

TABLE 4. Fish Abundance (no./transect) at Station WW, Waianae Ocean Outfall, O‘ahu, Hawai‘i, for 1994 and 1996

	1994		1995		1996	
Taxon	Transect		Transect		Transect	
	Alpha	Beta	Alpha	Beta	Alpha	Beta
FAMILY ACANTHURIDAE						
<i>Acanthurus olivaceus</i>	3	16	0	8	1	13
<i>Acanthurus blochii</i>	0	121	0	3	0	0
<i>Acanthurus nigroris</i>	0	10	0	3	0	5
<i>Acanthurus triostegus</i>	0	0	0	3	0	1
<i>Ctenochaetus strigosus</i>	0	33	0	35	0	18
<i>Zanclus cornutus</i>	0	0	0	3	0	2
<i>Zebrasoma flavescens</i>	0	0	0	5	0	1
FAMILY BALISTIDAE						
<i>Sufflamen bursa</i>	5	0	5	0	1	2
<i>Melichthys vidua</i>	2	0	0	0	0	0
<i>Rhinecanthus rectangulus</i>	1	0	0	1	0	0
FAMILY CHAETODONTIDAE						
<i>Chaetodon miliaris</i>	0	5	0	8	0	30
<i>Chaetodon multicinctus</i>	0	0	0	6	0	1
<i>Chaetodon fremblii</i>	0	0	0	2	0	1
<i>Forcipiger longirostris</i>	0	2	0	2	0	1
FAMILY CIRRHITIDAE						
<i>Paracirrhites forsteri</i>	0	2	0	1	0	0
FAMILY LABRIDAE						
<i>Thalassoma duperrey</i>	3	35	6	8	1	5
<i>Bodianus bilunulatus</i>	2	1	0	2	0	0
<i>Coris gaimard</i>	0	0	0	1	0	0
<i>Anampses chrysocephalus</i>	0	0	0	2	0	0
FAMILY LETHRINIDAE						
<i>Monotaxis grandoculis</i>	0	2	0	0	0	0
FAMILY LUTJANIDAE						
<i>Lutjanus kasmira</i>	0	200	0	60	0	15
FAMILY MONACANTHIDAE						
<i>Pervagor spilosoma</i>	0	0	1	0	0	0
FAMILY MULLIDAE						
<i>Parupeneus multifasciatus</i>	2	6	10	6	0	3
<i>Parupeneus porphyreus</i>	0	2	0	8	0	10
<i>Mulloidichthys flavolineatus</i>	0	5	0	1	0	50
<i>Mulloidichthys vanicolensis</i>	0	0	0	6	0	5
FAMILY HOLOCENTRIDAE						
<i>Myripristis berndti</i>	0	12	0	9	0	20
<i>Sargocentron</i> sp.	0	0	0	12	0	4

TABLE 4—Continued

		1994			1995			1996	
Taxon		Transect			Transect			Transect	
		Alpha	Beta		Alpha	Beta		Alpha	Beta
FAMILY POMACENTRIDAE									
<i>Dascyllus albisella</i>		0	45		5	19		0	46
<i>Chromis agilis</i>		0	10		2	2		0	0
<i>Chromis hanui</i>		0	12		0	6		0	3
<i>Chromis verator</i>		0	2		0	2		0	6
<i>Chromis vanderbilti</i>		0	0		0	5		0	11
<i>Abudefduf sordidus</i>		0	2		0	1		0	5
<i>Abudefduf abdominalis</i>		0	0		0	65		0	45
FAMILY TETRAODONTIDAE									
<i>Arothron hispidus</i>		2	0		1	0		1	0
FAMILY SERRANIDAE									
<i>Epinephelus quernus</i>		0	0		0	1		0	0
FAMILY FISTULARIIDAE									
<i>Fistularia commersonii</i>		0	0		0	1		0	0
Total No. of Individuals		20	523		30	297		4	303
Total No. of Species		8	20		7	33		4	25