

Field Name	Field Value
Name	Heath Garris, Troy Dunn
Organization	Biology
Phone	8643132366
email	hwg3@zips.uakron.edu
Web_Address	2012-005
Renewal	No
Permit_Number	
Activity	Research
Project	Climate change effects on grassland trophic dynamics
Dates	Summer 2012
Group_Size	2
Research_Area	Yes
Grandview_Alley	Yes
Sensitive_Area	No
Other_Areas	No
Building	Yes
Prep_Work	
Sampling_Collecting	Yes
Sampling_Methods	We will remove all above-ground biomass in 20 1 m X 1 m plots with hand trimmers (in August).
Description	<p>A sample grid (~30mX30m) will be established within Grandview Alley where 18 plots will be sampled during the summer of 2012 to assess the impacts of anticipated climate change trophic dynamics in grasslands. Plots will be 2.25m² and designated using reflective stakes, some of which will be instrumented with inconspicuous temperature and moisture data-loggers. Open Top Chambers (OTCs) and control structures will be constructed within 12 of these plots, each consisting of 4 wooden corner stakes angled toward the plot center, and enclosed with clear greenhouse plastic (or a plastic mesh). These will be monitored throughout the growing season (June-October) to assess species composition, biomass. Soil cores will be removed periodically (no more than 4X per year) for analysis. Following the experiment a subsequent permit will be submitted for approval if continued monitoring of these field plots is desired. At the conclusion of the study all stakes, markers, and instrumentation will be removed from the field site. Open Top Chambers are anticipated to elevate air and soil temperatures ~1-3°C above ambient, potentially impacting species compositions and the rates of soil metabolic processes within these plots. Differences induced by this manipulation are considered transient</p>

	and anticipated to equilibrate to the surrounding landscape following OTC removal. Care will be taken to ensure all plots are placed at least 20m from the Bridle Trail.
Agreement	Accept