

2. Record date, observer, weather, and plot number.

on both data sheets. For plot number, be sure to indicate north or south.

4. *Seedlings.* (See Figure 3-25.) With one person north of and the other south of the plot, lay a height stick to divide the 1m^2 quadrat approximately in half. Count tree seedlings by species and size class. The botanist records the data as

seedlings that are rooted within the plot. Seedlings should

See "Releve Instructions" for estimating percentage coverage.

8. Whoever finishes first should move the quadrat frame to the next location.

Data sheet components

There are two data sheets for every plot. The first data sheet is for seedling counts, ground components, and total vegetation coverage; the second sheet is for species lists and relative abundances.

Page 1: Seedlings, ground components, and total vegetation coverage (Figure 3-25)

Plot #: (Plot number) Be sure to record N or S. The number on each flag is the number for the plot to the west of the flag. So a flag numbered 10 means that the plot to the west is N or S 10 and the plot to the east is N or S 11.

SEEDLINGS

Spec: (Tree species) Record by species number (see Table 3-1).

When all seedlings have been counted, the tallies can be summarized by recording the number of seedlings, a decimal point, and the size class (e.g., 12 seedlings in the number two size class would be recorded 12.2). The size classes are defined as follows:

1=<0.1m tall (first white line on the height stick)

2=0.1 to 0.499m tall (second white line on height stick)

3=0.5 to 2m tall (2x height stick)

4=>2m tall and <1.5cm DBH

When suckers are present, use a slash to diagonally divide the appropriate column and record the number of suckers in the lower portion.

GROUND

%: (Percentage coverage) Estimate coverage for the ground components listed in the Comp. column. They should add up to 100%.

Comp: (Ground component) List ground components as outlined in Procedure 5.

VEGETATION COVERAGE

% Cov: (Percentage coverage) These were the readings from

It is preferable to record page one data on the polycorder

Seedling data and coverage data are recorded on different polycorders. Formats are as follows: S-1 coverage variables are PLOTNUM, COV<.25, COV.25-1, COV1-5, GCOMP1, %COV1, GCOMP2, %COV2, GCOMP3, %COV3, GCOMP4, and %COV4. S-1 seedling variables are PLOTNUM, SPECIES, SEEDLNG1, SEEDLNG2, SEEDLNG3, and SEEDLNG4.

Page 2: Species coverage (Figure 3-26)

Plot #: (Plot number) Record as described previously. Use both columns for species within one plot.

Species: (Plant species name) Abbreviate in an easily recognized form.

Num: (Plant species number) See separate species list for

numbers.

0.25, .25-1, or 1-5: (Height strata) Record abundance as

described in Procedure 7 for each species within a height strata

Equipment

Sunfleck ceptometer

List of S-I stations

Pencil

Clipboard

Photography of S-I Plots

To produce a permanent visual record, selected S-I plots are photographed before the forest manipulation, and again as needed in the future. Initially we will photograph every tenth plot on the managed area (1,11,21, etc.) and every twentieth plot on the control area (301, 321, 341, etc.)

Procedure

1. Photographs should be taken in late July-early August, as close to the time of SI measurements as possible. By taking them near noon, long shadows will be avoided.
2. Use a 35mm camera with a 55mm focal length lens. High-speed ektachrome

Equipment

35mm camera with 55mm lens

Kodak high-speed ektachrome
film (400 ASA)

Tripod

Clipboard and number cards

Quadrat frame

1.0m

The relevé portion of this study shares the subquadrat relevés' problems, but they are minimized by using a smaller sample size (1m^2), repeating the same 240 plots every year, and using the same observer from year to year.

A difficulty shared by both the relevé and seedling portion of the S-1 study is that the distribution of sample plots every 5m along the S-1 transects results in inadequate and uneven distribution of

HOLT RESEARCH FOREST

Date 29 JUL 86 Observer DWL Recorder JWW Weather _____

Plot#	Spec.	SEEDLINGS				GROUND		VEGETATION COVERAGE			
		1	2	3	4	%	Comp.	%Cov	<0.25	0.25-1	1-5
287	7	4.1				80	dl		10	10	10
	1	2.1				10	bole				
						10	moss				
288	5		1.2			100	dl		10	10	20
	25		5.3	3.3							
	1	2.1	2.2								
	7	2.1									
289	None					10	moss		10	1	1
						10	dl				
290	7	3.1				100	dl		1	1	10

