



# 25 Meter Frequency Transect (Page 1)

To measure frequency of ground and canopy covers at prairies and tree grids.

[www.project-acorn.net/data-entry](http://www.project-acorn.net/data-entry)

Name of School:

Name of Observer:

Month:   
(mm)

Day:   
(dd)

Year:   
(yyyy)

Local Time:  :   
Hours Minutes

Universal Time:  :   
Hours Minutes

Coordinates for Start of Transect (Numbers only, no letters):

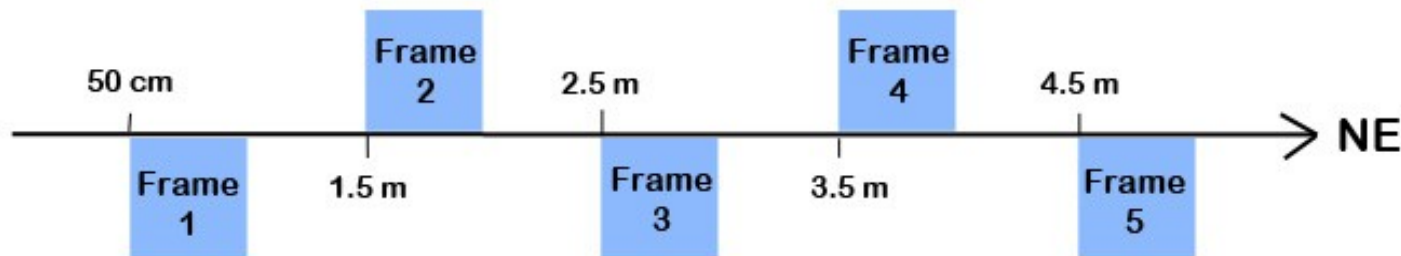
Latitude:   
(North = No sign; South = Negative)

Longitude:   
(East = No Sign; West = Negative)

Direction from start of Transect: N, NE, E, SE, S, SW, W, NW

Transects should be 25 meters long. Lay out a measuring tape or other marker as best as possible along cardinal or intermediate directions within your prairie or tree grid.

Starting 50 cm from the coordinates recorded above, place your 50cm by 50cm square on the ground so that the left side of the frame is along the transect line. Record your observations for overhead canopy and ground cover rooted in the frame. From the end of the frame, skip 50 cm and place your frame so that its right side is along the transect line. (See illustration below.) Record your observations. Repeat.



Complete the frame tables on the following pages to the best of your ability. Write in the dominant canopy and ground covers rooted within the frame by type if they can be identified (dominant forb, dominant grass, etc.). Use common names or species names (e.g. Little Bluestem OR *Schizachyrium Scoparium*). If a species is not known, write in a unique designation for your own future reference and collect a sample. Use your densiometer to determine if tree or shrub canopy is within the space above your frame.

# 25 Meter Frequency Transect (Page 2)

Frame 1	Canopy Cover:		Type		Dominant Species	
	<input type="checkbox"/> Tree (≥ 5 m)		<input type="checkbox"/> Deciduous			
	<input type="checkbox"/> Shrub (< 5 m)		<input type="checkbox"/> Evergreen			
	<input type="checkbox"/> None/Sky					
	Ground Cover:		Type	% Cover	Dominant Species	
	% Green:	<input type="text"/>	<input type="checkbox"/> Grass	<input type="text"/>		
% Brown:	<input type="text"/>	<input type="checkbox"/> Forb	<input type="text"/>			
% Soil:	<input type="text"/>	<input type="checkbox"/> Woody	<input type="text"/>			

% Grass + % Forb + % Woody + % Soil = 100%

Frame 2	Canopy Cover:		Type		Dominant Species	
	<input type="checkbox"/> Tree (≥ 5 m)		<input type="checkbox"/> Deciduous			
	<input type="checkbox"/> Shrub (< 5 m)		<input type="checkbox"/> Evergreen			
	<input type="checkbox"/> None/Sky					
	Ground Cover:		Type	% Cover	Dominant Species	
	% Green:	<input type="text"/>	<input type="checkbox"/> Grass	<input type="text"/>		
% Brown:	<input type="text"/>	<input type="checkbox"/> Forb	<input type="text"/>			
% Soil:	<input type="text"/>	<input type="checkbox"/> Woody	<input type="text"/>			

%Green + % Brown + % Soil = 100%

Frame 3	Canopy Cover:		Type		Dominant Species	
	<input type="checkbox"/> Tree (≥ 5 m)		<input type="checkbox"/> Deciduous			
	<input type="checkbox"/> Shrub (< 5 m)		<input type="checkbox"/> Evergreen			
	<input type="checkbox"/> None/Sky					
	Ground Cover:		Type	% Cover	Dominant Species	
	% Green:	<input type="text"/>	<input type="checkbox"/> Grass	<input type="text"/>		
% Brown:	<input type="text"/>	<input type="checkbox"/> Forb	<input type="text"/>			
% Soil:	<input type="text"/>	<input type="checkbox"/> Woody	<input type="text"/>			

% Grass + % Forb + % Woody + % Soil = 100%

Frame 4	Canopy Cover:		Type		Dominant Species	
	<input type="checkbox"/> Tree (≥ 5 m)		<input type="checkbox"/> Deciduous			
	<input type="checkbox"/> Shrub (< 5 m)		<input type="checkbox"/> Evergreen			
	<input type="checkbox"/> None/Sky					
	Ground Cover:		Type	% Cover	Dominant Species	
	% Green:	<input type="text"/>	<input type="checkbox"/> Grass	<input type="text"/>		
% Brown:	<input type="text"/>	<input type="checkbox"/> Forb	<input type="text"/>			
% Soil:	<input type="text"/>	<input type="checkbox"/> Woody	<input type="text"/>			

%Green + % Brown + % Soil = 100%

Frame 5	Canopy Cover:		Type		Dominant Species	
	<input type="checkbox"/> Tree (≥ 5 m)		<input type="checkbox"/> Deciduous			
	<input type="checkbox"/> Shrub (< 5 m)		<input type="checkbox"/> Evergreen			
	<input type="checkbox"/> None/Sky					
	Ground Cover:		Type	% Cover	Dominant Species	
	% Green:	<input type="text"/>	<input type="checkbox"/> Grass	<input type="text"/>		
% Brown:	<input type="text"/>	<input type="checkbox"/> Forb	<input type="text"/>			
% Soil:	<input type="text"/>	<input type="checkbox"/> Woody	<input type="text"/>			

% Grass + % Forb + % Woody + % Soil = 100%

Frame 6	Canopy Cover:		Type		Dominant Species	
	<input type="checkbox"/> Tree (≥ 5 m)		<input type="checkbox"/> Deciduous			
	<input type="checkbox"/> Shrub (< 5 m)		<input type="checkbox"/> Evergreen			
	<input type="checkbox"/> None/Sky					
	Ground Cover:		Type	% Cover	Dominant Species	
	% Green:	<input type="text"/>	<input type="checkbox"/> Grass	<input type="text"/>		
% Brown:	<input type="text"/>	<input type="checkbox"/> Forb	<input type="text"/>			
% Soil:	<input type="text"/>	<input type="checkbox"/> Woody	<input type="text"/>			

%Green + % Brown + % Soil = 100%

# 25 Meter Frequency Transect (Page 3)

Frame 7	Canopy Cover:		Type		Dominant Species	
	<input type="checkbox"/> Tree (≥ 5 m)		<input type="checkbox"/> Deciduous			
	<input type="checkbox"/> Shrub (< 5 m)		<input type="checkbox"/> Evergreen			
	<input type="checkbox"/> None/Sky					
	Ground Cover:		Type	% Cover	Dominant Species	
	% Green:	<input type="text"/>	<input type="checkbox"/> Grass	<input type="text"/>		
% Brown:	<input type="text"/>	<input type="checkbox"/> Forb	<input type="text"/>			
% Soil:	<input type="text"/>	<input type="checkbox"/> Woody	<input type="text"/>			

% Grass + % Forb + % Woody + % Soil = 100%

Frame 8	Canopy Cover:		Type		Dominant Species	
	<input type="checkbox"/> Tree (≥ 5 m)		<input type="checkbox"/> Deciduous			
	<input type="checkbox"/> Shrub (< 5 m)		<input type="checkbox"/> Evergreen			
	<input type="checkbox"/> None/Sky					
	Ground Cover:		Type	% Cover	Dominant Species	
	% Green:	<input type="text"/>	<input type="checkbox"/> Grass	<input type="text"/>		
% Brown:	<input type="text"/>	<input type="checkbox"/> Forb	<input type="text"/>			
% Soil:	<input type="text"/>	<input type="checkbox"/> Woody	<input type="text"/>			

%Green + % Brown + % Soil = 100%

Frame 9	Canopy Cover:		Type		Dominant Species	
	<input type="checkbox"/> Tree (≥ 5 m)		<input type="checkbox"/> Deciduous			
	<input type="checkbox"/> Shrub (< 5 m)		<input type="checkbox"/> Evergreen			
	<input type="checkbox"/> None/Sky					
	Ground Cover:		Type	% Cover	Dominant Species	
	% Green:	<input type="text"/>	<input type="checkbox"/> Grass	<input type="text"/>		
% Brown:	<input type="text"/>	<input type="checkbox"/> Forb	<input type="text"/>			
% Soil:	<input type="text"/>	<input type="checkbox"/> Woody	<input type="text"/>			

% Grass + % Forb + % Woody + % Soil = 100%

Frame 10	Canopy Cover:		Type		Dominant Species	
	<input type="checkbox"/> Tree (≥ 5 m)		<input type="checkbox"/> Deciduous			
	<input type="checkbox"/> Shrub (< 5 m)		<input type="checkbox"/> Evergreen			
	<input type="checkbox"/> None/Sky					
	Ground Cover:		Type	% Cover	Dominant Species	
	% Green:	<input type="text"/>	<input type="checkbox"/> Grass	<input type="text"/>		
% Brown:	<input type="text"/>	<input type="checkbox"/> Forb	<input type="text"/>			
% Soil:	<input type="text"/>	<input type="checkbox"/> Woody	<input type="text"/>			

%Green + % Brown + % Soil = 100%

Frame 11	Canopy Cover:		Type		Dominant Species	
	<input type="checkbox"/> Tree (≥ 5 m)		<input type="checkbox"/> Deciduous			
	<input type="checkbox"/> Shrub (< 5 m)		<input type="checkbox"/> Evergreen			
	<input type="checkbox"/> None/Sky					
	Ground Cover:		Type	% Cover	Dominant Species	
	% Green:	<input type="text"/>	<input type="checkbox"/> Grass	<input type="text"/>		
% Brown:	<input type="text"/>	<input type="checkbox"/> Forb	<input type="text"/>			
% Soil:	<input type="text"/>	<input type="checkbox"/> Woody	<input type="text"/>			

% Grass + % Forb + % Woody + % Soil = 100%

Frame 12	Canopy Cover:		Type		Dominant Species	
	<input type="checkbox"/> Tree (≥ 5 m)		<input type="checkbox"/> Deciduous			
	<input type="checkbox"/> Shrub (< 5 m)		<input type="checkbox"/> Evergreen			
	<input type="checkbox"/> None/Sky					
	Ground Cover:		Type	% Cover	Dominant Species	
	% Green:	<input type="text"/>	<input type="checkbox"/> Grass	<input type="text"/>		
% Brown:	<input type="text"/>	<input type="checkbox"/> Forb	<input type="text"/>			
% Soil:	<input type="text"/>	<input type="checkbox"/> Woody	<input type="text"/>			

%Green + % Brown + % Soil = 100%

# 25 Meter Frequency Transect (Page 4)

Frame 13	Canopy Cover:		Type		Dominant Species	
	<input type="checkbox"/> Tree (≥ 5 m)		<input type="checkbox"/> Deciduous			
	<input type="checkbox"/> Shrub (< 5 m)		<input type="checkbox"/> Evergreen			
	<input type="checkbox"/> None/Sky					
	Ground Cover:		Type	% Cover	Dominant Species	
	% Green:	<input type="text"/>	<input type="checkbox"/> Grass	<input type="text"/>		
% Brown:	<input type="text"/>	<input type="checkbox"/> Forb	<input type="text"/>			
% Soil:	<input type="text"/>	<input type="checkbox"/> Woody	<input type="text"/>			

% Grass + % Forb + % Woody + % Soil = 100%

Frame 14	Canopy Cover:		Type		Dominant Species	
	<input type="checkbox"/> Tree (≥ 5 m)		<input type="checkbox"/> Deciduous			
	<input type="checkbox"/> Shrub (< 5 m)		<input type="checkbox"/> Evergreen			
	<input type="checkbox"/> None/Sky					
	Ground Cover:		Type	% Cover	Dominant Species	
	% Green:	<input type="text"/>	<input type="checkbox"/> Grass	<input type="text"/>		
% Brown:	<input type="text"/>	<input type="checkbox"/> Forb	<input type="text"/>			
% Soil:	<input type="text"/>	<input type="checkbox"/> Woody	<input type="text"/>			

%Green + % Brown + % Soil = 100%

Frame 15	Canopy Cover:		Type		Dominant Species	
	<input type="checkbox"/> Tree (≥ 5 m)		<input type="checkbox"/> Deciduous			
	<input type="checkbox"/> Shrub (< 5 m)		<input type="checkbox"/> Evergreen			
	<input type="checkbox"/> None/Sky					
	Ground Cover:		Type	% Cover	Dominant Species	
	% Green:	<input type="text"/>	<input type="checkbox"/> Grass	<input type="text"/>		
% Brown:	<input type="text"/>	<input type="checkbox"/> Forb	<input type="text"/>			
% Soil:	<input type="text"/>	<input type="checkbox"/> Woody	<input type="text"/>			

% Grass + % Forb + % Woody + % Soil = 100%

Frame 16	Canopy Cover:		Type		Dominant Species	
	<input type="checkbox"/> Tree (≥ 5 m)		<input type="checkbox"/> Deciduous			
	<input type="checkbox"/> Shrub (< 5 m)		<input type="checkbox"/> Evergreen			
	<input type="checkbox"/> None/Sky					
	Ground Cover:		Type	% Cover	Dominant Species	
	% Green:	<input type="text"/>	<input type="checkbox"/> Grass	<input type="text"/>		
% Brown:	<input type="text"/>	<input type="checkbox"/> Forb	<input type="text"/>			
% Soil:	<input type="text"/>	<input type="checkbox"/> Woody	<input type="text"/>			

%Green + % Brown + % Soil = 100%

Frame 17	Canopy Cover:		Type		Dominant Species	
	<input type="checkbox"/> Tree (≥ 5 m)		<input type="checkbox"/> Deciduous			
	<input type="checkbox"/> Shrub (< 5 m)		<input type="checkbox"/> Evergreen			
	<input type="checkbox"/> None/Sky					
	Ground Cover:		Type	% Cover	Dominant Species	
	% Green:	<input type="text"/>	<input type="checkbox"/> Grass	<input type="text"/>		
% Brown:	<input type="text"/>	<input type="checkbox"/> Forb	<input type="text"/>			
% Soil:	<input type="text"/>	<input type="checkbox"/> Woody	<input type="text"/>			

% Grass + % Forb + % Woody + % Soil = 100%

Frame 18	Canopy Cover:		Type		Dominant Species	
	<input type="checkbox"/> Tree (≥ 5 m)		<input type="checkbox"/> Deciduous			
	<input type="checkbox"/> Shrub (< 5 m)		<input type="checkbox"/> Evergreen			
	<input type="checkbox"/> None/Sky					
	Ground Cover:		Type	% Cover	Dominant Species	
	% Green:	<input type="text"/>	<input type="checkbox"/> Grass	<input type="text"/>		
% Brown:	<input type="text"/>	<input type="checkbox"/> Forb	<input type="text"/>			
% Soil:	<input type="text"/>	<input type="checkbox"/> Woody	<input type="text"/>			

%Green + % Brown + % Soil = 100%

# 25 Meter Frequency Transect (Page 5)

Frame 19	Canopy Cover:		Type		Dominant Species	
	<input type="checkbox"/> Tree (≥ 5 m)		<input type="checkbox"/> Deciduous			
	<input type="checkbox"/> Shrub (< 5 m)		<input type="checkbox"/> Evergreen			
	<input type="checkbox"/> None/Sky					
	Ground Cover:		Type	% Cover	Dominant Species	
	% Green:	<input type="text"/>	<input type="checkbox"/> Grass	<input type="text"/>		
% Brown:	<input type="text"/>	<input type="checkbox"/> Forb	<input type="text"/>			
% Soil:	<input type="text"/>	<input type="checkbox"/> Woody	<input type="text"/>			

% Grass + % Forb + % Woody + % Soil = 100%

Frame 20	Canopy Cover:		Type		Dominant Species	
	<input type="checkbox"/> Tree (≥ 5 m)		<input type="checkbox"/> Deciduous			
	<input type="checkbox"/> Shrub (< 5 m)		<input type="checkbox"/> Evergreen			
	<input type="checkbox"/> None/Sky					
	Ground Cover:		Type	% Cover	Dominant Species	
	% Green:	<input type="text"/>	<input type="checkbox"/> Grass	<input type="text"/>		
% Brown:	<input type="text"/>	<input type="checkbox"/> Forb	<input type="text"/>			
% Soil:	<input type="text"/>	<input type="checkbox"/> Woody	<input type="text"/>			

%Green + % Brown + % Soil = 100%

Frame 21	Canopy Cover:		Type		Dominant Species	
	<input type="checkbox"/> Tree (≥ 5 m)		<input type="checkbox"/> Deciduous			
	<input type="checkbox"/> Shrub (< 5 m)		<input type="checkbox"/> Evergreen			
	<input type="checkbox"/> None/Sky					
	Ground Cover:		Type	% Cover	Dominant Species	
	% Green:	<input type="text"/>	<input type="checkbox"/> Grass	<input type="text"/>		
% Brown:	<input type="text"/>	<input type="checkbox"/> Forb	<input type="text"/>			
% Soil:	<input type="text"/>	<input type="checkbox"/> Woody	<input type="text"/>			

% Grass + % Forb + % Woody + % Soil = 100%

Frame 22	Canopy Cover:		Type		Dominant Species	
	<input type="checkbox"/> Tree (≥ 5 m)		<input type="checkbox"/> Deciduous			
	<input type="checkbox"/> Shrub (< 5 m)		<input type="checkbox"/> Evergreen			
	<input type="checkbox"/> None/Sky					
	Ground Cover:		Type	% Cover	Dominant Species	
	% Green:	<input type="text"/>	<input type="checkbox"/> Grass	<input type="text"/>		
% Brown:	<input type="text"/>	<input type="checkbox"/> Forb	<input type="text"/>			
% Soil:	<input type="text"/>	<input type="checkbox"/> Woody	<input type="text"/>			

%Green + % Brown + % Soil = 100%

Frame 23	Canopy Cover:		Type		Dominant Species	
	<input type="checkbox"/> Tree (≥ 5 m)		<input type="checkbox"/> Deciduous			
	<input type="checkbox"/> Shrub (< 5 m)		<input type="checkbox"/> Evergreen			
	<input type="checkbox"/> None/Sky					
	Ground Cover:		Type	% Cover	Dominant Species	
	% Green:	<input type="text"/>	<input type="checkbox"/> Grass	<input type="text"/>		
% Brown:	<input type="text"/>	<input type="checkbox"/> Forb	<input type="text"/>			
% Soil:	<input type="text"/>	<input type="checkbox"/> Woody	<input type="text"/>			

% Grass + % Forb + % Woody + % Soil = 100%

Frame 24	Canopy Cover:		Type		Dominant Species	
	<input type="checkbox"/> Tree (≥ 5 m)		<input type="checkbox"/> Deciduous			
	<input type="checkbox"/> Shrub (< 5 m)		<input type="checkbox"/> Evergreen			
	<input type="checkbox"/> None/Sky					
	Ground Cover:		Type	% Cover	Dominant Species	
	% Green:	<input type="text"/>	<input type="checkbox"/> Grass	<input type="text"/>		
% Brown:	<input type="text"/>	<input type="checkbox"/> Forb	<input type="text"/>			
% Soil:	<input type="text"/>	<input type="checkbox"/> Woody	<input type="text"/>			

%Green + % Brown + % Soil = 100%

# 25 Meter Frequency Transect (Page 6)

Frame 25	Canopy Cover:		Type	Dominant Species	
	<input type="checkbox"/> Tree ( $\geq 5$ m)	<input type="checkbox"/> Deciduous			
	<input type="checkbox"/> Shrub (< 5 m)				
	<input type="checkbox"/> None/Sky	<input type="checkbox"/> Evergreen			
	Ground Cover:		Type	% Cover	Dominant Species
	% Green:	<input type="text"/>	<input type="checkbox"/> Grass	<input type="text"/>	<input type="text"/>
% Brown:	<input type="text"/>	<input type="checkbox"/> Forb	<input type="text"/>	<input type="text"/>	
% Soil:	<input type="text"/>	<input type="checkbox"/> Woody	<input type="text"/>	<input type="text"/>	

% Grass + % Forb + % Woody + % Soil = 100%

%Green + % Brown + % Soil = 100%

## Frequency:

Data Group	Frequency Range	Type	Total Checks	Data Group (A, B, C...)
A	0 - 5	Deciduous Tree/Shrub	<input type="text"/>	<input type="text"/>
B	6 - 10	Evergreen Tree/Shrub	<input type="text"/>	<input type="text"/>
C	11 - 15	Grass	<input type="text"/>	<input type="text"/>
D	16 - 20	Forb	<input type="text"/>	<input type="text"/>
E	21 - 25	Woody Ground Cover	<input type="text"/>	<input type="text"/>

## Optional:

Type	Most Frequent Dominant Species	Number of Frames Recorded
Deciduous Tree/Shrub	<input type="text"/>	<input type="text"/>
Evergreen Tree/Shrub	<input type="text"/>	<input type="text"/>
Grass	<input type="text"/>	<input type="text"/>
Forb	<input type="text"/>	<input type="text"/>
Woody Ground Cover	<input type="text"/>	<input type="text"/>