

# Summary of Shrimp Mariculture Production Data at Texas A&M University, 1969-1978

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AT TEXAS A&M UNIVERSITY, 1969-1978

by

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## ABSTRACT

Since it began, shrimp mariculture research in Texas has been supported by The Texas A&M University System and the Texas A&M Sea Grant College Program. This paper summarizes the development of shrimp mariculture in Texas and the research objectives of shrimp culture facilities at Angleton and Corpus Christi, Texas. In addition, it presents weekly growth and water quality data from research at the facilities between 1969 and 1978.

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## INTRODUCTION

Recently, much attention has been given to the development of a shrimp mariculture industry in the United States. Shrimp is expensive, and consumer demand for shrimp and shrimp products is high and constant. Half the shrimp consumed in the country is imported. Costs of operating shrimp trawlers have increased steadily as a result of rising fuel prices and interest rates (Fisher, 1975; Brown, 1977). Texas, with its long growing season and abundance of suitable land, has been in the forefront of shrimp mariculture research, most of which has been supported by the Sea Grant College Program at Texas A&M University. Sea Grant has provided funds for research, technical reports and public education.

Shrimp mariculture research in the United States began in 1963 when Dr. Motosaku Fujinaga, Japan's "father of shrimp culture," visited the National Marine Fisheries Service (NMFS) laboratory at Galveston, Texas. Using techniques developed by Japanese scientists, NMFS researchers there spawned and reared larvae of two shrimp species native to the Gulf of Mexico, Penaeus setiferus and Penaeus aztecus.

This early work stimulated industry to investigate the commercial potential of mariculture. Dow Chemical, Ralston Purina, Armour, Florida Power and Light, and Central Power and Light companies became deeply involved in early shrimp farming ventures. In 1967 Marifarms Inc. was established in Florida. Soon thereafter Sea Farms Inc. of Key West began producing penaeid shrimp and fish (Hanson and Goodwin, 1977). In the late 1960's and early 1970's several other companies began shrimp farming.

The Coca-Cola Company, Weyerhaeuser Company and Union Carbide (Anonymous, 1978), in cooperation with government agencies and universities, became involved in research and development of both engineering and biological aspects of shrimp mariculture. Work has also been done at the University of Miami's Institute of Marine Science and at the Ocean Springs Laboratory in Mississippi.

In Texas, NMFS at Galveston and Texas A&M in Brazoria County and Corpus Christi, in cooperation with Ralston Purina, have made important advances in shrimp mariculture. This report provides a brief history of shrimp mariculture research at Texas A&M facilities near Angleton and Corpus Christi and presents growth and water quality data from experiments performed there between 1969 and 1978.



## RESEARCH AT THE TEXAS A&M SYSTEM

Since the late 1960's researchers of The Texas A&M University System, with support from Sea Grant, other state and federal agencies and industry, have made significant technological progress toward commercial production of shrimp (Adams et al., 1980; Hanson, 1979; and Goodwin, 1977). Production experiments are performed at mariculture facilities near Angleton and Corpus Christi. Studies have used native Gulf of Mexico shrimp (Penaeus aztecus, P. duorarum and P. setiferus) and several Central American shrimp (notably P. stylirostris and P. vannamei) (Brown, 1977). Early studies showed that P. setiferus, P. stylirostris and P. vannamei are superior in growth, maturation and ease of culture (Parker, 1974a,b, 1978; Parker and Holcomb, 1973).

Sea Grant has supported many aspects of shrimp mariculture research. Through studies of nutrition and growth a low-cost feed has been developed that promotes optimum growth of shrimp in captivity (Parker and Holcomb, 1973; Gould et al., 1973; Parker, 1975; Rubright et al., 1981).

Disease and parasitism can drastically decrease production in culture facilities. Research in bacteriology, virology, parasitology and immunology has received high priority because efficient shrimp production depends on diagnosis, treatment and prevention of health problems (Lewis, 1976, 1981; Johnson, 1974a, b, c, d, 1975a, b; 1976a, b; Johnson et al., 1974).

Independence from wild shrimp populations is necessary before

shrimp mariculture can become a successful industry. Therefore, achieving all stages of the life cycle -- spawning, maturation, reproduction -- in captivity has been another thrust of the program. Penaeus setiferus, P. vannamei and P. stylirostris have spawned in the maturation/reproduction facility near Corpus Christi (Brown et al., 1979, 1980; Middleditch et al., 1979, 1980; Lawrence et al., 1979, 1980; Chamberlain et al., 1980; Chamberlain and Lawrence, 1981). Cryogenic storage is being investigated as a means of transporting the nauplius larvae of shrimp and Artemia (brine shrimp), the food for the mysis larval stages, to remote facilities (Baust and Lawrence, 1979, 1980a, b).

Economists have incorporated shrimp production, environmental and economic data obtained from these studies into a computerized bioeconomic model. The model predicts which pond conditions result in highest shrimp production and profits, and management strategies may be adjusted accordingly (Adams et al., 1980; Hanson, 1979; Griffin et al., 1981; Johns et al., 1981).

## THE ANGLETON MARICULTURE FACILITY

In 1968 Sea Grant provided funds to the Texas Agricultural Extension Service to support mariculture research on the Texas Coast, and Texaco provided land on the West Galveston Bay shore near Angleton in Brazoria County (Parker, 1969). Pond construction began in February 1969 with equipment and personnel from the Brazoria County Commissioner's Court and the Brazoria County Mosquito Control District (Parker, 1969). Early facilities included 10 one-half-acre (0.2-ha) ponds and three natural marsh ponds from 1.0 to 2.5 acres (0.4-1.0 ha).

In 1969 and 1970 research focused on comparison of pelleted supplemental shrimp feeds of low and high protein content (Parker and Holcomb, 1973). It soon was obvious that the production capacity of P. setiferus was superior to that of P. aztecus and P. duorarum (Holcomb and Parker, 1973). During 1969-1971 criteria were established for site selection and preliminary pond design and management, and an efficient harvest system was developed (Holcomb and Parker, 1973). Ten ponds were added in 1971, bringing the number of ponds to 20. Inorganic fertilizer added to the system enhanced shrimp production, and a fertilizing rate was established. Also in 1971 it was established that extruded flake feeds were superior to pellet feeds. Shrimp fed extruded flake feeds of two different protein levels (35 and 45 percent) showed no idfference in growth rates.

In 1972 two different fertilization rates were compared, as were extruded flake feeds of 25 percent and 35 percent protein. Again, protein content made no difference in shrimp growth rates.

In 1972 a raceway was incorporated into the pond system to allow exchange of water between ponds.

In 1973 it was determined that the production of two non-native shrimp species (P. vannamei and P. stylirostris) was comparable, if not superior, to that of the Gulf species.

During 1974 two five-acre (2.0-ha) ponds, were constructed with funding from Booth Fisheries to evaluate production and costs of production of shrimp fed natural food and supplemental rations (Parker, 1975). Extruded flake feed containing only 20 percent protein produced shrimp growth rates as high as the feeds tested in 1971 and 1972. Using the low-protein feed further lowers the cost of shrimp production.

Sourcing -- collecting gravid (egg-bearing) females in the wild and taking them to the laboratory to spawn (Bardach et al., 1972) -- was emphasized between 1975 and 1977. Spawning sites of P. setiferus were found near Freeport and Port Aransas, Texas. It was determined that P. setiferus spawns from May through August and that they mate at dusk (Parker, 1978). Paralleling the sourcing program, a hatchery program was developed at the NMFS hatchery at Galveston. More than 300 mated females were delivered to the hatchery and spawned 40 million eggs. From these eggs, 30 million nauplius larvae and 5.5 million post-larvae were produced.

Since 1978 research has focused on pond ecology. Understanding relationships between pond dynamics and shrimp production is a key to shrimp mariculture's success. At present, the research focuses on changes that occur in the pond as a result of management practices, specifically the effects of inorganic fertilizer, supplemental feeding, aeration and water exchange on water quality and populations of phytoplankton, zooplankton, benthos and shrimp. The cast net sampling technique for estimating shrimp populations is also being perfected.

## THE CORPUS CHRISTI MARICULTURE FACILITY

In 1972 Texas A&M, with the cooperation of the Central Power and Light Company (CP&L), constructed a unique three-level shrimp production facility adjacent to CP&L's Barney M. Davis Power Station at Flour Bluff near Corpus Christi (Colunga, 1974). The three-pond series includes a one-eighth-acre (0.05-ha) nursery pond, a one-quarter-acre (0.1-ha) intermediate pond and a one-half-acre (0.2-ha) grow-out pond. As the shrimp grow they pass through the series of ponds, using each to its capacity. The three-pond system was tested with P. vannamei in 1973. Two record harvests yielded a total of 4,064 lb/acre of 61-count whole shrimp and 4,696 lb/acre of 62-count whole shrimp (Conte and Parker, 1974). Theoretically, the system could produce three crops per year with an extrapolated annual yield of more than 8,000 lbs per acre.

In 1974 18 one-quarter-acre (0.1-ha) ponds were constructed that can be filled with water from either the Laguna Madre or the power plant's cooling lake (Chamberlain et al., 1980). In 1974 work began on evaluation of heated effluent for overwintering broodstock of P. vannamei, P. stylirostris and P. setiferus for maturation (Conte, 1975). This work was resumed in 1978 (Conte et al., 1977).

During 1975 experiments tested the production of P. vannamei, P. stylirostris and P. setiferus at different stocking densities.

Early entry studies (stocking nauplii directly and omitting the hatchery stage) were made in 1976 for P. setiferus. No production data

were obtained that year.

In 1977 six ponds were stocked with 80,000 P. setiferus with funding from a Southeast Asia (S.E.A.) grant. Shrimp in these ponds grew slowly, and mean salinity readings were high. Flow rate studies using P. vannamei were performed in 1978, and again high salinities caused low growth rates.

In 1978 routine population estimates were made during the grow-out season to obtain information on shrimp population dynamics in ponds. Two sampling techniques were used, the Peterson mark-recapture method, in which shrimp were marked by removal of the end of the right uropod, and a stratified random sampling method using cast net catches (Hutchins et al., 1980).

At present, the thrusts of research at the Corpus Christi facility are shrimp maturation/reproduction and cryogenics.

## POND PRODUCTION DATA

Pond production data are tabulated in Appendix A for the Angleton facility, 1969-1978, and in Appendix B for the Corpus Christi facility, 1973-1975 and 1977-1978. Tables are arranged by year, and headings include the following information: shrimp species, pond number, date of stocking, stocking density, date of harvest, harvest weight and percent survival. Each table lists the following data: date, mean weight (g), mean length (mm), mean temperature ( $^{\circ}\text{C}$ ), mean salinity (ppt) and dissolved oxygen (ppm). Asterisks denote that no data were available. The date is the weekly date on which mean length and weight were measured during the grow-out season. Water quality data are averages of daily readings for each week of growth data.

Data were stored and assimilated on the AMDAHL/370 computer system at Texas A&M, College Station, Appendix C gives the FORTRAN program used to set up the tables in Appendices A and B.





APPENDIX A

POND PRODUCTION AT ANGLETON FACILITY, 1969-1978



P. SETIFERUS  
 STOCKED 9/ 4/69  
 HARVEST 11/14/69  
 SURVIVAL 37%

PCNC 1  
 20000/ACRE  
 91 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
9/ 4/69	3.04	73.2	****	****	****
9/17/69	5.85	96.6	****	****	****
9/24/69	6.98	102.5	****	****	****
10/ 1/69	7.33	101.7	****	****	****
10/ 8/69	8.60	106.9	****	****	****
10/15/69	7.89	104.2	****	****	****
10/22/69	10.53	114.4	****	****	****
10/30/69	10.62	111.4	****	****	****
11/ 7/69	9.98	113.0	****	****	****
11/14/69	11.08	114.9	****	****	****

P. SETIFERUS  
 STOCKED 9/ 4/69  
 HARVEST 11/19/69  
 SURVIVAL 34%

POND 2  
 20000/ACRE  
 65 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
9/ 4/69	3.04	73.2	****	****	****
9/17/69	3.87	83.8	****	****	****
9/24/69	6.46	97.7	****	****	****
10/ 1/69	6.53	97.5	****	****	****
10/ 8/69	6.52	99.0	****	****	****
10/15/69	6.28	96.1	****	****	****
10/22/69	8.15	103.4	****	****	****
10/30/69	8.96	106.8	****	****	****
11/ 7/69	8.74	106.3	****	****	****
11/14/69	9.65	110.8	****	****	****
11/19/69	8.85	106.3	****	****	****

P. SETIFERUS  
 STOCKED 9/ 4/69  
 HARVEST 11/14/69  
 SURVIVAL 41%

PCND 3  
 20000/ACRE  
 73 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
9/ 4/69	3.04	73.2	****	****	****
9/17/69	4.08	85.7	****	****	****
9/24/69	6.22	98.7	****	****	****
10/ 1/69	6.54	98.5	****	****	****
10/ 8/69	7.02	101.2	****	****	****
10/15/69	6.46	97.4	****	****	****
10/22/69	8.56	107.1	****	****	****
10/30/69	8.89	106.0	****	****	****
11/ 7/69	9.51	110.6	****	****	****
11/14/69	8.12	104.6	****	****	****

P. SETIFERUS  
 STOCKED 9/ 4/69  
 HARVEST 11/14/69  
 SURVIVAL 51%

PCND 4  
 20000/ACRE  
 106 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
9/ 4/69	3.04	73.2	****	****	****
9/17/69	3.86	85.3	****	****	****
9/24/69	5.21	93.0	****	****	****
10/ 1/69	4.95	89.8	****	****	****
10/ 8/69	6.57	98.7	****	****	****
10/15/69	5.96	95.6	****	****	****
10/22/69	7.45	102.1	****	****	****
10/30/69	7.90	102.5	****	****	****
11/ 7/69	8.74	105.6	****	****	****
11/14/69	9.49	110.6	****	****	****

P. SETIFERUS  
 STOCKED 9/ 4/69  
 HARVEST 11/19/69  
 SURVIVAL 37%

PCND 5  
 20000/ACRE  
 94 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
9/ 4/69	3.04	73.2	****	****	****
9/17/69	3.67	82.0	****	****	****
9/24/69	6.19	97.8	****	****	****
10/ 1/69	6.05	95.4	****	****	****
10/ 8/69	5.71	96.5	****	****	****
10/15/69	6.39	98.9	****	****	****
10/22/69	9.59	110.8	****	****	****
10/30/69	9.70	110.0	****	****	****
11/ 7/69	10.00	110.6	****	****	****
11/14/69	11.41	116.5	****	****	****
11/19/69	11.47	114.8	****	****	****

P. SETIFERUS  
 STOCKED 9/ 4/69  
 HARVEST 11/19/69  
 SURVIVAL 45%

PCND 6  
 20000/ACRE  
 97 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
9/ 4/69	3.04	73.2	****	****	****
9/17/69	3.66	84.4	****	****	****
9/24/69	6.89	101.2	****	****	****
10/ 1/69	4.38	87.4	****	****	****
10/ 8/69	7.14	101.5	****	****	****
10/15/69	6.74	99.0	****	****	****
10/22/69	8.92	108.5	****	****	****
10/30/69	8.31	103.9	****	****	****
11/ 7/69	9.47	108.8	****	****	****
11/14/69	9.19	108.1	****	****	****
11/19/69	9.79	108.8	****	****	****

P. SETIFERUS  
 STOCKED 9/ 4/69  
 HARVEST 11/14/69  
 SURVIVAL 43%

PCND 7  
 20000/ACRE  
 115 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
9/ 4/69	3.04	73.2	****	****	****
9/17/69	4.21	88.6	****	****	****
9/24/69	6.74	101.0	****	****	****
10/ 1/69	5.69	95.0	****	****	****
10/ 8/69	7.58	103.3	****	****	****
10/15/69	9.50	109.5	****	****	****
10/22/69	10.33	114.3	****	****	****
10/30/69	11.85	116.6	****	****	****
11/ 7/69	13.52	121.2	****	****	****
11/14/69	12.16	118.9	****	****	****

P. SETIFERUS  
 STOCKED 9/ 4/69  
 HARVEST 11/19/69  
 SURVIVAL 24%

PCND 8  
 20000/ACRE  
 65 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DC2
9/ 4/69	3.04	73.2	****	****	****
9/17/69	3.88	85.3	****	****	****
9/24/69	4.66	89.0	****	****	****
10/ 1/69	6.34	96.2	****	****	****
10/ 8/69	5.89	96.2	****	****	****
10/15/69	6.66	98.7	****	****	****
10/22/69	7.31	102.1	****	****	****
10/30/69	8.87	105.7	****	****	****
11/ 7/69	8.55	105.6	****	****	****
11/14/69	8.88	106.6	****	****	****
11/19/69	10.36	110.7	****	****	****

P. SETIFERUS  
 STOCKED 9/ 4/69  
 HARVEST 11/19/69  
 SURVIVAL 70%

PCND 9  
 20000/ACRE  
 149 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
9/ 4/69	3.04	73.2	****	****	****
9/17/69	4.13	87.3	****	****	****
9/24/69	5.91	95.9	****	****	****
10/ 1/69	5.94	95.2	****	****	****
10/ 8/69	6.33	95.2	****	****	****
10/15/69	6.94	99.0	****	****	****
10/22/69	7.58	103.6	****	****	****
10/30/69	9.09	106.8	****	****	****
11/ 7/69	8.65	108.3	****	****	****
11/14/69	9.00	108.3	****	****	****
11/19/69	9.62	109.2	****	****	****

P. SETIFERUS  
 STOCKED 9/ 4/69  
 HARVEST 11/19/69  
 SURVIVAL 53%

PCND 10  
 20000/ACRE  
 78 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
9/ 4/69	3.04	73.2	****	****	****
9/17/69	3.61	81.5	****	****	****
9/24/69	4.98	92.7	****	****	****
10/ 1/69	4.92	89.2	****	****	****
10/ 8/69	4.82	89.2	****	****	****
10/15/69	5.72	93.6	****	****	****
10/22/69	6.20	96.9	****	****	****
10/30/69	6.35	95.5	****	****	****
11/ 7/69	6.11	97.5	****	****	****
11/14/69	6.10	95.8	****	****	****
11/19/69	6.61	97.7	****	****	****

P. AZTECUS  
 STOCKED 7/ 2/70  
 HARVEST 10/23/70  
 SURVIVAL 10%

PCND 1  
 20000/ACRE  
 15 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
7/ 2/70	3.94	79.0	****	****	****
7/10/70	5.43	87.6	31.5	14.3	****
7/17/70	6.03	91.4	28.0	12.6	****
7/24/70	5.19	88.6	27.7	12.4	****
7/31/70	5.84	95.4	28.0	11.9	****
8/ 7/70	5.68	94.7	28.0	12.3	****
8/14/70	5.94	93.9	28.3	13.3	****
8/20/70	5.86	90.2	29.5	14.0	****
8/27/70	6.80	96.8	30.5	16.8	****
9/ 3/70	5.82	96.7	26.6	14.0	****
9/10/70	5.13	94.2	30.0	14.6	****
9/17/70	5.75	96.1	28.0	13.5	****
9/24/70	5.33	92.3	****	****	****
10/ 2/70	5.38	93.1	****	****	****
10/ 9/70	5.05	91.8	****	****	****
10/15/70	5.62	93.4	****	****	****
10/21/70	****	****	****	****	****
10/23/70	****	94.0	****	****	****

P. AZTECUS  
 STOCKED 7/ 2/70  
 HARVEST 10/23/70  
 SURVIVAL 9%

PCND 2  
 20000/ACRE  
 12 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
7/ 2/70	3.94	79.0	****	****	****
7/10/70	5.43	86.7	31.5	22.2	****
7/17/70	6.03	90.5	28.0	19.8	****
7/24/70	5.19	92.8	27.6	19.4	****
7/31/70	5.84	95.7	28.0	17.3	****
8/ 7/70	5.68	96.1	28.0	18.5	****
8/14/70	5.94	99.7	28.3	18.7	****
8/20/70	5.86	95.4	29.5	21.1	****
8/27/70	6.80	99.4	30.5	21.8	****
9/ 3/70	5.82	95.8	26.6	21.0	****
9/10/70	5.13	100.2	29.0	20.5	****
9/17/70	5.75	98.0	28.0	19.2	****
9/24/70	5.33	97.7	****	****	****
10/ 2/70	5.38	100.2	****	****	****
10/ 9/70	5.05	97.2	****	****	****
10/15/70	5.62	100.1	****	****	****
10/21/70	****	****	****	****	****
10/23/70	5.66	101.8	****	****	****



P. AZTECUS  
 STOCKED 7/ 2/70 PCND 3  
 HARVEST 8/20/70 10000/ACRE  
 SURVIVAL 23% 72 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
7/ 2/70	3.94	79.0	****	****	****
7/10/70	3.67	77.9	31.5	23.0	****
7/17/70	4.14	83.0	28.0	19.8	****
7/24/70	4.51	83.8	27.6	19.1	****
7/31/70	4.78	87.6	28.0	13.5	****
8/ 7/70	4.29	85.5	28.0	13.9	****
8/14/70	4.65	83.4	28.6	13.3	****
8/20/70	3.83	81.7	29.5	15.6	****

P. SETIFERUS  
 STOCKED 8/27/70 PCND 33  
 HARVEST 11/10/70 20000/ACRE  
 SURVIVAL 36% 81 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
8/27/70	*****	*****	30.5	20.5	****
9/ 3/70	4.43	84.4	26.5	5.4	****
9/10/70	5.43	95.0	30.0	5.4	****
9/17/70	6.01	95.1	28.0	5.4	****
9/24/70	7.96	104.9	****	****	****
10/ 2/70	8.12	106.3	****	****	****
10/ 9/70	8.99	109.7	****	****	****
10/15/70	9.49	112.1	****	****	****
10/21/70	*****	*****	****	****	****
10/23/70	10.41	113.4	****	****	****
11/10/70	10.21	114.6	****	****	****

P. AZTECUS  
 STOCKED 7/ 2/70  
 HARVEST 11/10/70  
 SURVIVAL 14%

PCND 4  
 20000/ACRE  
 22 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DC2
7/ 2/70	3.94	79.0	****	****	****
7/10/70	3.64	76.2	31.5	23.2	****
7/17/70	4.66	85.7	28.0	20.5	****
7/24/70	4.19	82.3	27.6	20.1	****
7/31/70	4.63	86.9	28.0	21.6	****
8/ 7/70	4.83	87.8	29.0	22.3	****
8/14/70	5.94	92.4	28.3	23.2	****
8/20/70	5.68	90.5	29.5	15.2	****
8/27/70	6.36	94.9	30.5	18.3	****
9/ 3/70	6.69	93.5	26.6	18.2	****
9/10/70	7.29	100.1	29.0	17.3	****
9/17/70	6.50	96.9	28.0	17.0	****
9/24/70	7.18	100.0	****	****	****
10/ 2/70	6.38	97.2	****	****	****
10/ 9/70	6.76	98.5	****	****	****
10/15/70	7.14	100.5	****	****	****
10/21/70	****	****	****	****	****
11/10/70	7.07	102.6	****	****	****

P. AZTECUS  
 STOCKED 7/ 2/70  
 HARVEST 11/29/70  
 SURVIVAL 41%

PCND 5  
 20000/ACRE  
 41 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
7/ 2/70	3.94	79.0	****	****	****
7/10/70	4.28	84.2	31.5	23.8	****
7/17/70	4.03	83.2	28.0	21.2	****
7/24/70	3.91	81.4	27.6	21.1	****
7/31/70	4.10	83.1	28.0	21.6	****
8/ 7/70	4.26	84.1	29.0	22.7	****
8/14/70	4.56	85.2	28.3	23.4	****
8/20/70	4.60	86.1	28.0	23.2	****

P. SETIFERUS  
 STOCKED 8/27/70  
 HARVEST 11/20/70  
 SURVIVAL 47%

PCND 55  
 20000/ACRE  
 89 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
8/27/70	*****	*****	****	****	****
9/ 3/70	3.69	81.1	26.5	14.6	****
9/10/70	3.33	83.2	29.0	15.1	****
9/17/70	5.15	90.7	28.0	14.6	****
9/24/70	4.15	86.0	****	****	****
10/ 2/70	4.11	86.3	****	****	****
10/ 9/70	5.10	92.8	****	****	****
10/15/70	6.15	97.2	****	****	****
10/21/70	*****	*****	****	****	****
10/23/70	5.78	95.9	****	****	****
11/10/70	*****	*****	****	****	****
11/20/70	8.60	107.1	****	****	****

P. AZTECUS  
 STOCKED 7/ 2/70  
 HARVEST 8/20/70  
 SURVIVAL 59%

PCND 6  
 20000/ACRE  
 59 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
7/ 2/70	3.94	79.0	****	****	****
7/10/70	4.70	84.9	31.5	23.3	****
7/17/70	4.40	85.2	28.0	20.9	****
7/24/70	3.79	80.8	27.6	20.5	****
7/31/70	3.98	82.1	28.0	21.1	****
8/ 7/70	3.87	83.1	29.0	21.8	****
8/14/70	4.57	84.6	28.3	22.3	****
8/20/70	4.56	84.3	29.5	25.4	****

P. SETIFERUS  
 STOCKED 8/27/70  
 HARVEST 12/23/70  
 SURVIVAL 50%

PCND 66  
 20000/ACRE  
 70 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
8/27/70	*****	*****	****	****	****
9/ 3/70	5.19	86.5	26.5	21.7	****
9/10/70	4.17	85.9	29.0	22.7	****
9/17/70	5.33	91.7	28.0	21.6	****
9/24/70	4.78	89.9	****	****	****
10/ 2/70	3.81	84.2	****	****	****
10/ 9/70	5.70	97.0	****	****	****
10/15/70	5.39	95.5	****	****	****
10/23/70	6.19	97.2	****	****	****

P. AZTECUS  
 STOCKED 7/ 2/70  
 HARVEST 8/20/70  
 SURVIVAL 77%

PCND 7  
 20000/ACRE  
 77 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
7/ 2/70	3.94	79.0	****	****	****
7/10/70	3.92	80.5	31.5	23.3	****
7/17/70	4.36	84.1	28.0	20.3	****
7/24/70	4.88	84.6	27.6	22.8	****
7/31/70	4.14	85.6	28.0	20.0	****
8/ 7/70	3.77	82.8	29.0	21.4	****
8/14/70	4.58	86.7	28.3	22.3	****
8/20/70	4.53	84.8	29.5	25.4	****

P. SETIFERUS  
 STOCKED 8/25/70  
 HARVEST 11/29/70  
 SURVIVAL 56%

FCND 77  
 20000/ACRE  
 107 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
8/25/70	*****	*****	****	****	****
9/ 3/70	4.59	85.3	26.5	24.1	****
9/17/70	4.89	89.0	30.0	24.3	****
9/24/70	5.30	92.2	****	****	****
10/ 2/70	5.40	91.1	****	****	****
10/ 9/70	6.20	98.8	****	****	****
10/15/70	6.13	97.9	****	****	****
10/21/70	*****	*****	****	****	****
10/23/70	6.80	99.5	****	****	****
11/29/70	8.60	100.6	****	****	****

P. AZTECUS  
 STOCKED 7/ 2/70  
 HARVEST 10/23/70  
 SURVIVAL 7%

FCND 8  
 20000/ACRE  
 8 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
7/ 2/70	3.94	79.0	****	****	****
7/10/70	4.38	81.2	31.5	22.2	****
7/17/70	4.47	83.9	28.0	20.2	****
7/24/70	4.29	83.6	28.6	20.1	****
7/31/70	4.34	85.4	28.0	20.5	****
8/ 7/70	4.11	83.7	29.0	20.7	****
8/14/70	3.87	83.2	28.3	21.4	****
8/20/70	4.14	82.9	29.5	23.5	****
8/27/70	4.76	84.2	30.5	27.5	****
9/ 3/70	4.06	80.8	26.6	26.1	****
9/10/70	4.22	85.9	29.0	24.8	****
9/17/70	4.13	84.6	28.0	24.3	****
9/24/70	3.66	81.6	****	****	****
10/ 2/70	3.65	81.5	****	****	****
10/ 9/70	4.21	85.1	****	****	****
10/15/70	4.08	83.9	****	****	****
10/21/70	*****	*****	****	****	****
10/23/70	4.33	83.8	****	****	****

P. AZTECUS  
 STOCKED 7/ 2/70  
 HARVEST 10/15/70  
 SURVIVAL 23%

FCND 9  
 20000/ACRE  
 32 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
7/ 2/70	3.94	79.0	****	****	****
7/10/70	4.07	82.6	31.5	24.3	****
7/17/70	4.08	82.2	28.0	22.0	****
7/24/70	4.18	83.4	27.3	20.9	****
7/31/70	4.12	83.2	28.0	21.1	****
8/ 7/70	4.27	84.3	29.0	21.6	****
8/14/70	4.29	83.5	28.3	22.9	****
8/20/70	4.43	84.4	29.5	25.9	****
8/27/70	5.15	86.9	30.5	29.4	****
9/ 3/70	4.51	87.2	27.0	25.9	****
9/10/70	5.27	89.3	29.5	23.8	****
9/17/70	5.00	89.2	28.0	23.2	****
9/24/70	5.74	92.4	****	****	****
10/ 2/70	5.59	92.5	****	****	****
10/ 9/70	6.44	95.5	****	****	****
10/15/70	6.08	95.4	****	****	****
10/21/70	****	****	****	****	****
10/23/70	****	****	****	****	****
11/29/70	6.02	93.1	****	****	****

P. AZTECUS  
 STOCKED 5/11/70  
 HARVEST 10/21/70  
 SURVIVAL 0%

PCND 50  
 20000/ACRE  
 0 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/11/70	1.67	61.8	****	****	****
5/22/70	2.43	69.0	****	****	****
5/29/70	3.52	75.7	****	****	****
6/ 5/70	3.53	78.1	****	****	****
6/12/70	3.95	81.0	****	****	****
6/19/70	4.65	85.4	****	****	****
7/ 2/70	5.36	90.9	****	****	****
7/10/70	6.23	92.3	****	****	****
7/17/70	6.55	95.7	****	****	****
7/24/70	6.99	96.2	****	****	****
7/31/70	7.25	102.8	****	****	****
8/ 7/70	7.52	100.1	****	****	****
8/14/70	8.25	111.2	****	****	****
8/20/70	8.51	103.4	****	****	****
8/27/70	9.26	106.6	****	****	****
9/ 3/70	8.23	102.7	****	****	****
9/10/70	8.75	106.7	****	****	****
9/17/70	9.10	107.7	****	****	****
9/24/70	8.02	104.8	****	****	****
10/ 2/70	7.96	104.7	****	****	****
10/ 9/70	8.33	104.0	****	****	****
10/15/70	8.16	102.5	****	****	****

P. AZTECUS  
 STOCKED 5/11/70  
 HARVEST 10/21/70  
 SURVIVAL 3%

PGND 51  
 8000/ACRE  
 8 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/11/70	2.03	64.8	****	****	****
5/22/70	2.73	71.1	****	****	****
5/29/70	3.28	73.8	****	****	****
6/ 5/70	3.28	74.9	****	****	****
6/12/70	4.17	82.3	****	****	****
6/19/70	4.46	84.3	****	****	****
7/ 2/70	5.59	91.9	****	****	****
7/10/70	6.76	95.6	****	****	****
7/17/70	8.23	101.3	****	****	****
7/24/70	8.58	101.1	****	****	****
7/31/70	8.71	104.7	****	****	****
8/ 7/70	7.49	98.0	****	****	****
8/14/70	9.67	110.2	****	****	****
8/20/70	9.14	106.9	****	****	****
8/27/70	11.51	113.0	****	****	****
9/ 3/70	9.56	106.3	****	****	****
9/10/70	9.57	109.9	****	****	****
9/17/70	10.01	112.1	****	****	****
9/24/70	10.49	113.5	****	****	****
10/ 2/70	10.66	115.1	****	****	****
10/ 9/70	12.07	119.0	****	****	****
10/15/70	12.72	122.8	****	****	****
10/21/70	14.42	126.2	****	****	****



P. VANNAMEI  
 STOCKED 6/12/72  
 HARVEST 10/25/72  
 SURVIVAL 65%

PCND 1  
 100000/ACRE  
 918 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
6/12/72	*****	*****	****	****	****
7/ 6/72	0.39	37.2	27.5	25.5	4.8
7/13/72	0.93	49.8	26.7	26.3	5.1
7/20/72	2.04	64.6	27.6	26.3	4.5
7/27/72	3.79	80.3	26.0	****	5.4
8/ 3/72	4.43	86.2	27.3	25.0	4.1
8/10/72	5.06	87.6	28.0	22.0	3.9
8/17/72	6.90	96.0	28.0	20.6	2.8
8/24/72	8.24	102.5	28.5	18.5	2.1
8/31/72	7.98	100.7	28.0	15.6	3.6
9/ 7/72	10.21	108.8	28.0	16.0	2.7
9/14/72	9.77	107.3	28.3	18.0	3.4
9/21/72	11.45	113.2	27.3	19.5	3.4
9/28/72	11.81	113.7	26.5	19.0	3.6
10/ 5/72	11.65	113.4	26.5	18.0	3.6
10/12/72	12.64	117.2	24.7	18.0	3.8
10/19/72	11.98	115.9	25.0	18.6	4.5
10/25/72	12.80	117.9	18.2	12.3	7.6

P. SETIFERUS  
 STOCKED 6/12/72  
 HARVEST 9/20/72  
 SURVIVAL 65%

PCND 2  
 40000/ACRE  
 347 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
6/12/72	0.14	8.0	****	****	****
7/ 6/72	0.48	39.2	27.7	25.5	3.5
7/13/72	0.97	49.8	26.7	25.3	3.7
7/20/72	3.06	69.1	27.5	25.6	3.9
7/27/72	5.83	93.0	26.5	****	4.0
8/ 3/72	6.40	98.2	27.7	24.0	3.8
8/10/72	8.50	107.6	28.0	19.0	4.0
8/17/72	7.90	105.3	28.0	17.0	4.0
8/24/72	9.87	112.4	28.5	17.6	2.2
8/31/72	9.82	112.0	28.3	15.6	3.9
9/ 7/72	12.03	119.4	28.3	16.0	2.7
9/14/72	11.40	117.0	28.3	17.6	5.3
9/20/72	12.15	119.8	27.5	19.0	2.9

P. AZTECUS  
 STOCKED 45/13/72  
 HARVEST 62/67/20  
 SURVIVAL 37%

PCND 3  
 20000/ACRE  
 1640 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
45/13/72	*****	*****	****	****	****
4/26/72	0.09	22.1	23.8	26.3	6.7
5/ 4/72	0.32	32.9	24.0	26.6	5.6
5/11/72	1.08	49.2	30.5	26.6	6.3
5/18/72	1.60	57.8	23.5	23.5	6.2
5/25/72	2.65	67.8	25.6	23.3	5.8
6/ 1/72	3.58	75.5	26.0	23.0	2.2
6/ 8/72	7.20	95.8	26.0	18.5	3.7
6/15/72	9.82	109.1	27.0	16.3	4.1
6/22/72	11.11	112.6	28.0	14.3	3.4
6/26/72	10.34	111.5	****	****	****

P. OCCIDENTALIS  
 STOCKED 7/ 1/72  
 HARVEST 3/ 7/20  
 SURVIVAL 6%

PCND 33  
 100000/ACRE  
 731 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
7/ 1/72	*****	*****	****	****	****
7/20/72	0.39	38.6	27.5	14.0	4.9
7/27/72	1.00	53.9	27.0	****	4.4
8/ 3/72	2.01	68.1	27.6	13.6	4.1
8/ 9/72	3.19	80.6	27.8	14.3	3.4
8/17/72	3.60	83.9	28.2	15.0	3.8
8/24/72	4.23	87.7	28.8	17.0	3.1
8/31/72	5.57	97.5	28.3	15.6	4.9
9/ 7/72	7.25	103.7	28.2	16.0	3.5
9/14/72	8.67	109.6	28.3	18.0	4.0
9/21/72	8.75	109.7	27.5	20.0	3.6
9/28/72	10.55	114.7	26.5	20.0	4.4
10/ 5/72	9.32	111.0	26.0	19.0	3.8
10/11/72	10.36	114.1	24.6	19.0	3.1
10/19/72	10.88	116.0	25.0	19.3	4.6
10/26/72	10.03	111.0	18.6	14.6	7.8
10/30/72	11.73	117.3	14.0	14.0	8.2

P. AZTECUS  
 STOCKED 4/13/72 FCND 4  
 HARVEST 6/26/72 20000/ACRE  
 SURVIVAL 45% 154 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DC2
4/13/72	*****	*****	****	****	****
4/26/72	0.06	19.6	23.6	26.3	7.9
5/ 4/72	0.36	35.6	24.0	27.0	6.3
5/11/72	0.70	43.2	22.8	26.6	5.5
5/18/72	1.84	60.8	23.5	23.5	5.5
5/25/72	2.22	64.6	25.6	24.0	4.1
6/ 1/72	3.44	75.8	26.5	22.6	2.0
6/ 8/72	4.52	82.8	26.0	18.5	3.9
6/15/72	5.91	91.4	27.3	16.3	4.5
6/22/72	6.70	96.5	28.1	14.3	4.2
6/26/72	7.78	101.2	****	****	****

P. OCCIDENTALIS  
 STOCKED 7/ 1/72 PCND 44  
 HARVEST 11/ 1/72 100000/ACRE  
 SURVIVAL 16% 204 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
7/ 1/72	*****	*****	****	****	****
7/20/72	0.42	39.2	27.6	14.0	4.8
7/27/72	0.87	51.7	27.0	15.0	5.9
8/ 3/72	1.53	62.8	27.6	14.0	4.5
8/10/72	2.56	74.6	27.8	14.3	3.5
8/17/72	3.26	82.0	28.2	16.0	3.9
8/24/72	4.15	87.5	29.0	17.0	3.1
8/31/72	5.19	93.8	28.5	15.6	4.1
9/ 7/72	6.24	99.4	28.2	16.5	3.3
9/14/72	7.11	103.2	28.5	18.3	3.8
9/21/72	8.08	106.9	27.5	19.5	3.4
9/28/72	9.66	111.7	26.5	19.0	4.2
10/ 5/72	9.97	112.9	26.0	19.0	3.9
10/11/72	10.63	116.0	24.8	19.0	3.3
10/19/72	10.42	115.3	25.0	19.0	4.3
10/26/72	10.98	115.8	18.5	13.6	6.9
11/ 1/72	11.36	116.6	14.0	14.0	8.4

P. SETIFERUS

PCND 5

STOCKED 6/12/72

40000/ACRE

HARVEST 9/20/72

329 LBS.

SURVIVAL 62%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
6/12/72	0.14	8.0	****	****	****
7/ 6/72	0.57	41.6	28.0	24.0	4.8
7/13/72	1.23	53.8	26.5	25.3	4.3
7/20/72	3.56	79.0	27.5	25.3	4.4
7/27/72	4.76	89.0	26.5	****	4.5
8/ 3/72	5.11	89.3	27.5	24.6	3.7
8/10/72	6.23	95.8	28.0	19.0	3.6
8/17/72	7.55	104.7	28.3	17.0	4.5
8/24/72	8.20	106.9	29.0	17.7	2.9
8/31/72	8.89	109.3	28.3	15.6	4.7
9/ 7/72	10.99	117.0	28.3	16.5	3.3
9/14/72	11.16	115.8	28.3	18.0	4.1
9/20/72	12.21	119.5	27.5	19.0	4.0

P. SETIFERUS

PCND 6

STOCKED 6/12/72

40000/ACRE

HARVEST 9/19/72

154 LBS.

SURVIVAL 25%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
6/12/72	0.14	8.0	****	****	****
7/ 6/72	0.54	41.6	28.0	24.5	4.6
7/13/72	1.36	55.9	26.7	25.0	5.0
7/20/72	1.92	62.2	27.9	25.0	4.6
7/27/72	4.46	84.9	27.0	****	4.1
8/ 3/72	6.32	95.5	27.7	25.0	3.4
8/10/72	8.34	105.2	28.0	19.3	3.6
8/17/72	8.57	108.0	28.3	17.3	3.9
8/24/72	10.70	115.9	29.0	17.7	2.6
8/31/72	10.28	112.6	28.5	15.6	4.5
9/ 7/72	11.87	119.9	28.3	16.5	3.3
9/14/72	12.67	121.3	28.3	18.0	3.8
9/19/72	13.39	122.3	27.5	19.0	2.7

P. AZTECUS  
 STOCKED 4/13/72 PCND 7  
 HARVEST 6/27/72 40000/ACRE  
 SURVIVAL 45% 137 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
4/13/72	*****	*****	****	****	****
4/26/72	0.08	20.2	23.5	26.3	8.7
5/ 4/72	0.26	30.8	23.6	27.0	7.2
5/11/72	0.77	46.2	22.6	26.6	6.0
5/18/72	1.52	57.4	23.2	23.5	6.1
5/25/72	2.38	66.3	25.3	23.3	6.3
6/ 1/72	3.43	75.8	26.3	21.3	3.8
6/ 8/72	5.01	86.5	25.5	18.5	4.6
6/15/72	5.52	90.2	26.8	16.3	4.9
6/22/72	6.97	97.7	27.8	15.3	4.4
6/27/72	6.97	97.7	28.5	****	****

P. OCCIDENTALIS  
 STOCKED 7/ 1/72 PCND 77  
 HARVEST 11/ 1/72 100000/ACRE  
 SURVIVAL 14% 153 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
7/ 1/72	*****	*****	****	****	****
7/20/72	0.42	38.6	27.5	14.6	4.9
7/27/72	0.94	52.3	26.0	****	5.7
8/ 3/72	1.71	65.0	27.3	14.6	4.1
8/ 9/72	2.60	77.4	27.3	15.3	2.8
8/17/72	3.01	79.0	27.7	17.0	3.8
8/24/72	4.73	92.0	28.6	17.3	3.3
8/31/72	5.18	94.4	28.1	15.6	4.6
9/ 7/72	6.52	100.2	28.0	16.0	3.2
9/14/72	6.94	102.0	28.3	18.3	3.6
9/21/72	8.25	106.8	27.0	20.0	3.3
9/28/72	9.71	110.4	26.0	19.0	4.5
10/ 5/72	10.01	113.0	26.0	19.0	4.3
10/11/72	9.58	111.5	24.6	20.0	3.9
10/19/72	9.01	111.2	25.0	19.0	5.4
10/26/72	9.72	110.4	18.3	13.3	8.0
11/ 1/72	9.59	111.1	14.0	13.0	9.2

P. AZTECUS  
 STOCKED 4/13/72 PCND 8  
 HARVEST 6/23/72 40000/ACRE  
 SURVIVAL 16% 0 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
4/13/72	*****	*****	****	****	****
4/26/72	0.08	21.2	23.5	26.3	8.5
5/ 4/72	0.32	33.2	23.8	27.6	6.9
5/11/72	0.66	42.6	22.5	26.6	6.7
5/18/72	1.00	47.2	23.5	23.5	6.7
5/25/72	2.43	66.1	25.6	23.6	5.7
6/ 1/72	3.16	73.0	26.5	23.0	3.7
6/ 8/72	5.17	86.5	25.5	18.5	4.0
6/15/72	8.14	102.0	26.8	16.3	5.1
6/22/72	9.36	106.7	28.1	15.3	4.5
6/23/72	9.36	106.7	28.5	****	****

P. OCCIDENTALIS  
 STOCKED 7/ 1/72 PCND 88  
 HARVEST 10/30/72 100000/ACRE  
 SURVIVAL 17% 200 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
7/ 1/72	*****	*****	****	****	****
7/20/72	0.57	44.1	27.5	15.6	5.8
7/27/72	0.88	52.4	26.5	****	6.4
8/ 3/72	1.29	59.4	27.5	16.6	4.8
8/ 9/72	2.06	70.4	27.6	17.0	3.5
8/17/72	2.69	76.3	28.0	18.0	4.1
8/24/72	3.39	81.8	28.6	17.6	3.1
8/31/72	4.28	87.9	28.1	15.6	4.5
9/ 7/72	5.69	96.6	28.0	16.5	3.2
9/14/72	6.62	100.5	28.3	18.6	3.6
9/21/72	7.75	104.3	27.2	19.0	3.7
9/28/72	8.82	108.7	26.0	19.0	4.0
10/ 5/72	9.67	111.4	26.0	19.0	4.3
10/11/72	10.35	114.2	24.6	20.0	3.9
10/19/72	9.79	113.0	25.0	19.0	5.4
10/26/72	9.94	110.6	18.3	13.3	8.0
11/ 1/72	10.47	113.8	14.0	13.0	9.2

P. AZTECUS  
 STOCKED 4/13/72 PCND 9  
 HARVEST 6/28/72 60000/ACRE  
 SURVIVAL 52% 220 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
4/13/72	*****	*****	****	****	****
4/26/72	0.07	20.3	23.5	26.6	8.5
5/ 4/72	0.25	31.5	23.6	27.3	7.0
5/11/72	0.63	42.8	22.8	26.6	5.9
5/18/72	1.32	54.0	23.5	23.5	6.8
5/25/72	1.90	61.8	25.6	23.6	5.5
6/ 1/72	2.55	69.0	26.6	23.0	2.6
6/ 8/72	4.04	80.4	25.5	18.5	4.2
6/15/72	4.97	88.8	26.8	16.3	4.9
6/22/72	5.50	90.7	****	****	****
6/28/72	6.30	95.2	28.5	14.0	6.2

P. OCCIDENTALIS  
 STOCKED 7/ 1/72 PCND 99  
 HARVEST 11/ 1/72 100000/ACRE  
 SURVIVAL 10% 162 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DC2
7/ 1/72	*****	*****	****	****	****
7/20/72	0.51	41.6	27.5	13.3	4.8
7/27/72	1.13	54.8	26.5	****	5.3
8/ 3/72	2.25	70.8	27.6	14.0	3.3
8/ 9/72	3.42	82.2	27.6	14.0	2.7
8/17/72	4.97	92.6	28.3	15.0	2.1
8/24/72	6.12	99.2	28.7	17.6	2.2
8/31/72	6.77	102.1	28.3	15.6	4.7
9/ 7/72	7.83	107.4	27.7	16.0	2.1
9/14/72	9.12	110.8	28.3	18.0	3.2
9/21/72	10.73	115.0	27.2	20.5	3.3
9/28/72	11.55	117.0	26.5	20.0	3.4
10/ 5/72	13.63	122.4	****	20.0	****
10/11/72	12.93	122.6	****	****	****
10/19/72	12.89	122.8	****	****	****
10/26/72	13.02	121.3	****	****	****
11/ 1/72	14.36	124.9	****	****	****

P. AZTECUS  
 STOCKED 4/25/72  
 HARVEST 6/29/72  
 SURVIVAL 84%

PCND 10  
 150000/ACRE  
 416 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DC2
4/25/72	*****	*****	****	****	****
4/26/72	0.03	14.5	23.5	26.6	8.4
5/ 4/72	0.11	22.8	23.6	27.0	7.6
5/11/72	0.34	33.4	21.6	26.6	7.1
5/18/72	0.56	41.4	23.5	23.5	7.1
5/25/72	0.80	47.1	25.6	23.6	4.4
6/ 1/72	1.16	52.5	26.5	23.3	3.8
6/ 8/72	1.57	60.2	25.5	19.5	3.9
6/15/72	1.84	63.2	26.6	16.3	4.6
6/22/72	2.15	66.8	****	****	4.2
6/29/72	3.02	74.4	27.5	14.0	27.5

P. OCCIDENTALIS  
 STOCKED 7/ 1/72  
 HARVEST 10/ 2/72  
 SURVIVAL 14%

PCND 70  
 100000/ACRE  
 267 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DC2
7/ 1/72	*****	*****	****	****	****
7/20/72	0.57	43.2	27.3	14.3	5.3
7/27/72	1.53	61.9	26.0	****	5.0
8/ 3/72	3.53	81.8	27.3	14.0	4.3
8/ 9/72	5.52	94.8	27.6	14.6	2.8
8/17/72	7.02	103.4	27.7	15.0	2.6
8/24/72	9.02	111.0	29.0	18.0	2.4
8/31/72	11.10	116.8	28.3	15.6	4.3
9/ 7/72	13.45	124.8	27.7	16.0	2.5
9/14/72	14.36	126.7	28.1	18.3	3.5
9/21/72	15.81	129.2	27.0	20.5	3.1
9/28/72	17.81	133.0	****	20.0	3.2
10/ 2/72	17.43	130.6	****	20.0	****
10/11/72	12.93	122.6	****	****	****
10/19/72	12.89	122.8	****	****	****
10/26/72	13.02	121.3	****	****	****
11/ 1/72	14.36	124.9	****	****	****



P. SETIFERUS  
 STOCKED 6/12/72  
 HARVEST 10/ 3/72  
 SURVIVAL 56%

PCND 11  
 40000/ACRE  
 318 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
6/12/72	0.14	8.0	****	****	****
7/ 6/72	1.36	58.9	28.0	23.5	5.9
7/13/72	2.29	71.0	26.7	23.6	5.6
7/20/72	3.11	79.1	27.8	23.3	5.6
7/27/72	4.54	88.6	26.5	****	5.2
8/ 3/72	5.29	93.4	27.5	23.3	5.0
8/10/72	7.35	102.2	28.0	16.6	4.4
8/17/72	7.65	104.2	28.0	16.0	4.7
8/24/72	8.32	107.3	28.7	17.7	3.2
8/31/72	8.70	107.0	28.0	16.0	5.2
9/ 7/72	9.59	113.6	28.0	16.5	3.5
9/14/72	10.63	114.1	28.3	17.6	4.7
9/21/72	11.79	119.3	27.3	19.0	4.9
9/28/72	12.41	120.8	26.0	18.0	4.5
10/ 3/72	12.78	119.8	26.0	18.0	4.8

P. AZTECUS  
 STOCKED 4/13/72  
 HARVEST 7/24/72  
 SURVIVAL 49%

PCND 12  
 40000/ACRE  
 207 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
4/13/72	*****	*****	****	****	****
4/26/72	0.08	19.8	23.8	26.6	8.5
5/ 4/72	0.32	33.9	23.6	26.6	7.6
5/11/72	0.99	47.1	22.8	26.3	7.3
5/18/72	1.69	59.5	23.7	23.5	6.1
5/25/72	2.87	70.2	25.6	23.6	5.3
6/ 1/72	3.10	71.8	26.5	22.0	4.2
6/ 8/72	4.24	82.3	25.7	20.0	4.2
6/15/72	5.74	91.8	26.6	16.6	5.0
6/22/72	6.86	97.0	****	****	****
7/ 6/72	8.26	103.5	28.0	12.5	5.2
7/13/72	8.12	102.1	26.6	13.3	5.0
7/20/72	9.53	108.0	28.0	15.6	5.4
7/24/72	*****	*****	27.0	****	3.7

P. AZTECUS  
 STOCKED 4/13/72  
 HARVEST 7/24/72  
 SURVIVAL 40%

PCND 13  
 40000/ACRE  
 197 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
4/13/72	*****	*****	****	****	****
4/26/72	0.08	20.7	24.1	26.3	7.9
5/ 4/72	0.29	32.0	24.0	27.0	7.0
5/11/72	0.94	48.9	22.3	26.0	7.0
5/18/72	1.47	55.4	23.5	23.5	7.5
5/25/72	2.74	69.7	25.8	23.6	5.2
6/ 1/72	3.70	77.0	26.3	22.3	4.4
6/ 8/72	4.06	78.5	25.7	20.5	4.6
6/15/72	6.02	93.7	27.0	17.6	5.1
6/22/72	7.52	100.8	28.1	15.6	4.9
7/ 6/72	8.04	102.9	28.0	12.5	4.8
7/13/72	8.62	104.1	26.8	13.3	4.8
7/20/72	9.02	107.1	28.0	16.0	4.9
7/24/72	11.24	113.3	26.5	****	5.7

P. SETIFERUS  
 STOCKED 6/12/72  
 HARVEST 11/ 2/72  
 SURVIVAL 99%

PCND 14  
 40000/ACRE  
 585 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
6/12/72	0.14	8.0	****	****	****
7/ 6/72	0.77	48.6	28.0	23.5	5.1
7/13/72	0.97	52.6	26.7	24.0	5.1
7/20/72	1.64	63.2	27.6	23.6	4.8
7/27/72	1.81	65.4	27.0	****	3.9
8/ 3/72	2.14	69.0	27.7	24.3	4.6
8/10/72	2.92	76.6	28.0	18.0	3.8
8/17/72	3.24	80.4	28.0	16.0	4.5
8/24/72	3.11	79.0	29.0	17.5	3.0
8/31/72	4.21	86.1	28.2	16.0	5.4
9/ 7/72	4.33	87.8	28.5	16.0	3.4
9/14/72	5.53	94.4	28.5	17.6	5.0
9/21/72	7.02	100.4	27.5	19.0	3.6
9/28/72	7.46	102.8	26.5	20.0	6.6
10/ 5/72	8.83	109.1	26.5	18.0	3.6
10/12/72	9.49	110.2	24.8	20.0	4.8
10/19/72	9.22	110.0	25.0	19.3	4.4
10/26/72	9.70	110.3	18.8	14.3	8.8
11/ 2/72	10.81	115.4	14.5	13.0	9.0

P. AZTECUS  
 STOCKED 4/13/72  
 HARVEST 7/24/72  
 SURVIVAL 41%

POND 15  
 40000/ACRE  
 273 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
4/13/72	*****	*****	****	****	****
4/26/72	0.05	17.0	24.1	26.3	7.9
5/ 4/72	0.36	34.6	24.0	27.0	7.9
5/11/72	0.90	47.5	22.8	26.0	7.1
5/18/72	1.81	59.3	23.7	23.5	7.0
5/25/72	1.98	60.6	25.6	23.6	5.7
6/ 1/72	4.01	79.1	26.5	22.0	4.8
6/ 8/72	6.09	92.1	25.5	20.0	7.6
6/15/72	7.85	100.8	27.0	16.3	5.4
6/22/72	8.74	104.2	28.1	15.3	4.2
7/ 6/72	9.12	107.4	28.0	12.0	4.9
7/13/72	11.10	111.7	27.0	13.0	5.2
7/20/72	10.97	114.7	28.0	16.0	4.9
7/24/72	11.56	115.8	27.0	****	3.8

P. SETIFERUS  
 STOCKED 6/12/72  
 HARVEST 10/ 4/72  
 SURVIVAL 40%

POND 16  
 40000/ACRE  
 253 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
6/12/72	0.14	*****	****	****	****
7/ 6/72	0.92	52.2	28.0	24.0	5.6
7/13/72	2.02	67.2	26.7	24.0	5.7
7/20/72	3.00	77.7	28.0	23.6	5.0
7/27/72	5.16	91.4	26.5	****	6.0
8/ 3/72	6.64	99.6	27.7	23.7	4.2
8/10/72	7.15	102.3	28.0	16.7	3.9
8/17/72	8.12	106.5	28.3	16.0	4.2
8/24/72	9.53	111.3	29.0	17.0	2.8
8/31/72	10.57	114.2	28.2	15.3	4.7
9/ 7/72	11.21	117.6	28.0	16.0	2.7
9/14/72	11.92	118.5	28.3	17.6	3.9
9/21/72	13.22	123.3	27.5	19.0	4.1
9/28/72	13.88	123.9	26.0	20.0	4.6
10/ 4/72	14.41	124.5	26.5	18.0	4.6

P. SETIFERUS  
 STOCKED 6/12/72  
 HARVEST 10/ 4/72  
 SURVIVAL 37%

PCND 17  
 40000/ACRE  
 227 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
6/12/72	0.14	8.0	****	****	****
7/ 6/72	1.07	49.2	28.0	24.0	5.5
7/13/72	1.32	58.3	26.7	24.3	5.6
7/20/72	2.61	72.7	28.0	20.3	5.1
7/27/72	4.54	87.6	26.5	****	5.7
8/ 3/72	6.05	96.2	27.7	24.0	4.2
8/10/72	6.64	99.5	28.0	17.7	3.4
8/17/72	7.56	103.8	28.3	17.0	4.3
8/24/72	8.75	109.1	29.0	18.0	3.1
8/31/72	10.10	111.8	28.3	16.3	3.7
9/ 7/72	10.95	116.6	28.3	16.0	3.4
9/14/72	11.67	117.3	28.5	17.7	4.5
9/21/72	12.27	119.9	27.3	19.0	3.9
9/28/72	13.22	121.5	26.5	19.0	5.8
10/ 4/72	13.89	122.7	26.0	18.0	5.6

P. AZTECUS  
 STOCKED 4/13/72  
 HARVEST 7/26/72  
 SURVIVAL 44%

PCND 18  
 40000/ACRE  
 186 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DC2
4/13/72	*****	*****	****	****	****
4/26/72	0.07	19.4	24.0	26.6	7.6
5/ 4/72	0.31	33.6	24.1	26.6	7.4
5/11/72	1.05	50.5	22.8	26.3	6.9
5/18/72	1.88	61.3	23.7	23.5	6.5
5/25/72	2.93	69.5	25.6	23.6	5.6
6/ 1/72	4.32	82.2	26.5	21.3	4.4
6/ 8/72	4.66	84.0	25.5	18.5	4.1
6/15/72	5.73	91.0	27.8	16.0	5.3
6/22/72	6.04	92.2	28.1	14.3	4.6
7/ 6/72	7.78	101.6	28.0	11.5	5.2
7/13/72	8.11	102.7	26.6	13.6	5.5
7/20/72	8.31	103.2	27.8	16.3	5.0
7/26/72	9.64	109.4	26.5	****	4.4

P. AZTECUS

STOCKED 4/13/72  
HARVEST 7/26/72  
SURVIVAL 36%

PCND 19  
60000/ACRE  
198 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
4/13/72	*****	*****	****	****	****
4/26/72	0.09	21.1	24.1	26.6	7.7
5/ 4/72	0.38	36.2	23.9	26.6	7.5
5/11/72	0.64	41.3	22.8	26.3	7.4
5/18/72	1.07	52.3	24.2	23.5	4.3
5/25/72	1.99	64.0	25.8	23.6	4.9
6/ 1/72	2.09	64.2	26.8	22.0	3.7
6/ 8/72	2.99	72.6	25.7	20.0	4.3
6/15/72	3.34	76.3	27.0	16.3	4.8
6/22/72	5.10	88.0	28.1	14.3	4.5
7/ 6/72	6.60	96.6	28.0	13.0	4.6
7/13/72	7.03	98.6	26.6	13.6	5.0
7/20/72	7.74	102.2	28.0	16.0	4.7
7/26/72	8.29	103.7	26.5	****	4.8

P. AZTECUS

STOCKED 7/31/72  
HARVEST 10/ 2/72  
SURVIVAL 85%

PCND 99  
30000/ACRE  
148 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
7/31/72	*****	*****	****	****	****
8/ 3/72	1.45	57.4	27.6	14.5	5.3
8/ 9/72	2.14	65.8	28.0	14.0	4.3
8/17/72	2.46	69.4	28.2	16.0	3.6
8/24/72	3.08	75.0	28.6	16.0	2.9
8/31/72	3.68	79.5	28.1	16.0	3.3
9/ 7/72	3.73	81.0	28.7	16.3	3.1
9/14/72	4.66	85.5	28.3	17.6	3.6
9/21/72	5.35	89.4	27.5	19.0	3.6
9/28/72	5.73	90.7	26.0	18.0	5.1
10/ 2/72	5.28	89.1	26.0	18.0	6.1

P. AZTECUS  
 STOCKED 4/25/72  
 HARVEST 10/ 3/72  
 SURVIVAL 39%

PEND 20  
 260000/ACRE  
 263 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
4/25/72	*****	*****	****	****	****
6/ 8/72	0.09	22.2	26.7	24.0	7.8
6/15/72	0.19	29.6	27.5	22.0	7.2
6/22/72	0.59	39.6	28.1	21.6	4.1
7/ 6/72	1.08	51.7	28.0	22.0	4.9
7/13/72	1.20	52.6	26.6	21.0	4.2
7/20/72	1.27	54.5	28.0	16.0	4.7
7/27/72	1.15	54.1	27.0	****	4.6
8/ 3/72	1.34	58.5	27.6	16.6	4.5
8/ 9/72	1.83	63.0	28.0	15.0	4.2
8/17/72	1.35	58.2	28.2	16.0	3.7
8/24/72	1.46	59.7	28.8	16.0	3.2
8/31/72	1.80	67.5	28.0	16.0	4.5
9/ 7/72	1.34	58.5	28.5	16.5	2.8
9/14/72	2.48	69.1	28.5	18.0	3.9
9/21/72	2.87	73.7	27.5	19.5	3.6
9/28/72	2.93	73.8	26.0	18.0	5.0
10/ 3/72	2.65	72.3	26.5	18.0	5.9

P. SETIFERUS  
 STOCKED 7/12/73  
 HARVEST 11/ 8/73  
 SURVIVAL 43%

PEND 1  
 200000/ACRE  
 302 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
7/12/73	0.14	8.0	****	****	****
8/ 9/73	0.38	37.9	25.0	19.0	6.9
8/16/73	0.35	37.0	26.2	20.3	7.2
8/23/73	0.74	47.0	26.3	18.7	6.3
8/30/73	0.84	51.0	25.5	18.0	5.8
9/ 6/73	*****	*****	25.0	19.0	6.0
9/13/73	0.96	50.6	24.5	13.0	6.1
9/20/73	1.07	53.6	25.3	13.7	5.9
9/27/73	1.32	57.0	24.0	14.0	7.0
10/ 4/73	1.48	60.0	25.0	12.0	6.3
10/10/73	1.71	61.5	24.0	10.0	4.9
10/18/73	1.87	64.4	21.3	7.3	6.9
10/25/73	2.30	69.3	22.0	6.0	5.8
11/ 1/73	2.54	72.8	20.0	6.3	6.1
11/ 8/73	3.10	75.3	20.5	6.5	6.4

P. VANNAMEI  
STOCKED 6/12/73  
HARVEST 11/ 6/73  
SURVIVAL 19%

POND 2  
100000/ACRE  
186 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
6/12/73	0.14	8.0	***	***	***
7/ 5/73	0.38	36.7	27.0	15.0	5.1
7/12/73	0.73	45.9	26.8	15.7	4.7
7/19/73	1.10	51.4	26.8	16.7	4.9
7/26/73	1.41	56.0	27.5	18.0	4.6
8/ 2/73	2.53	66.8	26.8	18.3	5.5
8/ 9/73	1.60	59.2	25.5	17.3	5.5
8/16/73	1.89	63.6	26.3	17.3	4.2
8/23/73	3.12	74.2	26.3	17.0	3.3
8/30/73	3.03	73.5	25.6	17.7	4.7
9/ 6/73	*****	*****	25.5	18.0	4.4
9/13/73	4.14	80.8	24.0	14.0	5.3
9/20/73	3.49	74.9	25.6	14.0	4.9
9/27/73	5.36	88.6	24.3	14.0	5.2
10/ 4/73	6.67	93.3	25.0	13.3	4.6
10/10/73	6.46	93.9	24.6	10.3	4.2
10/18/73	7.88	96.9	21.7	8.0	6.9
10/25/73	9.19	104.2	22.5	6.0	6.1
11/ 1/73	7.39	99.5	20.3	7.0	5.7
11/ 6/73	8.86	103.8	20.5	7.5	5.3

P. SETIFERUS  
STOCKED 7/12/73  
HARVEST 11/12/73  
SURVIVAL 16%

POND 3  
200000/ACRE  
161 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
7/12/73	0.14	8.0	***	***	***
8/ 9/73	0.52	42.3	25.5	17.7	6.1
8/16/73	0.88	51.0	26.3	18.5	5.9
8/23/73	1.01	52.8	26.8	18.0	6.7
8/30/73	1.11	55.8	26.3	17.7	5.5
9/ 6/73	*****	*****	25.5	18.0	5.3
9/13/73	1.81	66.0	25.3	15.0	5.3
9/20/73	2.67	77.6	25.5	14.0	6.4
9/27/73	3.16	77.9	24.0	14.0	5.9
10/ 4/73	3.43	77.7	25.3	13.5	5.2
10/10/73	3.23	78.9	24.5	10.0	5.3
10/18/73	2.50	70.1	22.0	8.3	6.8
10/25/73	4.46	86.6	23.0	7.0	7.3
11/ 1/73	3.80	81.8	20.3	7.0	5.9
11/12/73	4.56	83.8	20.3	7.0	8.8

P. VANNAMEI  
 STOCKED 6/12/73  
 HARVEST 11/ 8/73  
 SURVIVAL 39%

PCND 4  
 100000/ACRE  
 385 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
6/12/73	0.14	8.0	***	***	***
7/ 5/73	0.53	40.9	27.0	16.5	6.4
7/12/73	0.73	46.8	27.5	16.8	5.1
7/19/73	1.00	51.8	27.0	17.8	5.1
7/26/73	1.01	52.0	28.0	18.7	5.5
8/ 2/73	1.37	56.0	27.0	18.7	5.2
8/ 9/73	1.65	59.0	25.5	17.3	5.2
8/16/73	1.61	59.8	26.3	17.0	4.0
8/23/73	2.71	71.8	26.5	16.7	3.1
8/30/73	2.95	72.8	26.0	18.0	4.4
9/ 6/73	*****	*****	25.5	18.0	4.7
9/13/73	3.50	78.7	24.0	14.0	5.6
9/20/73	4.06	82.2	25.7	14.0	6.0
9/27/73	4.52	85.3	24.0	14.0	5.0
10/ 4/73	4.60	85.0	25.3	13.7	4.6
10/10/73	6.26	92.8	24.6	10.0	4.2
10/18/73	6.44	93.6	22.0	7.6	6.6
10/25/73	6.64	95.2	22.5	6.0	6.6
11/ 1/73	7.02	97.6	20.3	7.0	5.3
11/ 8/73	8.88	102.2	18.5	7.5	6.6



P. VANNAMEI  
 STOCKED 6/12/73  
 HARVEST 11/12/73  
 SURVIVAL 47%

PCND 5  
 200000/ACRE  
 534 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
6/12/73	0.14	8.0	****	****	****
7/ 5/73	0.33	35.4	27.0	16.0	6.2
7/12/73	0.45	38.5	27.0	16.0	5.9
7/19/73	0.27	33.9	28.2	17.3	5.3
7/26/73	0.48	39.3	27.0	19.3	5.5
8/ 2/73	0.58	41.8	25.5	19.3	5.9
8/ 9/73	0.68	45.0	26.0	17.3	5.6
8/16/73	1.24	53.6	26.5	17.3	4.1
8/23/73	1.73	59.2	26.5	17.3	3.5
8/30/73	1.39	56.6	25.7	18.0	4.6
9/ 6/73	*****	*****	25.5	18.0	4.0
9/13/73	2.54	68.3	24.0	14.0	5.3
9/20/73	1.60	59.9	25.7	13.3	4.0
9/27/73	2.05	63.8	24.3	14.0	5.9
10/ 4/73	2.37	68.0	25.5	13.5	5.3
10/10/73	2.93	72.4	24.5	10.0	5.2
10/18/73	3.38	77.4	22.0	7.0	6.7
10/25/73	3.12	76.2	22.7	6.7	6.5
11/ 1/73	3.62	78.8	20.3	7.0	6.2
11/12/73	5.12	87.0	19.5	7.0	6.3

P. SETIFERUS  
 STOCKED 7/12/73  
 HARVEST 11/ 8/73  
 SURVIVAL 2%

PCND 6  
 100000/ACRE  
 10 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
7/12/73	0.14	8.0	****	****	****
8/ 9/73	0.32	36.8	25.5	18.0	6.7
8/16/73	0.70	45.8	26.5	19.7	6.5
8/23/73	1.05	54.2	27.0	17.0	6.2
8/30/73	1.59	61.8	26.3	18.0	5.4
9/ 6/73	*****	*****	24.5	18.0	5.5
9/13/73	1.95	65.6	24.5	14.0	6.4
9/20/73	2.13	73.0	26.3	14.0	5.3
9/27/73	1.89	65.9	24.3	14.0	6.4
10/ 4/73	2.40	70.6	25.3	13.5	5.7
10/10/73	2.27	69.6	24.6	9.3	5.6
10/18/73	2.53	71.3	22.0	7.0	7.6
10/25/73	3.67	81.3	22.6	6.7	7.4
11/ 1/73	2.96	75.1	20.3	7.0	6.6
11/ 8/73	3.75	80.2	18.5	7.0	7.2

P. VANNAMEI

PCND 7

STOCKED 6/12/73

200000/ACRE

HARVEST 11/ 9/73

1158 LBS.

SURVIVAL 95%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DC2
6/12/73	0.14	8.0	****	****	****
7/ 5/73	0.37	37.8	27.3	16.0	6.7
7/12/73	0.41	38.0	26.5	16.5	5.7
7/19/73	0.36	36.7	26.7	17.7	5.6
7/26/73	0.48	40.5	28.0	18.0	4.9
8/ 2/73	0.71	44.2	27.0	18.3	5.3
8/ 9/73	1.04	50.1	25.5	17.0	5.4
8/16/73	1.39	55.2	26.3	17.3	4.1
8/23/73	1.57	55.9	26.5	16.7	4.3
8/30/73	1.13	54.0	26.3	18.0	4.8
9/ 6/73	*****	*****	26.0	18.0	3.3
9/13/73	2.17	66.2	24.0	14.0	5.8
9/20/73	2.04	65.3	26.3	14.0	6.3
9/27/73	2.74	69.2	24.3	14.0	7.0
10/ 4/73	2.65	71.0	25.3	13.7	5.6
10/10/73	3.08	74.0	24.6	10.3	3.5
10/18/73	3.33	76.9	21.6	7.0	7.1
10/25/73	3.71	79.0	22.6	7.0	5.5
11/ 1/73	5.26	88.4	20.3	7.0	5.6
11/ 9/73	5.51	90.0	18.5	7.0	6.8

P. SETIFERUS

PCND 8

STOCKED 7/12/73

66000/ACRE

HARVEST 11/ 6/73

3 LBS.

SURVIVAL 1%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DC2
7/12/73	0.14	8.0	****	****	****
8/ 9/73	0.73	44.9	25.5	18.7	6.5
8/16/73	1.18	53.6	26.3	20.0	6.6
8/23/73	0.77	47.7	26.5	17.7	5.7
8/30/73	1.84	63.3	26.3	18.0	4.9
9/ 6/73	*****	*****	26.0	18.0	5.1
9/13/73	2.14	67.9	25.0	14.0	6.6
9/13/73	2.17	67.8	24.0	14.0	5.7
9/27/73	1.97	65.4	24.3	14.0	6.2
10/ 4/73	2.45	71.3	25.3	13.7	6.3
10/10/73	2.73	72.7	24.3	10.3	5.3
10/18/73	3.17	76.6	21.6	7.0	7.5
10/25/73	3.59	79.1	22.7	6.7	6.6
11/ 1/73	4.22	82.2	20.1	7.0	6.9
11/ 6/73	4.49	85.8	18.5	7.0	6.2

P. VANNAMEI

STOCKED 6/12/73

HARVEST 11/ 6/73

SURVIVAL 1%

PCND 9

100000/ACRE

6 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DC2
6/12/73	0.14	8.0	****	****	****
7/15/73	0.46	39.4	27.0	16.5	6.1
7/12/73	0.45	38.4	27.0	17.0	5.2
7/19/73	0.52	39.5	26.8	18.0	5.0
7/26/73	0.87	47.5	28.0	18.7	3.8
8/ 2/73	0.86	48.1	27.0	18.7	4.7
8/ 9/73	0.96	49.7	25.5	17.7	4.8
8/16/73	1.47	57.4	26.3	17.3	3.8
8/23/73	1.54	59.8	26.8	16.7	3.5
8/30/73	1.51	62.6	25.6	18.0	4.4
9/ 6/73	*****	*****	26.0	18.0	3.9
9/13/73	2.64	67.5	25.0	14.0	6.5
9/20/73	2.85	70.8	25.5	14.0	4.1
9/27/73	2.08	64.2	24.3	14.0	4.9
10/ 4/73	2.79	71.9	25.3	13.3	3.7
10/10/73	3.41	74.4	24.5	10.0	4.6
10/18/73	3.52	76.9	22.0	7.0	6.9
10/25/73	3.89	78.5	22.7	6.3	5.4
11/ 1/73	3.21	74.3	20.3	7.0	6.1
11/ 6/73	2.77	72.6	18.5	7.0	6.1

P. VANNAMEI

PCND 10

STOCKED 6/12/73

100000/ACRE

HARVEST 11/ 9/73

296 LBS.

SURVIVAL 43%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
6/12/73	0.14	8.0	****	****	****
7/ 5/73	0.47	39.8	27.0	17.0	6.0
7/12/73	1.00	48.1	27.0	17.3	6.0
7/19/73	1.01	50.5	27.0	18.3	5.3
7/26/73	1.14	52.5	28.3	19.7	5.2
8/ 2/73	1.56	56.9	27.0	19.7	5.5
8/ 9/73	1.28	53.8	25.5	17.3	5.0
8/16/73	3.98	79.8	26.5	17.0	4.0
8/23/73	2.19	66.3	26.2	16.7	4.1
8/30/73	2.67	71.2	25.7	17.3	4.5
9/ 6/73	*****	*****	26.0	18.0	4.2
9/13/73	2.99	75.2	24.0	14.0	5.4
9/20/73	2.82	72.5	25.3	13.3	3.4
9/27/73	4.58	85.6	24.3	14.0	5.5
10/ 4/73	4.48	83.7	25.7	13.3	4.5
10/10/73	5.64	86.9	24.8	10.0	4.3
10/18/73	5.89	88.8	21.7	7.0	7.0
10/25/73	5.80	91.7	22.3	7.0	5.3
11/ 1/73	5.58	90.3	19.8	6.3	5.8
11/ 9/73	6.26	94.7	18.5	6.5	6.8

P. SETIFERUS

PCND 11

STOCKED 7/12/73

200000/ACRE

HARVEST 11/13/73

441 LBS.

SURVIVAL 50%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
7/12/73	0.14	8.0	****	****	****
8/ 9/73	0.44	39.0	25.3	18.0	7.0
8/16/73	0.59	43.8	26.0	18.0	5.1
8/23/73	0.80	50.8	26.0	17.7	4.8
8/30/73	0.89	51.8	25.7	18.0	5.5
9/ 6/73	*****	*****	25.5	18.0	6.0
9/13/73	1.76	59.5	24.0	14.0	6.9
9/20/73	1.17	55.0	25.3	13.0	5.9
9/27/73	1.24	55.0	24.0	14.0	7.0
10/ 4/73	1.54	61.3	25.0	13.7	6.2
10/10/73	1.09	55.2	24.2	10.7	5.1
10/18/73	1.91	65.8	21.5	7.3	7.4
10/25/73	3.26	77.8	22.5	6.0	7.7
11/ 1/73	3.68	81.1	20.3	6.0	7.4
11/13/73	4.03	83.5	19.5	6.5	7.0

P. VANNAMEI  
 STOCKED 6/12/73  
 HARVEST 11/13/73  
 SURVIVAL 11%

PCND 12  
 100000/ACRE  
 93 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
6/12/73	0.14	8.0	****	****	****
7/ 5/73	0.55	41.2	25.5	14.7	6.9
7/12/73	0.75	43.4	27.0	15.3	5.2
7/19/73	1.30	54.6	27.0	16.0	5.7
7/26/73	1.48	58.7	28.0	16.7	4.6
8/ 2/73	1.57	59.0	27.0	16.0	5.0
8/ 9/73	1.72	60.2	25.7	17.0	4.8
8/16/73	1.67	62.0	26.5	17.3	4.5
8/23/73	2.31	69.0	26.5	16.7	4.5
8/30/73	2.24	67.4	25.7	18.0	4.7
9/ 6/73	*****	*****	25.5	18.0	3.6
9/13/73	2.66	71.4	24.0	14.0	4.9
9/20/73	2.77	77.5	24.2	14.0	3.7
9/27/73	4.14	81.0	25.5	14.0	5.9
10/ 4/73	5.22	87.2	25.5	13.7	5.1
10/10/73	4.68	83.8	24.8	10.7	4.3
10/18/73	6.17	91.8	22.0	7.3	6.2
10/25/73	6.50	92.8	22.6	6.7	6.6
11/21/73	5.59	91.6	21.0	7.0	7.7
11/13/73	7.80	99.6	20.5	7.0	5.7

P. SETIFERUS  
 STOCKED 7/12/73  
 HARVEST 11/14/73  
 SURVIVAL 18%

PCND 13  
 200000/ACRE  
 155 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
7/12/73	0.14	8.0	****	****	****
8/ 9/73	0.70	46.5	25.5	16.3	6.1
8/16/73	1.00	50.7	26.8	17.3	4.8
8/23/73	1.09	54.2	26.5	16.7	5.4
8/30/73	1.73	60.5	26.3	17.7	5.0
9/ 6/73	*****	*****	25.5	18.0	5.2
9/13/73	1.72	64.9	24.0	14.0	5.0
9/20/73	2.84	72.6	25.7	14.0	4.8
9/27/73	2.59	71.4	24.7	14.0	5.5
10/ 4/73	3.49	79.1	25.5	13.3	5.0
10/10/73	1.92	65.0	24.8	10.3	4.5
10/18/73	3.37	79.8	22.0	8.3	7.2
10/25/73	5.04	88.7	22.8	6.7	7.1
11/ 1/73	3.76	82.0	20.5	7.0	7.2
11/14/73	4.01	83.6	19.0	7.0	6.6

P. SETIFERUS  
 STOCKED 7/12/73  
 HARVEST 11/13/73  
 SURVIVAL 1%

PCND 14  
 100000/ACRE  
 5 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
7/12/73	0.14	8.0	****	****	****
8/ 9/73	0.32	35.8	25.8	17.7	6.2
8/16/73	0.46	41.0	26.5	18.0	6.1
8/23/73	0.91	49.4	26.5	17.0	5.5
8/30/73	2.01	65.8	26.0	18.0	5.4
9/ 6/73	*****	*****	25.5	18.0	5.1
9/13/73	2.43	70.8	24.0	14.0	5.6
9/20/73	1.29	57.8	25.5	14.0	5.8
9/27/73	3.53	77.0	24.6	14.0	6.9
10/ 4/73	2.30	69.0	25.5	13.3	6.0
10/10/73	3.89	80.8	24.8	10.3	5.6
10/18/73	3.72	77.2	22.0	7.7	6.9
10/25/73	5.37	90.4	22.3	6.7	7.0
11/ 1/73	3.91	83.0	20.8	7.0	7.2
11/13/73	5.49	91.4	19.0	7.0	6.6

P. VANNAMEI  
 STOCKED 6/12/73  
 HARVEST 11/13/73  
 SURVIVAL 81%

PCND 15  
 200000/ACRE  
 1347 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
6/12/73	0.14	8.0	****	****	****
7/ 5/73	0.22	32.2	****	****	****
7/12/73	0.50	39.0	27.0	15.3	6.8
7/19/73	0.56	42.1	27.5	15.7	6.1
7/26/73	0.46	40.5	28.0	16.7	5.5
8/ 2/73	0.62	42.8	27.0	16.7	5.1
8/ 9/73	0.77	46.4	25.8	17.0	5.3
8/16/73	1.78	57.4	26.8	17.3	4.3
8/23/73	1.63	60.6	26.5	17.3	5.6
8/30/73	2.67	70.4	25.8	17.3	4.6
9/ 6/73	*****	*****	25.5	18.0	5.0
9/13/73	2.80	70.9	24.0	15.0	5.8
9/20/73	3.24	79.6	25.5	14.0	5.5
9/27/73	3.40	76.5	24.6	14.0	5.6
10/ 4/73	4.31	81.7	25.5	13.7	5.1
10/10/73	4.68	85.9	24.8	10.0	3.9
10/18/73	4.54	84.9	22.0	7.3	6.3
10/25/73	5.31	88.4	22.3	6.3	5.9
11/ 1/73	6.04	93.4	20.5	7.0	5.3
11/13/73	7.56	98.2	19.0	7.0	6.6

P. VANNAMEI  
 STOCKED 6/12/73  
 HARVEST 11/15/73  
 SURVIVAL 56%

PCND 16  
 100000/ACRE  
 539 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
6/12/73	0.14	8.0	****	****	****
7/ 5/73	0.32	35.6	27.5	14.3	6.7
7/12/73	0.61	41.3	27.0	15.0	6.3
7/19/73	0.72	45.8	27.5	16.0	6.0
7/26/73	1.04	52.2	28.2	16.7	5.2
8/ 2/73	1.29	56.4	27.3	16.3	4.9
8/ 9/73	1.85	58.6	25.8	16.0	5.4
8/16/73	3.01	72.0	26.8	17.0	4.7
8/23/73	3.40	76.3	26.5	16.7	3.8
8/30/73	3.44	76.4	26.0	17.7	4.8
9/ 6/73	*****	*****	25.5	18.0	3.7
9/13/73	4.00	81.0	24.5	15.0	5.9
9/20/73	5.67	91.3	25.0	14.0	5.9
9/27/73	5.43	87.4	24.7	14.0	5.8
10/ 4/73	6.38	93.6	25.8	13.3	4.8
10/10/73	6.60	94.6	24.7	10.7	4.4
10/18/73	7.62	99.4	22.0	7.7	6.3
10/25/73	7.93	100.8	22.3	7.0	5.9
11/ 1/73	7.38	98.6	20.5	7.0	6.6
11/15/73	8.76	104.7	19.0	7.0	5.3

P. SETIFERUS  
 STOCKED 7/12/73  
 HARVEST 11/14/73  
 SURVIVAL 1%

PCND 17  
 100000/ACRE  
 2 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DC2
7/12/73	0.14	8.0	****	****	****
8/ 9/73	0.55	43.6	25.8	17.3	6.4
8/16/73	0.75	45.1	26.8	18.0	5.7
8/23/73	1.37	58.6	26.7	16.7	5.2
8/30/73	2.48	70.6	25.7	18.0	5.4
9/ 6/73	*****	*****	25.5	18.0	5.2
9/13/73	3.59	79.2	25.5	15.7	6.1
9/20/73	2.22	72.1	25.0	14.0	5.0
9/27/73	3.07	76.9	24.7	14.0	6.1
10/ 4/73	2.55	72.4	25.7	13.7	4.6
10/10/73	3.09	75.6	24.0	10.7	5.7
10/18/73	2.56	72.8	21.8	7.3	7.3
10/25/73	3.23	78.9	23.5	7.0	6.8
11/ 1/73	2.98	76.6	19.0	7.0	7.4
11/14/73	5.32	90.6	20.7	7.5	6.3

P. VANNAMEI  
 STOCKED 6/12/73  
 HARVEST 11/15/73  
 SURVIVAL 44%

PCND 18  
 200000/ACRE  
 634 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DC2
6/12/73	0.14	8.0	****	****	****
7/ 5/73	0.24	31.9	27.5	15.0	6.2
7/12/73	0.38	35.0	26.8	16.0	6.2
7/19/73	0.34	33.9	27.5	16.0	5.5
7/26/73	0.48	40.8	27.5	17.3	5.3
8/ 2/73	0.77	46.3	27.0	17.3	5.3
8/ 9/73	0.66	44.7	25.5	16.7	4.1
8/16/73	1.82	60.0	26.8	17.0	4.2
8/23/73	1.26	55.4	26.5	16.7	4.1
8/30/73	2.13	63.9	25.8	18.0	5.5
9/ 6/73	*****	*****	25.5	18.0	3.3
9/13/73	3.02	73.0	24.5	14.0	4.8
9/20/73	3.51	81.7	25.0	14.0	4.2
9/27/73	2.86	71.9	24.8	14.0	5.7
10/ 4/73	3.62	78.3	25.8	13.3	84.6
10/10/73	4.14	81.6	23.7	10.3	4.0
10/18/73	5.03	86.8	22.0	7.0	6.8
10/25/73	6.03	91.4	23.5	6.7	5.4
11/ 1/73	4.87	86.6	22.3	7.0	0.2
11/15/73	6.58	95.1	19.0	7.5	6.0



P. STYLIRCSTRIS  
 STOCKED 5/30/74  
 HARVEST 10/30/74  
 SURVIVAL 13%

PCND 1  
 75000/ACRE  
 213 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/30/74	*****	7.0	****	****	****
6/20/74	0.24	30.3	28.0	****	6.3
6/27/74	0.76	49.5	****	****	****
7/12/74	3.49	83.4	****	****	****
7/18/74	3.52	81.5	****	****	****
7/25/74	3.92	90.8	****	****	****
8/ 8/74	4.17	84.3	****	****	****
8/15/74	4.98	87.1	****	****	****
8/21/74	0.58	92.6	28.0	24.0	4.6
8/29/74	6.54	96.9	28.0	21.0	3.4
9/ 5/74	8.87	107.4	28.0	22.0	5.4
9/12/74	9.37	110.2	25.0	22.0	6.8
9/19/74	10.85	114.7	28.0	17.0	5.1
9/26/74	11.32	116.1	21.0	19.0	5.8
10/ 3/74	13.90	124.6	22.0	19.0	7.2
10/10/74	14.52	125.4	21.0	19.0	6.3
10/17/74	17.32	131.3	21.0	18.0	7.4
10/24/74	16.18	130.8	****	****	7.0
10/30/74	19.13	135.3	****	****	****

P. SETIFERUS  
 STOCKED 7/30/74  
 HARVEST 10/16/74  
 SURVIVAL 54%

PCND 2  
 25000/ACRE  
 202 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
7/30/74	*****	79.0	****	****	****
8/15/74	5.41	92.2	****	****	****
8/21/74	6.23	96.0	28.0	18.0	4.6
8/29/74	8.32	106.2	28.0	12.0	5.4
9/ 5/74	10.76	115.4	28.0	14.0	5.3
9/12/74	6.93	98.2	****	****	****
9/19/74	11.05	116.0	28.0	14.0	6.6
9/26/74	13.40	123.3	20.0	14.0	7.2
10/ 3/74	13.25	122.7	22.0	14.0	8.2
10/10/74	13.77	124.7	****	14.0	7.5
10/16/74	13.66	123.6	****	****	****

P. SETIFERUS  
 STOCKED 7/31/74  
 HARVEST 11/11/74  
 SURVIVAL 61%

PCND 3  
 25000/ACRE  
 216 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
7/31/74	*****	80.0	****	****	****
8/15/74	5.15	91.1	****	****	****
8/21/74	6.55	99.3	28.0	16.0	5.3
8/29/74	6.08	96.0	28.0	12.0	5.2
9/ 5/74	8.42	106.2	28.0	14.0	5.4
9/12/74	7.66	104.9	****	****	****
9/19/74	8.72	108.6	28.0	12.0	7.2
9/26/74	9.66	111.7	20.0	13.0	6.7
10/ 3/74	10.97	116.4	22.0	14.0	7.9
10/10/74	10.78	115.8	****	14.0	7.7
10/17/74	11.04	115.6	21.0	14.0	7.9
10/24/74	12.30	120.0	****	****	****
11/11/74	12.80	121.3	****	****	****

P. SETIFERUS  
 STOCKED 8/ 1/74  
 HARVEST 11/13/74  
 SURVIVAL 50%

PCND 4  
 25000/ACRE  
 196 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
8/ 1/74	*****	80.0	****	****	****
8/15/74	5.31	91.7	****	****	****
8/21/74	6.71	98.4	28.0	16.0	5.4
8/29/74	6.68	99.2	28.0	13.0	6.0
9/ 5/74	8.92	108.0	28.0	14.0	4.0
9/12/74	9.48	110.9	****	****	****
9/19/74	10.90	115.4	28.0	13.0	7.0
9/26/74	12.58	120.4	20.0	14.0	7.6
10/ 3/74	12.27	119.9	22.0	14.0	7.3
10/10/74	12.72	121.5	****	14.0	6.2
10/17/74	13.75	122.7	21.0	14.0	7.1
10/24/74	14.01	124.5	****	****	****
11/13/74	14.36	125.6	****	****	****

P. SETIFERUS  
 STOCKED 8/ 5/74  
 HARVEST 11/12/74  
 SURVIVAL 57%

PCND 5  
 25000/ACRE  
 203 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
8/ 5/74	*****	80.0	****	****	****
8/15/74	4.97	86.2	****	****	****
8/21/74	5.69	91.4	28.0	16.0	3.9
8/29/74	6.03	95.2	28.0	12.0	5.2
9/ 5/74	7.07	98.6	28.0	14.0	5.0
9/12/74	8.61	106.3	25.0	15.0	6.4
9/19/74	10.81	116.1	28.0	12.0	6.8
9/26/74	11.97	118.0	20.0	14.0	7.6
10/ 3/74	11.89	118.2	22.0	14.0	7.2
10/10/74	12.89	121.3	****	14.0	6.8
10/17/74	13.23	121.9	21.0	14.0	7.3
10/24/74	13.63	124.2	****	****	****
11/12/74	13.00	120.8	****	****	****

P. SETIFERUS  
 STOCKED 8/12/74  
 HARVEST 11/13/74  
 SURVIVAL 37%

PCND 6  
 25000/ACRE  
 152 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
8/12/74	*****	81.0	****	****	****
8/15/74	3.00	75.8	****	****	****
8/21/74	5.04	93.9	****	****	****
8/29/74	7.10	100.2	28.0	12.0	6.2
9/ 5/74	9.92	111.7	28.0	14.0	5.2
9/12/74	10.30	113.4	25.0	16.0	6.3
9/19/74	11.09	116.3	28.0	12.0	6.9
9/26/74	13.00	121.3	20.0	14.0	7.5
10/ 3/74	12.78	122.0	22.0	14.0	7.3
10/10/74	13.71	124.7	****	14.0	7.3
10/17/74	14.02	125.6	21.0	14.0	7.6
10/24/74	15.13	127.7	****	****	****
11/13/74	15.02	127.0	****	****	****

P. SETIFERUS  
 STOCKED 8/12/74  
 HARVEST 11/13/74  
 SURVIVAL 47%

PCND 7  
 25000/ACRE  
 170 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
8/12/74	*****	81.0	****	****	****
8/15/74	4.25	82.5	****	****	****
8/21/74	4.27	84.3	28.0	18.0	5.2
8/29/74	7.12	100.5	28.0	13.0	6.4
9/ 5/74	7.05	99.9	28.0	14.0	6.0
9/12/74	7.86	104.1	25.0	16.0	6.2
9/19/74	9.48	111.5	28.0	13.0	6.3
9/26/74	10.40	114.5	20.0	14.0	7.6
10/ 3/74	11.29	116.9	****	14.0	7.9
10/10/74	11.76	118.1	****	14.0	7.1
10/17/74	12.38	119.4	21.0	14.0	7.5
10/24/74	12.71	120.5	****	****	****
11/13/74	13.93	125.3	****	****	****

P. SETIFERUS  
 STOCKED 8/13/74  
 HARVEST 11/12/74  
 SURVIVAL 52%

PCND 8  
 25000/ACRE  
 184 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
8/13/74	*****	80.0	****	****	****
8/15/74	3.30	72.9	****	****	****
8/21/74	4.10	83.5	29.0	18.0	4.2
8/29/74	6.34	95.2	28.0	12.0	5.9
9/ 5/74	6.28	94.9	27.0	14.0	5.2
9/12/74	6.89	101.5	****	15.0	6.8
9/19/74	8.38	106.5	28.0	12.0	6.7
9/26/74	10.09	112.1	20.0	12.0	7.9
10/ 3/74	9.65	111.3	22.0	14.0	7.9
10/10/74	10.59	114.0	****	14.0	8.9
10/17/74	11.45	116.5	21.0	14.0	8.7
10/24/74	11.41	115.8	****	****	****
11/12/74	12.83	120.1	****	****	****

P. SETIFERUS  
 STOCKED 8/14/74  
 HARVEST 10/30/74  
 SURVIVAL 71%

PCND 9  
 25000/ACRE  
 247 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
8/14/74	*****	80.0	****	****	****
8/15/74	2.97	74.3	****	****	****
8/21/74	3.78	80.1	29.0	18.0	3.2
8/29/74	5.32	89.6	28.0	12.0	5.8
9/ 5/74	7.44	98.9	27.0	14.0	5.0
9/12/74	9.27	109.5	****	15.0	6.2
9/19/74	9.52	110.8	28.0	12.0	7.0
9/26/74	11.60	117.1	20.0	13.0	7.1
10/ 3/74	11.68	118.6	****	****	****
10/10/74	12.96	122.1	****	****	****
10/17/74	11.58	118.5	****	****	****
10/24/74	12.80	121.7	****	****	****
10/30/74	12.64	120.8	****	****	****

P. SETIFERUS  
 STOCKED 8/16/74  
 HARVEST 10/22/74  
 SURVIVAL 51%

PCND 10  
 25000/ACRE  
 175 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
8/16/74	*****	81.0	****	****	****
8/21/74	4.88	89.2	****	****	****
8/29/74	5.73	91.6	29.0	18.0	3.9
9/ 5/74	6.58	97.1	28.0	11.0	5.6
9/12/74	8.49	107.6	27.0	13.0	6.0
9/19/74	9.56	110.8	25.0	15.0	6.4
9/26/74	11.34	117.5	28.0	12.0	6.3
10/ 3/74	11.52	117.4	20.0	12.0	7.3
10/10/74	13.15	122.9	****	13.0	7.9
17/10/74	13.20	123.5	****	14.0	6.8
10/22/74	12.53	120.4	****	****	****

P. STYLIRISTRIS  
 STOCKED 5/30/74  
 HARVEST 11/13/74  
 SURVIVAL 39%

PCND 11  
 75000/ACRE  
 307 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/30/74	*****	7.0	****	****	****
6/20/74	0.31	35.0	29.0	****	6.9
6/27/74	0.93	53.0	29.0	24.0	4.9
7/12/74	2.09	71.6	****	****	****
7/18/74	2.05	67.0	****	****	****
7/25/74	2.26	71.6	****	****	****
8/ 8/74	2.54	74.0	****	****	****
8/15/74	3.15	78.2	****	****	****
8/21/74	3.79	83.9	****	****	****
8/29/74	4.43	88.8	29.0	20.0	6.0
9/ 5/74	4.84	92.5	27.0	20.0	6.1
9/12/74	5.29	94.9	25.0	22.0	6.6
9/19/74	6.10	99.9	28.0	16.0	8.3
9/26/74	6.67	102.1	20.0	18.0	7.4
10/ 3/74	6.83	103.1	****	18.0	8.1
10/10/74	7.22	105.2	****	18.0	5.9
10/17/74	7.90	107.6	****	17.0	6.7
10/24/74	8.10	108.5	****	****	****
11/13/74	9.42	113.9	****	****	****

P. SETIFERUS  
 STOCKED 8/20/74  
 HARVEST 11/14/74  
 SURVIVAL 57%

PCND 12  
 25000/ACRE  
 185 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
8/20/74	*****	63.0	29.0	16.0	4.2
8/21/74	1.87	63.7	29.0	16.0	4.2
8/29/74	4.35	83.6	29.0	12.0	7.0
9/ 5/74	5.52	92.3	27.0	14.0	6.1
9/12/74	4.92	89.4	25.0	15.0	6.9
9/19/74	7.60	102.6	28.0	13.0	7.1
9/26/74	8.48	105.7	20.0	12.0	7.5
10/ 3/74	8.78	108.2	****	13.0	8.0
10/10/74	10.59	114.8	****	13.0	6.8
10/17/74	10.10	112.5	****	****	****
10/24/74	10.23	114.6	****	****	****
11/14/74	11.89	119.1	****	****	****

P. SETIFERUS  
 STOCKED 8/20/74  
 HARVEST 11/13/74  
 SURVIVAL 54%

PCND 13  
 25000/ACRE  
 173 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
8/20/74	*****	69.0	29.0	16.0	5.7
8/21/74	2.45	69.2	****	****	****
8/29/74	4.11	81.7	29.0	13.0	5.9
9/ 5/74	4.39	85.1	27.0	13.0	5.7
9/12/74	6.48	96.8	****	15.0	6.9
9/19/74	7.80	103.7	28.0	12.0	7.1
9/26/74	7.93	106.4	20.0	12.0	7.7
10/ 3/74	9.41	110.5	****	13.0	7.9
10/10/74	9.80	112.9	****	13.0	6.8
10/17/74	11.00	116.2	****	13.0	7.3
10/24/74	10.53	115.0	****	****	****
11/13/74	11.66	117.4	****	****	****

P. SETIFERUS  
 STOCKED 8/ 6/74  
 HARVEST 11/13/74  
 SURVIVAL 48%

PCND 14  
 25000/ACRE  
 194 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
8/ 6/74	*****	15.8	****	****	****
8/21/74	0.57	41.9	29.0	16.0	5.1
8/29/74	2.01	65.1	29.0	12.0	6.3
9/ 5/74	2.10	68.7	27.0	13.0	6.4
9/12/74	3.00	76.7	****	15.0	6.9
9/19/74	4.05	83.0	28.0	12.0	7.0
9/26/74	5.13	91.6	20.0	14.0	7.7
10/ 3/74	5.24	93.0	****	13.0	7.8
10/10/74	6.59	100.6	****	13.0	5.4
10/17/74	7.31	102.5	****	13.0	6.5
10/24/74	6.78	101.2	****	****	****
11/13/74	7.27	102.4	****	****	****

P. SETIFERUS  
 STOCKED 8/ 6/74  
 HARVEST 11/14/74  
 SURVIVAL 45%

PCND 15  
 50000/ACRE  
 181 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
8/ 6/74	*****	15.8	****	****	****
8/21/74	0.80	46.9	29.0	16.0	5.9
8/29/74	1.54	59.5	29.0	12.0	6.6
9/ 5/74	2.38	70.3	27.0	14.0	6.0
9/12/74	2.01	68.0	****	15.0	6.9
9/19/74	2.71	74.6	28.0	12.0	7.0
9/26/74	3.81	81.8	20.0	13.0	7.7
10/ 3/74	4.49	88.8	****	13.0	7.2
10/10/74	5.16	92.3	****	13.0	6.3
10/17/74	4.80	89.8	****	13.0	6.4
10/24/74	6.03	97.2	****	****	****
11/14/74	7.24	103.2	****	****	****



P. SETIFERUS  
 STOCKED 9/ 5/74  
 HARVEST 11/14/74  
 SURVIVAL 72%

POND 16  
 25000/ACRE  
 167 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
9/ 5/74	1.35	57.5	27.0	13.0	6.8
9/12/74	2.94	76.7	****	15.0	7.4
9/19/74	5.54	93.8	28.0	12.0	6.4
9/26/74	5.47	93.8	20.0	12.0	7.8
10/ 3/74	6.58	97.8	****	13.0	7.9
10/10/74	8.06	106.5	****	13.0	7.3
10/17/74	6.21	96.2	****	13.0	7.5
10/24/74	8.15	106.2	****	13.0	6.4
11/14/74	8.45	107.6	****	****	****

P. SETIFERUS  
 STOCKED 9/ 5/74  
 HARVEST 11/14/74  
 SURVIVAL 77%

POND 17  
 25000/ACRE  
 153 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
9/ 5/74	*****	70.0	27.0	13.0	6.4
9/12/74	2.78	74.5	****	15.0	7.2
9/19/74	3.02	75.6	****	12.0	7.0
9/26/74	4.79	88.9	****	12.0	8.0
10/ 3/74	4.52	87.9	****	14.0	7.9
10/10/74	5.41	93.6	****	14.0	6.1
10/17/74	6.71	99.7	****	14.0	6.8
10/24/74	7.19	101.3	****	****	6.7
11/14/74	7.19	102.9	****	****	****

P. SETIFERUS  
 STOCKED 9/ 6/74  
 HARVEST 11/14/74  
 SURVIVAL 59%

PCND 18  
 25000/ACRE  
 134 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
9/ 6/74	*****	70.0	27.0	13.0	7.1
9/12/74	2.67	73.3	****	16.0	6.8
9/19/74	3.11	76.4	28.0	11.0	6.8
9/26/74	4.59	88.6	20.0	12.0	7.9
10/ 3/74	5.33	92.0	****	12.0	7.7
10/10/74	6.44	98.0	****	12.0	6.4
10/17/74	6.26	96.1	****	14.0	7.4
10/24/74	6.11	97.5	****	****	****
11/14/74	8.28	106.4	****	****	****

P. SETIFERUS  
 STOCKED 7/28/74  
 HARVEST 11/14/74  
 SURVIVAL 25%

PCND 19  
 25000/ACRE  
 74 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DC2
7/28/74	*****	15.8	****	****	****
8/ 8/74	*****	*****	****	****	****
8/15/74	*****	*****	29.0	16.0	5.9
8/21/74	1.62	61.0	29.0	16.0	6.6
8/29/74	3.30	78.9	29.0	12.0	6.9
9/ 5/74	4.12	85.3	27.0	13.0	6.8
9/12/74	4.33	87.1	****	15.0	7.1
9/19/74	5.88	95.8	28.0	13.0	7.5
9/26/74	6.59	100.1	20.0	12.0	7.7
10/ 3/74	7.79	105.5	****	12.0	6.8
10/10/74	8.14	106.7	****	12.0	7.6
10/17/74	9.05	108.5	****	13.0	7.2
10/24/74	9.77	112.4	****	****	****
11/14/74	10.58	115.4	****	****	****

HARVEST 11/14/74  
 SURVIVAL 54%

173 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DC2
8/21/74	5.81	92.8	29.0	20.0	5.9
8/29/74	4.48	83.1	29.0	15.0	7.2
9/ 5/74	4.25	83.1	27.0	15.0	6.4
9/12/74	6.38	96.9	****	17.0	6.0
9/19/74	5.69	93.6	28.0	14.0	5.8
9/26/74	7.29	100.8	20.0	15.0	7.1
10/ 3/74	8.71	108.3	****	16.0	7.9
10/10/74	9.88	112.3	****	16.0	6.1
10/17/74	10.69	113.7	****	16.0	7.3
10/24/74	9.37	110.5	****	****	****
11/14/74	11.62	119.0	****	****	****

P. SETIFERUS  
 STOCKED 8/ 6/74  
 HARVEST 11/ 8/74  
 SURVIVAL 53%

FCND 50  
 16000/ACRE  
 694 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DC2
8/ 6/74	*****	15.8	****	****	****
8/22/74	0.92	50.6	****	****	****
8/29/74	1.98	67.3	****	****	****
9/ 5/74	2.73	74.4	****	****	****
9/12/74	3.79	83.8	****	****	****
9/19/74	4.60	89.7	****	****	****
9/26/74	5.03	91.1	****	****	****
10/ 3/74	5.83	97.0	****	****	****
10/10/74	6.20	97.9	****	****	****
10/18/74	7.09	101.5	****	****	****
10/24/74	6.45	101.0	****	****	****
10/31/74	7.53	103.8	****	****	****
11/ 8/74	7.37	104.0	****	****	****

P. SETIFERUS

POND 51  
16000/ACRE  
506 LBS.

STOCKED 8/ 6/74  
HARVEST 11/11/74  
SURVIVAL 44%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
8/ 6/74	*****	15.8	*****	*****	*****
8/22/74	1.09	53.0	*****	*****	*****
8/29/74	1.77	65.1	*****	*****	*****
9/ 5/74	2.66	73.6	*****	*****	*****
9/12/74	2.56	73.2	*****	*****	*****
9/19/74	3.20	77.4	*****	*****	*****
9/26/74	3.98	83.2	*****	*****	*****
10/ 3/74	5.51	93.3	*****	*****	*****
15/10/74	4.66	89.9	*****	*****	*****
10/17/74	5.35	95.3	*****	*****	*****
10/24/74	6.26	100.9	*****	*****	*****
10/31/74	5.05	93.0	*****	*****	*****
11/11/74	6.60	99.6	*****	*****	*****

P. STYLIROSTRIS

POND 1  
40000/ACRE  
241 LBS.

STOCKED 7/ 1/75  
HARVEST 10/28/75  
SURVIVAL 48%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
7/ 1/75	*****	6.0	*****	*****	*****
7/21/75	0.30	34.5	30.0	*****	4.8
7/28/75	0.35	36.4	30.0	*****	4.8
8/ 4/75	1.28	55.5	*****	*****	*****
8/13/75	2.38	65.7	29.0	*****	5.6
8/20/75	4.11	80.6	*****	*****	*****
8/25/75	4.30	80.8	*****	*****	*****
9/ 2/75	5.41	88.6	*****	*****	*****
9/17/75	7.43	100.1	25.0	*****	*****
10/ 1/75	9.28	108.1	*****	*****	*****
10/14/75	9.71	109.4	*****	*****	*****
10/27/75	10.96	113.5	*****	*****	*****
10/28/75	11.37	115.3	*****	*****	*****

P. SETIFERUS  
 STOCKED 7/10/75  
 HARVEST 12/ 1/75  
 SURVIVAL 0%

PCND 2  
 60000/ACRE  
 0 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DG2
7/10/75	*****	10.0	****	****	8.2
7/28/75	0.43	40.1	30.0	****	****
8/ 4/75	0.86	44.9	****	****	****
8/13/75	1.77	63.0	29.0	****	6.6
8/20/75	2.11	65.6	****	****	****
8/25/75	2.14	68.7	****	****	****
9/ 2/75	2.95	76.8	****	****	****
9/17/75	4.48	87.9	****	****	****
10/ 1/75	5.27	93.1	****	****	****
10/14/75	5.91	95.1	****	****	****
10/27/75	5.54	92.7	****	****	****
11/20/75	5.76	94.0	****	****	****
12/ 1/75	5.74	95.7	****	****	****

P. AZTECUS  
 STOCKED 5/14/75  
 HARVEST 12/ 9/75  
 SURVIVAL 1%

PCND 3  
 160000/ACRE  
 16 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DG2
5/14/75	*****	6.0	****	****	****
6/ 2/75	0.07	21.8	****	****	****
6/ 9/75	0.65	43.9	****	****	****
6/16/75	1.96	62.1	****	****	****
6/23/75	2.41	67.0	****	****	****
6/30/75	3.28	73.5	****	****	****
7/ 7/75	4.16	81.3	****	****	8.0
7/14/75	4.25	82.1	****	****	****
7/21/75	5.06	88.0	****	****	****
7/28/75	5.25	90.2	31.5	****	4.6
8/ 4/75	5.92	93.1	****	****	****
8/13/75	6.13	94.0	29.0	****	5.5
8/20/75	6.49	96.5	****	****	****
8/25/75	6.76	95.6	****	****	****
9/ 2/75	6.63	96.4	****	****	****
9/17/75	6.85	98.0	****	****	****
10/ 1/75	7.56	100.5	****	****	****
10/14/75	8.41	105.5	****	****	****
10/27/75	8.93	108.0	****	****	****
11/20/75	9.11	107.0	****	****	****

P. SETIFERUS

PCND 4

STOCKED 6/11/75

60000/ACRE

HARVEST 10/28/75

158 LBS.

SURVIVAL 20%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
6/11/75	*****	6.0	*****	*****	*****
6/30/75	0.28	35.5	*****	*****	*****
7/ 7/75	0.64	46.5	*****	*****	8.6
7/14/75	1.12	53.7	*****	*****	*****
7/21/75	1.32	60.3	*****	*****	*****
7/28/75	1.80	67.7	31.5	*****	4.5
8/ 4/75	2.65	74.1	*****	*****	*****
8/13/75	2.70	67.6	29.0	*****	6.7
8/20/75	3.74	82.8	*****	*****	*****
8/25/75	4.42	86.0	*****	*****	*****
9/ 2/75	5.61	95.1	*****	*****	*****
9/17/75	7.11	102.0	*****	*****	*****
10/ 1/75	8.25	107.2	*****	*****	*****
10/14/75	8.95	109.8	*****	*****	*****
10/27/75	10.02	111.9	*****	*****	*****
10/28/75	10.07	112.3	*****	*****	*****

P. SETIFERUS

PCND 5

STOCKED 6/11/75

60000/ACRE

HARVEST 12/ 1/75

0 LBS.

SURVIVAL 0%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
6/11/75	*****	6.0	*****	*****	*****
6/30/75	0.36	35.4	*****	*****	*****
7/ 7/75	0.69	47.2	*****	*****	8.2
7/14/75	1.18	56.5	*****	*****	*****
7/21/75	1.64	63.5	*****	*****	*****
7/28/75	1.70	66.0	30.5	*****	5.2
8/ 4/75	2.47	73.4	*****	*****	*****
8/13/75	3.13	78.3	29.0	*****	5.5
8/20/75	4.14	86.0	*****	*****	*****
8/25/75	4.82	89.1	*****	*****	*****
9/ 2/75	5.04	90.4	*****	*****	*****
9/17/75	5.65	95.5	*****	*****	*****
10/ 1/75	6.41	99.4	*****	*****	*****
10/14/75	6.99	102.7	*****	*****	*****
10/27/75	7.63	104.2	*****	*****	*****
11/20/75	8.16	105.6	*****	*****	*****
12/ 1/75	8.17	106.5	*****	*****	*****

HARVEST 10/29/75  
SURVIVAL 51%

235 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
6/11/75	*****	6.0	****	****	****
6/30/75	0.24	31.8	****	****	****
7/ 7/75	0.65	45.9	****	****	9.0
7/14/75	1.06	53.7	****	****	****
7/21/75	1.68	63.1	****	****	****
7/28/75	2.28	72.7	30.5	****	5.0
8/ 4/75	3.14	79.2	****	****	****
8/13/75	3.54	88.3	29.0	****	4.7
8/20/75	5.35	93.3	****	****	****
8/25/75	5.72	94.8	****	****	****
9/ 2/75	6.63	101.0	****	****	****
9/17/75	7.75	105.2	****	****	****
10/ 1/75	8.88	110.6	****	****	****
10/14/75	9.71	112.9	****	****	****
10/27/75	10.20	114.6	****	****	****
10/29/75	10.42	114.1	****	****	****

P. SETIFERUS  
STOCKED 7/10/75  
HARVEST 12/11/75  
SURVIVAL 35%

PCND 7  
60000/ACRE  
166 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
7/10/75	*****	10.0	****	****	****
8/ 4/75	1.18	55.0	****	****	****
8/13/75	1.20	56.5	****	****	****
8/20/75	1.91	67.2	****	****	****
8/25/75	2.08	68.1	****	****	****
9/ 2/75	3.13	78.7	****	****	****
9/17/75	4.02	85.2	****	****	****
10/ 1/75	5.87	95.7	****	****	****
10/14/75	5.99	97.0	****	****	****
10/27/75	6.87	99.8	****	****	****
11/20/75	7.40	103.0	****	****	****
12/ 1/75	7.11	101.6	****	****	****

P. VANNAMEI  
 STOCKED 7/15/75  
 HARVEST 12/ 3/75  
 SURVIVAL 78%

PCND 9  
 20000/ACRE  
 96 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
7/15/75	*****	6.0	*****	*****	*****
8/13/75	0.30	36.2	*****	*****	*****
8/20/75	0.88	48.8	*****	*****	*****
8/25/75	1.60	57.8	*****	*****	*****
9/ 2/75	1.74	60.2	*****	*****	*****
9/17/75	2.86	73.1	*****	*****	*****
10/ 1/75	3.79	80.7	*****	*****	*****
10/14/75	3.10	75.5	*****	*****	*****
10/27/75	3.98	81.8	*****	*****	*****
11/20/75	4.31	85.4	*****	*****	*****
12/ 1/75	5.26	88.7	*****	*****	*****
12/ 3/75	5.75	93.3	*****	*****	*****

P. VANNAMEI  
 STOCKED 7/15/75  
 HARVEST 12/ 3/75  
 SURVIVAL 57%

PCND 10  
 20000/ACRE  
 114 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
7/15/75	*****	6.0	*****	*****	*****
8/13/75	0.71	45.4	*****	*****	*****
8/20/75	1.55	58.4	*****	*****	*****
8/25/75	1.69	59.8	*****	*****	*****
9/ 2/75	2.29	66.3	*****	*****	*****
9/17/75	3.61	76.6	*****	*****	*****
10/ 1/75	5.65	90.8	*****	*****	*****
10/14/75	7.96	102.1	*****	*****	*****
10/27/75	7.95	101.0	*****	*****	*****
11/20/75	8.61	104.6	*****	*****	*****
12/ 1/75	7.93	102.6	*****	*****	*****
12/ 3/75	9.10	106.8	*****	*****	*****



HARVEST 10/23/75 60 LBS.  
 SURVIVAL 28%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DC2
8/11/75	*****	8.0	****	****	****
9/17/75	0.83	48.8	****	****	****
10/ 1/75	2.30	70.0	****	****	****
10/14/75	3.47	80.9	****	****	****
10/23/75	4.79	90.4	****	****	****

P. STYLIRCSTRIS PCND 12  
 STOCKED 8/11/75 40000/ACRE  
 HARVEST 10/23/75 30 LBS.  
 SURVIVAL 22%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DC2
8/11/75	*****	8.0	****	****	****
9/17/75	1.18	54.4	****	****	****
10/ 1/75	1.69	66.7	****	****	****
10/14/75	2.46	72.3	****	****	****
10/23/75	3.16	79.1	****	****	****

P. SETIFERLS PCND 13  
 STOCKED 7/29/75 25000/ACRE  
 HARVEST 10/23/75 74 LBS.  
 SURVIVAL 61%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DC2
7/29/75	*****	5.5	****	****	****
9/ 2/75	1.91	66.4	****	****	****
9/17/75	3.11	80.1	****	****	****
10/ 1/75	3.73	85.0	****	****	****
10/14/75	3.60	83.6	****	****	****
10/23/75	4.39	88.1	****	****	****

P. STYLIROSTRIS  
STOCKED 8/11/75  
HARVEST 10/22/75  
SURVIVAL 26%

PCND 18  
40000/ACRE  
56 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
8/11/75	*****	8.0	*****	*****	*****
9/17/75	0.56	41.0	*****	*****	*****
10/ 1/75	1.42	57.4	*****	*****	*****
10/14/75	2.99	74.4	*****	*****	*****
10/22/75	4.73	87.5	*****	*****	*****

P. STYLIROSTRIS  
STOCKED 8/11/75  
HARVEST 10/22/75  
SURVIVAL 43%

PCND 19  
40000/ACRE  
28 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
8/11/75	*****	8.0	*****	*****	*****
9/17/75	0.49	41.4	*****	*****	*****
10/ 1/75	0.84	49.5	*****	*****	*****
10/14/75	1.51	57.0	*****	*****	*****
10/22/75	1.49	60.3	*****	*****	*****

P. STYLIROSTRIS  
STOCKED 8/11/75  
HARVEST 11/20/75  
SURVIVAL 0%

PCND 20  
60000/ACRE  
0 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
8/11/75	*****	8.0	*****	*****	*****
9/17/75	0.73	47.1	*****	*****	*****
10/ 1/75	0.58	43.3	*****	*****	*****
10/14/75	0.69	45.7	*****	*****	*****
11/20/75	2.23	71.0	*****	*****	*****

P. SETIFERUS  
 STOCKED 7/24/75  
 HARVEST 12/ 3/75  
 SURVIVAL 46%

FCND 50  
 24000/ACRE  
 1027 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
7/24/75	*****	6.0	****	****	****
8/25/75	1.49	59.2	****	****	****
9/ 2/75	1.68	63.3	****	****	****
9/17/75	4.08	86.6	****	****	****
10/ 1/75	5.05	91.4	****	****	****
10/14/75	6.06	96.7	****	****	****
10/27/75	6.96	101.2	****	****	****
11/20/75	9.36	110.4	****	****	****
12/ 1/75	8.66	107.1	****	****	****
12/ 3/75	8.46	106.3	****	****	****

P. SETIFERUS  
 STOCKED 7/19/75  
 HARVEST 11/ 6/75  
 SURVIVAL 22%

FCND 51  
 60000/ACRE  
 1918 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
7/19/75	*****	6.0	****	****	****
8/20/75	0.48	41.2	****	****	****
8/25/75	1.90	64.8	****	****	****
9/ 2/75	3.57	81.8	****	****	****
9/17/75	6.59	99.1	****	****	****
10/ 1/75	8.68	109.7	****	****	****
10/14/75	10.37	114.0	****	****	****
10/27/75	11.11	116.0	****	****	****
11/ 6/75	13.00	121.1	****	****	****

P. SETIFERUS  
 STOCKED 6/29/76  
 HARVEST 11/ 5/76  
 SURVIVAL 42%

PEND 1  
 208000/ACRE  
 172 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
6/29/76	0.19	30.5	31.0	30.0	8.5
7/ 6/76	0.37	36.9	****	****	****
7/14/76	0.74	46.2	28.0	25.0	5.5
7/22/76	1.06	53.6	32.0	22.0	6.3
8/19/76	0.92	51.2	30.0	18.0	4.7
8/26/76	1.59	62.5	30.0	18.0	3.5
9/ 2/76	2.29	68.7	29.0	21.0	5.2
9/ 8/76	2.60	71.6	****	****	****
7/16/76	3.91	81.9	****	****	****
9/23/76	5.06	91.4	25.0	22.0	6.2
9/30/76	6.70	99.1	****	****	****
10/ 7/76	7.28	102.4	21.0	****	8.3
10/21/76	8.74	108.3	18.0	****	****
10/27/76	8.37	106.4	19.0	****	****

P. SETIFERUS  
 STOCKED 7/17/76  
 HARVEST 9/22/76  
 SURVIVAL 53%

PEND 2  
 88000/ACRE  
 179 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
7/17/76	****	6.0	29.0	26.0	8.2
8/26/76	0.36	36.9	30.0	****	3.9
9/ 2/76	0.44	40.0	28.0	22.0	2.0
9/ 8/76	1.10	53.2	****	****	****
9/16/76	1.15	54.6	****	****	****

P. SETIFERUS  
 STOCKED 6/29/76  
 HARVEST 11/18/76  
 SURVIVAL 0%

PCND 3  
 165000/ACRE  
 0 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
6/29/76	0.17	28.5	31.0	24.0	7.7
7/ 6/76	0.29	35.2	27.0	24.0	6.6
7/14/76	0.45	40.7	29.0	22.0	7.8
7/22/76	0.59	44.4	30.0	21.0	6.7
8/ 5/76	0.85	51.0	28.0	16.0	5.2
8/19/76	0.90	50.9	30.0	15.0	5.5
8/26/76	0.98	53.0	30.0	****	4.2
9/ 2/76	1.24	57.9	28.0	20.0	2.2
9/ 8/76	1.82	65.9	****	****	****
9/16/76	2.86	73.5	****	****	****
9/23/76	2.29	71.2	25.0	21.0	6.6
9/30/76	2.65	74.2	****	****	****
10/ 7/76	2.93	75.7	****	****	****

P. SETIFERUS  
 STOCKED 7/15/76  
 HARVEST 0/ 0/ 0  
 SURVIVAL 13%

PCND 4  
 464000/ACRE  
 0 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
7/15/76	*****	*****	****	****	****
8/19/76	0.53	43.1	****	****	****
8/26/76	0.38	37.2	30.0	****	4.7
9/ 2/76	0.45	39.1	28.0	21.0	3.0
9/ 8/76	0.92	45.6	****	****	****
9/16/76	0.65	45.0	****	****	****
9/23/76	0.99	51.2	25.0	20.0	6.0
9/30/76	1.26	67.3	****	****	****
10/ 7/76	1.43	56.8	21.0	9.0	7.7

P. SETIFERUS  
 STOCKED 8/19/76 POND 5  
 HARVEST 9/22/76 464000/ACRE  
 SURVIVAL 15% 61 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
8/19/76	0.40	39.8	30.0	18.0	5.3
8/26/76	0.61	43.4	30.0	****	3.5
9/ 2/76	0.71	45.2	28.0	21.0	2.2
9/ 8/76	0.99	48.4	****	****	****
9/16/76	0.65	45.3	25.0	21.0	5.0

P. SETIFERUS  
 STOCKED 9/10/76 POND 6  
 HARVEST 10/19/76 20000/ACRE  
 SURVIVAL 99% 96 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
9/10/76	****	****	****	****	****
9/16/76	1.32	54.4	****	****	****
9/23/76	2.58	69.1	25.0	22.0	6.0
9/30/76	2.34	68.0	****	****	****
10/ 7/76	2.36	69.7	21.0	9.0	7.1
10/19/76	3.49	76.8	****	****	****

P. SETIFERUS  
 STOCKED 9/13/76 POND 7  
 HARVEST 11/18/76 21000/ACRE  
 SURVIVAL 0% 0 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
9/13/76	****	****	28.0	****	2.8
9/16/76	0.95	50.0	****	****	****
9/23/76	1.36	58.5	25.0	23.0	5.5
9/30/76	1.57	60.8	****	****	****
10/ 7/76	2.64	71.9	****	****	****
11/18/76	****	****	****	****	****

HARVEST 11/ 3/76  
 SURVIVAL 66%

151 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DC2
8/17/76	0.80	49.1	29.0	20.0	7.0
8/19/76	0.80	49.1	30.0	22.0	6.5
8/26/76	1.17	56.8	29.0	****	5.0
9/ 2/76	2.42	69.1	28.0	21.0	3.0
9/ 8/76	2.44	71.3	****	****	****
9/16/76	3.69	80.6	****	****	****
9/23/76	3.92	83.8	25.0	18.0	64.0
9/30/76	4.43	87.5	****	****	****
10/ 7/76	4.62	87.7	****	****	****
10/14/76	5.16	91.3	21.0	8.0	8.7
10/27/76	5.17	89.0	****	****	****
11/ 3/76	5.22	91.9	****	****	****

P. SETIFERUS  
 STOCKED 8/17/76  
 HARVEST 11/ 3/76  
 SURVIVAL 39%

PCND 14  
 40000/ACRE  
 126 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DC2
8/17/76	0.80	49.1	****	****	****
8/19/76	0.72	48.3	****	****	****
8/26/76	1.06	55.3	30.0	****	5.1
9/ 2/76	1.37	59.9	28.0	21.0	2.7
9/ 8/76	2.43	71.9	****	****	****
9/16/76	3.75	82.5	****	****	****
9/23/76	4.99	91.6	****	****	****
9/30/76	5.76	95.2	****	****	****
10/ 7/76	6.38	97.8	****	****	****
10/14/76	7.00	100.7	21.0	9.0	8.3
10/21/76	7.37	103.0	****	****	****
10/27/76	8.48	107.0	****	****	****
11/ 3/76	7.36	102.8	****	****	****

P. SETIFERUS  
 STOCKED 8/12/76  
 HARVEST 11/ 4/76  
 SURVIVAL 68%

FCND 15  
 40000/ACRE  
 168 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DC2
8/12/76	1.03	51.7	29.0	24.0	6.1
8/19/76	1.60	57.8	****	****	****
8/26/76	2.04	65.1	30.0	****	5.5
9/ 2/76	2.69	72.4	28.0	22.0	2.8
9/ 8/76	3.56	79.7	****	****	****
9/16/76	3.92	83.0	****	****	****
9/23/76	4.57	89.2	25.0	18.0	6.8
9/30/76	5.06	91.2	****	****	****
10/ 7/76	5.09	91.1	****	****	****
10/14/76	5.14	90.5	21.0	8.0	8.4
10/21/76	5.48	93.1	****	****	****
10/27/76	6.07	96.8	****	****	****
11/ 4/76	5.59	93.5	****	****	****

P. SETIFERUS  
 STOCKED 8/12/76  
 HARVEST 11/ 4/76  
 SURVIVAL 57%

FCND 16  
 40000/ACRE  
 150 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
8/12/76	1.03	51.7	****	****	****
8/19/76	1.30	57.1	****	****	****
8/26/76	1.84	61.5	30.0	****	4.5
9/ 2/76	2.74	74.0	28.0	20.0	4.0
9/ 8/76	3.06	77.3	****	****	****
9/16/76	3.76	81.4	****	****	****
9/23/76	4.59	88.8	25.0	19.0	6.4
9/30/76	4.69	89.0	****	****	****
10/ 7/76	4.86	89.6	****	****	****
10/14/76	5.43	92.4	21.0	18.0	7.9
10/21/76	5.10	91.7	****	****	****
10/27/76	5.53	92.8	****	****	****
11/ 4/76	5.99	94.6	****	****	****



P. SETIFERUS  
 STOCKED 8/12/76  
 HARVEST 11/ 3/76  
 SURVIVAL 81%

PCND 17  
 40000/ACRE  
 203 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
8/12/76	1.03	51.7	29.0	24.0	2.9
8/19/76	1.83	66.5	****	****	****
8/26/76	1.77	65.5	29.0	****	5.7
9/ 2/76	2.55	71.1	****	****	****
9/ 8/76	2.88	76.3	****	****	****
9/16/76	3.75	82.4	****	****	****
9/23/76	4.35	87.8	25.0	19.0	4.7
9/30/76	4.96	90.4	****	****	****
10/ 7/76	4.60	89.0	21.0	18.0	8.0
10/14/76	5.54	93.8	****	****	****
10/21/76	5.17	91.5	****	****	****
10/27/76	5.06	91.1	****	****	****
11/ 3/76	5.62	92.9	****	****	****

P. SETIFERUS  
 STOCKED 8/12/76  
 HARVEST 11/ 4/76  
 SURVIVAL 69%

PGND 18  
 40000/ACRE  
 182 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
8/12/76	1.03	51.7	29.0	24.0	2.9
8/19/76	1.69	62.7	****	****	****
8/26/76	1.71	62.9	30.0	****	3.0
9/ 2/76	1.96	67.2	28.0	22.0	2.8
9/ 8/76	3.23	79.4	****	****	****
9/16/76	3.35	79.2	****	****	****
9/23/76	4.47	89.0	25.0	19.0	2.5
9/30/76	4.91	89.6	****	****	****
10/ 7/76	5.35	91.9	****	****	****
10/14/76	5.25	91.9	21.0	18.0	8.4
10/21/76	5.63	93.7	****	****	****
10/27/76	5.78	94.1	****	****	****
11/ 5/76	5.95	93.8	****	****	****

P. SETIFERUS  
 STOCKED 5/20/77  
 HARVEST 10/24/77  
 SURVIVAL 10%

FCND 1  
 80000/ACRE  
 138 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DC2
5/20/77	0.14	8.0	****	****	****
6/ 8/77	0.32	36.6	****	****	****
6/15/77	0.78	48.9	****	****	****
6/22/77	1.80	64.9	****	****	****
6/29/77	2.36	72.7	27.8	22.0	6.2
7/ 6/77	2.93	77.0	29.6	24.0	5.8
7/13/77	3.33	80.8	29.3	25.0	5.3
7/20/77	3.83	85.4	29.3	25.0	6.1
7/27/77	4.23	87.2	29.5	27.0	3.7
8/ 3/77	4.66	89.3	31.3	29.0	7.3
8/10/77	4.87	92.0	29.0	30.0	4.1
8/17/77	5.89	94.8	28.3	****	3.3
8/24/77	6.07	96.5	30.0	26.0	3.4
8/31/77	****	****	27.7	25.0	4.6
9/ 7/77	9.02	109.4	27.6	27.0	3.4
9/14/77	****	****	25.7	28.0	4.6
9/21/77	11.66	117.9	26.6	22.0	4.0
9/28/77	13.13	121.2	23.0	17.0	****
10/ 5/77	13.94	124.3	24.0	****	****
10/12/77	13.80	123.4	17.0	****	****
10/19/77	14.31	125.7	21.0	****	6.4
10/24/77	16.39	126.6	****	****	****

P. SETIFERUS  
 STOCKED 5/20/77  
 HARVEST 10/24/77  
 SURVIVAL 84%

PCND 2  
 80000/ACRE  
 519 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/20/77	0.14	8.0	****	****	****
6/ 8/77	0.31	36.4	****	****	****
6/15/77	0.80	49.1	****	****	****
2/25/77	1.21	58.1	****	****	****
6/29/77	1.87	66.5	27.8	22.0	5.6
7/ 6/77	2.69	75.4	29.5	24.0	5.6
7/13/77	3.05	78.8	29.3	25.0	5.8
7/20/77	3.59	83.9	29.3	25.0	5.4
7/27/77	3.90	82.9	29.5	27.0	4.1
8/ 3/77	4.92	91.4	29.8	29.0	5.1
8/10/77	4.71	90.0	29.0	30.0	3.9
8/17/77	5.16	92.2	28.5	****	3.8
8/24/77	5.32	93.6	29.8	26.0	3.2
8/31/77	****	****	27.6	25.0	4.5
9/ 7/77	5.20	93.8	28.1	27.0	4.0
9/14/77	****	****	25.8	28.0	6.6
9/21/77	5.53	94.7	26.7	22.0	4.1
9/28/77	6.55	99.6	****	17.0	****
10/ 5/77	6.93	101.4	****	****	****
10/12/77	6.82	100.2	****	****	****
10/19/77	6.99	101.2	****	****	****
10/24/77	7.04	101.9	****	****	****

75  
 (Handwritten mark)

P. SETIFERUS

PCND 4

STOCKED 5/20/77

80000/ACRE

HARVEST 10/27/77

593 LBS.

SURVIVAL 99%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/20/77	0.14	8.0	***	***	***
6/ 8/77	0.24	33.1	***	***	***
6/15/77	0.85	50.3	***	***	***
6/22/77	1.05	54.4	***	***	***
6/29/77	1.98	68.6	27.8	21.0	5.8
7/ 6/77	2.30	70.8	29.5	22.0	5.7
7/13/77	2.66	75.8	29.2	23.5	5.7
7/20/77	3.01	79.8	29.2	***	5.0
7/27/77	3.33	80.1	29.8	25.0	4.7
8/ 3/77	3.93	84.6	29.5	27.0	6.5
8/10/77	3.78	84.1	29.2	30.0	4.2
8/17/77	4.89	90.7	28.5	***	3.3
8/24/77	4.48	88.8	29.8	26.0	3.6
8/31/77	****	****	28.0	26.0	3.6
9/ 7/77	4.85	92.1	28.4	27.0	4.6
9/14/77	****	****	25.9	27.3	4.8
9/21/77	5.88	96.8	26.7	***	4.3
9/28/77	5.77	94.8	***	18.0	***
10/ 5/77	6.30	99.2	***	***	***
10/12/77	6.34	98.1	***	***	***
10/19/77	5.94	96.7	21.0	25.0	6.4
10/26/77	6.53	99.5	***	***	***
10/27/77	6.36	99.8	***	***	***

P. SETIFERUS  
 STOCKED 5/20/77  
 HARVEST 11/10/77  
 SURVIVAL 69%

PGND 5  
 80000/ACRE  
 517 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/20/77	0.14	8.0	****	****	****
6/ 8/77	0.37	38.7	****	****	****
6/15/77	1.22	56.8	****	****	****
6/22/77	1.55	61.2	****	****	****
6/29/77	2.65	74.2	27.8	21.0	5.6
7/ 6/77	3.53	82.1	29.5	22.0	5.8
7/13/77	4.44	88.8	29.5	26.0	6.1
7/20/77	4.87	91.5	29.8	****	5.9
7/27/77	5.25	92.0	29.5	29.0	3.3
8/ 3/77	5.71	95.1	29.8	29.0	5.9
8/10/77	6.23	97.0	29.8	30.0	4.8
8/17/77	6.14	96.8	28.0	****	2.2
8/24/77	6.61	99.2	28.3	26.0	3.8
8/31/77	****	****	27.8	26.0	3.1
9/ 7/77	6.53	100.4	28.0	26.0	4.1
9/14/77	****	****	26.0	27.0	4.6
9/21/77	7.51	104.4	26.7	22.0	4.7
9/28/77	7.41	102.4	****	18.0	****
10/ 5/77	8.06	105.4	****	****	****
10/12/77	8.12	105.5	****	****	****
10/19/77	8.55	107.2	****	****	6.6
10/26/77	8.75	108.5	****	****	****
11/10/77	8.48	109.7	****	****	****

77  
 76

P. SETIFERUS  
 STOCKED 5/20/77  
 HARVEST 11/10/77  
 SURVIVAL 68%

FCND 6  
 80000/ACRE  
 455 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/20/77	0.14	8.0	****	****	****
6/ 8/77	0.26	34.1	****	****	****
6/15/77	0.51	43.5	****	****	****
6/22/77	0.89	50.2	****	****	****
6/29/77	1.80	65.6	27.8	22.0	5.5
7/ 6/77	2.40	71.8	29.6	24.0	5.9
7/13/77	2.68	75.4	29.3	26.0	5.9
7/20/77	3.52	82.8	29.3	****	5.9
7/27/77	4.15	86.2	29.5	28.0	4.6
8/ 3/77	5.36	93.1	31.3	28.0	5.6
8/10/77	4.81	90.1	29.0	30.0	4.1
8/17/77	5.48	93.9	28.3	****	3.8
8/24/77	5.10	93.1	30.0	26.0	3.9
8/31/77	****	****	27.7	26.0	4.3
9/ 7/77	5.19	92.6	27.6	27.0	4.9
9/14/77	****	****	25.7	26.0	5.2
9/21/77	5.82	95.3	26.6	23.0	5.5
9/28/77	6.75	100.0	23.0	18.0	****
10/ 5/77	6.98	100.8	24.0	****	****
10/12/77	7.16	102.6	17.0	****	****
10/19/77	7.88	104.9	21.0	****	6.4
10/26/77	7.49	102.6	****	****	****
11/ 2/77	****	****	****	****	****
11/ 9/77	****	****	****	****	****
11/10/77	7.57	105.9	****	****	****

P. SETIFERUS  
 STOCKED 6/ 9/77  
 HARVEST 11/22/77  
 SURVIVAL 59%

PCND 7  
 50000/ACRE  
 364 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
6/ 9/77	0.10	24.8	****	****	****
6/15/77	0.19	29.5	****	****	****
6/22/77	0.44	38.6	****	****	****
7/ 6/77	0.95	50.6	****	****	****
7/13/77	1.57	62.0	****	****	****
7/20/77	1.78	66.0	****	****	****
7/27/77	1.89	65.0	****	****	****
8/ 3/77	2.75	75.1	****	****	****
8/10/77	2.22	70.8	****	****	****
8/17/77	2.82	75.1	****	****	****
8/24/77	2.21	70.0	****	****	****
9/ 7/77	2.94	78.1	****	****	****
9/21/77	3.53	81.4	****	****	****
9/28/77	4.35	85.3	****	****	****
10/ 5/77	4.44	88.6	****	****	****
10/12/77	4.08	86.2	****	****	****
10/19/77	5.33	92.4	****	****	****
10/26/77	4.70	88.8	****	****	****
11/22/77	4.73	90.9	****	****	****

P. STYLIRSTRIS  
 STOCKED 6/25/77  
 HARVEST 11/22/77  
 SURVIVAL 2%

PCND 8  
 50000/ACRE  
 10 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
6/25/77	*****	*****	****	****	****
7/20/77	1.48	61.2	****	****	****
7/27/77	3.63	75.3	****	****	****
8/ 3/77	5.22	85.4	****	****	****
8/10/77	7.56	100.9	****	****	****
8/17/77	9.44	109.5	****	****	****
8/24/77	9.18	107.9	****	****	****
9/ 7/77	12.62	122.6	****	****	****
9/21/77	13.34	123.9	****	****	****
9/28/77	14.62	128.0	****	****	****
10/ 5/77	15.08	131.4	****	****	****
10/12/77	15.10	128.5	****	****	****
10/19/77	17.25	135.0	****	****	****
11/22/77	*****	*****	****	****	****

P. SETIFERUS  
 STOCKED 5/20/77  
 HARVEST 11/13/77  
 SURVIVAL 99%

FCND 11  
 80000/ACRE  
 574 LBS.

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DATE          MEAN      MEAN      MEAN      MEAN      MEAN
              WEIGHT    LENGTH    TEMP      SAL       DO2
=====
5/20/77      0.14      8.0      ***      ***      ***
6/ 8/77      0.19     31.4     ***      ***      ***
6/15/77      0.42     40.2     ***      ***      ***
6/22/77      0.88     53.0     ***      ***      ***
6/29/77      1.13     57.2     28.0     22.0     6.4
7/ 6/77      1.29     59.8     29.5     ***      6.0
7/13/77      1.32     60.7     29.6     26.0     6.6
7/20/77      1.50     63.0     29.0     ***      4.9
7/27/77      1.84     66.5     29.5     28.0     4.9
8/ 3/77      1.93     69.2     30.8     28.0     5.3
8/10/77      2.26     70.6     29.3     30.0     3.3
8/17/77      2.49     72.4     28.0     ***      3.0
8/24/77      2.93     78.5     29.7     25.0     3.6
8/31/77      ****     ****     27.6     26.0     4.1
9/ 7/77      3.06     79.6     27.7     27.0     3.4
9/14/77      ****     ****     25.9     26.0     4.6
9/21/77      4.77     83.6     27.1     22.0     3.8
9/28/77      4.37     87.0     27.8     18.0     ****
10/ 5/77     5.00     91.6     29.3     ***      ***
10/12/77     4.99     90.4     ***      ***      ***
10/19/77     5.44     91.7     ***      ***      ***
10/26/77     5.95     96.0     ***      ***      ***
11/ 2/77     ****     ****     ***      ***      ***
11/ 9/77     ****     ****     ***      ***      ***
11/13/77     5.93     94.6     ***      ***      ***
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P. SETIFERUS  
 STOCKED 5/19/77  
 HARVEST 11/14/77  
 SURVIVAL 92%

POND 12  
 80000/ACRE  
 440 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/19/77	0.14	8.0	****	****	****
6/ 8/77	0.25	33.8	****	****	****
6/15/77	0.66	47.4	****	****	****
6/22/77	0.96	54.9	****	****	****
6/29/77	1.12	57.4	****	****	****
7/ 6/77	1.39	61.8	29.5	22.0	6.8
7/13/77	1.46	62.7	29.7	25.0	6.6
7/20/77	1.73	67.2	29.0	****	5.1
7/27/77	1.84	67.7	29.8	27.0	5.2
8/ 3/77	2.57	74.9	30.5	29.0	4.7
8/10/77	2.56	74.8	29.0	30.0	5.7
8/17/77	2.91	77.6	28.5	****	3.3
8/24/77	3.13	79.8	30.1	26.0	3.4
8/31/77	****	****	27.6	25.0	4.7
9/ 7/77	3.26	81.6	27.6	27.0	3.6
9/14/77	****	****	26.0	26.0	4.5
9/21/77	3.76	83.4	26.7	22.0	4.2
9/28/77	4.23	86.0	****	18.0	****
10/ 5/77	4.35	88.9	****	****	****
10/12/77	4.52	88.9	****	****	****
10/19/77	4.43	86.7	21.0	****	6.2
10/26/77	5.13	91.8	****	****	****
11/ 2/77	****	****	****	****	****
11/ 9/77	****	****	****	****	****
11/14/77	5.44	92.3	****	****	****

P. SETIFERUS  
 STOCKED 5/19/77  
 HARVEST 11/14/77  
 SURVIVAL 99%

PCND 13  
 80000/ACRE  
 483 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/19/77	0.14	8.0	***	***	***
6/ 8/77	0.32	36.6	***	***	***
6/15/77	0.76	49.1	***	***	***
6/22/77	1.09	56.1	***	***	***
6/29/77	1.18	59.1	28.2	22.0	6.2
7/ 6/77	1.36	62.3	29.5	***	6.6
7/13/77	1.39	61.9	29.8	22.0	5.1
7/20/77	1.82	68.0	29.0	25.0	5.8
7/27/77	1.92	67.8	29.8	27.0	5.1
8/ 3/77	1.89	69.6	30.5	29.0	6.8
8/10/77	2.37	73.6	29.3	30.0	4.5
8/17/77	2.94	75.7	28.0	***	3.3
8/24/77	2.54	74.7	29.8	26.0	3.7
8/31/77	***	***	27.8	26.0	4.8
9/ 7/77	3.03	79.6	27.7	28.0	3.8
9/14/77	***	***	26.0	26.0	4.1
9/21/77	3.79	85.4	26.7	22.0	3.5
9/28/77	4.07	85.2	***	18.0	***
10/ 5/77	4.46	88.5	***	***	***
10/12/77	4.29	87.3	***	25.0	***
10/19/77	4.55	88.7	21.8	***	6.4
10/26/77	4.96	90.4	***	***	***
11/ 2/77	***	***	***	***	***
11/ 9/77	***	***	***	***	***
11/14/77	4.89	91.8	***	***	***

P. SETIFERUS  
 STOCKED 5/19/77  
 HARVEST 11/14/77  
 SURVIVAL 93%

PCND 14  
 80000/ACRE  
 483 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/19/77	0.14	8.0	***	***	***
6/ 8/77	0.28	35.5	***	***	***
6/15/77	0.80	49.7	***	***	***
6/22/77	1.27	59.6	***	***	***
6/29/77	1.65	63.8	28.3	20.0	5.7
7/ 6/77	2.02	69.4	29.5	22.0	6.5
7/13/77	2.54	74.2	28.8	25.0	6.0
7/20/77	2.52	75.7	29.0	27.0	4.4
7/27/77	2.87	78.1	29.8	***	4.0
8/ 3/77	3.06	79.7	30.5	28.0	6.6
8/10/77	3.52	83.2	28.8	30.0	4.2
8/17/77	3.60	82.3	28.8	26.0	2.7
8/24/77	3.87	85.4	29.8	***	3.4
8/31/77	****	****	27.9	25.0	4.7
9/ 7/77	4.33	89.1	28.0	28.0	3.7
9/14/77	****	****	26.0	27.0	3.2
9/21/77	5.22	93.8	26.8	22.0	3.8
9/28/77	6.07	97.6	***	18.0	***
10/ 5/77	6.68	100.8	***	***	***
10/12/77	6.65	100.2	***	***	***
10/19/77	6.62	100.1	21.0	***	6.0
10/26/77	7.57	104.5	***	***	***
11/ 2/77	****	****	***	***	***
11/ 9/77	****	****	***	***	***
11/11/77	6.95	104.7	***	***	***

P. SETIFERLS  
 STOCKED 5/19/77  
 HARVEST 11/10/77  
 SURVIVAL 55%

PCND 15  
 80000/ACRE  
 401 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/19/77	0.14	8.0	***	***	***
6/ 8/77	0.41	40.2	***	***	***
6/15/77	1.07	53.4	***	***	***
6/22/77	1.44	60.9	***	***	***
6/29/77	1.73	65.6	28.2	22.0	6.0
7/ 6/77	2.13	70.7	29.8	22.0	6.3
7/13/77	2.04	70.5	29.8	25.0	6.2
7/20/77	2.47	74.2	29.4	***	5.1
7/27/77	2.65	76.2	29.8	27.0	5.1
8/ 3/77	2.81	77.7	30.7	28.0	6.3
8/10/77	3.69	83.3	29.5	30.0	3.9
8/17/77	3.92	84.7	28.3	***	3.1
8/24/77	4.00	85.0	29.8	26.0	2.7
8/31/77	****	****	27.9	26.0	4.6
9/ 7/77	4.96	92.6	28.2	26.0	4.1
9/14/77	****	****	26.0	27.0	4.1
9/21/77	6.33	98.3	26.7	22.0	4.0
9/28/77	7.06	100.8	***	19.0	***
10/ 5/77	7.39	102.2	***	***	***
10/12/77	7.60	102.3	***	***	***
10/19/77	7.40	102.4	21.0	25.0	6.5
10/26/77	8.00	105.0	***	***	***
11/ 2/77	****	****	***	***	***
11/ 9/77	****	****	***	***	***
11/10/77	8.21	107.8	***	***	***

P. SETIFERUS  
 STOCKED 5/19/77  
 HARVEST 11/13/77  
 SURVIVAL 78%

PCND 16  
 80000/ACRE  
 463 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/19/77	0.14	8.0	****	****	****
6/ 8/77	0.35	38.0	****	****	****
6/15/77	0.82	50.8	****	****	****
6/22/77	1.13	57.5	****	****	****
6/29/77	1.44	61.9	28.3	20.0	6.2
7/ 6/77	1.85	67.7	30.0	22.0	6.0
7/13/77	2.40	74.2	29.8	24.0	6.4
7/20/77	2.55	75.4	29.4	****	5.5
7/27/77	2.80	76.0	29.8	25.0	5.6
8/ 3/77	3.24	80.8	30.5	27.0	6.7
8/10/77	3.25	80.8	29.3	30.0	4.5
8/17/77	3.60	82.6	28.1	****	3.5
8/24/77	3.57	83.4	29.8	26.0	3.5
8/31/77	****	****	30.7	26.0	4.6
9/ 7/77	4.01	86.7	28.3	26.0	3.8
9/14/77	****	****	26.1	27.0	4.2
9/21/77	5.21	92.5	27.2	****	5.0
9/28/77	5.34	93.2	****	18.0	****
10/ 5/77	5.94	95.7	****	****	****
10/12/77	5.68	94.4	****	****	****
10/19/77	5.80	95.3	21.0	25.0	5.8
10/26/77	6.54	98.1	****	****	****
11/ 2/77	****	****	****	****	****
11/ 9/77	****	****	****	****	****
11/13/77	6.70	99.1	****	****	****

P. SETIFERUS  
 STOCKED 5/19/77  
 HARVEST 11/14/77  
 SURVIVAL 82%

PCND 17  
 105000/ACRE  
 E25 LBS.

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DATE           MEAN      MEAN      MEAN      MEAN      MEAN
                WEIGHT    LENGTH    TEMP      SAL       DO2
=====
5/19/77        0.14      8.0       ****      ****      ****
6/ 8/77        0.31     36.3      ****      ****      ****
6/15/77        0.67     47.4      ****      ****      ****
6/22/77        0.84     52.6      ****      ****      ****
6/29/77        1.04     56.2      28.4      20.0      16.4
7/ 6/77        1.20     59.0      29.8      20.0      6.2
7/13/77        1.75     66.7      29.8      24.0      6.1
7/20/77        1.68     66.0      29.5      ****      4.9
7/27/77        1.91     68.4      29.7      25.0      5.1
8/ 3/77        2.24     72.4      30.3      27.0      6.2
8/10/77        2.21     79.9      29.0      30.0      4.1
8/17/77        2.84     76.6      28.1      ****      4.1
8/24/77        2.54     75.6      29.8      26.0      3.5
8/31/77        ****      ****      30.5      26.0      3.4
9/ 7/77        3.00     79.5      28.3      ****      3.1
9/14/77        ****      ****      26.3      27.0      3.1
9/21/77        3.80     85.1      27.2      ****      4.4
9/28/77        4.48     87.7      ****      ****      ****
10/ 5/77       4.80     89.7      ****      18.0      ****
10/12/77       4.84     90.7      ****      ****      ****
10/19/77       5.50     94.0      21.0      25.0      6.6
10/26/77       5.60     94.4      ****      ****      ****
11/ 2/77       ****      ****      ****      ****      ****
11/ 9/77       ****      ****      ****      ****      ****
11/14/77       5.56     95.4      ****      ****      ****
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P. SETIFERUS  
 STOCKED 5/19/77  
 HARVEST 11/11/77  
 SURVIVAL 85%

PCND 18  
 73000/ACRE  
 483 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/19/77	0.14	8.0	****	****	****
6/ 8/77	0.34	37.4	****	****	****
6/15/77	0.79	50.2	****	****	****
6/22/77	1.15	57.6	****	****	****
6/29/77	1.52	63.0	28.2	21.0	6.1
7/ 6/77	2.05	69.1	30.0	22.0	6.2
7/13/77	2.54	75.0	30.0	25.0	6.2
7/20/77	2.88	78.3	29.3	****	5.8
7/27/77	2.89	78.1	30.0	27.0	4.9
8/ 3/77	3.91	82.2	29.0	28.0	4.8
8/10/77	3.65	83.5	29.3	30.0	3.9
8/17/77	4.29	87.7	28.3	****	3.3
8/24/77	4.31	87.9	29.8	26.0	3.2
8/31/77	*****	*****	30.5	26.0	3.8
9/ 7/77	4.61	90.4	28.3	27.0	2.6
9/14/77	*****	*****	25.9	27.0	4.7
9/21/77	5.08	90.8	27.1	****	5.5
9/28/77	6.00	96.0	21.0	18.0	****
10/ 5/77	7.12	100.3	****	****	****
10/12/77	6.32	97.9	****	****	****
10/19/77	6.47	99.0	****	25.0	6.4
10/26/77	7.55	102.6	****	****	****
11/ 2/77	*****	*****	****	****	****
11/ 9/77	*****	*****	****	****	****
11/11/77	7.03	104.0	****	****	****

P. SETIFERUS  
 STOCKED 5/19/77  
 HARVEST 11/13/77  
 SURVIVAL 63%

POND 19  
 73000/ACRE  
 436 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/19/77	0.14	8.0	****	****	****
6/ 8/77	0.35	37.4	****	****	****
6/15/77	0.73	48.9	****	****	****
6/22/77	1.07	55.8	****	****	****
6/29/77	1.27	60.0	28.3	22.0	6.7
7/ 6/77	1.54	64.4	30.0	22.0	6.1
7/13/77	1.96	69.0	29.8	27.3	6.4
7/20/77	1.98	69.6	29.3	****	6.2
7/27/77	2.49	73.1	30.0	27.0	5.8
8/ 3/77	2.45	74.9	29.0	29.0	5.2
8/10/77	2.79	77.9	29.3	30.0	4.4
8/17/77	3.24	79.9	28.1	****	3.3
8/24/77	3.48	82.4	29.9	26.0	3.9
8/31/77	****	****	27.9	26.0	4.3
9/ 7/77	3.63	84.7	28.3	****	3.3
9/14/77	****	****	26.0	27.0	3.7
9/21/77	4.67	91.4	27.3	****	4.6
9/28/77	5.26	91.4	****	16.0	****
10/ 5/77	5.73	93.8	****	****	****
10/12/77	5.85	95.6	****	****	****
10/19/77	5.79	94.8	****	27.3	****
10/26/77	6.71	98.1	****	****	****
11/ 2/77	****	****	****	****	****
11/ 9/77	****	****	****	****	****
11/13/77	6.54	99.1	****	****	****

P. VANNAMEI  
 STOCKED 5/30/78  
 HARVEST 8/22/78  
 SURVIVAL 23%

POND 2  
 50000/ACRE  
 33 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/30/78	****	****	****	****	****
6/22/78	0.68	45.1	27.5	29.0	6.2
6/29/78	1.82	61.6	27.8	31.5	5.0
7/ 6/78	2.46	67.6	28.9	29.6	3.4
7/13/78	2.82	74.7	28.5	31.5	2.7
7/20/78	2.27	68.4	29.0	31.0	2.6
7/27/78	2.63	71.7	28.0	25.6	4.7
8/ 3/78	3.21	76.7	27.1	15.5	4.0
8/10/78	2.10	66.6	28.1	11.3	2.4
8/17/78	1.85	64.0	28.0	11.5	3.3
8/22/78	2.57	71.0	28.5	13.5	2.6



P. VANNAMEI  
 STOCKED 5/30/78  
 HARVEST 22/78/ 0  
 SURVIVAL 17%

PCND 3  
 50000/ACRE  
 3008 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DC2
5/30/78	*****	*****	****	****	****
6/22/78	0.95	50.4	27.9	29.6	5.4
6/29/78	1.67	59.8	27.8	30.5	4.3
7/ 6/78	2.36	65.6	28.9	28.6	5.0
7/13/78	2.82	74.6	28.7	31.5	3.3
7/20/78	2.59	71.5	29.0	31.3	2.6
7/27/78	2.97	74.3	27.8	25.3	4.8
8/ 3/78	3.42	77.2	27.1	16.0	3.9
8/10/78	4.20	83.8	28.2	14.6	2.5
8/17/78	2.71	73.4	28.0	13.0	4.2
8/22/78	3.16	74.4	29.0	14.0	2.0

P. VANNAMEI  
 STOCKED 5/31/78  
 HARVEST 8/21/78  
 SURVIVAL 18%

PCND 4  
 50000/ACRE  
 29 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/31/78	*****	*****	****	****	****
6/15/78	0.16	28.7	26.2	29.1	5.9
6/22/78	0.88	49.1	28.1	29.0	5.5
6/29/78	2.12	65.5	28.2	31.5	4.9
7/ 6/78	3.48	75.5	28.9	29.6	4.5
7/13/78	4.02	82.6	28.5	31.5	3.3
7/20/78	4.33	84.1	29.1	32.0	3.0
7/27/78	3.02	74.5	28.4	26.0	4.3
8/ 3/78	3.21	77.6	27.1	16.5	3.7
8/10/78	3.71	80.7	28.2	14.3	3.2
8/17/78	2.99	75.0	28.2	13.0	3.7
8/21/78	2.88	72.9	28.5	13.5	3.4

P. VANNAMEI  
 STOCKED 5/30/78  
 HARVEST 8/21/78  
 SURVIVAL 16%

PCND 5  
 50000/ACRE  
 26 LBS.

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=====
DATE          MEAN      MEAN      MEAN      MEAN      MEAN
              WEIGHT    LENGTH    TEMP      SAL       DO2
=====
5/30/78      ****      ****      ***      ***      ****
6/22/78      0.83      47.9     27.9     28.5     6.0
6/29/78      1.41      56.4     28.0     30.5     4.4
7/ 6/78      2.40      69.8     28.9     29.0     4.5
7/13/78      2.55      69.5     28.5     31.6     3.7
7/20/78      2.73      72.8     29.0     31.6     2.3
7/27/78      2.98      74.1     28.3     27.0     3.7
8/ 3/78      2.61      71.2     27.3     16.0     4.1
8/10/78      2.34      69.2     28.1     13.3     2.8
8/17/78      1.99      66.2     28.2     12.0     3.2
8/21/78      2.96      74.6     28.5     14.0     3.0
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P. VANNAMEI  
 STOCKED 5/30/78  
 HARVEST 9/ 6/78  
 SURVIVAL 13%

PCND 6  
 50000/ACRE  
 22 LBS.

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DATE          MEAN      MEAN      MEAN      MEAN      MEAN
              WEIGHT    LENGTH    TEMP      SAL       DO2
=====
5/30/78      ****      ****      ***      ***      ****
6/22/78      0.75      46.9     28.0     30.1     5.6
6/29/78      1.46      57.0     28.0     25.0     4.3
7/ 6/78      2.04      63.3     28.9     30.0     4.4
7/13/78      2.99      72.8     28.9     31.5     3.3
7/20/78      2.25      67.2     29.1     31.5     2.8
7/27/78      3.02      72.7     28.3     26.0     4.2
8/ 3/78      2.83      73.4     27.6     16.0     3.5
8/10/78      2.55      70.5     28.2     14.6     2.5
8/17/78      2.64      72.2     28.2     12.5     3.2
8/24/78      2.64      72.2     29.0     14.6     2.8
8/31/78      2.65      71.0     28.0     16.0     3.2
9/ 6/78      3.05      75.4     27.3     17.0     2.7
=====

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P. VANNAMEI  
 STOCKED 5/30/78  
 HARVEST 9/ 5/78  
 SURVIVAL 12%

FCND 7  
 50000/ACRE  
 15 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/30/78	*****	*****	****	****	****
6/22/78	0.73	46.2	27.8	29.3	5.7
6/29/78	1.45	56.9	28.0	31.0	4.8
7/ 6/78	1.69	61.5	28.9	29.7	5.2
7/13/78	2.64	71.0	28.8	31.5	3.2
7/20/78	2.36	69.0	29.1	31.8	3.0
7/27/78	2.00	65.8	28.3	26.0	3.9
8/ 3/78	2.22	68.0	28.0	16.2	3.5
8/10/78	3.01	75.8	28.2	14.3	2.6
8/17/78	1.94	64.8	28.3	13.0	3.1
8/24/78	2.13	66.5	28.6	14.3	2.5
8/31/78	2.05	65.7	28.2	16.0	3.1
9/ 5/78	2.31	68.8	27.3	17.0	3.1

P. VANNAMEI  
 STOCKED 5/30/78  
 HARVEST 8/ 2/78  
 SURVIVAL 41%

FCND 8  
 50000/ACRE  
 73 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/30/78	*****	*****	****	****	****
6/22/78	0.62	43.4	27.9	29.5	6.0
6/29/78	1.45	57.8	28.0	32.0	4.4
7/ 6/78	2.43	68.1	28.9	29.7	5.1
7/13/78	2.69	71.3	28.5	32.0	2.7
7/20/78	2.71	71.4	29.2	32.2	2.8
7/27/78	2.72	72.4	28.4	25.8	3.7
8/ 2/78	3.24	76.9	27.5	15.5	4.1

HARVEST 8/24/78 0 LBS.  
 SURVIVAL 0%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/31/78	*****	*****	****	****	****
6/22/78	0.55	42.0	27.9	29.1	5.9
6/29/78	1.25	54.3	27.9	31.0	4.6
7/ 6/78	2.46	67.7	28.8	30.3	5.1
7/13/78	2.77	72.1	28.8	32.0	2.4
7/20/78	2.41	69.6	29.1	31.7	2.9
7/27/78	2.40	70.6	27.5	26.3	3.8
8/ 3/78	2.40	70.3	27.3	17.0	3.2
8/10/78	2.81	73.7	27.8	13.5	2.0
8/17/78	1.62	62.4	27.7	13.0	4.0
8/24/78	2.25	69.2	28.8	14.3	3.2
8/31/78	2.20	67.5	27.8	20.0	1.9
9/ 7/78	2.19	67.4	26.6	18.0	2.6
9/14/78	2.38	68.1	25.5	16.7	5.4
9/21/78	2.64	72.9	27.0	18.0	3.3

P. VANNAMEI PCND 13  
 STOCKED 5/30/78 50000/ACRE  
 HARVEST 10/19/78 0 LBS.  
 SURVIVAL 0%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/30/78	*****	*****	****	****	****
6/22/78	0.56	43.0	28.0	28.2	5.6
6/29/78	1.28	55.7	28.0	31.0	4.9
7/ 6/78	2.04	64.9	28.9	29.3	4.7
7/13/78	1.70	62.4	28.8	31.0	2.5
7/20/78	1.90	64.3	29.1	31.3	3.3
7/27/78	1.44	58.9	28.1	26.3	4.9
8/ 3/78	2.07	67.1	27.5	16.5	4.0
8/10/78	1.91	65.0	27.6	14.6	3.3
8/17/78	1.38	58.7	28.3	13.0	3.7
8/24/78	1.90	65.4	28.8	14.5	3.9
8/31/78	1.89	62.6	27.8	18.0	2.2
9/ 7/78	1.07	54.2	26.6	18.5	2.6
9/14/78	1.14	56.4	25.3	16.6	5.4
9/21/78	1.48	58.8	27.0	18.0	4.2
9/28/78	1.12	54.3	24.3	18.0	5.0
10/ 5/78	1.00	52.3	23.0	18.6	4.6
10/12/78	1.17	56.4	22.0	19.0	5.5

P. VANNAMEI  
 STOCKED 5/30/78 PCND 14  
 HARVEST 10/19/78 50000/ACRE  
 SURVIVAL 0% 0 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/30/78	*****	*****	****	****	****
6/15/78	0.16	28.5	26.8	28.5	5.5
6/22/78	0.71	45.4	28.1	29.4	6.3
6/29/78	1.70	59.5	22.3	31.0	4.8
7/ 6/78	2.50	68.3	29.5	29.0	4.3
7/13/78	2.17	66.3	28.9	31.0	2.8
7/20/78	2.98	74.2	29.1	31.3	2.5
7/27/78	3.64	80.1	28.1	26.6	2.6
8/ 3/78	2.61	71.9	27.5	17.0	3.9
8/10/78	2.36	68.2	27.8	13.3	2.7
8/17/78	2.72	73.0	27.8	12.5	3.6
8/24/78	1.77	62.8	28.8	14.0	3.5
8/31/78	2.91	72.6	27.8	18.0	3.5
9/ 7/78	2.25	66.4	26.6	18.0	2.9
9/14/78	2.22	67.9	25.3	18.0	5.8
9/21/78	1.06	55.8	27.1	18.0	4.1
9/28/78	1.40	60.5	24.3	17.5	5.4
10/ 5/78	*****	*****	22.8	16.6	4.5
10/12/78	*****	*****	22.0	16.3	5.9
10/18/78	1.99	65.7	21.0	17.5	5.8

P. VANNAMEI  
 STOCKED 5/30/78 FCND 15  
 HARVEST 10/18/78 50000/ACRE  
 SURVIVAL 0% 0 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/30/78	*****	*****	****	****	****
6/22/78	0.90	49.2	28.1	29.5	6.3
6/29/78	1.83	61.0	28.3	31.2	4.5
7/ 6/78	2.41	67.9	29.5	29.3	5.6
7/13/78	3.20	74.6	28.9	31.0	2.3
7/20/78	4.01	81.6	29.1	31.3	2.8
7/27/78	3.14	75.0	28.0	26.0	4.0
8/ 3/78	2.87	74.4	27.5	17.0	3.2
8/10/78	3.78	81.5	28.0	13.6	2.7
8/17/78	2.56	71.1	28.4	13.0	3.4
8/24/78	2.73	73.3	28.5	14.6	3.1
8/31/78	2.46	69.3	28.0	18.0	2.7
9/ 7/78	2.27	67.0	26.6	18.0	3.1
9/14/78	2.87	72.0	27.1	18.0	5.8
9/21/78	2.35	70.5	27.1	18.0	4.7
9/28/78	5.50	92.0	23.1	17.6	4.3
10/ 5/78	*****	*****	23.1	17.6	4.5
10/12/78	2.09	66.3	22.0	18.0	5.3
10/18/78	2.31	88.9	21.0	18.0	4.3

SURVIVAL 0%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/30/78	*****	*****	****	****	****
6/22/78	0.46	39.2	28.1	29.4	6.4
6/29/78	1.92	63.4	28.4	31.8	4.6
7/ 6/78	2.73	70.0	29.4	29.7	5.2
7/13/78	2.34	68.8	28.8	31.5	2.5
7/20/78	2.67	72.3	29.2	31.5	2.8
7/27/78	2.79	73.8	28.5	26.0	3.5
8/ 3/78	2.47	70.2	27.5	17.5	3.4
8/10/78	3.65	80.5	27.8	15.2	2.5
8/17/78	2.26	68.1	28.0	13.0	3.9
8/24/78	3.63	80.6	29.0	14.6	3.1
8/31/78	4.14	83.0	28.0	17.0	2.3
9/ 7/78	2.33	26.8	26.8	18.0	2.9
9/14/78	2.86	72.5	25.3	16.6	5.4
9/21/78	1.74	64.0	27.1	17.5	3.7
9/28/78	1.94	65.0	24.5	17.6	4.8
10/ 5/78	1.71	62.5	23.0	19.0	4.3
10/12/78	1.84	64.3	22.0	18.6	5.0
10/19/78	2.39	69.1	20.7	20.0	4.5

P. VANNAMEI  
 STOCKED 5/31/78 FCND 17  
 HARVEST 10/19/78 50000/ACRE  
 SURVIVAL 0% 2 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/31/78	*****	*****	****	****	****
6/22/78	0.49	40.2	28.3	30.6	5.8
6/29/78	1.34	55.7	28.5	33.0	14.8
7/ 6/78	2.06	64.5	29.4	31.7	4.1
7/13/78	2.83	72.8	28.8	31.5	3.3
7/20/78	3.93	80.8	29.2	31.7	3.1
7/27/78	3.16	75.7	28.0	26.0	3.5
8/ 3/78	3.45	78.6	27.5	17.0	3.6
8/10/78	2.57	71.4	28.1	15.2	2.3
8/17/78	2.57	70.4	28.5	13.0	3.9
8/24/78	3.02	74.8	29.0	15.0	3.3
8/31/78	2.93	74.6	28.0	17.0	3.3
9/ 7/78	3.06	74.9	26.8	18.0	3.3
9/14/78	2.77	72.8	25.3	16.6	4.4
9/21/78	3.19	77.4	27.1	17.0	4.2
9/28/78	3.28	76.0	24.8	18.0	4.0
10/ 5/78	3.38	77.8	23.0	18.0	3.7
10/12/78	4.06	81.9	21.8	18.6	6.1
10/19/78	3.21	77.6	****	****	****

P. VANNAMEI

STOCKED 5/31/78

HARVEST 10/23/78

SURVIVAL 0%

PCND 18

50000/ACRE

0 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DC2
5/31/78	*****	*****	****	****	****
6/22/78	0.60	43.2	28.2	29.7	5.9
6/29/78	1.46	59.0	28.4	32.8	4.5
7/ 6/78	2.54	68.7	29.3	30.0	4.9
7/13/78	2.14	66.2	28.7	32.0	2.6
7/20/78	2.42	70.2	29.1	31.6	2.6
7/27/78	3.01	75.1	28.3	26.0	2.8
8/ 3/78	2.52	71.6	27.5	16.0	3.3
8/10/78	2.61	72.0	28.3	12.6	2.9
8/17/78	2.65	73.3	28.2	13.0	3.3
8/24/78	2.89	74.4	28.9	15.2	2.9
8/31/78	2.52	69.2	28.0	20.0	2.5
9/ 7/78	2.48	68.1	26.8	18.0	3.8
9/14/78	3.31	76.9	25.1	17.0	5.0
9/21/78	2.50	71.8	27.3	18.0	3.9
9/28/78	2.08	57.3	25.0	18.0	4.7
10/ 5/78	*****	*****	23.1	18.6	4.3
10/12/78	4.73	85.0	22.0	19.0	5.6
10/23/78	3.50	79.5	21.0	19.5	4.3

P. VANNAMEI

STOCKED 5/31/78

HARVEST 10/18/78

SURVIVAL 0%

PCND 19

50000/ACRE

2 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DC2
5/31/78	*****	*****	****	****	****
6/15/78	0.12	26.4	26.2	29.1	5.0
6/22/78	0.57	42.1	28.3	31.0	5.4
6/29/78	1.44	57.1	28.4	33.7	4.4
7/ 6/78	2.26	66.0	29.2	31.7	4.1
7/13/78	2.61	71.4	28.8	31.5	2.3
7/20/78	3.02	74.6	29.2	32.2	2.6
7/27/78	2.47	69.5	28.4	25.6	3.0
8/ 3/78	3.21	76.8	27.5	16.2	3.6
8/10/78	2.79	73.5	28.3	11.3	3.2
8/17/78	2.59	71.4	28.0	12.0	3.8
8/24/78	2.83	73.4	28.8	15.3	3.1
8/31/78	3.04	74.3	28.0	18.0	2.4
9/ 7/78	3.12	76.4	27.0	17.5	3.5
9/14/78	2.50	71.1	25.1	16.0	5.5
9/21/78	2.68	73.8	27.5	15.0	5.2
9/28/78	2.79	74.8	24.8	14.0	4.9
10/ 5/78	*****	*****	23.1	14.3	5.7
10/12/78	2.17	69.0	22.0	14.6	6.4

APPENDIX B

POND PRODUCTION AT CORPUS CHRISTI FACILITY, 1973-1975, 1977-1978





SURVIVAL

84%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
4/20/73	*****	*****	***	***	***
5/ 8/73	0.03	16.1	24.3	33.0	6.0
5/17/73	0.09	22.8	24.3	35.5	6.3
5/24/73	0.15	27.0	28.0	36.0	8.6
5/31/73	0.37	36.8	26.7	39.0	6.6
6/ 8/73	0.61	43.8	26.5	38.0	6.7
6/14/73	0.89	49.6	26.4	35.5	7.0
6/22/73	1.17	54.8	26.8	32.7	6.5
6/28/73	1.65	60.9	27.0	26.0	7.5
7/ 5/73	2.57	70.4	29.2	29.0	7.9
7/12/73	2.88	75.0	29.3	32.0	5.8
7/20/73	4.09	81.9	29.0	36.0	2.6
7/31/73	5.98	90.1	29.3	36.0	3.3
8/ 7/73	5.82	93.1	28.0	36.5	2.9
8/14/73	7.57	100.2	28.2	35.0	3.0
8/21/73	9.14	106.7	28.1	34.0	2.5
8/30/73	8.54	104.0	28.3	33.5	2.3
9/ 6/73	10.97	110.0	28.4	32.0	1.9

P. VANNAMEI

PCND 6

STOCKED 5/26/73

224000/ACRE

HARVEST 10/19/73

4692 LBS.

SURVIVAL 89%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DC2
5/26/73	*****	7.0	***	***	***
6/ 7/73	0.04	17.1	27.2	39.5	8.7
6/14/73	0.11	24.0	25.5	35.0	8.3
6/22/73	0.18	28.4	26.5	33.2	7.5
6/28/73	0.32	34.7	27.4	26.5	7.7
7/ 5/73	0.64	44.2	28.8	29.5	7.9
7/12/73	1.08	52.9	29.2	33.0	6.3
7/20/73	1.93	63.8	29.0	36.0	4.8
7/31/73	2.53	70.2	29.5	37.0	3.7
8/ 7/73	3.28	76.4	27.6	35.6	3.3
8/14/73	3.61	77.9	28.2	35.0	3.6
8/21/73	4.90	86.7	28.0	34.0	2.5
8/30/73	4.90	86.6	28.2	34.0	2.6
9/11/73	5.52	90.8	28.2	26.0	2.4
9/18/73	6.34	95.0	28.1	24.0	4.5
9/25/73	8.19	103.2	27.6	26.3	3.1
10/ 2/73	8.86	105.9	27.1	23.3	3.0
10/ 9/73	9.32	107.8	28.4	21.0	2.1
10/19/73	9.62	108.9	25.6	19.5	3.6

P. STYLIRISTRIS  
 STOCKED 6/29/73  
 HARVEST 11/12/73  
 SURVIVAL 33%

PCND 7  
 200000/ACRE  
 962 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
6/29/73	*****	8.0	*****	*****	*****
7/12/73	*****	16.5	*****	*****	*****
7/20/73	0.08	20.8	*****	*****	*****
7/31/73	0.14	25.0	*****	*****	*****
8/ 7/73	0.25	3.0	*****	*****	*****
8/14/73	0.37	33.6	*****	*****	*****
8/14/73	0.37	33.6	*****	*****	*****
8/21/73	0.51	39.4	*****	*****	*****
8/30/73	0.59	42.8	*****	*****	*****
9/11/73	1.36	58.0	*****	*****	*****
9/18/73	1.93	65.8	*****	*****	*****
9/25/73	3.23	78.7	*****	*****	*****
10/ 9/73	4.01	84.0	*****	*****	*****
10/16/73	4.67	88.1	*****	*****	*****
10/24/73	5.03	93.1	*****	*****	*****
10/30/73	5.27	94.8	*****	*****	*****
11/ 5/73	5.97	99.4	*****	*****	*****
11/12/73	6.54	100.8	*****	*****	*****

P. DUORARUM  
 STOCKED 6/17/73  
 HARVEST 10/ 6/73  
 SURVIVAL 0%

PCND 8  
 50000/ACRE  
 0 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
6/17/73	0.11	23.0	*****	*****	*****
6/27/73	0.95	50.5	*****	*****	*****
7/ 3/73	1.83	63.9	*****	*****	*****
7/15/73	4.51	86.6	*****	*****	*****
7/22/73	6.73	99.6	*****	*****	*****
7/25/73	7.63	101.7	*****	*****	*****
8/ 1/73	8.33	108.4	*****	*****	*****
8/ 8/73	10.36	113.9	*****	*****	*****
8/15/73	13.43	122.1	*****	*****	*****
8/22/73	14.99	125.7	*****	*****	*****
8/29/73	15.83	123.8	*****	*****	*****
9/ 5/73	19.35	136.5	*****	*****	*****
9/12/73	20.44	139.0	*****	*****	*****
9/19/73	21.82	143.4	*****	*****	*****
9/26/73	25.12	148.2	*****	*****	*****
10/ 3/73	26.00	151.0	*****	*****	*****
10/ 6/73	26.17	150.4	*****	*****	*****

SURVIVAL

35%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/30/74	*****	*****	****	****	****
6/17/74	0.13	26.3	25.8	32.0	4.8
6/27/74	1.02	51.4	26.8	35.5	4.6
7/ 3/74	2.31	69.1	28.2	38.0	4.7
7/15/74	4.82	89.0	27.8	40.5	4.4
7/22/74	6.37	98.0	27.9	43.6	4.3
7/25/74	6.89	99.0	27.5	45.0	3.0
8/ 1/74	8.18	107.1	28.6	44.5	3.5
8/ 8/74	9.48	109.6	28.6	45.7	3.1
8/15/74	10.51	112.0	28.7	47.3	1.9
8/22/74	11.36	118.1	25.8	46.5	2.3
8/29/74	13.48	122.9	24.2	47.3	2.1
9/ 5/74	14.95	127.0	27.8	39.0	2.4
9/12/74	15.87	129.5	24.9	37.5	3.5
9/19/74	17.35	135.4	23.0	36.0	3.6
9/26/74	19.34	137.7	23.7	35.0	3.5
10/ 3/74	21.55	142.8	25.0	34.5	4.0
10/10/74	22.40	144.4	23.5	32.5	2.0
10/21/74	24.10	148.3	17.7	31.0	3.5
10/24/74	25.41	149.2	****	****	****
10/ 3/74	27.43	152.3	****	****	****

P. STYLIROSTRIS

POND 10

STOCKED 5/30/74

45000/ACRE

HARVEST 10/16/74

765 LBS.

SURVIVAL 51%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/30/74	*****	*****	****	****	****
6/17/74	0.11	23.0	25.2	31.3	5.7
6/27/74	0.95	50.5	27.2	32.0	3.3
7/ 3/74	1.82	63.9	25.3	33.0	5.0
7/15/74	4.51	86.6	27.1	35.0	4.1
7/22/74	6.73	99.6	28.1	37.5	3.4
7/25/74	7.63	101.7	28.4	37.6	3.1
8/ 1/74	8.33	108.4	28.2	41.0	3.1
8/ 8/74	10.36	113.9	28.0	43.0	2.2
8/15/74	13.43	122.1	28.7	44.0	3.4
8/22/74	14.99	125.7	28.9	45.0	3.4
8/29/74	15.83	123.8	29.1	48.0	2.0
9/ 5/74	19.35	136.5	26.0	47.5	2.6
9/12/74	20.44	139.0	24.4	47.8	2.2
9/19/74	21.82	143.3	28.0	42.0	2.1
9/26/74	25.12	148.2	25.1	40.0	3.2
10/ 3/74	26.17	151.4	23.3	37.0	2.1
10/10/74	27.17	150.4	24.2	35.1	2.0
10/16/74	30.07	*****	****	****	****

P. VANNAMEI  
 STOCKED 7/15/75  
 HARVEST 11/24/75  
 SURVIVAL 76%

PCND 2  
 40000/ACRE  
 200 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
7/15/75	*****	8.0	****	****	****
8/ 7/75	0.81	47.2	27.6	41.0	4.6
8/14/75	1.97	62.8	27.9	44.5	4.0
8/21/75	1.62	61.0	28.8	45.5	2.5
8/28/75	2.15	64.0	28.5	47.5	2.4
9/ 4/75	4.14	81.3	29.0	45.5	2.3
9/11/75	5.50	90.1	28.5	40.5	1.3
9/18/75	5.79	92.1	28.9	36.5	3.0
9/25/75	6.09	91.8	24.0	30.0	2.2
10/ 2/75	7.12	99.5	23.7	32.5	1.5
10/ 9/75	8.51	104.4	22.7	31.5	1.3
10/16/75	9.40	106.1	27.0	34.5	1.3
10/23/75	9.97	110.5	23.5	33.5	1.6
10/30/75	10.85	111.8	23.0	34.0	1.0
11/ 6/75	11.40	114.6	24.0	31.5	1.2
11/24/75	12.02	118.3	****	****	****

P. VANNAMEI  
 STOCKED 7/15/75  
 HARVEST 11/25/75  
 SURVIVAL 75%

PCND 4  
 40000/ACRE  
 207 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
7/15/75	*****	8.0	****	****	****
8/ 7/75	0.86	47.3	27.6	40.0	5.0
8/14/75	1.95	62.4	27.9	43.0	4.9
8/21/75	1.75	60.5	28.7	44.5	2.4
8/28/75	2.17	66.9	28.5	45.5	2.1
9/ 4/75	5.09	87.3	30.0	44.0	2.0
9/11/75	5.40	89.4	28.5	41.0	2.0
9/18/75	5.46	91.3	29.1	34.5	3.1
9/25/75	8.14	102.4	24.0	29.0	1.5
10/ 2/75	7.09	97.9	24.0	31.5	1.3
10/ 9/75	8.11	103.1	22.5	31.5	1.6
10/16/75	8.74	104.8	27.0	35.0	1.4
10/23/75	9.96	109.5	23.5	33.5	1.0
10/30/75	10.28	111.1	23.0	34.0	0.8
11/ 6/75	10.55	111.6	23.0	31.5	1.0
11/25/75	12.39	114.6	****	****	****



P. SETIFERUS  
 STOCKED 7/ 1/75  
 HARVEST 11/11/75  
 SURVIVAL 57%

FEND 7  
 50000/ACRE  
 223 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
7/ 1/75	*****	8.0	****	****	****
7/18/75	0.33	35.4	27.6	42.0	7.5
7/25/75	0.77	46.7	29.2	42.0	5.3
7/31/75	1.89	62.3	****	****	****
8/ 7/75	2.40	67.9	27.1	45.0	5.0
8/14/75	3.46	76.5	27.8	42.0	3.3
8/21/75	4.52	84.7	28.7	45.5	2.5
8/28/75	5.05	85.6	28.3	47.5	2.1
9/ 4/75	6.38	94.3	30.5	45.0	1.0
9/11/75	8.51	104.0	28.7	41.0	1.2
9/18/75	8.48	107.3	29.2	36.0	2.4
9/25/75	11.14	113.0	20.0	30.0	0.9
10/ 2/75	11.50	114.4	24.5	33.5	1.6
10/ 9/75	12.43	117.4	23.2	29.0	0.7
10/16/75	12.75	118.4	26.7	35.0	1.4
10/23/75	13.22	120.1	24.0	35.0	0.3
10/30/75	13.58	120.4	23.0	33.0	0.6
11/ 6/75	13.94	121.7	24.0	32.0	0.2
11/11/75	14.25	123.2	****	****	****

P. STYLIRSTRIS  
 STOCKED 7/ 1/75  
 HARVEST 11/11/75  
 SURVIVAL 49%

FEND 8  
 40000/ACRE  
 176 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
7/ 1/75	*****	8.0	****	****	****
7/18/75	0.29	32.5	28.5	43.5	5.6
7/25/75	1.09	51.6	30.5	47.0	6.4
7/31/75	2.26	67.1	****	****	****
8/ 7/75	3.22	76.1	27.8	43.0	4.2
8/14/75	3.49	76.8	28.0	44.5	2.9
8/21/75	4.64	85.8	28.9	46.5	2.3
8/28/75	5.98	92.8	28.6	47.5	1.7
9/ 4/75	9.07	105.6	29.0	45.5	0.8
9/11/75	9.83	108.6	28.5	42.0	1.6
9/18/75	11.54	114.5	28.7	47.0	2.2
9/25/75	12.57	117.9	23.5	31.0	1.7
10/ 2/75	13.39	119.2	24.2	33.0	1.4
10/ 9/75	13.61	121.1	22.7	32.0	1.5
10/16/75	14.94	124.9	26.7	35.0	0.7
10/23/75	14.32	122.4	23.2	35.0	0.9
10/30/75	16.22	127.5	23.0	33.5	0.8
11/ 6/75	15.82	127.1	23.5	31.7	1.5
11/11/75	16.27	129.1	****	****	****

SURVIVAL

29%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
6/27/75	0.12	25.1	****	****	****
7/ 3/75	0.51	40.5	29.6	44.6	5.4
7/11/75	1.83	63.8	28.1	45.0	5.6
7/18/75	2.51	70.6	27.7	42.7	5.2
7/25/75	4.05	83.5	29.2	44.5	5.0
7/31/75	4.93	91.4	****	****	****
8/ 7/75	5.36	92.9	27.2	44.0	5.8
8/14/75	5.91	96.3	27.9	42.5	2.3
8/21/75	5.76	93.6	28.9	45.5	2.2
8/28/75	7.95	105.2	28.4	46.0	2.1
9/ 4/75	8.28	106.1	30.0	44.0	1.0
9/11/75	8.48	107.7	28.5	40.5	1.6
9/18/75	9.20	112.1	29.0	35.0	2.6
9/25/75	11.00	115.6	20.0	30.0	1.1
10/ 2/75	12.05	115.6	29.2	33.5	1.1
10/ 9/75	12.50	120.7	23.0	31.5	1.2
10/16/75	12.58	119.5	27.0	35.0	1.1
10/23/75	14.50	126.4	24.0	35.0	1.1
10/30/75	14.29	126.1	23.0	33.5	0.8
11/ 3/75	15.18	128.5	****	****	****

P. SETIFERUS

PCND 10

STOCKED 6/27/75

60000/ACRE

HARVEST 11/13/75

107 LBS.

SURVIVAL 24%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
6/27/75	0.19	30.2	28.4	47.2	5.5
7/ 3/75	0.52	41.0	30.2	45.7	6.6
7/11/75	1.52	60.4	27.9	48.5	5.4
7/18/75	2.27	68.1	27.9	45.2	4.8
7/25/75	3.15	77.2	30.9	47.0	4.7
7/31/75	3.80	83.2	****	****	****
8/ 7/75	5.05	91.1	27.6	45.0	1.8
8/14/75	5.78	94.9	27.9	46.0	2.0
8/21/75	6.16	97.5	28.8	47.5	1.1
9/ 4/75	7.41	106.0	29.0	45.5	1.8
9/11/75	7.84	103.0	28.4	42.0	0.7
9/18/75	8.75	108.0	28.5	36.0	1.8
9/25/75	10.38	113.3	24.0	30.0	0.8
10/ 2/75	10.37	113.7	23.7	33.0	1.0
10/ 9/75	11.16	116.2	22.2	32.0	0.9
10/16/75	11.94	118.2	27.0	35.0	0.8
10/23/75	12.67	122.9	23.5	34.5	0.8
10/30/75	12.79	122.1	23.0	33.0	0.7
11/ 3/75	15.18	128.5	****	****	****



P. SETIFERUS

PCND 11

STOCKED 7/ 3/75

40000/ACRE

HARVEST 11/ 4/75

0 LBS.

SURVIVAL 0%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DC2
7/ 3/75	****	8.0	****	****	****
7/11/75	0.10	23.5	28.2	51.0	6.1
7/18/75	0.35	35.7	27.8	46.5	5.3
7/25/75	1.02	51.7	29.2	48.5	4.9
7/31/75	2.11	67.3	****	****	****
8/ 7/75	3.14	77.1	27.2	47.0	5.2
8/14/75	4.20	87.1	27.6	45.0	7.9
8/21/75	5.46	93.9	28.9	45.5	2.2
8/28/75	6.31	97.8	28.6	48.0	1.8
9/ 4/75	7.64	104.1	30.0	45.5	0.8
9/11/75	7.45	102.6	28.5	41.0	1.2
9/18/75	8.71	108.8	28.7	36.5	2.2
9/25/75	9.95	112.9	20.6	31.0	1.6
10/ 2/75	11.50	117.0	24.2	33.0	0.7
10/ 9/75	12.45	119.9	23.0	29.0	1.4

P. SETIFERUS

PCND 12

STOCKED 6/27/75

60000/ACRE

HARVEST 11/ 7/75

122 LBS.

SURVIVAL 28%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
6/27/75	0.13	26.2	28.5	47.7	5.4
7/ 3/75	0.53	40.7	30.1	47.5	5.6
7/11/75	1.27	55.4	27.8	50.7	4.9
7/18/75	1.73	64.1	27.3	49.0	4.6
7/25/75	2.52	72.3	31.0	49.5	95.4
7/31/75	3.04	78.3	****	****	****
8/ 7/75	3.97	83.9	27.3	46.0	2.8
8/14/75	5.02	91.0	28.0	45.0	2.7
8/21/75	5.06	92.5	28.8	46.0	1.3
8/28/75	5.20	96.7	28.5	46.5	1.9
9/ 4/75	6.87	97.6	29.0	44.0	1.6
9/11/75	7.50	103.5	28.3	41.0	0.9
9/18/75	8.46	107.9	28.4	36.0	2.4
9/25/75	8.29	109.4	24.0	29.5	1.2
10/ 2/75	9.11	109.7	24.0	32.0	1.4
10/ 9/75	10.00	112.9	22.7	32.0	1.1
10/16/75	11.10	116.5	26.5	35.0	1.0
10/23/75	11.43	118.5	23.5	35.0	1.1
10/30/75	11.45	117.5	23.0	33.5	0.7
11/ 7/75	12.00	120.0	23.0	33.0	0.7

SURVIVAL 0%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
6/27/75	0.13	26.7	28.6	48.7	5.7
7/ 3/75	0.48	39.4	30.5	49.0	4.8
7/11/75	1.13	53.3	27.3	52.5	5.7
7/18/75	1.90	63.0	27.7	50.0	5.4
7/25/75	2.37	69.7	29.2	51.5	4.1
7/31/75	3.11	78.2	***	***	***
8/ 7/75	4.01	84.2	27.1	47.0	4.8
8/14/75	5.48	93.3	27.7	46.0	1.9
8/21/75	5.80	95.5	28.6	48.0	2.3
8/28/75	7.19	101.4	28.7	49.5	1.7
9/ 4/75	7.65	98.7	30.0	46.0	1.4
9/11/75	8.39	106.3	28.4	41.0	1.7
9/18/75	10.02	112.6	28.9	36.5	2.2
9/25/75	10.71	115.4	20.0	30.0	1.9
10/ 2/75	11.63	117.9	24.0	33.5	1.0
10/ 9/75	12.48	120.9	23.0	32.0	1.4

P. SETIFERUS  
 STOCKED 6/27/75 PCND 14  
 HARVEST 11/ 6/75 60000/ACRE  
 SURVIVAL 23% 113 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
6/27/75	0.12	25.3	28.8	47.5	5.1
7/ 3/75	0.42	38.8	29.8	46.5	5.8
7/11/75	1.16	56.1	27.7	51.0	5.0
7/18/75	2.23	68.3	27.5	47.0	4.4
7/25/75	2.98	75.3	31.0	50.0	4.7
7/31/75	4.36	86.0	***	***	***
8/ 7/75	4.59	88.6	27.7	48.0	2.5
8/14/75	6.35	98.6	28.0	44.0	3.4
8/21/75	6.57	99.7	28.8	45.0	1.6
8/28/75	8.00	104.8	28.6	47.0	1.5
9/ 4/75	9.36	110.2	28.5	44.0	1.0
9/11/75	9.81	112.8	28.5	40.5	1.2
9/18/75	10.45	114.5	29.3	35.5	1.4
9/25/75	11.90	118.5	20.0	30.0	1.1
10/ 2/75	12.37	120.8	24.1	32.0	0.4
10/ 9/75	12.74	117.2	22.5	32.0	1.0
10/16/75	13.41	123.0	26.7	35.0	0.7
10/23/75	14.21	126.0	23.5	34.7	0.5
10/30/75	14.08	125.2	23.0	33.5	0.4
11/ 6/75	14.99	129.2	***	***	***

P. STYLIRISTRIS  
 STOCKED 6/ 2/75  
 HARVEST 11/11/75  
 SURVIVAL 28%

PCND 15  
 30000/ACRE  
 122 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
6 / 2/75	0.21	28.8	25.9	43.6	7.0
6/13/75	1.46	57.3	27.2	45.0	6.4
6/20/75	2.53	69.0	28.1	45.0	7.2
6/27/75	3.15	80.4	28.6	49.0	5.5
7 / 3/75	3.76	80.5	30.0	49.7	6.2
7/11/75	4.59	87.0	27.5	52.5	5.9
7/18/75	7.06	98.7	27.1	49.7	4.9
7/25/75	6.70	97.1	29.0	47.5	4.2
8 / 7/75	8.42	105.4	27.1	46.0	4.8
8/14/75	9.02	110.0	27.5	45.0	3.5
8/21/75	10.15	113.3	28.7	46.0	2.0
8/28/75	10.54	113.8	28.4	47.0	1.2
9 / 4/75	11.07	115.6	30.5	44.0	1.4
9/11/75	12.05	119.1	28.5	38.0	0.9
9/18/75	15.46	126.6	28.7	34.5	2.3
9/25/75	18.62	134.8	20.0	29.0	1.4
10 / 2/75	20.33	138.8	****	****	****

P. STYLIRISTRIS  
 STOCKED 6/ 2/75  
 HARVEST 11 / 6/75  
 SURVIVAL 4%

PCND 16  
 60000/ACRE  
 24 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
6 / 2/75	0.17	26.4	26.0	42.3	7.5
6/13/75	0.45	38.4	26.9	43.0	6.7
6/20/75	1.41	56.7	28.1	44.0	6.4
6/27/75	1.44	58.1	28.6	46.5	5.4
7 / 3/75	2.11	66.1	29.7	47.0	5.6
7/11/75	3.06	75.8	27.9	50.0	4.9
7/18/75	3.87	81.6	27.0	47.0	3.2
7/25/75	4.73	87.0	28.5	45.0	4.3
8 / 7/75	5.91	95.2	27.5	45.0	2.8
8/14/75	7.34	101.8	27.4	45.0	3.4
8/21/75	8.30	105.5	28.4	46.0	0.7
8/28/75	9.23	109.0	28.9	47.0	0.7
9 / 4/75	10.86	115.6	28.0	50.0	1.6
9/11/75	12.95	122.0	28.5	45.5	1.6
9/18/75	12.82	124.3	28.4	42.0	0.7
9/25/75	14.53	126.3	28.7	38.5	1.0
11/11/75	17.66	131.6	****	****	****

SURVIVAL

57%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
6/ 2/75	0.24	30.4	26.3	44.6	7.2
6/13/75	1.80	61.8	27.1	43.5	6.8
6/20/75	2.68	69.9	28.5	45.0	6.4
6/27/75	3.57	81.1	28.9	47.7	5.0
7/ 3/75	3.70	79.4	29.1	44.0	5.8
7/11/75	5.00	88.5	27.8	43.5	5.7
7/18/75	6.25	96.8	26.5	38.0	6.8
7/25/75	7.09	99.8	29.0	44.0	4.7
8/ 7/75	9.12	109.7	27.1	42.0	4.8
8/14/75	10.22	114.0	27.6	44.0	3.0
8/21/75	11.13	120.4	28.5	44.0	2.0
8/28/75	9.84	119.1	28.5	46.0	1.5
9/ 4/75	14.18	124.9	30.5	43.0	1.8
9/11/75	14.94	126.6	28.7	38.5	1.3
9/18/75	16.86	131.9	28.7	33.5	2.9
9/25/75	17.77	134.3	****	****	****
10/ 7/75	20.44	139.4	****	****	****

P. STYLIRISTRIS

PCND 18

STOCKED 6/ 2/75

4000/ACRE

HARVEST 10/27/75

245 LBS.

SURVIVAL 78%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
6/ 2/75	0.21	29.4	26.0	44.0	6.7
6/13/75	1.26	55.1	26.9	44.0	7.2
6/20/75	1.58	59.8	27.9	45.0	6.8
6/27/75	1.99	66.3	28.5	47.5	5.6
7/ 3/75	2.59	77.0	29.5	47.5	5.1
7/11/75	3.48	79.1	27.8	50.5	5.3
7/18/75	4.37	85.1	26.6	50.0	4.2
7/25/75	4.92	89.0	29.0	44.5	4.8
8/ 7/75	5.64	94.2	27.8	44.5	2.8
8/14/75	6.54	94.2	28.8	45.5	1.9
8/21/75	7.40	103.2	28.5	49.0	1.1
8/28/75	8.10	107.0	28.0	45.0	0.4
9/ 4/75	9.20	109.7	28.8	40.5	1.4
9/11/75	10.30	113.4	28.5	35.5	2.7
9/18/75	11.50	117.2	20.1	30.0	1.6
9/25/75	11.99	118.7	24.2	31.5	1.4
10/ 2/75	13.11	122.3	****	****	****
10/27/75	14.24	122.0	****	****	****

P. SETIFERUS

PCND 5

STOCKED 5/18/77

80000/ACRE

HARVEST 11/ 2/77

0 LBS.

SURVIVAL 0%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/18/77	****	8.0	***	***	***
6/15/77	1.28	56.7	28.5	35.5	4.8
6/22/77	2.27	68.7	27.1	37.0	5.0
6/29/77	3.30	78.8	28.9	38.5	4.8
7/ 6/77	3.91	83.3	28.8	41.5	5.0
7/13/77	4.58	84.5	29.8	41.0	***
7/20/77	4.97	89.2	29.3	44.2	3.6
7/27/77	5.62	93.2	29.2	47.0	4.0
8/ 3/77	6.61	99.5	29.6	48.0	3.3
8/10/77	6.74	96.7	***	44.0	***
9/ 8/77	8.47	106.7	28.5	44.5	2.8

P. SETIFERUS

PCND 7

STOCKED 5/18/77

80000/ACRE

HARVEST 10/21/77

1 LBS.

SURVIVAL 0%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/18/77	*****	8.0	***	***	***
6/15/77	0.65	46.9	28.8	33.8	5.2
6/22/77	1.43	59.1	28.1	36.0	5.6
6/29/77	1.84	65.5	27.0	38.0	5.3
7/ 6/77	2.33	71.6	28.7	39.7	5.2
7/13/77	2.78	73.7	28.9	42.5	5.0
7/20/77	3.34	78.5	29.8	43.0	3.4
7/27/77	3.82	84.1	29.4	46.2	4.2
8/ 3/77	4.29	86.3	29.2	51.0	3.5
8/10/77	4.47	84.7	29.6	51.5	3.6

SURVIVAL

36%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/18/77	*****	8.0	****	****	****
6/15/77	0.63	44.7	29.0	33.3	4.8
6/22/77	1.21	55.3	28.2	35.0	5.1
6/29/77	1.47	60.1	27.0	38.0	5.3
7/ 6/77	2.01	67.9	28.7	38.7	5.0
7/13/77	2.10	66.5	28.5	41.2	5.6
7/20/77	2.37	70.2	29.7	42.0	3.6
7/27/77	2.90	76.3	29.2	44.7	6.1
8/ 3/77	3.90	84.1	29.2	47.0	4.1
8/10/77	4.12	84.1	29.5	49.5	3.2
9/ 8/77	5.66	113.0	****	48.0	****
9/28/77	6.08	133.0	28.5	46.0	5.4
10/21/77	8.70	156.0	****	****	****

P. SETIFERUS

PCND 11

STOCKED 5/18/77

80000/ACRE

HARVEST 11/ 2/77

0 LBS.

SURVIVAL 0%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/18/77	*****	8.0	****	****	****
6/15/77	0.57	42.7	29.0	33.3	4.8
6/22/77	1.29	55.4	28.1	35.7	5.6
6/29/77	2.12	67.5	27.0	36.5	5.1
7/ 6/77	1.69	64.6	28.7	38.7	5.1
7/13/77	1.86	66.4	29.7	41.0	5.6
7/20/77	2.75	73.2	29.6	42.0	4.4
7/27/77	3.35	79.1	29.2	44.5	5.6
8/ 3/77	3.59	82.3	29.1	48.0	3.8
8/10/77	4.40	84.3	29.6	50.0	2.3
9/ 8/77	6.02	95.6	****	49.5	****
9/28/77	7.45	104.9	28.4	46.7	4.6

P. SETIFERUS

STOCKED 5/18/77

HARVEST 11/ 2/77

SURVIVAL 12%

PCND 13

80000/ACRE

66 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DC2
5/18/77	*****	8.0	****	****	****
6/15/77	0.67	45.4	29.0	33.1	5.2
6/22/77	1.08	53.5	28.1	35.7	5.5
6/29/77	1.32	58.6	27.0	37.0	5.0
7/ 6/77	1.42	60.7	28.6	39.2	5.2
7/13/77	1.62	62.7	28.6	42.0	5.0
7/20/77	2.13	67.6	29.3	43.0	3.6
7/27/77	2.29	70.5	29.0	46.2	5.4
8/ 3/77	2.90	78.1	28.9	50.0	3.8
8/10/77	3.36	78.3	29.3	52.0	3.0
9/ 8/77	4.41	88.8	****	50.5	****
9/28/77	8.30	107.8	28.4	46.7	5.3
10/ 2/77	1.24	119.6	24.1	49.2	7.5

P. SETIFERUS

STOCKED 5/18/77

HARVEST 10/19/77

SURVIVAL 54%

PCND 15

80000/ACRE

186 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DC2
5/18/77	*****	8.0	****	****	****
6/15/77	0.77	43.9	28.5	34.0	5.2
6/22/77	1.24	56.6	28.0	36.2	5.9
6/29/77	1.36	58.1	27.0	38.0	6.3
7/ 6/77	1.66	63.2	28.3	39.2	4.9
7/13/77	1.79	63.0	28.5	42.2	6.4
7/20/77	2.30	68.4	29.3	43.5	3.8
7/27/77	2.74	74.2	29.1	46.0	5.0
8/ 3/77	3.23	78.8	28.9	50.5	3.6
8/10/77	3.31	77.0	29.4	51.0	2.6
9/ 8/77	4.75	88.0	****	50.0	****
9/28/77	6.08	97.3	28.4	47.0	5.1
10/19/77	7.80	102.3	****	****	****

SURVIVAL 0%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/31/78	*****	*****	*****	*****	*****
7/ 6/78	1.30	53.0	*****	53.5	*****
7/13/78	2.42	67.3	*****	54.8	*****
7/20/78	6.35	90.0	*****	59.1	*****
7/21/78	2.86	72.3	*****	61.8	*****

P. VANNAMEI  
 STOCKED 5/31/78  
 HARVEST 10/11/78  
 SURVIVAL 35%

PCND 2  
 50000/ACRE  
 374 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/31/78	*****	*****	*****	*****	*****
6/22/78	0.51	39.7	*****	44.6	*****
6/29/78	1.16	53.7	*****	44.7	*****
7/13/78	2.50	69.8	*****	*****	*****
7/19/78	3.23	75.7	*****	*****	*****
7/27/78	5.09	86.5	*****	*****	*****
8/ 3/78	5.29	87.5	*****	*****	*****
8/10/78	6.91	94.1	*****	*****	*****
8/17/78	8.17	102.0	*****	*****	*****
8/23/78	7.89	100.5	*****	*****	*****
8/30/78	9.87	107.6	*****	*****	*****
9/ 7/78	11.30	113.6	*****	*****	*****
9/13/78	11.50	116.5	*****	*****	*****
9/28/78	12.90	118.8	*****	*****	*****
10/11/78	13.60	119.3	*****	*****	*****

P. VANNAMEI  
 STOCKED 5/31/78  
 HARVEST 7/25/78  
 SURVIVAL 2%

PCND 3  
 50000/ACRE  
 2 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/31/78	*****	*****	*****	*****	*****
7/ 6/78	1.14	53.0	*****	*****	*****
7/25/78	3.08	72.5	*****	*****	*****



P. VANNAMEI  
 STOCKED 5/31/78  
 HARVEST 9/13/78  
 SURVIVAL 0%

PCND 4  
 0/ACRE  
 150 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/31/78	*****	*****	****	****	****
6/29/78	0.96	48.7	****	****	****
7/ 6/78	1.43	57.9	****	****	****
7/13/78	1.57	59.0	****	****	****
7/19/78	2.38	69.9	****	****	****
7/27/78	2.54	69.8	****	****	****
8/ 3/78	2.95	73.7	****	****	****
8/10/78	3.05	73.0	****	****	****
8/17/78	4.55	84.0	****	****	****
8/23/78	4.30	83.2	****	****	****
8/30/78	5.29	87.4	****	****	****
9/ 7/78	6.85	95.1	****	****	****
9/13/78	8.05	102.3	****	****	****

P. VANNAMEI  
 STOCKED 5/31/78  
 HARVEST 8/ 2/78  
 SURVIVAL 4%

PCND 5  
 50000/ACRE  
 4 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/31/78	*****	*****	****	****	****
7/13/78	2.06	63.7	****	56.5	****
7/20/78	1.46	56.3	****	63.2	****
7/27/78	2.96	72.9	****	****	****
8/ 2/78	3.53	76.1	****	61.4	****

P. VANNAMEI  
 STOCKED 5/31/78  
 HARVEST 9/13/78  
 SURVIVAL 42%

PCND 6  
 50000/ACRE  
 61 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/31/78	*****	*****	****	****	****
6/29/78	0.66	43.5	****	46.9	****
7/ 6/78	1.02	43.5	****	52.7	****
7/13/78	1.56	58.9	****	58.7	****
7/19/78	1.83	64.0	****	64.1	****
7/27/78	1.92	63.2	****	****	****
8/ 3/78	3.01	74.3	****	59.7	****
8/10/78	3.09	75.3	****	54.5	****
8/17/78	4.27	83.2	****	62.0	****
8/23/78	4.95	87.6	****	60.8	****
8/31/78	6.65	94.6	****	58.8	****
9/ 7/78	5.30	85.5	****	58.1	****
9/13/78	6.02	93.1	****	49.5	****

P. VANNAMEI  
 STOCKED 5/31/78  
 HARVEST 8/ 2/78  
 SURVIVAL 2%

PCND 7  
 50000/ACRE  
 2 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/31/78	*****	*****	****	****	****
7/ 6/78	1.80	61.7	****	****	****
7/13/78	2.63	70.0	****	****	****
7/20/78	2.72	69.3	****	****	****
7/27/78	4.21	83.0	****	****	****
8/ 2/78	3.96	80.0	****	****	****

P. VANNAMEI

PCND 8

STOCKED 5/31/78

50000/ACRE

HARVEST 9/14/78

0 LBS.

SURVIVAL 22%

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-----
DATE          MEAN      MEAN      MEAN      MEAN      MEAN
              WEIGHT    LENGTH    TEMP      SAL        DO2
-----
5/31/78      *****
6/29/78      0.52      39.6      *****
7/ 6/78      1.19      54.0      *****
7/13/78      1.63      60.9      *****
7/19/78      1.90      64.0      *****
7/27/78      1.30      56.5      *****
8/ 3/78      2.10      65.5      *****
8/17/78      3.27      77.5      *****
8/23/78      3.18      76.0      *****
8/31/78      3.32      75.5      *****
9/ 7/78      5.30      90.0      *****
9/14/78      9.33      106.0     *****
-----

```

P. VANNAMEI

PCND 9

STOCKED 5/31/78

50000/ACRE

HARVEST 9/ 2/78

0 LBS.

SURVIVAL 6%

```

-----
DATE          MEAN      MEAN      MEAN      MEAN      MEAN
              WEIGHT    LENGTH    TEMP      SAL        DO2
-----
5/31/78      *****
7/ 6/78      1.65      57.7      *****
7/13/78      1.94      64.0      *****
7/20/78      2.47      67.4      *****
8/ 3/78      3.20      75.7      *****
8/10/78      4.75      86.3      *****
8/17/78      5.16      86.8      *****
8/24/78      5.36      89.5      *****
8/31/78      5.44      88.0      *****
9/ 7/78      6.60      95.4      *****
9/14/78      7.73      100.0     *****
-----

```

P. VANNAMEI  
 STOCKED 5/31/78  
 HARVEST 10/17/78  
 SURVIVAL 49%

POND 10  
 50000/ACRE  
 0 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/31/78	*****	*****	****	****	****
6/29/78	0.53	40.5	****	****	****
7/ 6/78	1.19	53.8	****	****	****
7/13/78	1.62	61.4	****	****	****
7/20/78	1.84	62.0	****	****	****
7/27/78	2.23	67.0	****	****	****
8/ 3/78	2.74	71.0	****	****	****
8/10/78	3.17	75.0	****	****	****
8/17/78	3.87	79.6	****	****	****
8/24/78	3.77	79.6	****	****	****
8/31/78	5.22	87.4	****	****	****
9/ 7/78	5.70	90.9	****	****	****
9/14/78	7.57	99.3	****	****	****
10/ 2/78	10.50	111.6	****	****	****

P. VANNAMEI  
 STOCKED 5/31/78  
 HARVEST 8/ 1/78  
 SURVIVAL 7%

POND 11  
 50000/ACRE  
 8 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/31/78	*****	*****	****	****	****
7/ 6/78	1.46	57.7	****	47.3	****
7/14/78	2.39	68.0	****	56.4	****
7/20/78	3.26	73.9	****	62.1	****
7/27/78	4.37	83.5	****	62.8	****
8/ 1/78	4.70	84.4	****	60.5	****

P. VANNAMEI  
 STOCKED 5/31/78 PCND 12  
 HARVEST 9/14/78 50000/ACRE  
 SURVIVAL 5% 0 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/31/78	*****	*****	****	****	****
6/29/78	0.36	35.3	****	****	****
7/ 6/78	1.43	57.9	****	****	****
7/13/78	1.68	61.0	****	****	****
7/20/78	1.81	62.0	****	****	****
7/27/78	1.68	61.0	****	****	****
8/ 3/78	1.79	72.6	****	****	****
8/10/78	3.02	74.0	****	****	****
8/17/78	3.75	80.0	****	****	****
8/24/78	4.20	82.9	****	****	****
8/31/78	5.12	86.3	****	****	****
9/ 7/78	5.55	89.3	****	****	****
9/14/78	9.66	106.7	****	****	****

P. VANNAMEI  
 STOCKED 5/31/78 PCND 13  
 HARVEST 7/25/78 50000/ACRE  
 SURVIVAL 3% 2 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DC2
5/31/78	*****	*****	****	****	****
7/20/78	2.08	64.7	****	67.7	****
7/25/78	1.99	65.2	****	69.0	****

P. VANNAMEI  
 STOCKED 5/31/78 PCND 14  
 HARVEST 9/ 2/78 50000/ACRE  
 SURVIVAL 28% 0 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/31/78	*****	*****	****	****	****
6/29/78	0.66	63.2	****	****	****
7/13/78	1.57	60.3	****	****	****
7/20/78	1.97	63.4	****	****	****
7/25/78	2.07	66.0	****	****	****
8/ 3/78	2.49	69.0	****	****	****

P. VANNAMEI  
 STOCKED 5/31/78  
 HARVEST 8/ 1/78  
 SURVIVAL 2%

PCND 15  
 50000/ACRE  
 2 LBS.

```

=====
DATE          MEAN      MEAN      MEAN      MEAN      MEAN
              WEIGHT    LENGTH    TEMP      SAL        DO2
=====
5/31/78      *****  *****  *****  *****  *****
7/13/78      2.01     65.0     *****  *****  *****
7/20/78      3.10     74.0     *****  *****  *****
7/27/78      1.67     61.0     *****  *****  *****
=====

```

P. VANNAMEI  
 STOCKED 5/31/78  
 HARVEST 8/ 2/78  
 SURVIVAL 0%

POND 16  
 50000/ACRE  
 0 LBS.

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=====
DATE          MEAN      MEAN      MEAN      MEAN      MEAN
              WEIGHT    LENGTH    TEMP      SAL        DO2
=====
5/31/78      *****  *****  *****  *****  *****
6/29/78      0.57     42.0     *****  *****  *****
7/13/78      1.83     61.3     *****  *****  *****
7/20/78      2.24     67.5     *****  *****  *****
7/25/78      1.61     61.0     *****  *****  *****
8/ 2/78      2.11     66.7     *****  *****  *****
=====

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P. VANNAMEI  
 STOCKED 5/31/78  
 HARVEST 10/ 2/78  
 SURVIVAL 30%

PCND 17  
 50000/ACRE  
 121 LBS.

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=====
DATE          MEAN      MEAN      MEAN      MEAN      MEAN
              WEIGHT    LENGTH    TEMP      SAL        DO2
=====
5/31/78      *****  *****  *****  *****  *****
6/26/78      1.04     52.4     *****  *****  *****
7/13/78      2.08     65.0     *****  *****  *****
7/20/78      2.25     66.8     *****  *****  *****
7/25/78      2.38     69.5     *****  *****  *****
8/ 3/78      2.57     68.4     *****  *****  *****
10/ 2/78     14.67    123.8     *****  *****  *****
=====

```

P. VANNAMEI  
 STOCKED 6/26/78 FCND 18  
 HARVEST 9/ 2/78 50000/ACRE  
 SURVIVAL 60% 0 LBS.

```

=====
DATE          MEAN      MEAN      MEAN      MEAN      MEAN
              WEIGHT    LENGTH    TEMP      SAL       DC2
=====
6/26/78      1.70      59.8     ****     ****     ****
7/13/78      1.77      62.2     ****     ****     ****
7/20/78      1.77      61.8     ****     ****     ****
7/27/78      2.03      64.5     ****     ****     ****
8/ 3/78      2.77      70.6     ****     ****     ****
=====

```

P. VANNAMEI  
 STOCKED 5/31/78 FCND 32  
 HARVEST 10/27/78 50000/ACRE  
 SURVIVAL 0% 0 LBS.

```

=====
DATE          MEAN      MEAN      MEAN      MEAN      MEAN
              WEIGHT    LENGTH    TEMP      SAL       DO2
=====
5/31/78      ****     ****     ****     ****     ****
6/26/78      1.04      52.4     ****     44.1     ****
6/30/78      3.00      72.8     ****     47.6     ****
7/ 6/78      2.64      70.1     ****     48.0     ****
7/19/78      5.81      91.8     ****     49.0     ****
7/27/78      6.84      95.2     ****     51.4     ****
8/ 2/78      7.10      95.8     ****     49.9     ****
8/10/78      8.75     101.3     ****     48.9     ****
8/17/78      9.45     106.3     ****     53.0     ****
8/23/78      9.48     109.3     ****     52.0     ****
8/30/78     10.41     109.4     ****     53.0     ****
9/ 7/78      9.70     107.3     ****     51.7     ****
9/13/78     10.47     110.8     ****     44.0     ****
10/13/78     3.00      72.8     ****     49.4     ****
10/27/78    16.73     127.7     ****     ****     ****
=====

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APPENDIX C

FORTRAN PROGRAM FOR DATA TABULATION





```

//SOPTICNS
1      INTEGER LOC,POND(30),MCN(30),DAY(30),YR(30),SPCODE(30),FLRATE,
      1MEANSD,SDVLT,SURATE(30),STKDEN(30),HARV(30),MCNHAR(30),
      2DAYHAR(30),YRHAR(30),PCND1,LOC1,MCN1,DAY1,YR1
2      19  INTEGER SNAME(7,3)
3      REAL  MEANWT(30),MEANLT(30),MNTEMP(30),MNSAL(30),MNDO2(30),
      1MEANPH(30)
C
C-----PROGRAM TO SET UP TABLES FOR PCND DATA
C
C----READ SPECIES NAME
4      DO 5 J=1,7
5      5  READ(5,102)(SNAME(J,I),I=1,3)
6      102 FORMAT(3A4)
C----READ FILE TO INITIALIZE POND1 AND YR1
7      READ(1,103)LOC1,POND1,MCN1,DAY1,YR1
8      103 FORMAT(I1,4I2)
9      BACKSPACE 1
C----READ POND DATA FROM FILE
10     WRITE(6,111)
11     111 FORMAT('1')
12     DO 100 L=1,120
13     DO 80 K=1,30
14     READ(1,101,END=99)LOC,PCND(K),MON(K),DAY(K),YR(K),SPCODE(K),
      1FLRATE,MEANWT(K),MEANSD,MEANLT(K),SDVLT,SURATE(K),STKDEN(K),
      2MNTEMP(K),MNSAL(K),MNDO2(K),MEANPH(K),HARV(K),MCNHAR(K),
      3DAYHAR(K),YRHAR(K)
15     IF(PCND(K).NE.PCND1.OR.YR(K).NE.YR1)GO TO 85
16     IF(MEANWT(K) .EQ.0) MEANWT(K)=999999
17     IF(MEANLT(K) .EQ.0) MEANLT(K)=999999
18     IF(MNTEMP(K) .EQ.0) MNTEMP(K)=999999
19     IF(MNSAL(K) .EQ.0) MNSAL(K)=999999
20     IF(MNDO2(K) .EQ.0) MNDO2(K)=999999
21     80  CONTINUE
22     101 FORMAT(I1,4I2,I1,I2,F4.2,I4,F4.1,I4,I2,I6,3F3.1,F4.2,I5,3I2)
23     85  YR1=YR(K)
24     POND1=POND(K)
25     BACKSPACE 1
26     K=K+1
C----PRINT TITLE
27     WRITE(6,210)(SNAME(SPCODE(K),I),I=1,3),POND(K)
28     210 FORMAT('1',10X,'P. ',3A4,17X,'POND',3X,I2)
29     WRITE(6,225) MON(1),DAY(1),YR(1),STKDEN(K)
30     225 FORMAT(' ',10X,'STOCKED',5X,2(I2,'/'),I2,10X,I7,'/ACRE')
31     WRITE(6,230) MCNHAR(1),DAYHAR(1),YRHAR(1),HARV(1),SURATE(K)
32     230 FORMAT(' ',10X,'HARVEST',5X,2(I2,'/'),I2,12X,I5,1X,'LBS.',
      2/, ' ',10X,'SURVIVAL',9X,I2,'%')

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C====PRINT TABLES
33      WRITE(6,202)
34      202 FORMAT('0',10X,51('='),/,',',10X,'DATE',8X,'MEAN',5X,'MEAN',
      25X,'MEAN',4X,'MEAN',4X,'MEAN',/,',',21X,'WEIGHT',3X,'LENGTH',
      34X,'TEMP',4X,'SAL',5X,'DO2',/,',',10X,51('='))
35      DO 90 M=1,K
36      90 WRITE(6,203)MON(M),DAY(M),YR(M),MEANWT(M),MEANLT(M),MNTEMP(M),
      2MNSAL(M),MNDC2(M)
37      203 FORMAT(' ',10X,2(I2,'/'),I2,3X,F5.2,4X,F5.1,5X,F4.1,2(4X,F4.1))
38      100 WRITE(6,205)
39      205 FORMAT(' ',10X,51('='))
40      99 WRITE(6,212)
41      212 FORMAT('1')
42      STOP
43      END

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