- WILSON, JR., W. H. 1989. Predation and the mediation of intraspecific competition in an infaunal community in the Bay of Fundy. J. Exp. Mar. Biol. Ecol. 132:221–245.
- Wilson, Jr., W. H. 1990. Relationship between prey abundance and foraging site selection by Semi-
- The Condor 99:210-213

210

- palmated Sandpipers on a Bay of Fundy mudflat. J. Field Ornithol. 61:9–19.
- Zach, R., and J. B. Falls. 1977. Influences of capturing prey on subsequent search in the Ovenbird (Aves: Parulidae). Can. J. Zool. 55:1958–1969.

The Condor 99:210–213
© The Cooper Omithological Society 1997

AQUATIC COMMUNITY CHARACTERISTICS INFLUENCE THE FORAGING PATTERNS OF TREE SWALLOWS¹

JOHN P. McCarty²

<u>Division of Riological Sciences</u> Section of Ecology and Systematics

Cornell University, Ithaca, NY 14853

Abstract: During periods of inclement spring weather, Tree Swallows (Tachycineta bicolor) were

food sources such as emerging aquatic insects (Dence 1946, Cohen and Dymerski 1986). The ability to ex-

	TABLE 1. Insect emergence from experimental ponds. Mean numbers of insects per pond per day (+SF) are given for each treatment—Emergence in	T.
ft.	1	
, ;		
. 4		
	· · · · · · · · · · · · · · · · · · ·	
7.	•	
{		١.
	•	
.I.		
•		
-		
Ϊij		
	- · · · · · · · · · · · · · · · · · · ·	

swallows are responding to differences in insect emergence, but the mechanism causing the increased insect emergence has not been studied. Although addition of nutrients increases insect production as expected, the presence of fish also increases primary production (Morin et al 1991) but

ponds also affects foraging. It is clear that the

increases primary production (Morin et al 1991) but has a negative effect on insect production (Table 1). Therefore, fish must be having a direct, negative

LITERATURE CITED

Becker, G. C. 1983. Fishes of Wisconsin. Univ. Wisconsin Press, Madison, WI.

Bent, A. C. 1942. Life histories of North American flycatchers, larks, swallows, and their allies. U. S. Government Printing Office, Washington, DC.

BLANCHER, P. J., AND D. K. McNicol. 1988. Breed-

. ,		
I		
•		
		_
	wax of the land: bayberries and Yellow-rumped	low, Iridoprocne bicolor, and its implications for
<u> </u>		
1		
t		
>		
2		
1	ROBERTSON, R. J., B. J. STUTCHBURY, AND R. R. COHEN. 1992. Tree Swallow. In A. Poole, P. Stettenheim, and F. Gill [eds.], The birds of North America, No. 11. The Academy of Natural Sciences, Philadelphia and The American Ornithologists' Union, Washington,	Univ., Ithaca, NY. STUTCHBURY, B. J. AND R. J. ROBERTSON. 1990. Do Tree Swallows use nest cavities as night roosts during territory establishment? J. Field Ornithol. 61:26–33. Turner, A., and C. Rose. 1989. Swallows and mar-