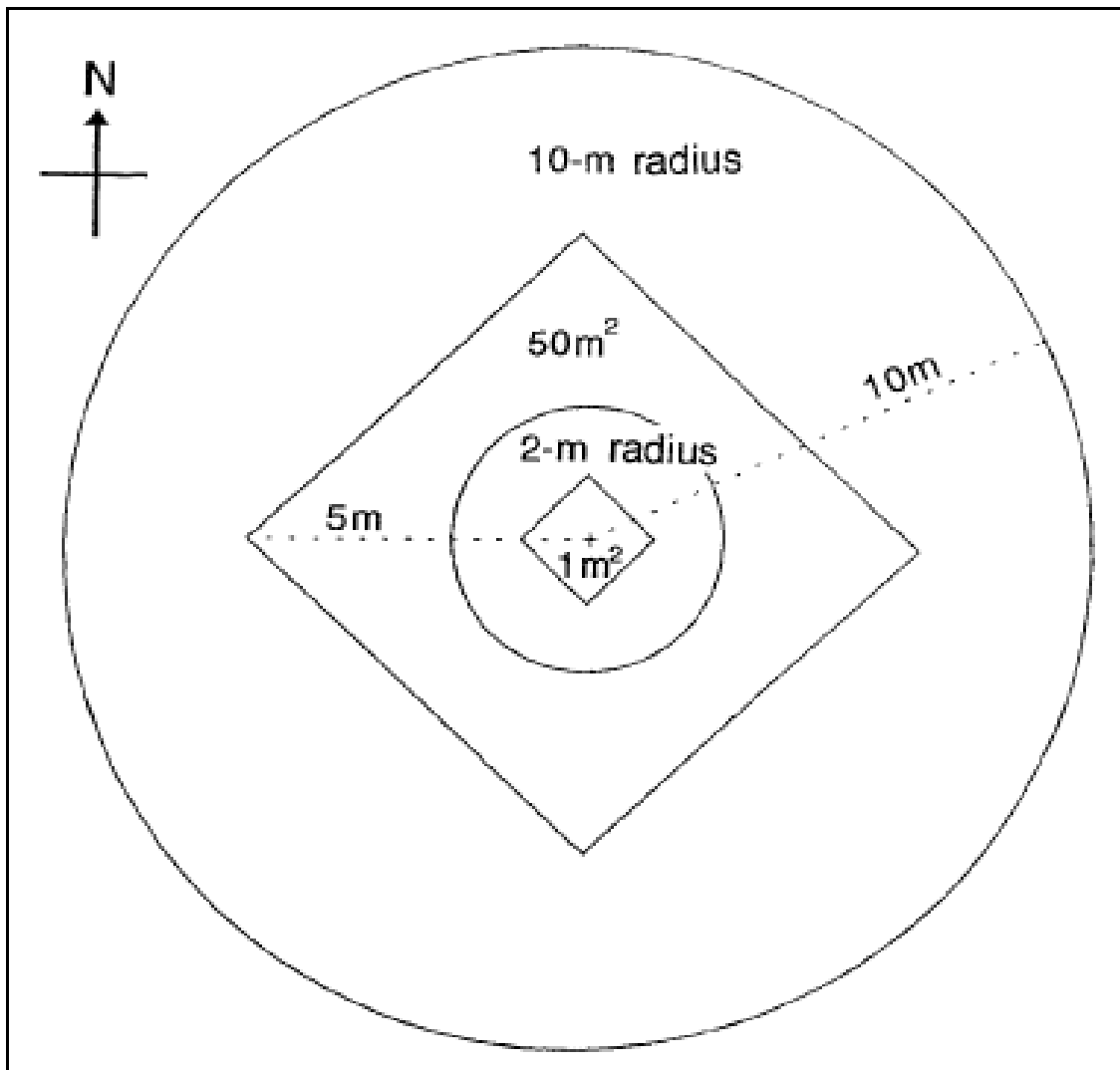# Pine Savannah Field Sampling Diagram

Figure 25. Orientation and dimensions of nested plots for measuring field indicators (not drawn to scale). Measurements of field variables are restricted to specific plot sizes. In 1-m^2 plot: V_{HERB}; in 2-m-radius plot: V_{HERB}, V_{ET} (using composite LAI scores), V_{NBG}, and V_{SEDGES}; in 50-m^2 plot: V_{SUBC}, V_{MICRO}, and V_{PORE}; in 10-m-radius plot: V_{PINES}; in areas outside nested plots: $V_{CYPRESS}$, V_{LONGL}, and $V_{LANDSCP}$

Mobile District Pine Savannah Success Criteria

1-meter square: Herb for score of 1

2-meter radius outside 1 meter square: Herb, any new species not in 1-meter, V-Herb score of 0.5

2-meter radius: sedges percent cover

10-meter radius: basal area pines*, sub-canopy stem count

100-meter radius: percent cover exotics

1 hectare (2.47 acres): cypresses stem count

*PINE BASAL AREA CALCULATIONS (within a <u>10-meter radius</u>)

1. To achieve area $0 \geq x \leq 6.25$ ft^2 dbh (diameter breast height).

TREE SIZE	AREA PER TREE	CIRCUMFERENCE PER TREE	MAX # TREES
6-inch diameter tree	area = 0.19625 ft^2/tree	Circumference = 19 inches	≤ 32 trees
8-inch diameter tree	area = 0.34819 ft^2/tree	Circumference = 25 inches	≤18 trees
10-inch diameter tree	area = 0.54496 ft^2/tree	Circumference = 31 inches	≤11 trees
12-inch diameter tree	area = 0.785 ft^2/tree	Circumference = 38 inches	≤8 trees
14-inch diameter tree	area = 1.067 ft^2/tree	Circumference = 44 inches	≤6 trees
16-inch diameter tree	area = 1.3927 ft^2/tree	Circumference = 50 inches	≤4 trees

2. To achieve area $6.25 \geq x \leq 12$ ft^2 dbh (diameter breast height)

TREE SIZE	MAX # TREES
6-inch diameter trees	33-61 trees
8-inch diameter trees	19-34 trees
10-inch diameter trees	12-22 trees
12-inch diameter trees	9-15 trees
14-inch diameter trees	7-11 trees
16-inch diameter trees	5-9 trees