## Exercise 2: Vegetation Surveys

## Exercise 2A: $50 \times 2-M$ Band Transects

## Location: <br> Date:

Group Data

| Dbh size class: | $T 1$ <br> $(10-20 \mathrm{~cm})$ | T2 <br> $(20-30 \mathrm{~cm})$ | $T 3$ <br> $(30-40 \mathrm{~cm})$ | T4 <br> $(40-50 \mathrm{~cm})$ | $T 5$ <br> $(50-60 \mathrm{~cm})$ | T6 <br> $(>60 \mathrm{~cm})$ |
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| \# hardwoods: |  |  |  |  |  |  |
| \# softwoods: |  |  |  |  |  |  |

Class Data

| Dbh size class: | T1 <br> $(10-20 \mathrm{~cm})$ | T2 <br> $(20-30 \mathrm{~cm})$ | T3 <br> $(30-40 \mathrm{~cm})$ | T4 <br> $(40-50 \mathrm{~cm})$ | T5 <br> $(50-60 \mathrm{~cm})$ | T6 <br> $(>60 \mathrm{~cm})$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| \# hardwoods: |  |  |  |  |  |  |
| \# softwoods: |  |  |  |  |  |  |

Refer to Scientific Investigation: Exercise 1B - Experimental Design Applied and Exercise 1C - Statistical Analysis. Prepare a histogram of the class dbh-size class data for both hardwoods and softwoods. Remember to include an appropriate descriptive title, scale, and axis labels.

Figure 1.1:

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## Exercise 2B: $50 \times 0.5-M$-interval Point-Intercept Transects

Location:
Date:
Group Field Data

| Transect Point: | $\begin{aligned} & 0.5 \\ & \text { M } \end{aligned}$ | $\begin{gathered} 1.0 \\ \mathrm{M} \end{gathered}$ | $\begin{aligned} & 1.5 \\ & \mathrm{M} \end{aligned}$ | $\begin{gathered} 2.0 \\ M \end{gathered}$ | $\begin{aligned} & 2.5 \\ & \mathrm{M} \end{aligned}$ | $\begin{gathered} 3.0 \\ \mathrm{M} \end{gathered}$ | $\begin{gathered} 3.5 \\ M \end{gathered}$ | $\begin{gathered} 4.0 \\ M \end{gathered}$ | $\begin{gathered} 4.5 \\ \text { M } \end{gathered}$ | $\begin{gathered} 5.0 \\ \text { M } \end{gathered}$ | $\begin{gathered} 5.5 \\ \text { M } \end{gathered}$ | $\begin{gathered} 6.0 \\ M \end{gathered}$ | $\begin{aligned} & 6.5 \\ & M \end{aligned}$ | $\begin{gathered} 7.0 \\ M \end{gathered}$ | $\begin{gathered} 7.5 \\ \mathrm{M} \end{gathered}$ | $\begin{gathered} 8.0 \\ M \end{gathered}$ | $\begin{gathered} 8.5 \\ M \end{gathered}$ | $\begin{gathered} 9.0 \\ \mathrm{M} \end{gathered}$ | $\begin{aligned} & 9.5 \\ & \mathrm{M} \end{aligned}$ | $\begin{gathered} 10.0 \\ M \end{gathered}$ |
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| Grass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Forb |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Shrub |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Tree |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Transect Point: | $\begin{gathered} 10.5 \\ \mathrm{M} \\ \hline \end{gathered}$ | $\begin{gathered} 11.0 \\ \text { M } \end{gathered}$ | $\begin{gathered} 11.5 \\ \mathrm{M} \\ \hline \end{gathered}$ | $\begin{gathered} 12.0 \\ \mathrm{M} \\ \hline \end{gathered}$ | $\begin{gathered} 12.5 \\ \mathrm{M} \\ \hline \end{gathered}$ | $\begin{gathered} 13.0 \\ M \\ \hline \end{gathered}$ | $\begin{gathered} 13.5 \\ M \end{gathered}$ | $\begin{gathered} 14.0 \\ \text { M } \\ \hline \end{gathered}$ | $\begin{gathered} 14.5 \\ \mathrm{M} \\ \hline \end{gathered}$ | $\begin{gathered} 15.0 \\ \mathrm{M} \\ \hline \end{gathered}$ | $\begin{gathered} 15.5 \\ \mathrm{M} \\ \hline \end{gathered}$ | $\begin{gathered} 16.0 \\ M \\ \hline \end{gathered}$ | $\begin{gathered} 16.5 \\ M \end{gathered}$ | $\begin{gathered} 17.0 \\ \mathrm{M} \\ \hline \end{gathered}$ | $\begin{gathered} 17.5 \\ \mathrm{M} \\ \hline \end{gathered}$ | $\begin{gathered} 18.0 \\ \mathrm{M} \\ \hline \end{gathered}$ | $\begin{gathered} 18.5 \\ \mathrm{M} \\ \hline \end{gathered}$ | $\begin{gathered} 19.0 \\ \text { M } \\ \hline \end{gathered}$ | $\begin{gathered} 19.5 \\ M \end{gathered}$ | $\begin{gathered} 20.0 \\ M \end{gathered}$ |
| Grass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Forb |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Shrub |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Tree |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| Transect Point: | $\begin{gathered} 20.5 \\ M \end{gathered}$ | $\begin{gathered} \hline 21.0 \\ \text { M } \end{gathered}$ | $\begin{gathered} 21.5 \\ M \end{gathered}$ | $\begin{gathered} 22.0 \\ \text { M } \end{gathered}$ | $\begin{gathered} \hline 22.5 \\ \mathrm{M} \end{gathered}$ | $\begin{gathered} 23.0 \\ M \end{gathered}$ | $\begin{gathered} 23.5 \\ \text { M } \end{gathered}$ | $\begin{gathered} 24.0 \\ \text { M } \end{gathered}$ | $\begin{gathered} 24.5 \\ \text { M } \end{gathered}$ | $\begin{gathered} 25.0 \\ \text { M } \end{gathered}$ | $\begin{gathered} 25.5 \\ M \end{gathered}$ | $\begin{gathered} 26.0 \\ M \end{gathered}$ | $\begin{gathered} 26.5 \\ M \end{gathered}$ | $\begin{gathered} 27.0 \\ M \end{gathered}$ | $\begin{gathered} 27.5 \\ \mathrm{M} \\ \hline \end{gathered}$ | $\begin{gathered} 28.0 \\ M \end{gathered}$ | $\begin{gathered} 28.5 \\ M \end{gathered}$ | $\begin{gathered} 29.0 \\ \text { M } \end{gathered}$ | $\begin{gathered} 29.5 \\ M \end{gathered}$ | $\begin{gathered} 30.0 \\ M \end{gathered}$ |
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| Grass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Forb |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Shrub |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Tree |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| Transect Point: | $\begin{gathered} 30.5 \\ \mathrm{M} \\ \hline \end{gathered}$ | $\begin{gathered} \hline 31.0 \\ \text { M } \\ \hline \end{gathered}$ | $\begin{gathered} 31.5 \\ \mathrm{M} \\ \hline \end{gathered}$ | $\begin{gathered} 32.0 \\ \mathrm{M} \\ \hline \end{gathered}$ | $\begin{gathered} 32.5 \\ \mathrm{M} \end{gathered}$ | $\begin{gathered} 33.0 \\ \mathrm{M} \\ \hline \end{gathered}$ | $\begin{gathered} 33.5 \\ \mathrm{M} \\ \hline \end{gathered}$ | $\begin{gathered} 34.0 \\ \mathrm{M} \end{gathered}$ | $\begin{gathered} 34.5 \\ \mathrm{M} \\ \hline \end{gathered}$ | $\begin{gathered} 35.0 \\ \mathrm{M} \\ \hline \end{gathered}$ | $\begin{gathered} 35.5 \\ \mathrm{M} \end{gathered}$ | $\begin{gathered} 36.0 \\ \mathrm{M} \\ \hline \end{gathered}$ | $\begin{gathered} 36.5 \\ \mathrm{M} \\ \hline \end{gathered}$ | $\begin{gathered} 37.0 \\ \mathrm{M} \\ \hline \end{gathered}$ | $\begin{gathered} 37.5 \\ \mathrm{M} \\ \hline \end{gathered}$ | $\begin{gathered} 38.0 \\ M \end{gathered}$ | $\begin{gathered} 38.5 \\ \mathrm{M} \end{gathered}$ | $\begin{gathered} 39.0 \\ \text { M } \end{gathered}$ | $\begin{gathered} 39.5 \\ \mathrm{M} \end{gathered}$ | $\begin{gathered} 40.0 \\ \mathrm{M} \end{gathered}$ |
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| Grass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Forb |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Shrub |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Tree |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| Transect Point: | $\begin{array}{c\|} \hline 40.5 \\ M \end{array}$ | $\begin{gathered} 41.0 \\ \mathrm{M} \end{gathered}$ | $\begin{gathered} 41.5 \\ M \end{gathered}$ | $\begin{gathered} 42.0 \\ \mathrm{M} \end{gathered}$ | $\begin{gathered} 42.5 \\ \mathrm{M} \end{gathered}$ | $\begin{gathered} 43.0 \\ M \end{gathered}$ | $\begin{gathered} 43.5 \\ M \end{gathered}$ | $\begin{gathered} 44.0 \\ M \end{gathered}$ | $\begin{gathered} 44.5 \\ \mathrm{M} \end{gathered}$ | $\begin{gathered} 45.0 \\ M \end{gathered}$ | $\begin{gathered} 45.5 \\ M \end{gathered}$ | $\begin{gathered} 46.0 \\ M \end{gathered}$ | $\begin{gathered} 6.5 \\ \mathrm{M} \end{gathered}$ | $\begin{gathered} 47.0 \\ M \end{gathered}$ | $\begin{gathered} 47.5 \\ M \end{gathered}$ | $\begin{gathered} 48.0 \\ M \end{gathered}$ | $\begin{gathered} 48.5 \\ \mathrm{M} \end{gathered}$ | $\begin{gathered} 49.0 \\ \mathrm{M} \end{gathered}$ | $\begin{gathered} 49.5 \\ M \end{gathered}$ | $\begin{gathered} 50.0 \\ \mathrm{M} \end{gathered}$ |
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| Grass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Forb |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Shrub |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Tree |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## Group Data Summary

| \% cover of <br> Grass | \% cover of <br> Forb | \% cover of <br> Shrub | \% cover of <br> Tree |
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## Exercise 2B: $50 \times 0.5-M$-interval Point-Intercept Transects (cont.)

Class Data Summary

| Group / Transect | \% cover of <br> Grass | \% cover of <br> Forb | \% cover of <br> Shrub | \% cover of <br> Tree |
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|  |  |  |  |  |
| Mean = |  |  |  |  |
| Std. Dev. = |  |  |  |  |

Show work below, or on an attached sheet, for your calculations of the means and standard deviations presented in the above table.

