

TABLE 1. Fish Abundance (no./transect) at Station W-2, Waianae Ocean Outfall, O'ahu, Hawai'i, for 1991 Through 1999

Taxon	1991	1992	1993	1994	1995	1996	1997	1998	1999
FAMILY CHAETODONTIDAE									
<i>Chaetodon miliaris</i>	18	13	20	20	11	10	25	20	17
<i>Chaetodon multicinctus</i>	0	1	2	1	3	5	6	6	2
<i>Chaetodon kleinii</i>	2	2	2	9	7	12	8	12	11
<i>Chaetodon ornatissimus</i>	0	3	0	0	0	0	1	1	0
<i>Chaetodon lunula</i>	0	0	1	0	0	0	0	0	1
<i>Forcipiger flavissimus</i>	1	0	1	1	4	6	4	5	2
<i>Chaetodon quadrimaculatus</i>	0	0	0	0	0	0	2	4	0
FAMILY POMACANTHIDAE									
<i>Holacanthus arcuatus</i>	0	0	1	0	0	1	0	0	0
<i>Centropyge potteri</i>	0	0	2	0	1	2	1	1	2
FAMILY ACANTHURIDAE									
<i>Acanthurus olivaceus</i>	0	2	11	7	2	2	3	2	2
<i>Naso lituratus</i>	1	0	1	0	4	3	2	6	4
<i>Naso hexacanthus</i>	2	1	3	12	0	7	11	17	13
<i>Zanclus cornutus</i>	0	1	1	1	2	5	3	4	3
<i>Ctenochaetus strigosus</i>	4	6	3	8	9	6	8	10	20
<i>Zebrasoma flavescens</i>	0	1	12	4	6	11	4	12	18
<i>Acanthurus thompsoni</i>	0	1	0	0	0	0	0	0	0
<i>Acanthurus nigroris</i>	3	4	4	5	4	0	3	9	6
<i>Acanthurus</i> sp.	0	0	0	25	5	3	12	2	8
<i>Acanthurus nigrofuscus</i>	0	0	0	3	0	1	0	0	1
<i>Naso unicornis</i>	0	0	0	0	0	0	0	17	0
FAMILY POMACENTRIDAE									
<i>Dascyllus albisella</i>	25	21	13	11	40	17	16	19	15
<i>Chromis agilis</i>	0	0	1	4	4	1	0	0	0
<i>Chromis hanui</i>	0	1	6	8	8	14	8	7	4
<i>Chromis verator</i>	0	0	0	0	0	0	0	0	5
<i>Stegastes fasciolatus</i>	0	0	0	0	0	0	0	4	1
<i>Abudefduf sordidus</i>	0	0	0	0	0	0	0	5	3
FAMILY LABRIDAE									
<i>Thalassoma duperrey</i>	6	12	4	5	11	4	8	7	18
<i>Labroides phthirophagus</i>	1	1	0	0	1	2	2	2	0
<i>Thalassoma ballieui</i>	0	0	1	0	1	0	0	1	1
<i>Gomphosus varius</i>	0	0	0	0	2	2	0	0	0
FAMILY BALISTIDAE									
<i>Sufflamen bursa</i>	1	2	3	4	4	3	2	7	3
<i>Rhinecanthus rectangulus</i>	1	0	1	0	1	2	1	0	0
<i>Melichthys vidua</i>	0	2	2	1	1	5	5	3	2
<i>Melichthys</i> sp.	0	0	1	0	1	1	2	1	0
FAMILY MULLIDAE									
<i>Mulloidichthys flavolineatus</i>	0	0	11	0	0	12	7	2	3
<i>Parupeneus multifasciatus</i>	2	2	1	2	1	2	7	3	1
<i>Parupeneus porphyreus</i>	1	3	8	1	0	0	0	0	0

TABLE 1—*Continued*

Taxon	1991	1992	1993	1994	1995	1996	1997	1998	1999
FAMILY LUTJANIDAE									
<i>Lutjanus kasmira</i>	50	33	18	60	32	33	30	28	35
FAMILY MONACANTHIDAE ⁰									
<i>Pervagor spilosoma</i>	1	4	0	0	0	0	0	0	0
FAMILY DIODONTIDAE									
<i>Diodon hystrix</i>	0	0	0	1	1	1	2	5	1
<i>Diodon holocanthus</i>	0	0	0	0	0	0	0	0	7
FAMILY TETRAODONTIDAE									
<i>Canthigaster jactator</i>	0	1	0	0	2	1	0	1	1
<i>Arothron hispidus</i>	1	0	1	1	1	0	2	6	2
FAMILY SCARIDAE									
<i>Scarus dubius</i>	0	1	0	0	0	3	0	1	0
FAMILY CIRRHITIDAE									
<i>Paracirrhites forsteri</i>	0	2	1	1	1	0	0	1	0
FAMILY LETHRINIDAE									
<i>Monotaxis grandoculis</i>	0	0	2	0	0	0	0	5	0
FAMILY AULOSTOMIDAE									
<i>Aulostomus chinensis</i>	0	0	0	1	0	0	0	2	2
FAMILY MURAENIDAE									
<i>Gymnothorax meleagris</i>	1	0	0	0	1	1	0	0	1
Total No. of Individuals	121	120	138	196	171	178	185	238	215
Total No. of Species	18	24	30	25	30	31	28	36	33

