

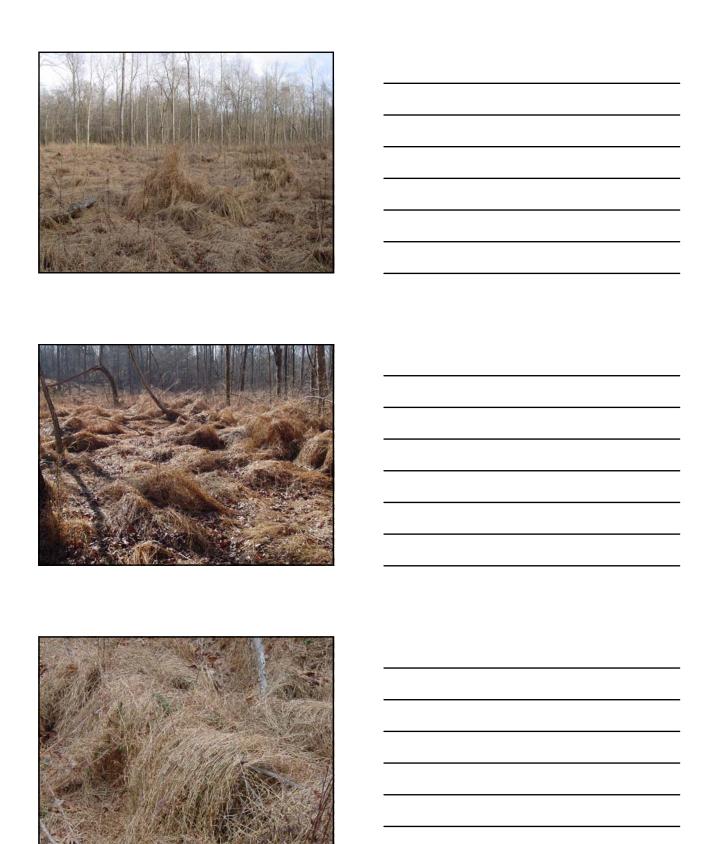




Microstegium vimineum Annual, sprawling grass Can exceed 3ft in height C4 shade tolerant

<u>Microstegi</u>	um vimi	neum
GENERALIST	MAIN	
		The Solid Advance and
GROWS IN A VARIET	Y OF LIGHT, MC	OISTURE,
AND NUTRIENT COND	TIONS	

Seeds and Dispersal Cross and self fertilizes Hundreds of seeds per plant Excessive runoff Animals Contaminated material (i.e. hay) Vehicles/equipment



Spread Rate Affect of leaf litter disturbance? When England Formity Sounghlon

<u>Objective</u>		
To determine what affect leaf litter disturbance has on the spread rate		
of Microstegium vimineum.		

Methods Site Selection 3 Sites Definitive patch/infestation Cumberland Forest and Oak Ridge Arboretum

Treatments

- 1. No Distrubance (control)
- 2. Stir/Mix leaf litter
- 3. Remove leaf litter

Three of each treatment per site

Example Patch Treatment dimensions = 1/2 x 2 meters 1/2 meter subplots within each treatment

<u>Implementation</u>		
Stirrin	g and removal of litter	
Mid M	arch	
X		

Measurements

Taken on monthly basis

- 1. Spread Rate
- 2. Percent Cover estimation for ½ meter subplots
- 3. Light and Moisture measurements

Stem count at end of study

Statistics

One way ANOVA – block design

- 1. Control vs. stirred litter
- 2. Control vs. removed litter
- 3. Stirred litter vs. removed litter

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