _____ pt/ac

Remarks:

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Remarks:

Procedure for Calibration

1) Measure an area 18.5 ft. by 18.5 ft. in the target application area.
2) Spray the measured area uniformly with **water** only (or water and dye) while recording the precise amount of time required to cover the area.
3) Measure the amount of water applied to the test area by spraying into a container for the same amount of time.
4) The amount of water collected in fl. oz. equals spray volume in gallons per acre.
5) Refer to herbicide label or appropriate treatment prescription for desired herbicide application rate (i.e. pts. / ac.).
6) Calculate amount of herbicide to mix per gal of water.
7)

$$\frac{\text{amt chem}}{\text{ac}} \times \frac{\text{gal water}}{\text{ac}} \quad \textbf{i.e.} \quad \frac{2 \text{ pts chem (from label)}}{\text{ac}} \times \frac{20 \text{ gal water (from test)}}{\text{ac}}$$

Equals:

$$\frac{\text{amt of chem}}{\text{amt of water}} \quad \textbf{i.e.} \quad \frac{2 \text{ pts chem}}{20 \text{ gal water}} = \frac{0.1 \text{ pt chem}}{\text{gal water}} \times 16 \text{ oz/pt} = \frac{1.6 \text{ oz chem}}{\text{gal water}}$$