

COOPERATIVE LAKE STUDY FIELD MONITORING SHEET

B	<p>40% <i>Urtica dioica</i> 10% <i>Scirpus fluviatilis</i> 10% <i>Mimulus ringens</i> 10% <i>Xanthium strumarium</i> 5% <i>Phragmites australis</i> 2% <i>Typha glauca</i> <1% each of <i>Asclepias incarnata</i>, <i>Solanum dulcamara</i>, <i>Verbena</i> <i>hastata</i> and <i>Polygonum amphibium</i></p>	C
	<p>60% <i>Urtica dioica</i> 25% <i>Scirpus fluviatilis</i> 10% <i>Phragmites australis</i> 5% <i>Solanum dulcamara</i> <1% each of <i>Polygonum</i> <i>amphibium</i> and <i>Mimulus ringens</i></p>	
	<p>40% <i>Scirpus fluviatilis</i> 10% <i>Mimulus ringens</i> 10% <i>Xanthium strumarium</i> 5% <i>Urtica dioica</i> 2% <i>Phragmites australis</i> 2% <i>Glyceria striata</i> 1% <i>Polygonum amphibium</i> 1% <i>Cyperus esculentus</i> <1% <i>Populus tremuloides</i> <1% <i>Solanum dulcamara</i></p>	
A	<p>25% <i>Scirpus fluviatilis</i> 20% <i>Urtica dioica</i> 15% <i>Phragmites australis</i> 10% <i>Glyceria striata</i> 5% <i>Solanum dulcamara</i> 5% <i>Polygonum amphibium</i> <1% each of <i>Phalaris</i> <i>arundinacea</i>, <i>Xanthium</i> <i>strumarium</i>, seedling <i>Ulmus</i> <i>americana</i> and <i>Cyperus</i> <i>esculentus</i></p>	D

Location: Carcajou Shallow Marsh (N42° 53' 15.2", W88° 58' 32.3") Date: 10-31-03
 Observers: Mike Halsted & Steve Hjort Water Level: 775.96 msl
 Conditions: Overcast, 50°F, SW winds from 5-15mph increasing.

Quad A: Increase of *Scirpus fluviatilis*, *Xanthium strumarium*, *Sagittaria latifolia*, *Lycopus americanus*, *Asclepias incarnata* and *Echinocystis lobata*, in the plot. A reduction or absence of *Mimulus ringens*, *Polygonum amphibium* and *Phragmites australis*, with similar density of *Urtica dioica* and *Cyperus esculentus*.

Quad B: Increase of *Urtica dioica*, *Mimulus ringens*, *Xanthium strumarium*, *Phragmites australis*, *Rumex crispus*, *Echinocystis lobata*, *Typha glauca*, *Asclepias incarnata*, *Solanum dulcamara*, *Verbena hastata* and *Polygonum amphibium*. A reduction or absence of *Scirpus fluviatilis*, *Sagittaria latifolia*, *Cyperus esculentus*, and *Impatiens capensis*.

Quad C: Increase of *Urtica dioica*, *Scirpus fluviatilis*, *Phragmites australis*, and *Solanum dulcamara*. A reduction or absence of *Sagittaria latifolia*, *Echinocystis lobata*, *Impatiens capensis* and *Mimulus ringens*.

Quad D: Increase or presence of *Sagittaria latifolia*, *Urtica dioica*, *Glyceria striata*, *Solanum dulcamara*, *Phalaris arundinacea*, *Xanthium strumarium*, *Ulmus americana* and *Rorippa palustris*. A reduction or absence of *Phragmites australis* and *Cyperus esculentus*. Similar density of *Scirpus fluviatilis*, and *Polygonum amphibium*.

Notes: More newly sprouting *Scirpus fluviatilis* in shallow inundated lake sediments in Quads A and D and lakeward of plot. *Cyperus esculentus* replaced by *Mimulus ringens* in Quads A, B and C.