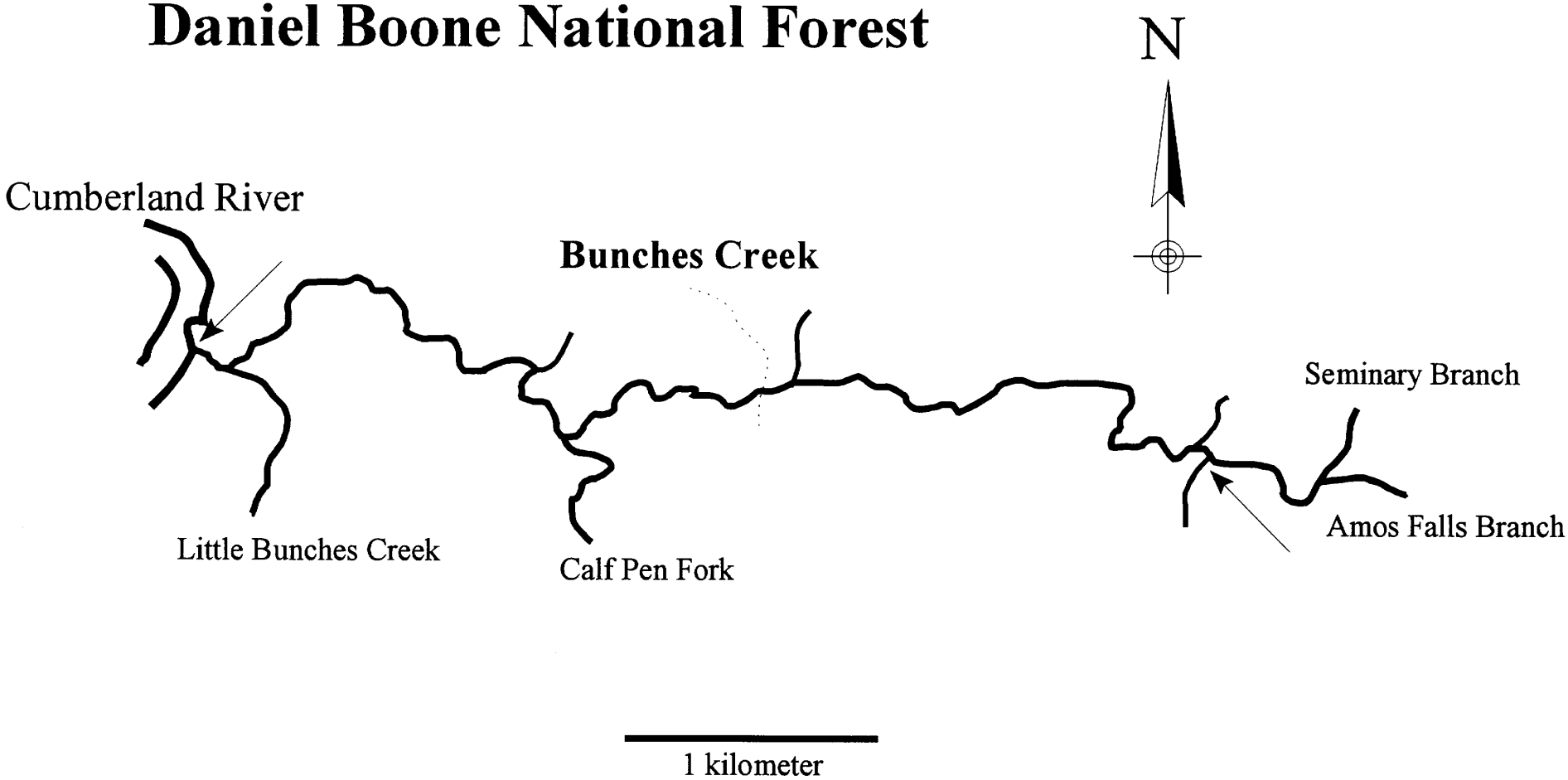
A Summary of the Bunches Creek Electrofishing Survey, Daniel Boone National Forest, Kentucky

United States Department of Agriculture Forest Service
Center for Aquatic Technology Transfer
Department of Fisheries and Wildlife Sciences
Virginia Tech, Blacksburg, VA 24061-0321

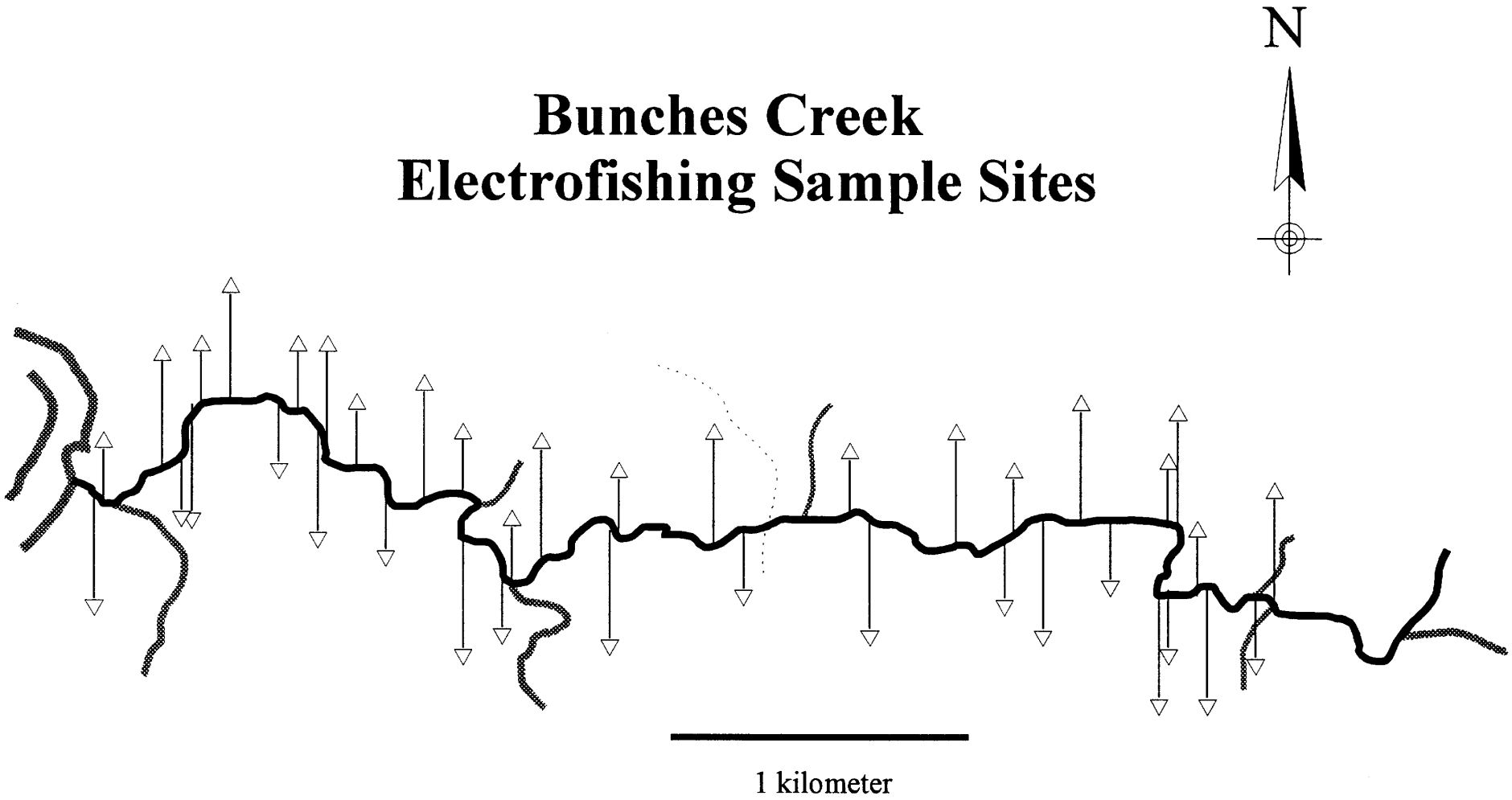
1997

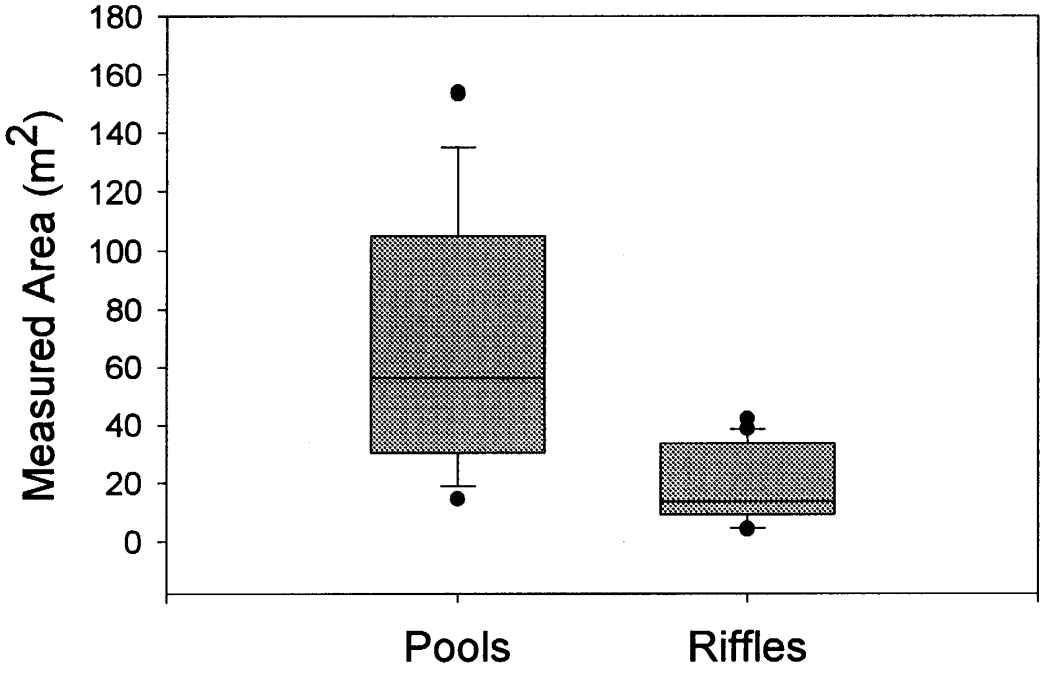
Bunches Creek Watershed
Daniel Boone National Forest

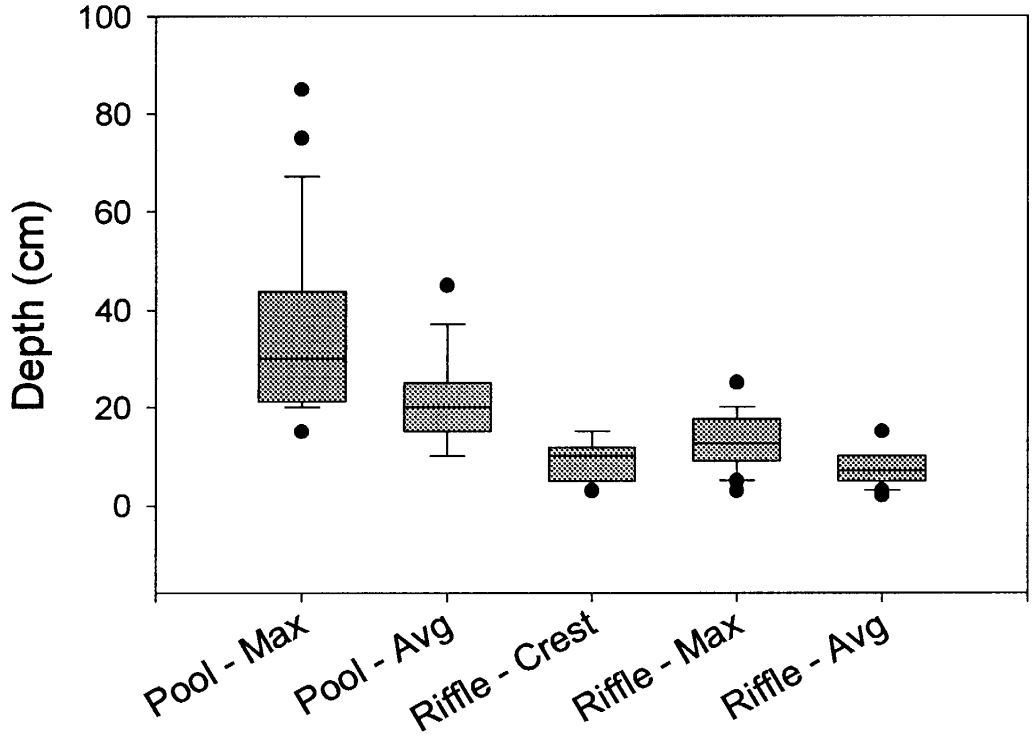


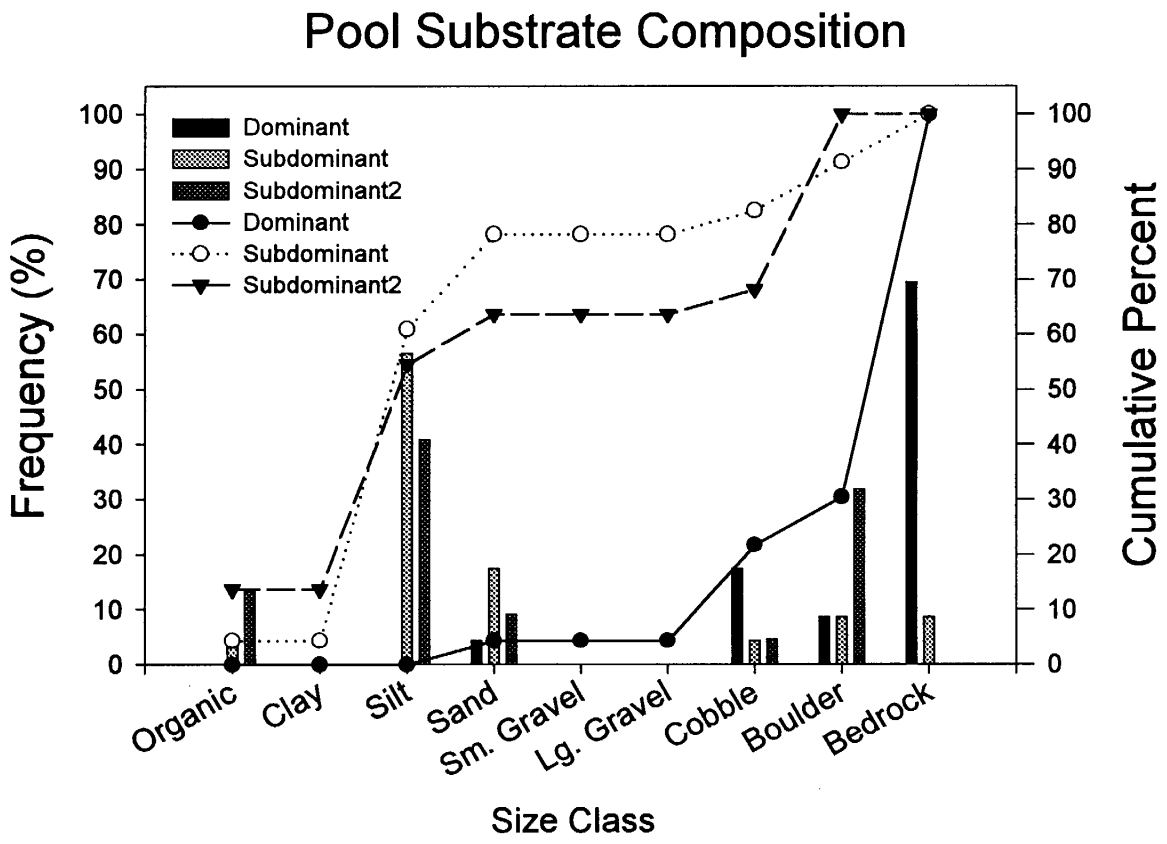
Map of the Bunches Creek Watershed found in the Daniel Boone National Forest, Kentucky. The the starting and ending point of the survey are represented by the the two arrows. Dotted line denotes fire road crossing.

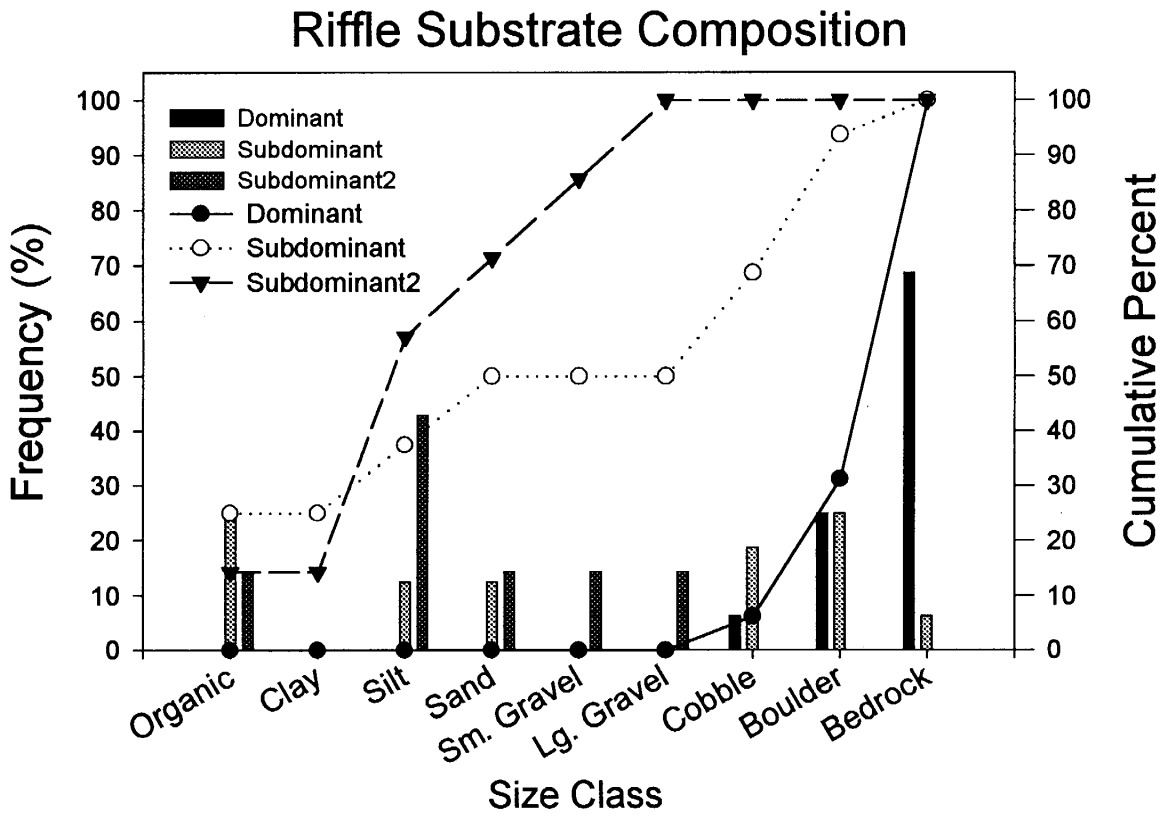
Bunches Creek
Electrofishing Sample Sites




Measured Area (m2)
180
160
140
120
100
80
60
40
20
0
Pools
Riffles

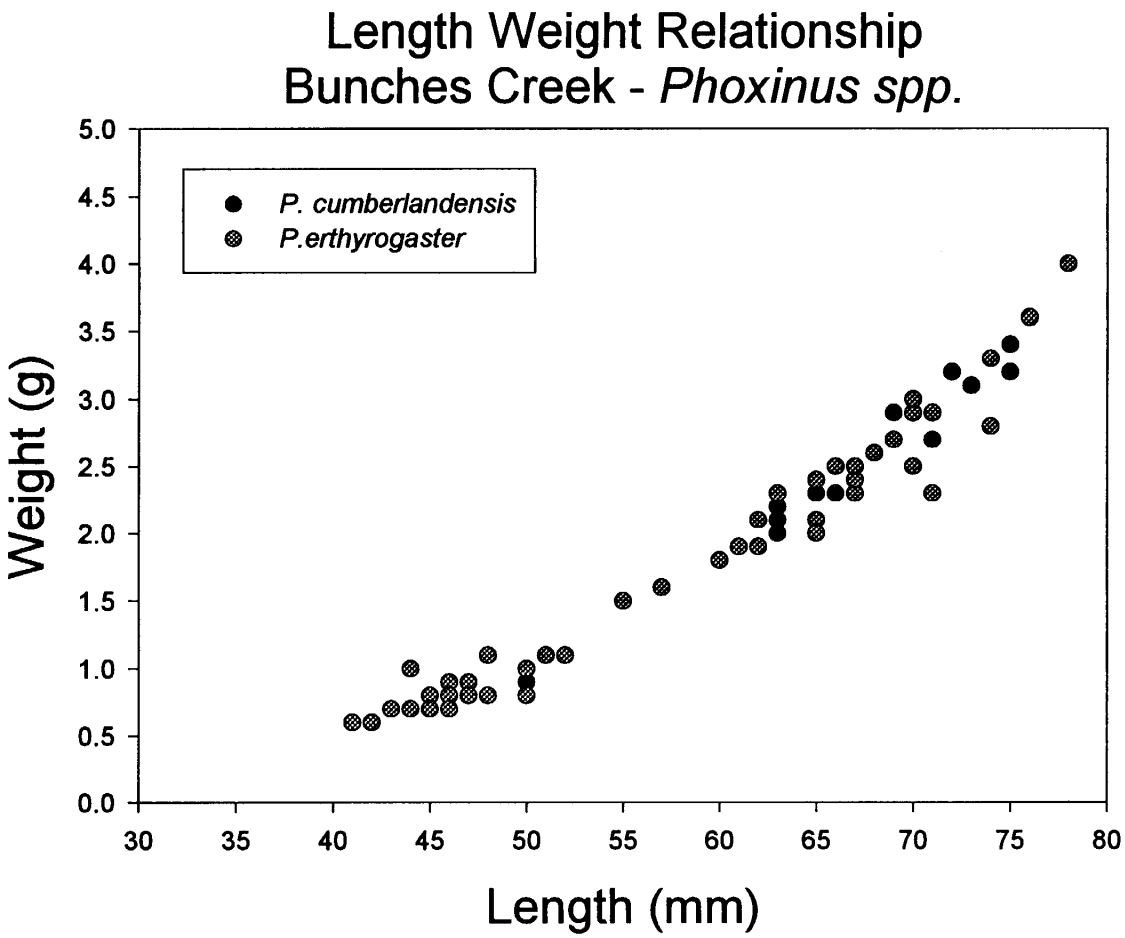

Depth (cm)
100
80
60
40
20
0
Pool - Max
Pool - Avg
Riffle - Crest
Riffle - Max
Riffle - Avg

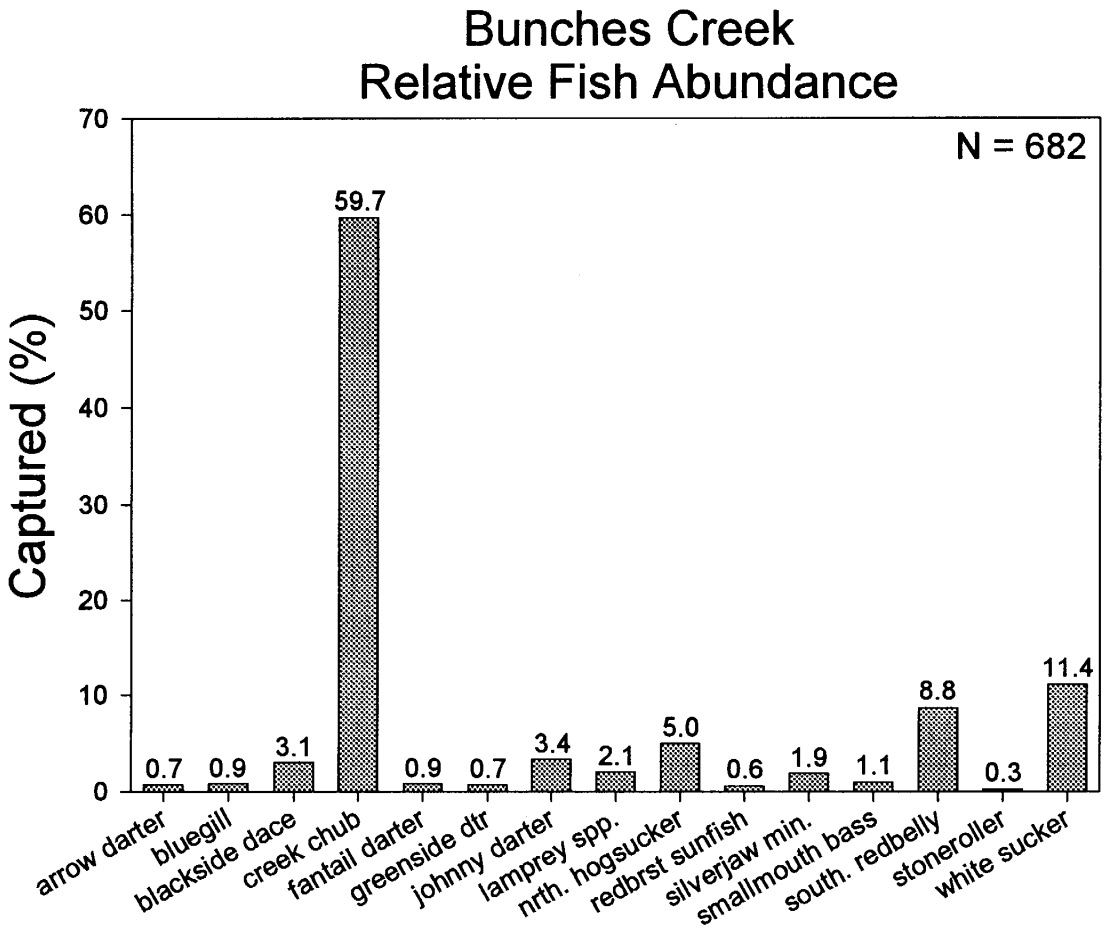

Pool Substrate Composition
Dominant
Subdominant
Subdominant2
Dominant
Subdominant
Subdominant2
Frequency (%)
Cumulative Percent
0
10
20
30
40
50
60
70
80
90
100
Organic
Clay
Silt
Sand
Sm. Gravel
Lg. Gravel
Cobble
Boulder
Bedrock
Size Class


Riffle Substrate Composition
Dominant
Subdominant
Subdominant2
Dominant
Subdominant
Subdominant2
Frequency (%)
Cumulative Percent
0
10
20
30
40
50
60
70
80
90
100
Organic
Clay
Silt
Sand
Sm. Gravel
Lg. Gravel
Cobble
Boulder
Bedrock
Size Class

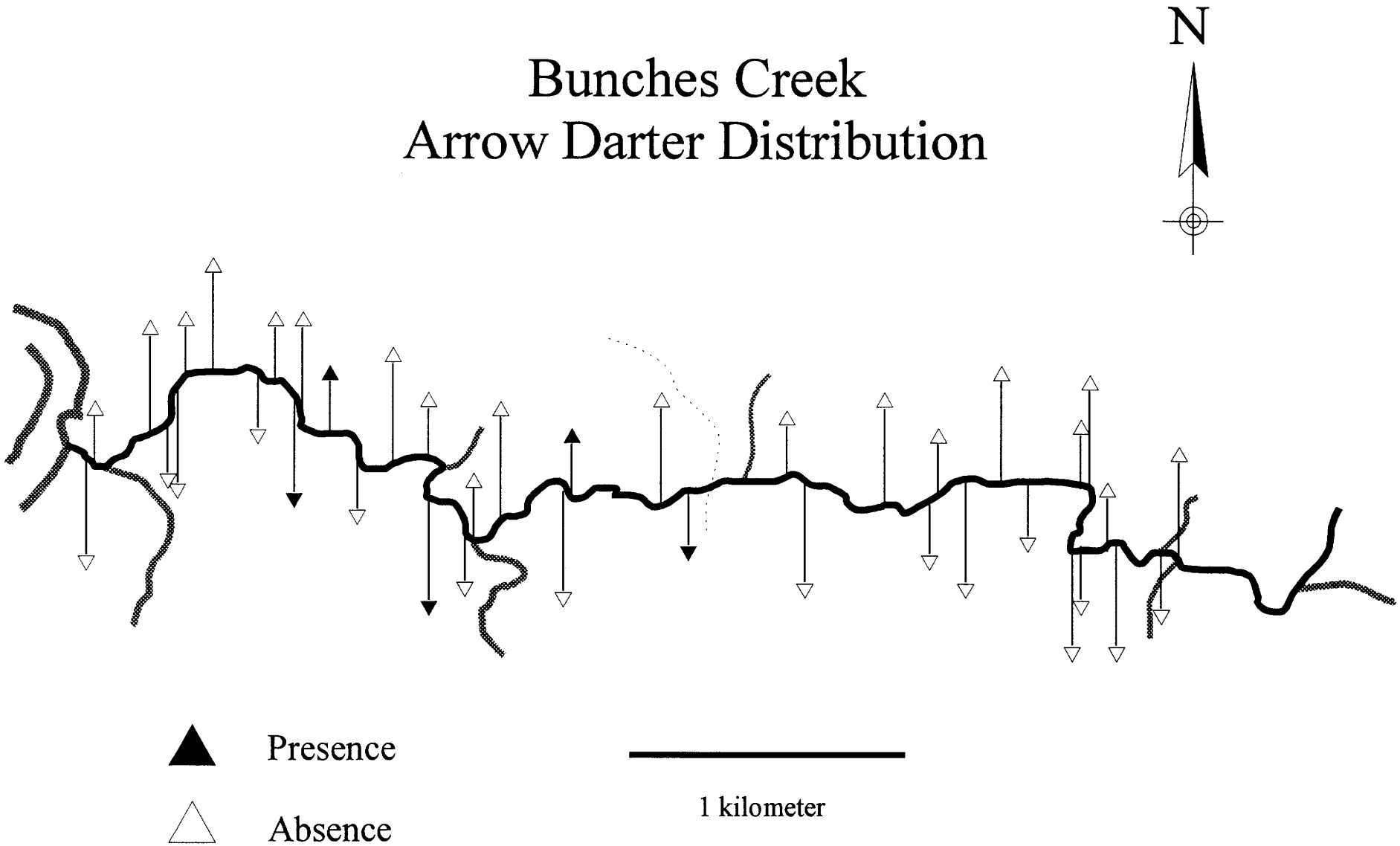
Fish species found in Bunches Creek, Daniel Boone National Forest, Kentucky.

Scientific Name	Common Name
Lampetra aepyptera	least brook lamprey
Campostoma anomalum	central stoneroller
Notropis buccata	silverjaw minnow
Phoxinus cumberlandensis	blackside dace
Phoxinus erythrogaster	southern redbelly dace
Semotilus atromaculatus	creek chub
Catostomus commersoni	white sucker
Hypentelium nigricans	northern hogsucker
Lepomis auritus	redbreast sunfish
Lepomis macrochirus	bluegill
Micropterus dolomieiu	smallmouth bass
Etheostoma blennioides	greenside darter
Etheostoma kennicotti	stripetail darter
Etheostoma nigrum	johnny darter
Etheostoma sagitta	arrrow darter

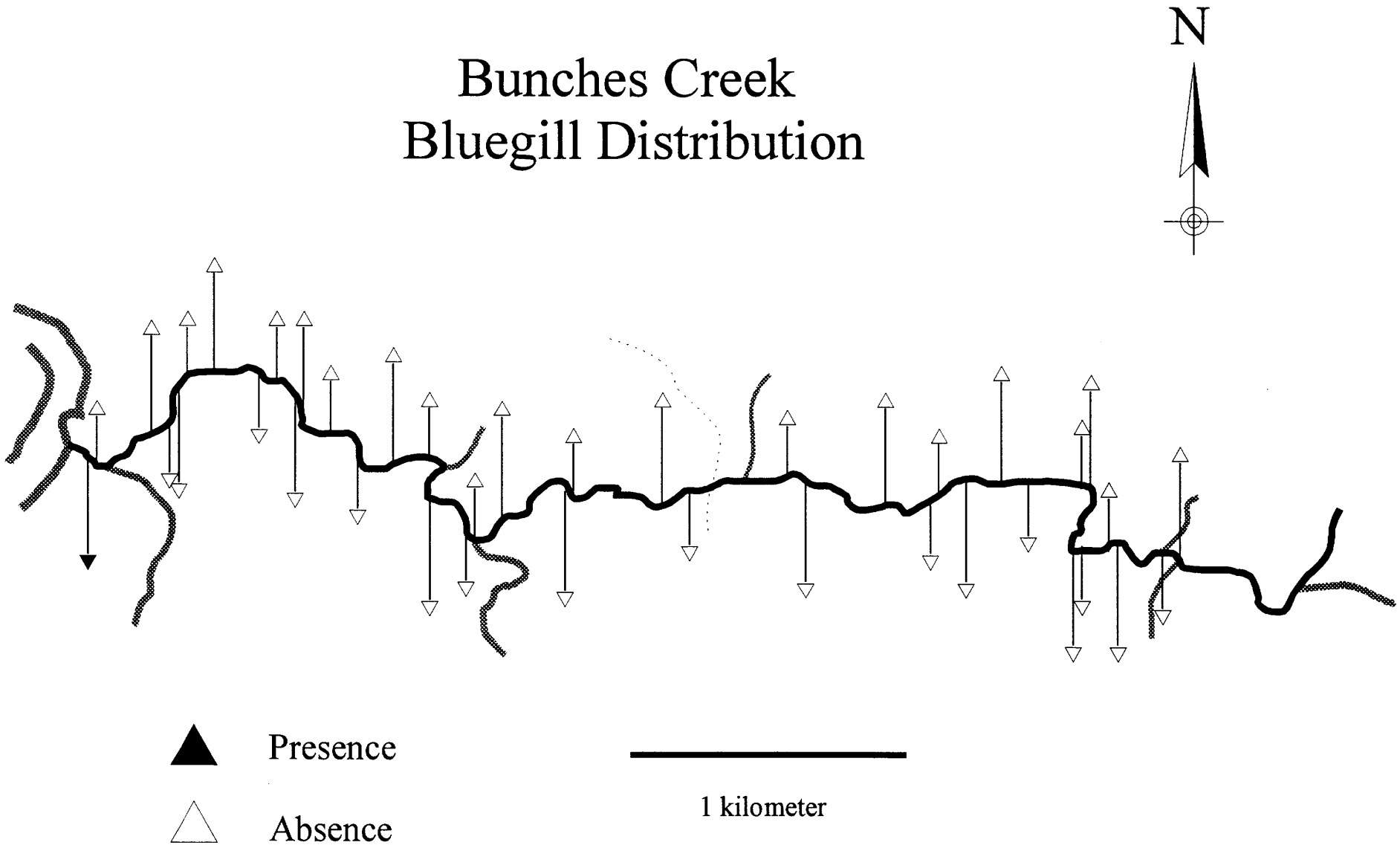

Length Weight Relationship
Bunches Creek - *Phoxinus spp.*
P. cumberlandensis
P.erthyrogaster
Weight (g)
Length (mm)
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
30
35
40
45
50
55
60
65
70
75
80


Bunches Creek
Relative Fish Abundance
N = 682
Captured (%)
0
10
20
30
40
50
60
70
0.7
0.9
3.1
59.7
0.9
0.7
3.4
2.1
5.0
0.6
1.9
1.1
8.8
0.3
11.4
arrow darter
bluegill
blackside dace
creek chub
fantail darter
greenside dtr
johnny darter
lamprey spp.
nrth. hogsucker
redbrst sunfish
silverjaw min.
smallmouth bass
south. redbelly
stoneroller
white sucker

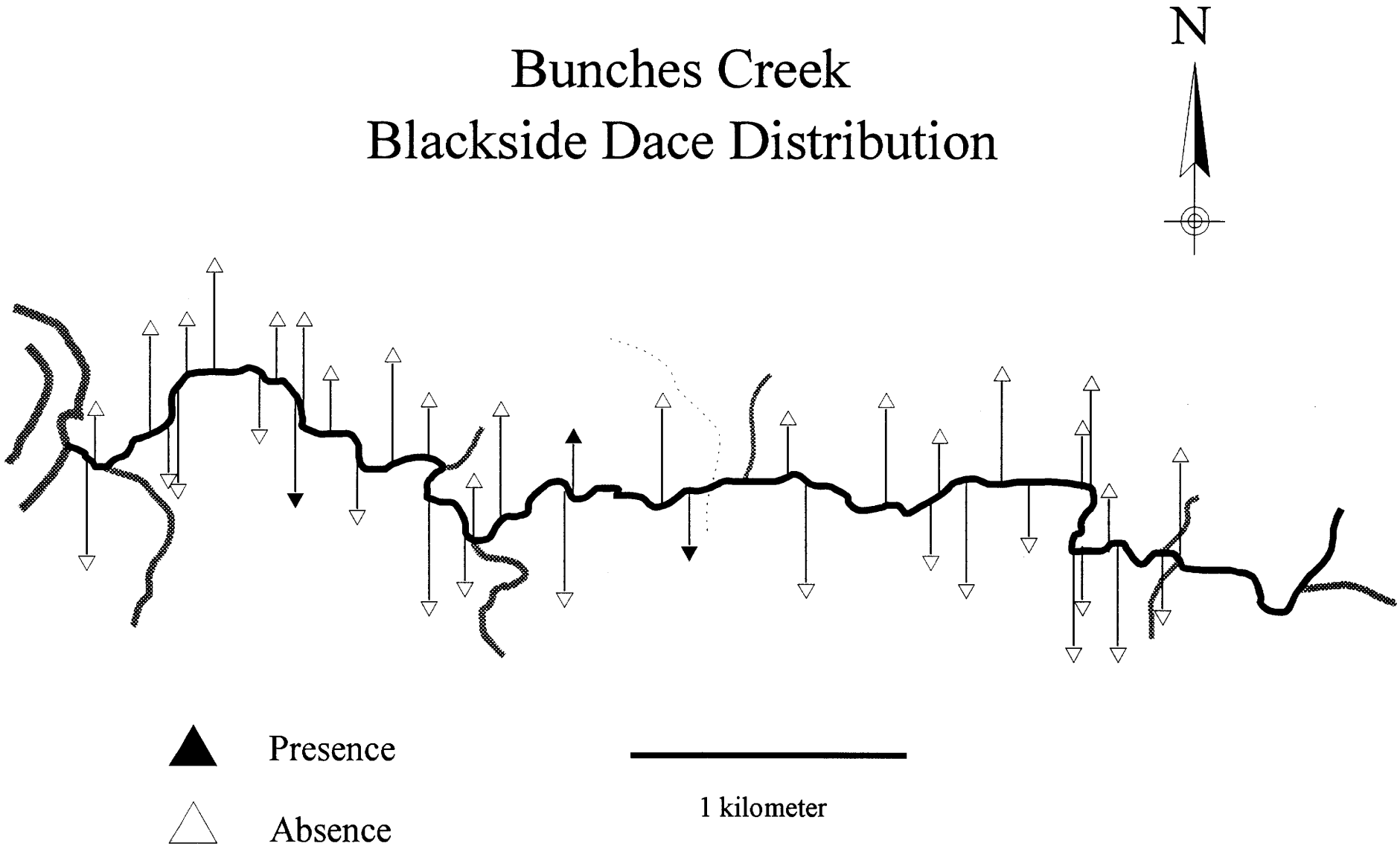
Bunches Creek
Arrow Darter Distribution



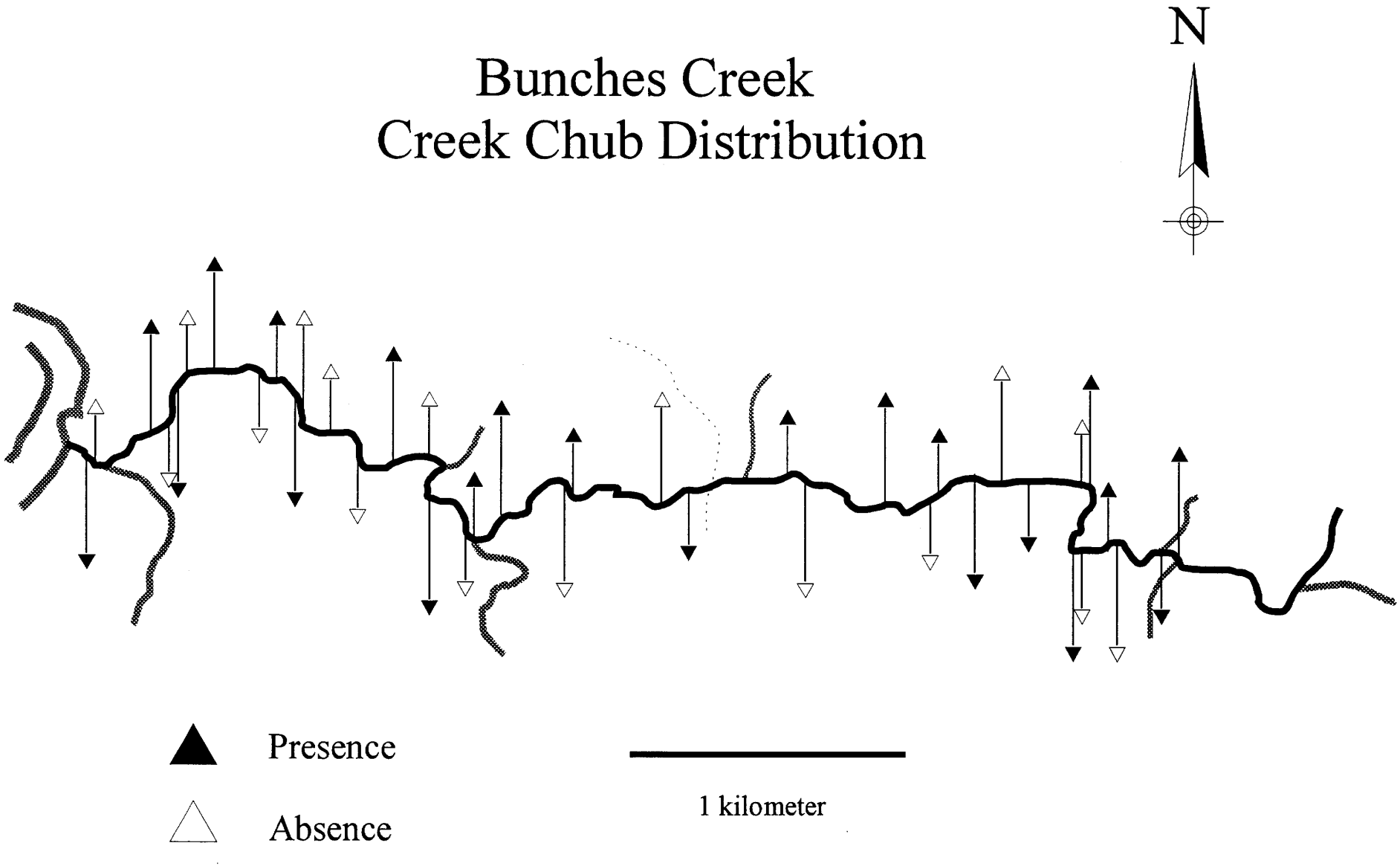
Bunches Creek
Bluegill Distribution



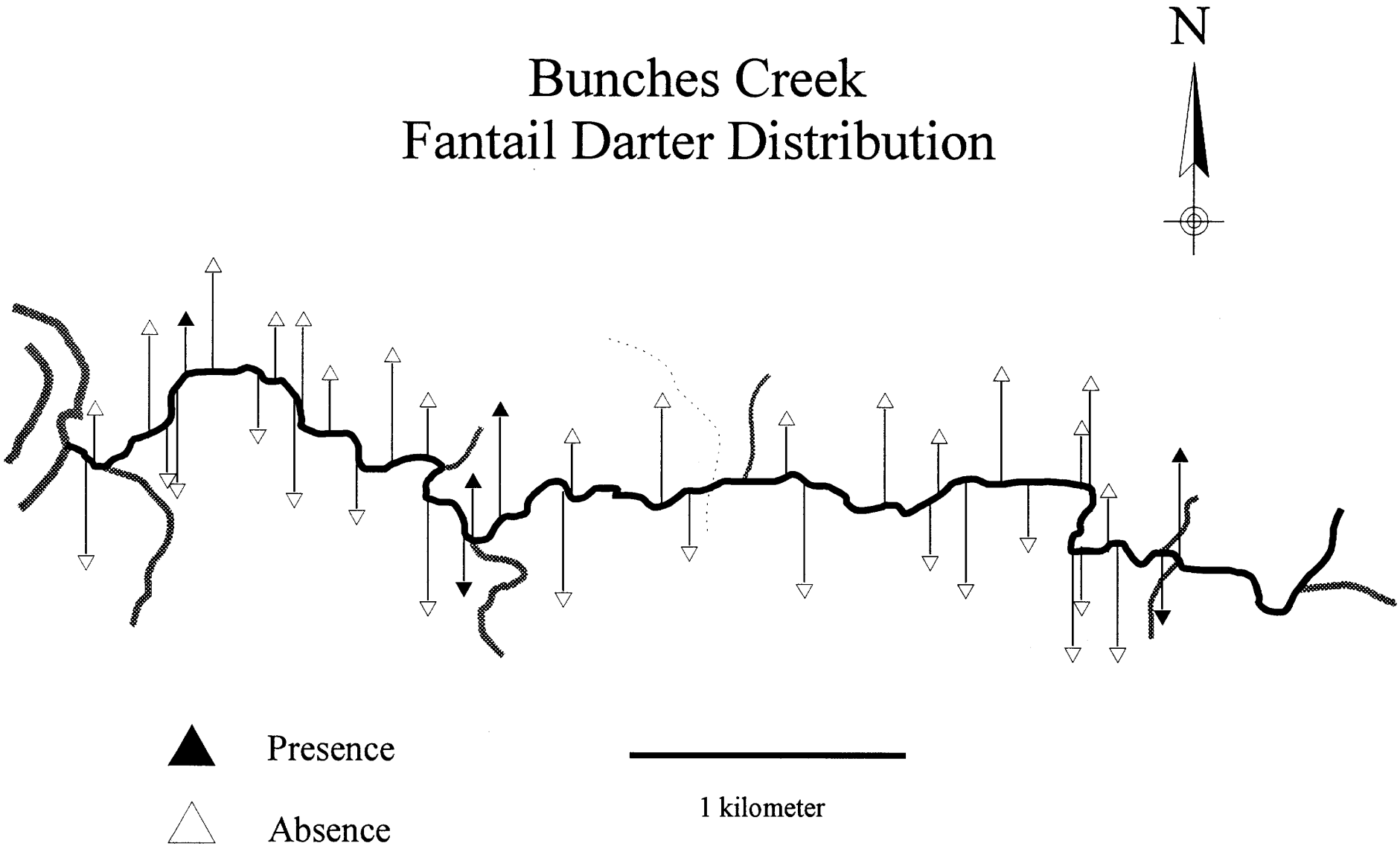
Bunches Creek
Blackside Dace Distribution



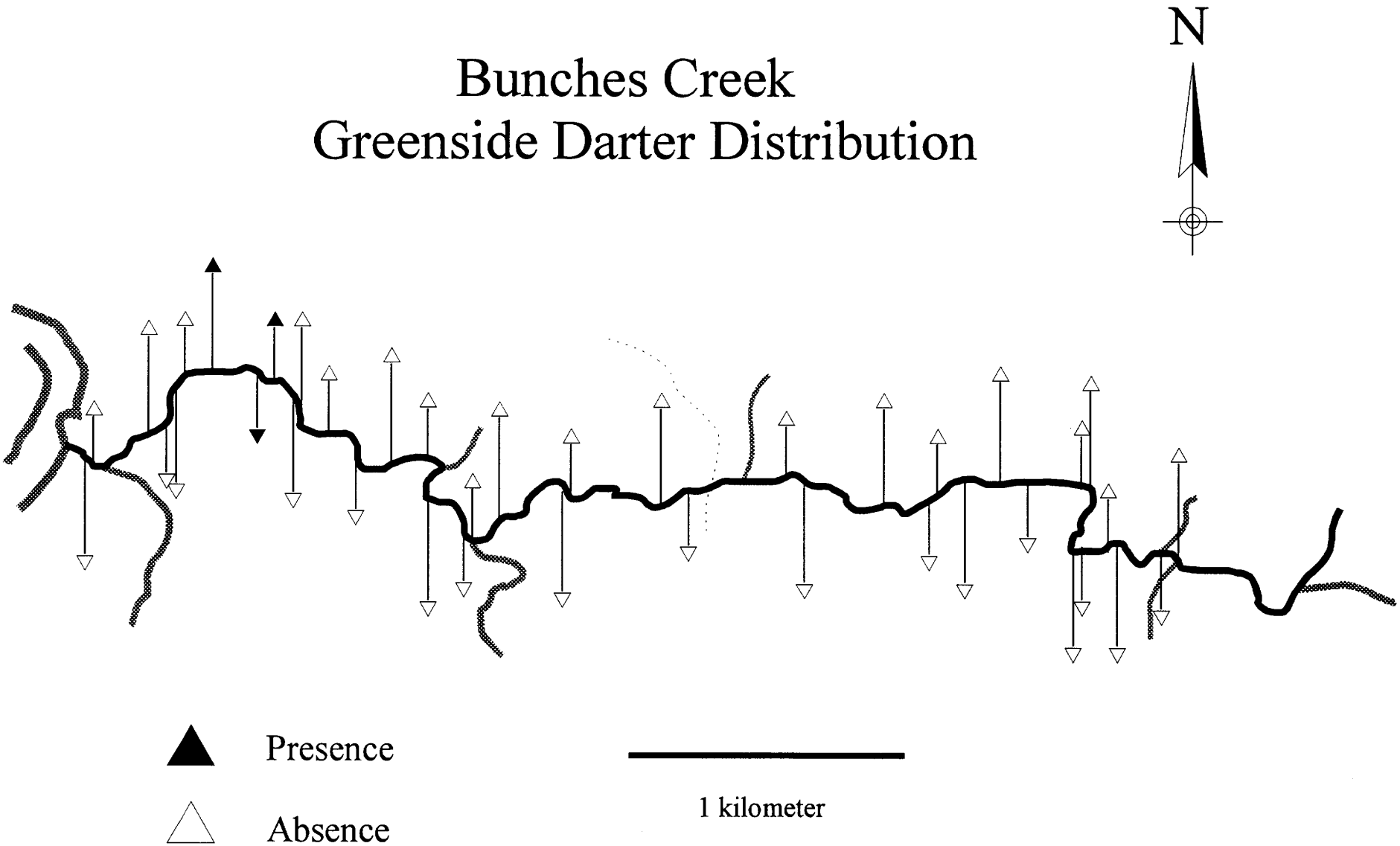
Bunches Creek
Creek Chub Distribution



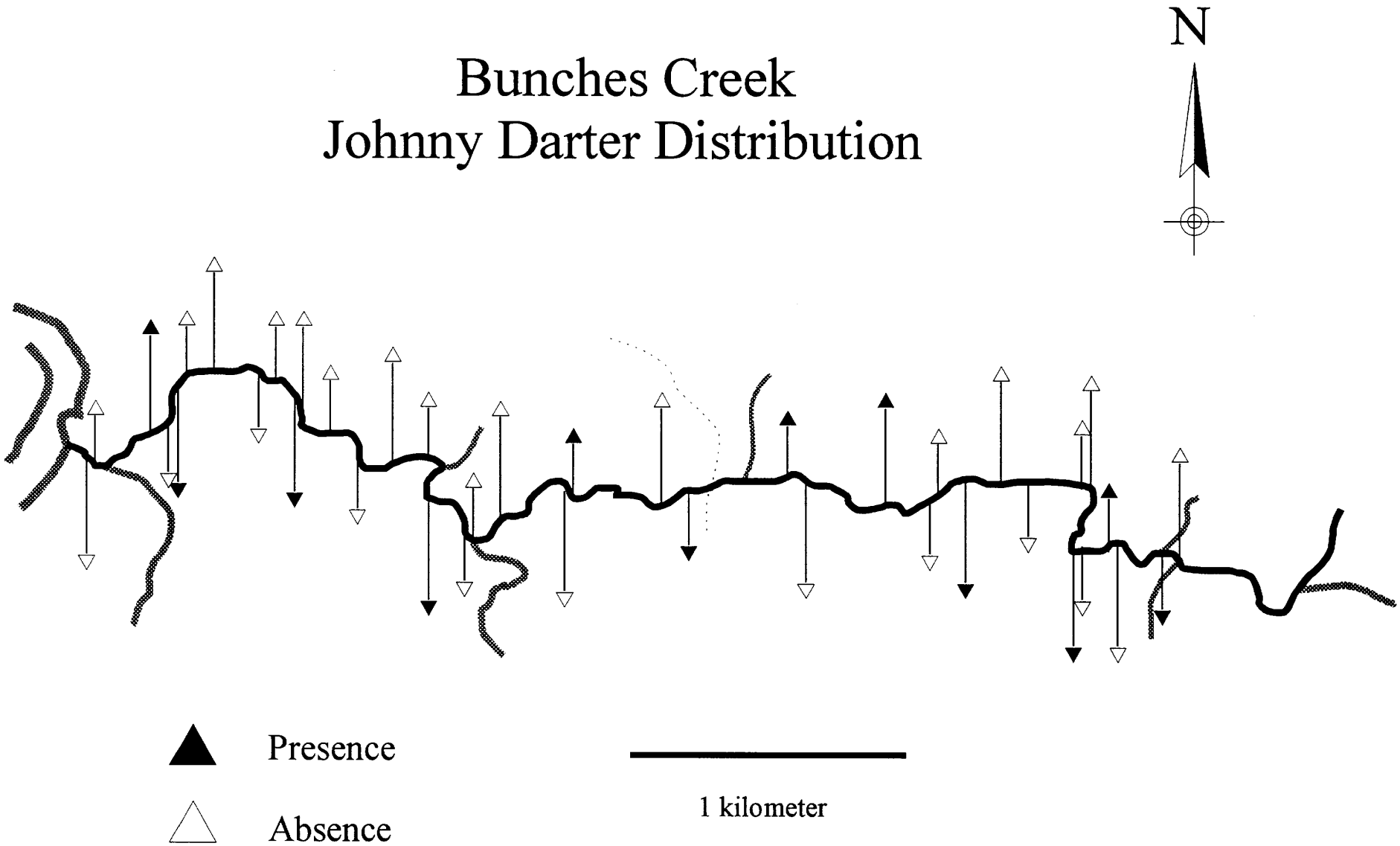
Bunches Creek
Fantail Darter Distribution



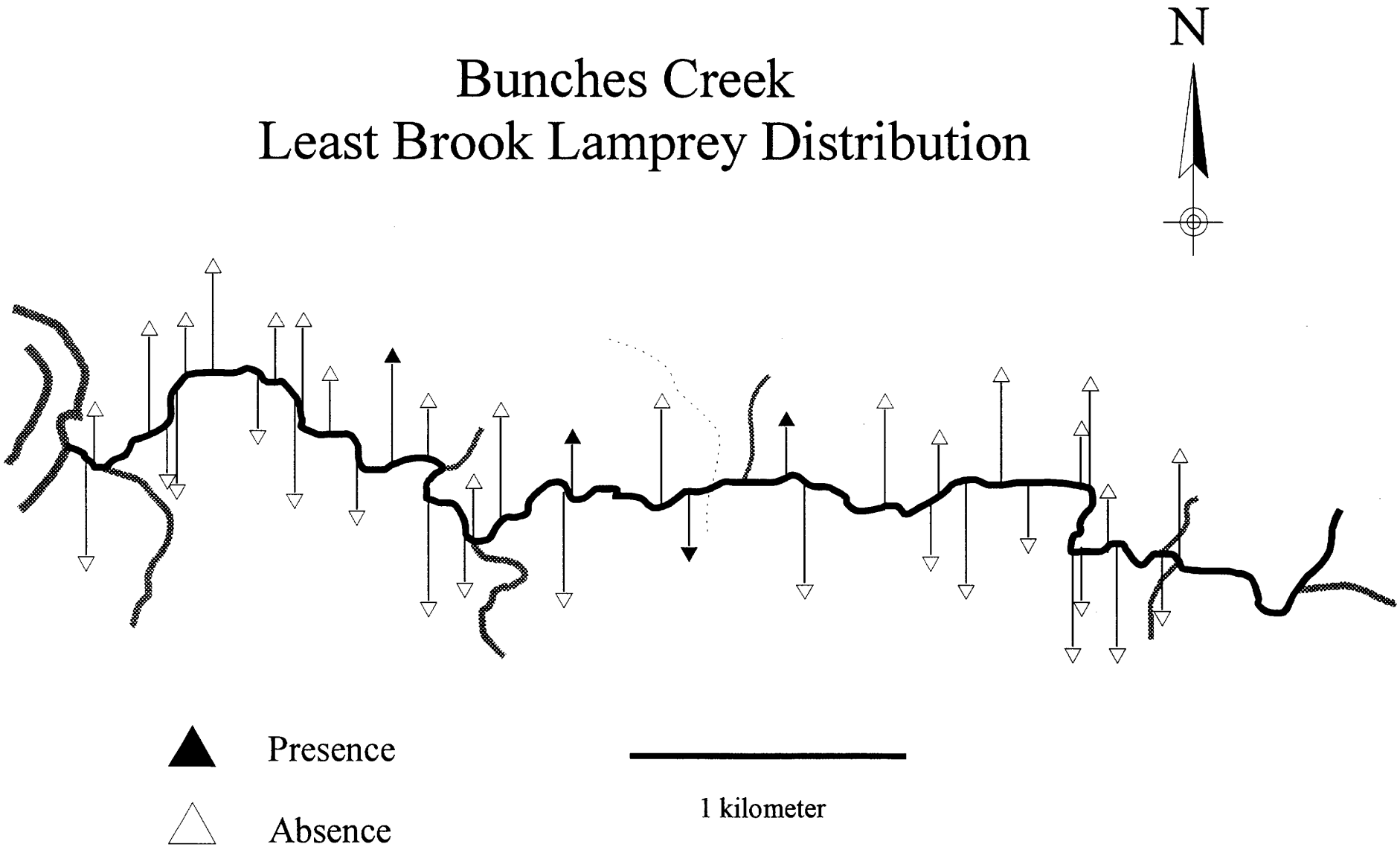
Bunches Creek
Greenside Darter Distribution



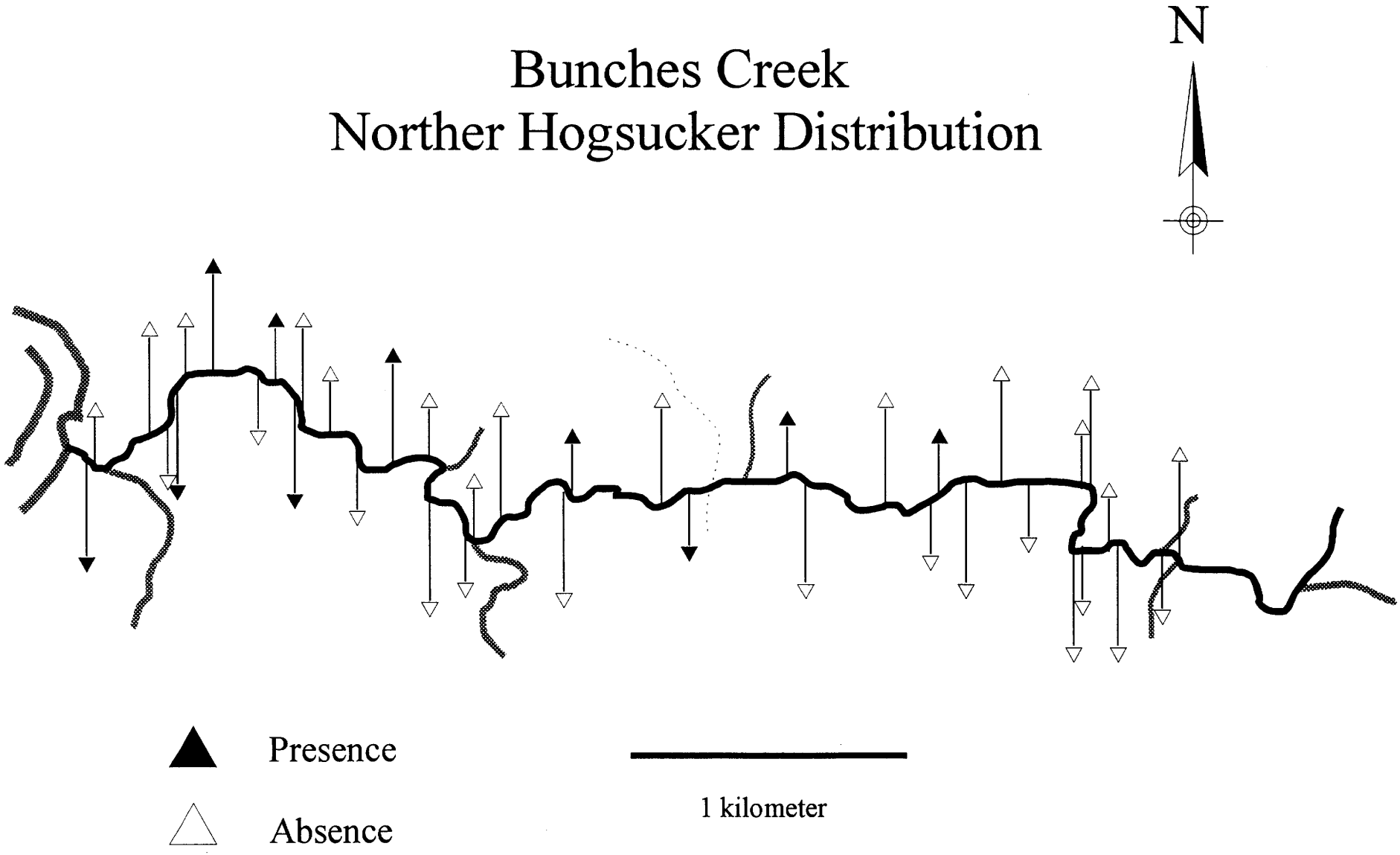
Bunches Creek
Johnny Darter Distribution



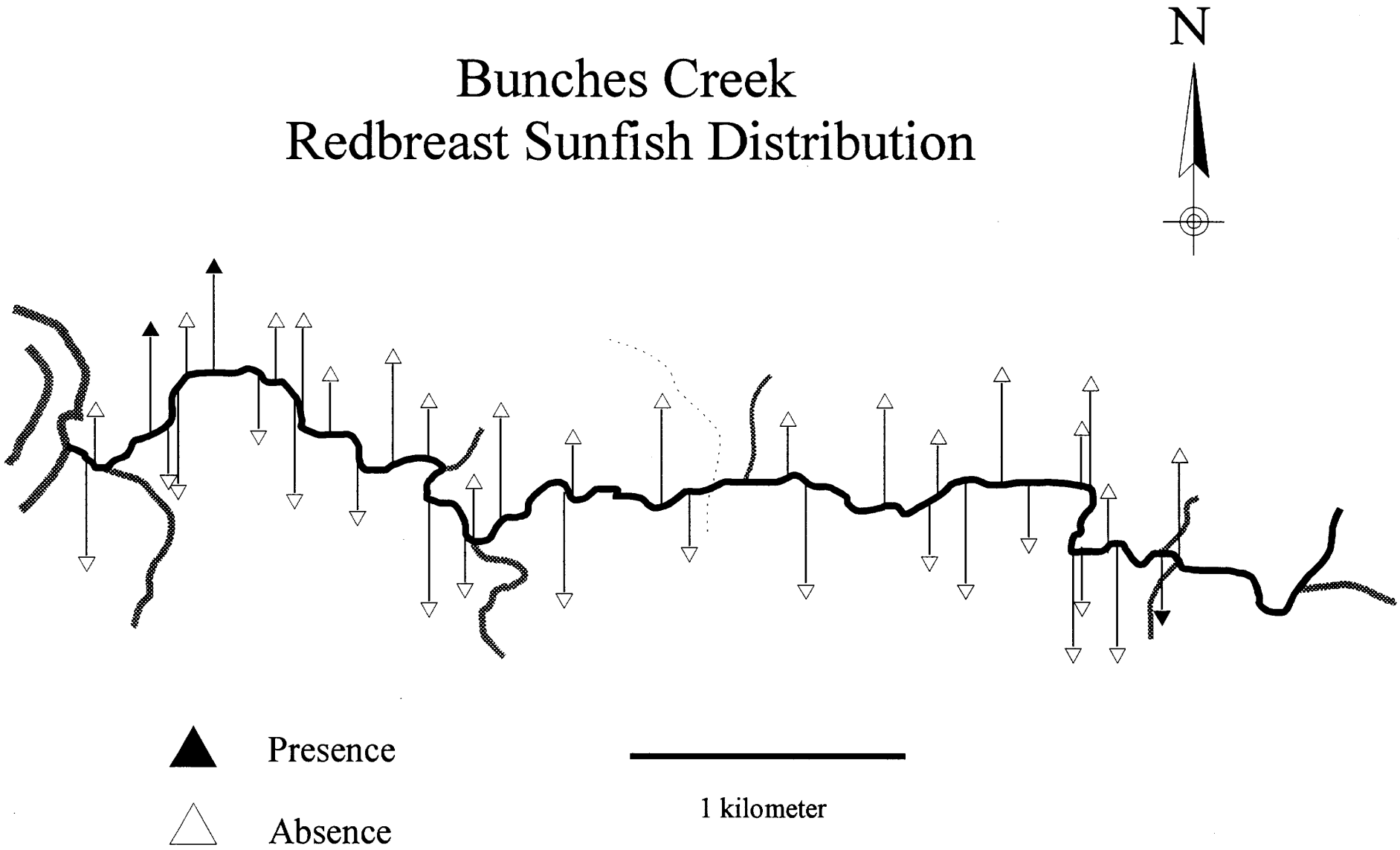
Bunches Creek
Least Brook Lamprey Distribution



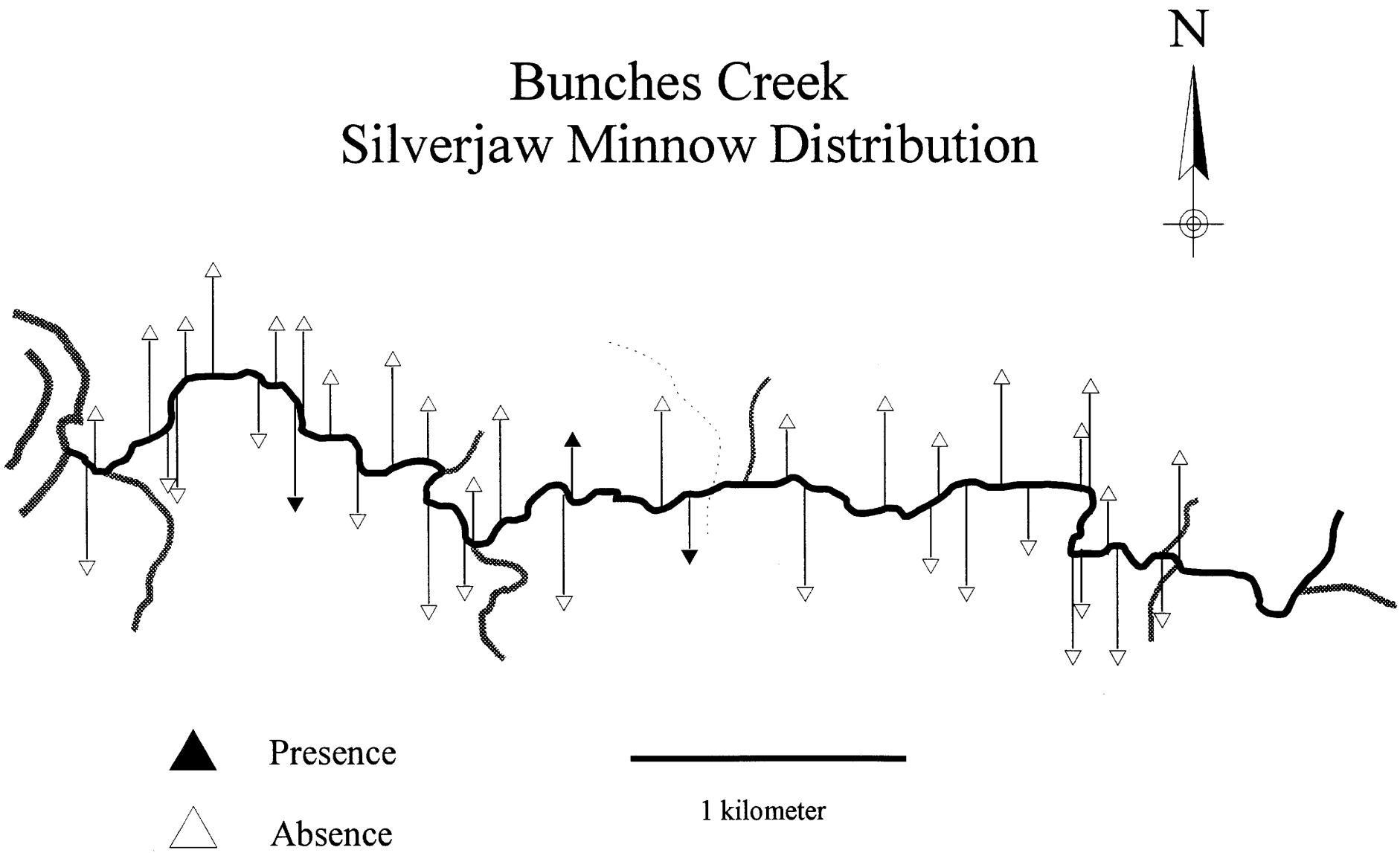
Bunches Creek
Norther Hogsucker Distribution



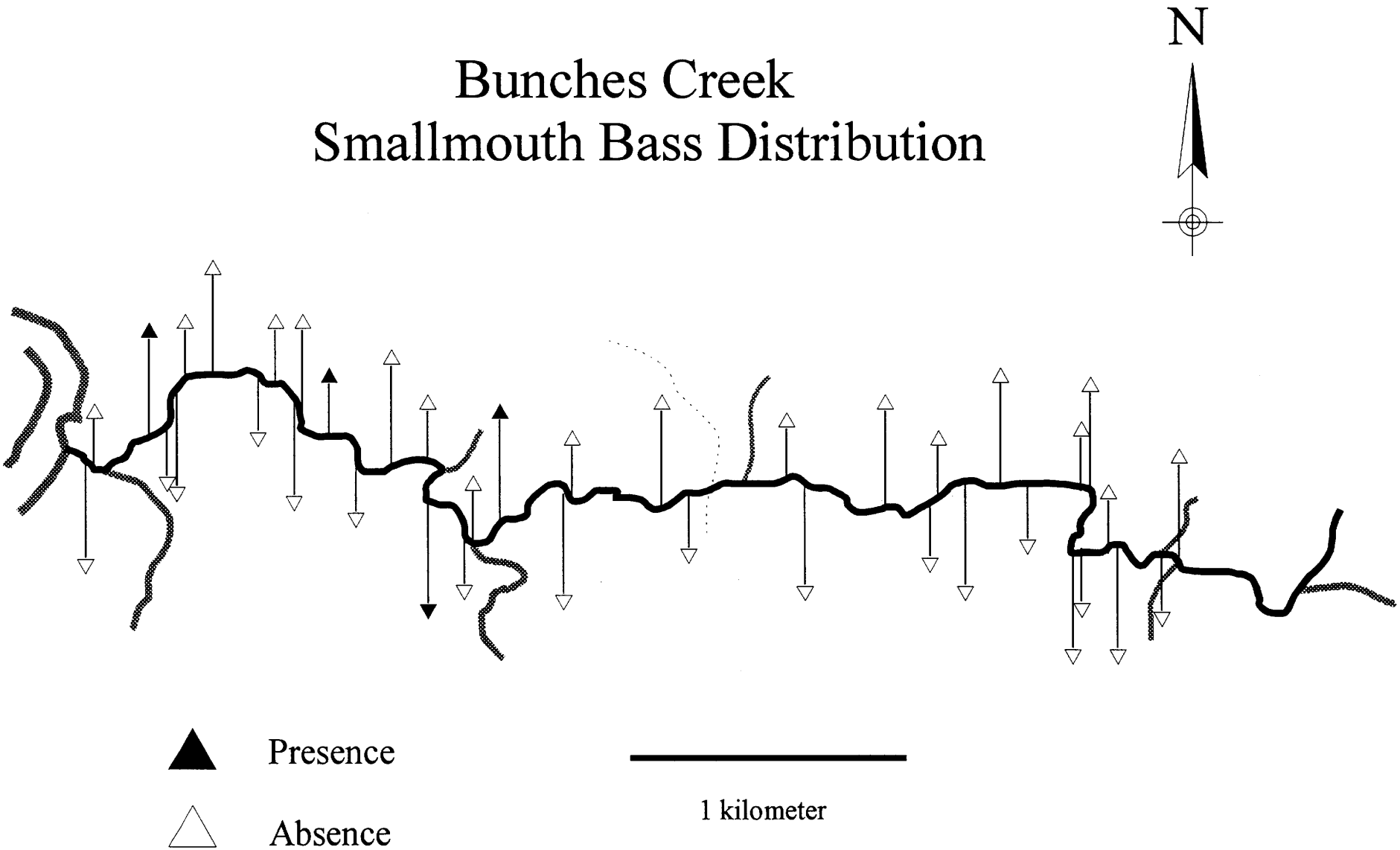
Bunches Creek
Redbreast Sunfish Distribution



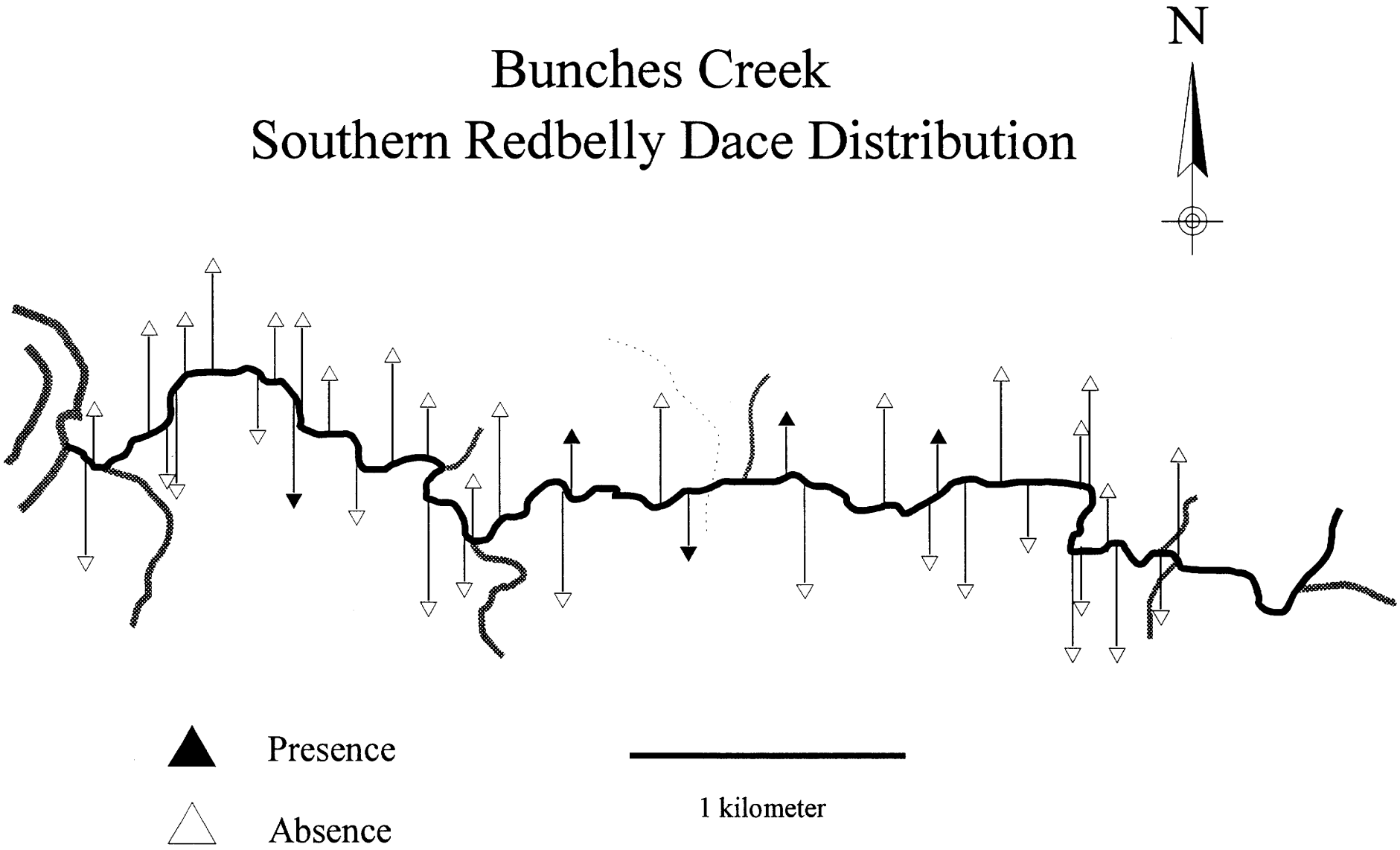
Bunches Creek
Silverjaw Minnow Distribution



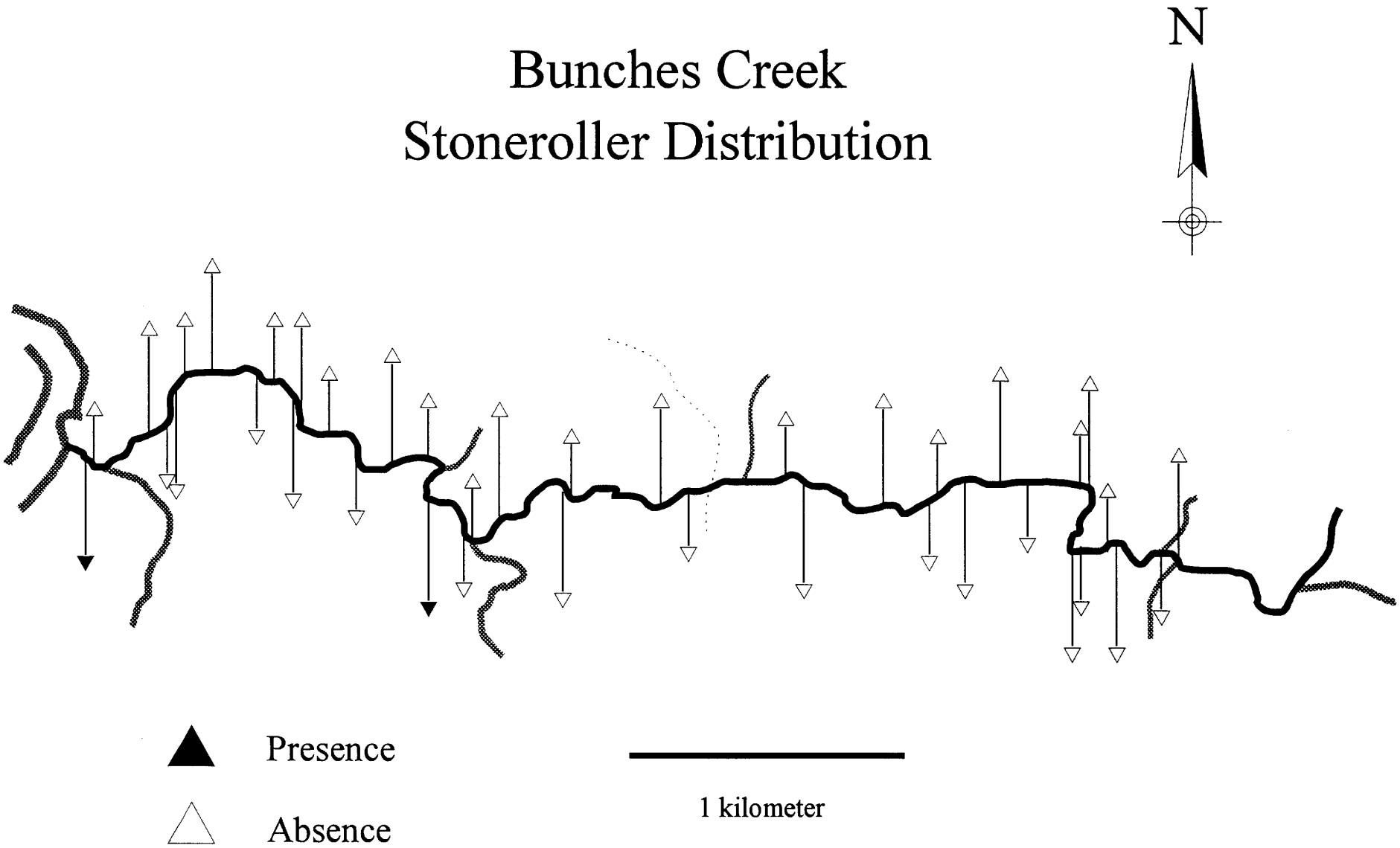
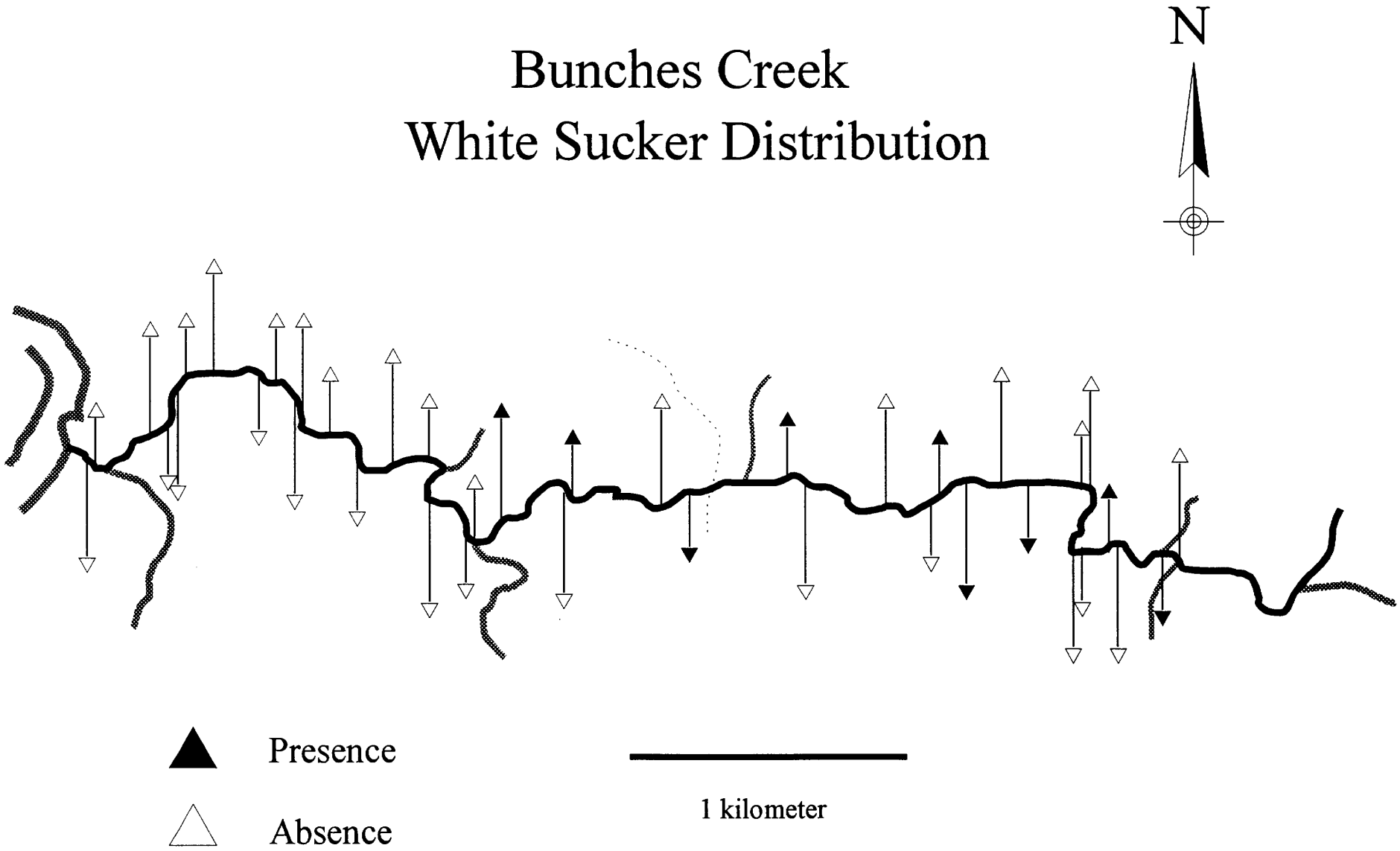
Bunches Creek
Smallmouth Bass Distribution



Bunches Creek
Southern Redbelly Dace Distribution



Bunches Creek
Stoneroller Distribution



Bunches Creek
White Sucker Distribution