

TABLE 4. Fish Abundance (no./transect) at Station WW, Waianae Ocean Outfall, O'ahu, Hawai'i, for 1994 Through 1997

	1994		1995		1996		1997	
Taxon	Transect		Transect		Transect		Transect	
	Alpha	Beta	Alpha	Beta	Alpha	Beta	Alpha	Beta
FAMILY ACANTHURIDAE								
<i>Acanthurus olivaceus</i>	3	16	0	8	1	13	0	5
<i>Acanthurus blochii</i>	0	121	0	3	0	0	0	0
<i>Acanthurus nigroris</i>	0	10	0	3	0	5	0	1
<i>Acanthurus triostegus</i>	0	0	0	3	0	1	0	0
<i>Ctenochaetus strigosus</i>	0	33	0	35	0	18	0	13
<i>Zanclus cornutus</i>	0	0	0	3	0	2	0	1
<i>Zebrasoma flavescens</i>	0	0	0	5	0	1	0	2
FAMILY BALISTIDAE								
<i>Sufflamen bursa</i>	5	0	5	0	1	2	4	2
<i>Melichthys vidua</i>	2	0	0	0	0	0	0	4
<i>Rhinecanthus rectangulus</i>	1	0	0	1	0	0	2	0
FAMILY CHAETODONTIDAE								
<i>Chaetodon miliaris</i>	0	5	0	8	0	30	0	18
<i>Chaetodon multicinctus</i>	0	0	0	6	0	1	0	4
<i>Chaetodon fremblii</i>	0	0	0	2	0	1	0	2
<i>Forcipiger longirostris</i>	0	2	0	2	0	1	0	0
FAMILY CIRRHITIDAE								
<i>Paracirrhites forsteri</i>	0	2	0	1	0	0	0	0
FAMILY LABRIDAE								
<i>Thalassoma duperrey</i>	3	35	6	8	1	5	5	3
<i>Bodianus bilunulatus</i>	2	1	0	2	0	0	0	0
<i>Coris gaimard</i>	0	0	0	1	0	0	0	0
<i>Anampses chrysocephalus</i>	0	0	0	2	0	0	0	2
FAMILY LETHRINIDAE								
<i>Monotaxis grandoculis</i>	0	2	0	0	0	0	0	0
FAMILY LUTJANIDAE								
<i>Lutjanus kasmira</i>	0	200	0	60	0	15	0	12
FAMILY MONACANTHIDAE								
<i>Pervagor pilosoma</i>	0	0	1	0	0	0	0	0
FAMILY MULLIDAE								
<i>Parupeneus multifasciatus</i>	2	6	10	6	0	3	0	2
<i>Parupeneus porphyreus</i>	0	2	0	8	0	10	0	3
<i>Mulloidichthys flavolineatus</i>	0	5	0	1	0	50	0	31
<i>Mulloidichthys vanicolensis</i>	0	0	0	6	0	5	0	12
FAMILY HOLOCENTRIDAE								
<i>Myripristis berndti</i>	0	12	0	9	0	20	0	12
<i>Sargocentron</i> sp.	0	0	0	12	0	4	0	2

TABLE 4—Continued

	1994		1995		1996		1997	
Taxon	Transect		Transect		Transect		Transect	
	Alpha	Beta	Alpha	Beta	Alpha	Beta	Alpha	Beta
FAMILY POMACENTRIDAE								
<i>Dascyllus albisella</i>	0	45	5	19	0	46	0	10
<i>Chromis agilis</i>	0	10	2	2	0	0	0	1
<i>Chromis hanui</i>	0	12	0	6	0	3	0	2
<i>Chromis verator</i>	0	2	0	2	0	6	0	3
<i>Chromis vanderbilti</i>	0	0	0	5	0	11	0	0
<i>Abudefduf sordidus</i>	0	2	0	1	0	5	0	3
<i>Abudefduf abdominalis</i>	0	0	0	65	0	45	0	28
FAMILY TETRAODONTIDAE								
<i>Arothron hispidus</i>	2	0	1	0	1	0	1	1
FAMILY SERRANIDAE								
<i>Epinephelus quernus</i>	0	0	0	1	0	0	0	0
FAMILY FISTULARIIDAE								
<i>Fistularia commersonii</i>	0	0	0	1	0	0	0	1
Total No. of Individuals	20	523	30	297	4	303	12	180
Total No. of Species	8	20	7	33	4	25	4	27