

# Exercise 2: Vegetation Surveys

## Exercise 2A: 50 x 2-M Band Transects

Location:

Date:

### Group Data

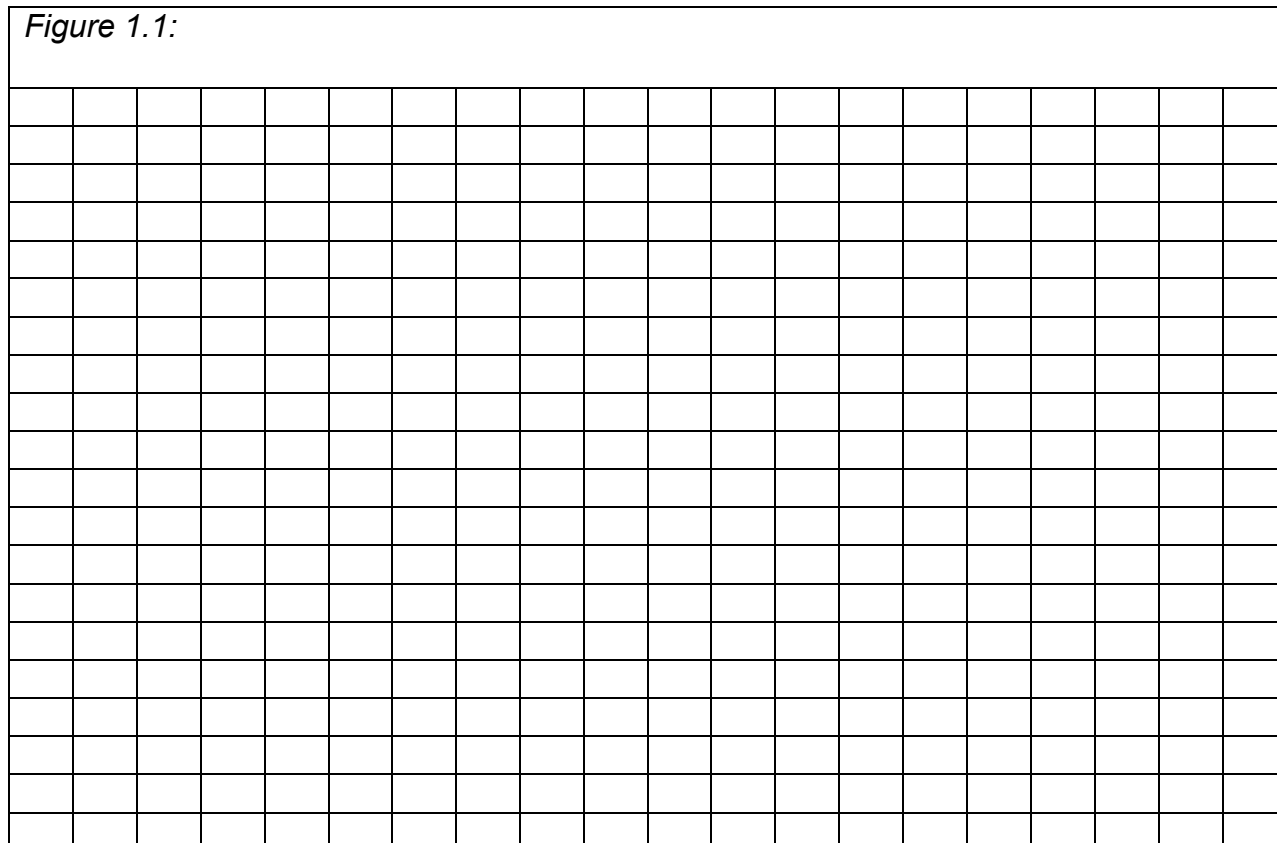
| Dbh size class: | T1<br>(10–20 cm) | T2<br>(20–30 cm) | T3<br>(30–40 cm) | T4<br>(40–50 cm) | T5<br>(50–60 cm) | T6<br>(>60 cm) |
|-----------------|------------------|------------------|------------------|------------------|------------------|----------------|
| # hardwoods:    |                  |                  |                  |                  |                  |                |
| # softwoods:    |                  |                  |                  |                  |                  |                |

### Class Data

| Dbh size class: | T1<br>(10–20 cm) | T2<br>(20–30 cm) | T3<br>(30–40 cm) | T4<br>(40–50 cm) | T5<br>(50–60 cm) | T6<br>(>60 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:



# Exercise 2B: 50 x 0.5-M-interval Point-Intercept Transects

Location:

Date:

## Group Field Data

| Transect Point: | 0.5 M | 1.0 M | 1.5 M | 2.0 M | 2.5 M | 3.0 M | 3.5 M | 4.0 M | 4.5 M | 5.0 M | 5.5 M | 6.0 M | 6.5 M | 7.0 M | 7.5 M | 8.0 M | 8.5 M | 9.0 M | 9.5 M | 10.0 M |  |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--|
| Grass           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |  |
| Forb            |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |  |
| Shrub           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |  |
| Tree            |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |  |

| Transect Point: | 10.5 M | 11.0 M | 11.5 M | 12.0 M | 12.5 M | 13.0 M | 13.5 M | 14.0 M | 14.5 M | 15.0 M | 15.5 M | 16.0 M | 16.5 M | 17.0 M | 17.5 M | 18.0 M | 18.5 M | 19.0 M | 19.5 M | 20.0 M |  |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| Grass           |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| Forb            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| Shrub           |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| Tree            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |

| Transect Point: | 20.5 M | 21.0 M | 21.5 M | 22.0 M | 22.5 M | 23.0 M | 23.5 M | 24.0 M | 24.5 M | 25.0 M | 25.5 M | 26.0 M | 26.5 M | 27.0 M | 27.5 M | 28.0 M | 28.5 M | 29.0 M | 29.5 M | 30.0 M |  |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| Grass           |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| Forb            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| Shrub           |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| Tree            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |

| Transect Point: | 30.5 M | 31.0 M | 31.5 M | 32.0 M | 32.5 M | 33.0 M | 33.5 M | 34.0 M | 34.5 M | 35.0 M | 35.5 M | 36.0 M | 36.5 M | 37.0 M | 37.5 M | 38.0 M | 38.5 M | 39.0 M | 39.5 M | 40.0 M |  |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| Grass           |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| Forb            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| Shrub           |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| Tree            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |

| Transect Point: | 40.5 M | 41.0 M | 41.5 M | 42.0 M | 42.5 M | 43.0 M | 43.5 M | 44.0 M | 44.5 M | 45.0 M | 45.5 M | 46.0 M | 46.5 M | 47.0 M | 47.5 M | 48.0 M | 48.5 M | 49.0 M | 49.5 M | 50.0 M |  |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| Grass           |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| Forb            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| Shrub           |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| Tree            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |

## Group Data Summary

| % cover of Grass | % cover of Forb | % cover of Shrub | % cover of Tree |
|------------------|-----------------|------------------|-----------------|
|                  |                 |                  |                 |



## Native Trees of San Mateo and Santa Clara Counties



### **Aceraceae (Maple Family)**

- Acer macrophyllum* big-leaf maple  
*Acer negundo* var. *californicum* box elder

### **Betulaceae (Birch Family)**

- Alnus rhombifolia* white alder

### **Caprifoliaceae (Honeysuckle Family)**

- Sambucus mexicana* blue elderberry

### **Ericaceae (Heath Family)**

- Arbutus menziesii* Pacific madrone

### **Fagaceae (Oak Family)**

- Lithocarpus densiflorus* tanbark oak  
*Quercus agrifolia* coast live oak  
*Quercus chrysolepis* canyon live oak  
*Quercus douglasii* blue oak  
*Quercus garryana* Oregon white oak  
*Quercus kelloggii* California black oak  
*Quercus lobata* valley oak  
*Quercus wislizeni* interior live oak

### **Hippocastanaceae (Buckeye Family)**

- Aesculus californica* California buckeye

### **Lauraceae (Laurel Family)**

- Umbellularia californica* California laurel

### **Oleaceae (Olive Family)**

- Fraxinus dipetala* flowering ash  
*Fraxinus latifolia* Oregon ash

### **Pinaceae (Pine Family)**

- Pinus attenuata* knobcone pine  
*Pinus ponderosa* Pacific ponderosa pine  
*Pinus sabiniana* gray pine  
*Pseudotsuga menziesii* Douglas fir

### **Platanaceae (Sycamore Family)**

- Platanus racemosa* Western sycamore

### **Salicaceae (Willow Family)**

- Populus fremontii* ssp. *fremontii* Fremont cottonwood  
*Populus balsamifera* ssp. *trichocarpa* black cottonwood  
*Salix laevigata* red willow  
*Salix lasiolepis* arroyo willow  
*Salix lucida* ssp. *lasiandra* shining willow

### **Taxaceae (Yew Family)**

- Torreya californica* California nutmeg

### **Taxodiaceae (Bald Cypress Family)**

- Sequoia sempervirens* redwood

CNPS—Santa Clara Valley Chapter

<http://www.stanford.edu/~rawlings/nora.htm>

Prepared by Jeff Caldwell (revised 2/98)

### References:

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