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

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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, Weyerhauser 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 sapwned 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 beteen 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 (^{o}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 POND 1
STOCKED 9/ 4/69 20000/ACRE
HARVEST 11/14/69 91 LBS.
SURVIVAL 37%

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 POND 2
STOCKED 9/ 4/69 20000/ACRE
HARVEST 11/19/69 65 LBS.
SURVIVAL 34%

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 PCND 3
STOCKED 9/ 4/69 20000/ACRE
HARVEST 11/14/69 73 LBS.
SURVIVAL 41%

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 PCND 4
STOCKED 9/ 4/69 20000/ACRE
HARVEST 11/14/69 106 LBS.
SURVIVAL 51%

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%

POND 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%

POND 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 — POND 7

STOCKED 9/ 4/69 — 20000/ACRE

HARVEST 11/14/69 — 115 LBS.

SURVIVAL 43%

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 — POND 8

STOCKED 9/ 4/69 — 20000/ACRE

HARVEST 11/19/69 — 65 LBS.

SURVIVAL 24%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
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%

POND 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%

POND 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 POND 1
STOCKED 7/ 2/70 20000/ACRE
HARVEST 10/23/70 15 LBS.
SURVIVAL 10%

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 POND 2
STOCKED 7/ 2/70 20000/ACRE
HARVEST 10/23/70 12 LBS.
SURVIVAL 9%

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	POND	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	POND	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	POND	4
HARVEST	11/10/70	20000/ACRE	
SURVIVAL	14%	22 LBS.	

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
7/ 2/70	3.94	79.0	****	****	****
7/10/70	3.64	76.3	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	POND	5
HARVEST	11/29/70	20000/ACRE	
SURVIVAL	41%	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 POND 55
STOCKED 8/27/70 20000/ACRE
HARVEST 11/20/70 89 LBS.
SURVIVAL 47%

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 POND 6
STOCKED 7/ 2/70 20000/ACRE
HARVEST 8/20/70 59 LBS.
SURVIVAL 59%

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	POND	66
HARVEST	12/23/70	20000/ACRE	
SURVIVAL	50%	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	POND	7
HARVEST	8/20/70	20000/ACRE	
SURVIVAL	77%	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 POND 77
STOCKED 8/25/70 20000/ACRE
HARVEST 11/29/70 107 LBS.
SURVIVAL 56%

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 POND 8
STOCKED 7/ 2/70 20000/ACRE
HARVEST 10/23/70 8 LBS.
SURVIVAL 7%

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	POND	9
HARVEST	10/15/70	20000/ACRE	
SURVIVAL	23%	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 PCND 50
STOCKED 5/11/70 20000/ACRE
HARVEST 10/21/70 0 LBS.
SURVIVAL 0%

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%

POND 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 POND 1
STOCKED 6/12/72 100000/ACRE
HARVEST 10/25/72 918 LBS.
SURVIVAL 65%

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 POND 2
STOCKED 6/12/72 40000/ACRE
HARVEST 9/20/72 347 LBS.
SURVIVAL 65%

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 POND 3
STOCKED 45/13/72 20000/ACRE
HARVEST 62/67/20 1640 LBS.
SURVIVAL 37%

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 POND 33
STOCKED 7/ 1/72 100000/ACRE
HARVEST 3/ 7/20 731 LBS.
SURVIVAL 6%

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	POND	4
HARVEST	6/26/72	20000/ACRE	
SURVIVAL	45%	154 LBS.	

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
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	POND	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 POND 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 POND 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	POND	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	POND	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 POND 8
STOCKED 4/13/72 40000/ACRE
HARVEST 6/23/72 0 LBS.
SURVIVAL 16%

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

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

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

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
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 POND 10
STOCKED 4/25/72 150000/ACRE
HARVEST 6/29/72 416 LBS.
SURVIVAL 84%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
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 POND 70
STOCKED 7/ 1/72 100000/ACRE
HARVEST 10/ 2/72 267 LBS.
SURVIVAL 14%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
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

POND 11

STOCKED 6/12/72

40000/ACRE

HARVEST 10/ 3/72

318 LBS.

SURVIVAL 56%

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

POND 12

STOCKED 4/13/72

40000/ACRE

HARVEST 7/24/72

207 LBS.

SURVIVAL 49%

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	POND	13
HARVEST	7/24/72	40000/ACRE	
SURVIVAL	40%	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	POND	14
HARVEST	11/ 2/72	40000/ACRE	
SURVIVAL	99%	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 POND 15
STOCKED 4/13/72 40000/ACRE
HARVEST 7/24/72 273 LBS.
SURVIVAL 41%

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 POND 16
STOCKED 6/12/72 40000/ACRE
HARVEST 10/ 4/72 253 LBS.
SURVIVAL 40%

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

POND 17

STOCKED 6/12/72

40000/ACRE

HARVEST 10/ 4/72

227 LBS.

SURVIVAL 37%

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	116.8	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

POND 18

STOCKED 4/13/72

40000/ACRE

HARVEST 7/26/72

186 LBS.

SURVIVAL 44%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
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	101.8	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%

POND 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%

POND 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 POND 20
STOCKED 4/25/72 260000/ACRE
HARVEST 10/ 3/72 263 LBS.
SURVIVAL 39%

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 POND 1
STOCKED 7/12/73 200000/ACRE
HARVEST 11/ 8/73 302 LBS.
SURVIVAL 43%

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 POND 2
STOCKED 6/12/73 100000/ACRE
HARVEST 11/ 6/73 186 LBS.
SURVIVAL 19%

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 POND 3
STOCKED 7/12/73 200000/ACRE
HARVEST 11/12/73 161 LBS.
SURVIVAL 16%

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 POND 4
STOCKED 6/12/73 100000/ACRE
HARVEST 11/ 8/73 385 LBS.
SURVIVAL 39%

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	POND	5
HARVEST	11/12/73	200000/ACRE	
SURVIVAL	47%	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	POND	6
HARVEST	11/ 8/73	100000/ACRE	
SURVIVAL	2%	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

STOCKED	6/12/73	POND	7
HARVEST	11/ 9/73	200000/ACRE	
SURVIVAL	95%	1158 LBS.	

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
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

STOCKED	7/12/73	POND	8
HARVEST	11/ 6/73	66000/ACRE	
SURVIVAL	1%	3 LBS.	

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
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

POND 9

STOCKED 6/12/73

100000/ACRE

HARVEST 11/ 6/73

6 LBS.

SURVIVAL 1%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
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 POND 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 POND 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%

POND 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%

POND 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 POND 14
STOCKED 7/12/73 100000/ACRE
HARVEST 11/13/73 5 LBS.
SURVIVAL 1%

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 POND 15
STOCKED 6/12/73 200000/ACRE
HARVEST 11/13/73 1347 LBS.
SURVIVAL 81%

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	POND	16
HARVEST	11/15/73	100000/ACRE	
SURVIVAL	56%	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	POND	17
HARVEST	11/14/73	100000/ACRE	
SURVIVAL	1%	2 LBS.	

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
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 POND 18
STOCKED 6/12/73 200000/ACRE
HARVEST 11/15/73 634 LBS.
SURVIVAL 44%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
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 POND 1
STOCKED 5/30/74 75000/ACRE
HARVEST 10/30/74 213 LBS.
SURVIVAL 13%

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 POND 2
STOCKED 7/30/74 25000/ACRE
HARVEST 10/16/74 202 LBS.
SURVIVAL 54%

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 POND 3
STOCKED 7/31/74 25000/ACRE
HARVEST 11/11/74 216 LBS.
SURVIVAL 61%

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%

POND 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%

POND 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 PCND 6
STOCKED 8/12/74 25000/ACRE
HARVEST 11/13/74 152 LBS.
SURVIVAL 37%

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 PCND 7
STOCKED 8/12/74 25000/ACRE
HARVEST 11/13/74 170 LBS.
SURVIVAL 47%

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%

POND 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%

POND 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 POND 10
STOCKED 8/16/74 25000/ACRE
HARVEST 10/22/74 175 LBS.
SURVIVAL 51%

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. STYLIROSTRIS POND 11
STOCKED 5/30/74 75000/ACRE
HARVEST 11/13/74 307 LBS.
SURVIVAL 39%

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%

POND 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%

POND 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 POND 14
STOCKED 8/ 6/74 25000/ACRE
HARVEST 11/13/74 194 LBS.
SURVIVAL 48%

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 POND 15
STOCKED 8/ 6/74 50000/ACRE
HARVEST 11/14/74 181 LBS.
SURVIVAL 45%

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 POND 18
STOCKED 9/ 6/74 25000/ACRE
HARVEST 11/14/74 134 LBS.
SURVIVAL 59%

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 POND 19
STOCKED 7/28/74 25000/ACRE
HARVEST 11/14/74 74 LBS.
SURVIVAL 25%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
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 11/14/74 173 LBS.
SURVIVAL 54%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
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 POND 50
STOCKED 8/ 6/74 16000/ACRE
HARVEST 11/ 8/74 694 LBS.
SURVIVAL 53%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
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

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

POND 51
16000/ACRE
506 LBS.

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

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

POND 1
40000/ACRE
241 LBS.

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 POND 2
STOCKED 7/10/75 60000/ACRE
HARVEST 12/ 1/75 0 LBS.
SURVIVAL 0%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
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 POND 3
STOCKED 5/14/75 160000/ACRE
HARVEST 12/ 9/75 16 LBS.
SURVIVAL 1%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
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
STOCKED 6/11/75
HARVEST 10/28/75
SURVIVAL 20%

POND 4
60000/ACRE
158 LBS.

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
STOCKED 6/11/75
HARVEST 12/ 1/75
SURVIVAL 0%

POND 5
60000/ACRE
0 LBS.

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 10/29/75 235 LBS.
SURVIVAL 51%

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 PCND 7
STOCKED 7/10/75 60000/ACRE
HARVEST 12/11/75 166 LBS.
SURVIVAL 35%

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%

POND 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%

POND 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 DO2
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 POND 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 DO2
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. SETIFERUS POND 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 DO2
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 POND 18
STOCKED 8/11/75 40000/ACRE
HARVEST 10/22/75 56 LBS.
SURVIVAL 26%

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 POND 19
STOCKED 8/11/75 40000/ACRE
HARVEST 10/22/75 28 LBS.
SURVIVAL 43%

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 POND 20
STOCKED 8/11/75 60000/ACRE
HARVEST 11/20/75 0 LBS.
SURVIVAL 0%

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 POND 50
STOCKED 7/24/75 24000/ACRE
HARVEST 12/ 3/75 1027 LBS.
SURVIVAL 46%

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 POND 51
STOCKED 7/19/75 60000/ACRE
HARVEST 11/ 6/75 1918 LBS.
SURVIVAL 22%

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 POND 1
STOCKED 6/29/76 208000/ACRE
HARVEST 11/ 5/76 172 LBS.
SURVIVAL 42%

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 POND 2
STOCKED 7/17/76 88000/ACRE
HARVEST 9/22/76 179 LBS.
SURVIVAL 53%

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 POND 3
STOCKED 6/29/76 165000/ACRE
HARVEST 11/18/76 0 LBS.
SURVIVAL 0%

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 POND 4
STOCKED 7/15/76 464000/ACRE
HARVEST 0/ 0/ 0 0 LBS.
SURVIVAL 13%

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

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

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

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/ 3/76 151 LBS.
SURVIVAL 66%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
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 PCND 14
STOCKED 8/17/76 40000/ACRE
HARVEST 11/ 3/76 126 LBS.
SURVIVAL 39%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
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%

POND 15
40000/ACRE
168 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
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%

POND 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 POND 17
STOCKED 8/12/76 40000/ACRE
HARVEST 11/ 3/76 203 LBS.
SURVIVAL 81%

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 POND 18
STOCKED 8/12/76 40000/ACRE
HARVEST 11/ 4/76 182 LBS.
SURVIVAL 69%

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%

POND 1

80000/ACRE

138 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
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 POND 2
STOCKED 5/20/77 80000/ACRE
HARVEST 10/24/77 519 LBS.
SURVIVAL 84%

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	****	****	****

P. SETIFERUS

STOCKED 5/20/77

HARVEST 10/27/77

SURVIVAL 99%

POND 4

80000/ACRE

593 LBS.

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 POND 5
STOCKED 5/20/77 80000/ACRE
HARVEST 11/10/77 517 LBS.
SURVIVAL 69%

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	****	****	****

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

POND 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 POND 7
STOCKED 6/ 9/77 50000/ACRE
HARVEST 11/22/77 364 LBS.
SURVIVAL 99%

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. STYLIROSTRIS POND 8
STOCKED 6/25/77 50000/ACRE
HARVEST 11/22/77 10 LBS.
SURVIVAL 2%

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 POND 11
STOCKED 5/20/77 8000/ACRE
HARVEST 11/13/77 574 LBS.
SURVIVAL 99%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
5/20/77	0.14	8.0	****	****	****
6/ 8/77	0.19	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	****	****	****

P. SETIFERUS POND 12
STOCKED 5/19/77 80000/ACRE
HARVEST 11/14/77 440 LBS.
SURVIVAL 92%

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%

POND 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 POND 14
STOCKED 5/19/77 80000/ACRE
HARVEST 11/14/77 483 LBS.
SURVIVAL 93%

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. SETIFERUS

STOCKED 5/19/77

HARVEST 11/10/77

SURVIVAL 55%

POND 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%

POND 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%

POND 17

105000/ACRE

525 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN 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	****	****	****

P. SETIFERUS POND 18
STOCKED 5/19/77 73000/ACRE
HARVEST 11/11/77 483 LBS.
SURVIVAL 85%

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	POND	19
HARVEST	11/13/77	73000/ACRE	
SURVIVAL	83%	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	28.0	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	POND	2
HARVEST	8/22/78	50000/ACRE	
SURVIVAL	23%	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 POND 3
STOCKED 5/30/78 50000/ACRE
HARVEST 22/78/ 0 3008 LBS.
SURVIVAL 17%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
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 POND 4
STOCKED 5/31/78 50000/ACRE
HARVEST 8/21/78 29 LBS.
SURVIVAL 18%

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%

POND 5
50000/ACRE
26 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN 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

P. VANNAMEI
STOCKED 5/30/78
HARVEST 9/ 6/78
SURVIVAL 13%

POND 6
50000/ACRE
22 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN 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

P. VANNAMEI POND 7
STOCKED 5/30/78 50000/ACRE
HARVEST 9/ 5/78 15 LBS.
SURVIVAL 12%

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 POND 8
STOCKED 5/30/78 50000/ACRE
HARVEST 8/ 2/78 73 LBS.
SURVIVAL 41%

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 POND 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
HARVEST 10/19/78
SURVIVAL 0%

POND 14
50000/ACRE
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
HARVEST 10/18/78
SURVIVAL 0%

POND 15
50000/ACRE
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 POND 17
STOCKED 5/31/78 50000/ACRE
HARVEST 10/19/78 2 LBS.
SURVIVAL 0%

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%

POND 18
50000/ACRE
0 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
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%

POND 19
50000/ACRE
2 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
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 DO2
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. STYLIRCSTRIS
STOCKED 6/29/73
HARVEST 11/12/73
SURVIVAL 33%

POND 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%

POND 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%

POND 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%

POND 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	****	****	****

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
7/ 1/75	*****	8.0	****	****	****
7/18/75	0.21	31.7	28.1	46.0	6.5
7/25/75	0.86	49.5	27.5	41.5	6.4
7/31/75	1.87	63.9	30.0	43.5	5.8
8/ 7/75	1.72	61.8	27.2	46.0	6.0
8/14/75	3.63	78.8	28.2	45.0	2.6
8/21/75	4.75	96.0	28.8	47.0	2.4
8/28/75	5.81	90.3	28.4	49.5	2.1
9/ 4/75	7.57	99.7	30.0	46.0	1.0
9/11/75	8.31	100.0	28.0	42.0	2.2
9/18/75	10.05	109.7	29.4	37.5	2.7
9/25/75	12.96	117.5	19.5	31.0	1.6
10/ 2/75	11.65	114.5	25.0	34.0	1.2
10/ 9/75	12.16	116.9	23.2	29.0	1.1
10/16/75	13.36	119.8	27.5	35.0	0.8
10/23/75	13.23	119.6	23.5	35.2	1.1
10/30/75	14.09	122.6	23.0	33.5	0.4
11/ 6/75	14.09	122.5	23.7	32.0	0.2
11/13/75	14.50	125.1	****	****	****

P. STYLIRCSTRIS
STOCKED 7/18/75
HARVEST 11/11/75
SURVIVAL 69%

POND 6
60000/ACRE
328 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
7/18/75	0.31	32.8	28.2	44.0	4.3
7/25/75	0.73	45.3	31.0	44.0	5.5
7/31/75	1.54	59.6	****	****	****
8/ 7/75	2.89	72.8	27.7	44.0	4.4
8/14/75	3.22	75.7	27.9	46.0	2.8
8/21/75	3.25	76.8	28.9	45.5	1.6
8/28/75	4.35	83.5	28.5	47.0	1.4
9/ 4/75	7.46	99.5	30.0	45.0	0.8
9/11/75	8.67	104.1	28.5	41.5	1.2
9/18/75	9.05	105.9	29.0	36.5	2.5
9/25/75	11.02	112.7	23.5	30.0	1.6
10/ 2/75	11.08	112.7	24.0	32.5	1.6
10/ 9/75	12.25	115.3	22.5	32.0	1.2
10/16/75	13.04	118.7	27.0	35.5	0.5
10/23/75	12.96	120.7	23.0	35.0	0.6
10/30/75	13.11	119.7	24.0	32.5	1.6
11/ 6/75	13.74	121.4	22.5	32.0	1.2
11/11/75	14.44	123.6	****	****	****

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

POND 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. STYLIROSTRIS
STOCKED 7/ 1/75
HARVEST 11/11/75
SURVIVAL 49%

POND 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 POND 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
STOCKED 7/ 3/75
HARVEST 11/ 4/75
SURVIVAL 0%

POND 11
40000/ACRE
0 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
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
STOCKED 6/27/75
HARVEST 11/ 7/75
SURVIVAL 28%

POND 12
60000/ACRE
122 LBS.

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	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

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

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. STYLIRCSTRIS POND 15
STOCKED 6/ 2/75 30000/ACRE
HARVEST 11/11/75 122 LBS.
SURVIVAL 28%

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. STYLIRCSTRIS POND 16
STOCKED 6/ 2/75 60000/ACRE
HARVEST 11/ 6/75 24 LBS.
SURVIVAL 4%

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. STYLIRCSTRIS POND 18
STOCKED 6/ 2/75 4CC00/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

STOCKED 5/18/77

HARVEST 11/ 2/77

SURVIVAL 0%

POND 5

80000/ACRE

0 LBS.

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

STOCKED 5/18/77

HARVEST 10/21/77

SURVIVAL 0%

POND 7

80000/ACRE

1 LBS.

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 POND 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

POND 13

STOCKED 5/18/77

80000/ACRE

HARVEST 11/ 2/77

66 LBS.

SURVIVAL 12%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
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

POND 15

STOCKED 5/18/77

80000/ACRE

HARVEST 10/19/77

186 LBS.

SURVIVAL 54%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
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 POND 2
STOCKED 5/31/78 50000/ACRE
HARVEST 10/11/78 374 LBS.
SURVIVAL 35%

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 POND 3
STOCKED 5/31/78 50000/ACRE
HARVEST 7/25/78 2 LBS.
SURVIVAL 2%

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%

POND 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%

POND 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 POND 6
STOCKED 5/31/78 50000/ACRE
HARVEST 9/13/78 61 LBS.
SURVIVAL 42%

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 POND 7
STOCKED 5/31/78 50000/ACRE
HARVEST 8/ 2/78 2 LBS.
SURVIVAL 2%

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
STOCKED 5/31/78
HARVEST 9/14/78
SURVIVAL 22%

POND 8
50000/ACRE
0 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN 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
STOCKED 5/31/78
HARVEST 9/ 2/78
SURVIVAL 6%

POND 9
50000/ACRE
0 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN 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
HARVEST 9/14/78
SURVIVAL 5%

POND 12
50000/ACRE
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
HARVEST 7/25/78
SURVIVAL 3%

POND 13
50000/ACRE
2 LBS.

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
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
HARVEST 9/ 2/78
SURVIVAL 28%

POND 14
50000/ACRE
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 POND 15
STOCKED 5/31/78 50000/ACRE
HARVEST 8/ 1/78 2 LBS.
SURVIVAL 2%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN 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 POND 16
STOCKED 5/31/78 50000/ACRE
HARVEST 8/ 2/78 0 LBS.
SURVIVAL 0%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN 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	****	****	****

P. VANNAMEI POND 17
STOCKED 5/31/78 50000/ACRE
HARVEST 10/ 2/78 121 LBS.
SURVIVAL 30%

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN 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	POND	18
HARVEST	9/ 2/78	50000/ACRE	
SURVIVAL	60%	0 LBS.	

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN DO2
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	POND	32
HARVEST	10/27/78	50000/ACRE	
SURVIVAL	0%	0 LBS.	

DATE	MEAN WEIGHT	MEAN LENGTH	MEAN TEMP	MEAN SAL	MEAN 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	****	****	****

APPENDIX C

FORTRAN PROGRAM FOR DATA TABULATION

```
//$OPTIONS
      INTEGER LOC,POND(30),MON(30),DAY(30),YR(30),SPCODE(30),FLRATE,
     1MEANSD,SDVLT,SURATE(30),STKDEN(30),HARV(30),MONHAR(30),
     2DAYHAR(30),YRHAR(30),POND1,LOC1,MON1,DAY1,YR1
 19   INTEGER SNAME(7,3)
      REAL MEANWT(30),MEANLT(30),MNTEMP(30),MNSAL(30),MNDO2(30),
     1MEANPH(30)
C
C----PROGRAM TO SET UP TABLES FOR POND DATA
C
C---READ SPECIES NAME
      DO 5 J=1,7
    5 READ(5,102)(SNAME(J,I),I=1,3)
  102 FORMAT(3A4)
C----READ FILE TO INITIALIZE POND1 AND YR1
      READ(1,103)LOC1,POND1,MON1,DAY1,YR1
  103 FORMAT(I1,4I2)
      BACKSPACE 1
C-----READ POND DATA FROM FILE
      WRITE(6,111)
  111 FORMAT('1')
      DO 100 L=1,120
      DO 80 K=1,30
      READ(1,101,END=99)LOC,POND(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),MONHAR(K),
     3DAYHAR(K),YRHAR(K)
      IF(POND(K).NE.POND1.OR.YR(K).NE.YR1)GO TO 85
      IF(MEANWT(K) .EQ.0) MEANWT(K)=999999
      IF(MEANLT(K) .EQ.0) MEANLT(K)=999999
      IF(MNTEMP(K) .EQ.0) MNTEMP(K)=999999
      IF(MNSAL(K) .EQ.0) MNSAL(K)=999999
      IF(MNDO2(K) .EQ.0) MNDO2(K)=999999
   80 CONTINUE
  101 FORMAT(I1,4I2,I1,I2,F4.2,I4,F4.1,I4,I2,I6,3F3.1,F4.2,I5,3I2)
   85 YR1=YR(K)
      POND1=POND(K)
      BACKSPACE 1
      K=K-1
C----PRINT TITLE
      WRITE(6,210)(SNAME(SPCODE(K),I),I=1,3),POND(K)
  210 FORMAT('1',10X,'P. ',3A4,17X,'POND',3X,I2)
      WRITE(6,225) MON(1),DAY(1),YR(1),STKDEN(K)
  225 FORMAT(' ',10X,'STOCKED',5X,2(I2,'/'),I2,10X,I7,'/ACRE')
      WRITE(6,230) MONHAR(1),DAYHAR(1),YRHAR(1),HARV(1),SURATE(K)
  230 FORMAT(' ',10X,'HARVEST',5X,2(I2,'/'),I2,12X,I5,1X,'LBS.',
     2/,' ',10X,'SURVIVAL',9X,I2,'%')
```

```
C====PRINT TABLES
      WRITE(6,202)
  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('='))
      DO 90 M=1,K
   90 WRITE(6,203)MON(M),DAY(M),YR(M),MEANWT(M),MEANLT(M),MNTEMP(M),
     2MNSAL(M),MNDO2(M)
  203 FORMAT(' ',10X,2(I2,'/'),I2,3X,F5.2,4X,F5.1,5X,F4.1,2(4X,F4.1))
  100 WRITE(6,205)
  205 FORMAT(' ',10X,51('='))
   99 WRITE(6,212)
  212 FORMAT('1')
      STOP
      END

//$DATA
```

LITERATURE CITED

Adams, C.M., W.L. Griffin, J.P. Nichols and R.W. Brick. 1980. Bio-engineering-economic model for shrimp mariculture systems, 1979. Texas A&M Univ. Sea Grant College Program Technical Report TAMU-SG=80-203. 125 p.

Anonymous. 1978. Why is big business going fishing? Forbes, September 18, 1978. pp. 121-124.

Bardach, J.E., J.H. Ryther and W.O. McLarney. 1972. Aquaculture: the husbandry of marine and fresh water organisms. New York, Wiley-Interscience. 868 p.

Baust, J.G. and A.L. Lawrence. 1979. Enhancement of chill tolerance in larval Artemia salina. IV. Cooling regimens and multiple type cryoprotectant exposure. Proc. World Maricul. Soc. 10: 421-428.

Baust, J.G. and A.L. Lawrence. 1980a. Ontogenetic variability of chill tolerance in larval Artemia salina. I. Single type cryoprotectants. Aquaculture 20: 305-311.

Baust, J.G. and A.L. Lawrence. 1980b. Ontogenetic variability of chill tolerance in larval Artemia salina. II. Dual type cryoprotectants. Aquaculture 20: 313-321.

Brown, A., J. McVey, B.S. Middleditch and A.L. Lawrence. 1979. Maturation of the white shrimp (Penaeus setiferus) in captivity. Proc. World Maricul. Soc. 10: 435-444.

Brown, A., J. McVey, B.S. Middleditch, A.L. Lawrence, H.M. Scott and T.D. Williams. 1980. Maturation and spawning of Penaeus stylirostris under controlled laboratory conditions. Proc. World Maricul. Soc. 11: 488-499.

Brown, J.E. 1977. Shrimp mariculture research advances. Sea Grant '70's 7(10): 2-7.

Chamberlain, G.W., D.L. Hutchins, A.L.Lawrence and J.C. Parker. 1980. Winter culture of Penaeus vannamei in ponds receiving thermal effluent at different rates. Proc. World Maricul. Soc. 11: 30-43.

Chamberlain, G.W. and A.L. Lawrence. 1981. Maturation and growth of Penaeus vannamei and Penaeus stylirostris fed natural diets. Proc. World Maricul. Soc. 12, accepted for publication.

Colunga, L. 1974. Shrimp -- a new coastal crop. The University and the Sea 7(6): 12-13.

Conte, F.S. 1975. Penaeid shrimp culture and the utilization of waste heat effluent. Proc. Waste Heat Aquacul. Workshop 1: 23-47.

Conte, F.S. and J.C. Parker. 1974. Texas shrimp farming: a perspective. Proc. 1974 Fish Farming Conf., Texas A&M Univ., College Station. pp. 40-44.

Conte, F.S., M.J. Duronslet, W.H. Clark, Jr., and J.C. Parker. 1977. Maturation of Penaeus stylirostris (Stempson) and P. setiferus (Linn.) in hypersaline water near Corpus Christi, Texas. Proc. World Maricul. Soc. 8: 327-334.

Fisher, N.P. 1975. The future of Texas fisheries. Texas Industrial Commission. p. 59.

Gould, R.A., D.V. Aldrich and C.R. Mock. 1973. Experimental pond culture of brown shrimp (Penaeus aztecus) in power plant effluent water. Proc. World Maricul. Soc. 4: 195-214.

Griffin, W.L., J.S. Hanson, R.W. Brick and M.A. Johns. 1981. Bioeconomic modeling with stochastic elements in shrimp culture. Proc. World Maricul. Soc. 12, accepted for publication.

Hanson, J.S. 1979. An economic model incorporating shrimp growth and water quality parameters into a budget-simulation. M.S. Thesis, Texas A&M Univ., College Station. 175 p.

Hanson, J.A. and H.L. Goodwin. 1977. Shrimp and prawn farming in the western hemisphere. Stroudsberg, Pa., Dowden, Hutchinson and Ross, Inc. 439 p.

Holcomb, H.W., Jr., and J.C. Parker. 1973. Efficiency of drain and seine harvest techniques in experimental penaeid shrimp culture ponds. Proc. World Marcul. Soc. 4: 235-245.

Hutchins, D.L., G.W. Chamberlain and J.C. Parker. 1980. Estimation of shrimp populations in ponds using mark-recapture and random sampling methods. Proc. World Maricul. Soc. 11: 142-150.

Johns, M.A., W.L. Griffin, A.L. Lawrence and D.L. Hutchins. 1981. Budget analysis of a shrimp maturation facility. Proc. World Maricul. Soc. 12, accepted for publication.

Johnson, S.K. 1974a. Ectocommensals and parasites of shrimp from Texas rearing ponds. Proc. World Maricul. Soc. 5: 251-266.

Johnson, S.K. 1974b. Fusarium sp. in laboratory-held pink shrimp. Texas A&M Univ. Extension Fish Disease Diagnostic Laboratory Publication FDDL-S1. 1 p.

Johnson, S.K. 1974c. Effects of temperature change on brown shrimp postlarvae. Texas A&M Univ. Extension Fish Disease Diagnostic Laboratory Publication FDDL-S2. 2 p.

Johnson, S.K. 1974d. Toxicity of several management chemicals to penaeid shrimp. Texas A&M Univ. Extension Fish Disease Diagnostic Laboratory Publication FDDL-S3. 13 p.

Johnson, S.K. 1974e. Use of quinaldine with penaeid shrimp. Texas A&M Univ. Extension Fish Disease Diagnostic Laboratory Publication FDDL-S4. 2 p.

Johnson, S.K. 1975a. Field application of several management chemicals in shrimp rearing ponds. Texas A&M Univ. Extension Fish Disease Diagnostic Laboratory Publication FDDL-S5. 3 p.

Johnson, S.K. 1975b. Handbook of shrimp diseases. Texas A&M Univ. Sea Grant College Program Publication TAMU-SG-75-603. 19 p.

Johnson, S.K. 1976a. Chemical control of peritrichous ciliates on young penaeid shrimp. Texas A&M Univ. Extension Fish Disease Diagnostic Laboratory Publication FDDL-S7. 4 p.

Johnson, S.K. 1976b. Twenty-four hour toxicity tests of six chemicals to mysis larvae of Penaeus setiferus. Texas A&M Univ. Fish Disease Diagnostic Laboratory Publication No. FDDL-S8. 2 p.

Johnson, S.K., J.C. Parker and H.W. Holcomb, Jr. 1974. Control of Zoothamnium on penaeid shrimp. Proc. World Maricul. Soc. 4: 321-331.

Lawrence, A.L., Y. Akamine, B.S. Middleditch, G. Chamberlain and D. Hutchins. 1980. Maturation and reproduction of Penaeus setiferus in captivity. Proc. World Maricul. Soc. 11: 481-487.

Lawrence, A.L., D.G. Ward, S. Missler, A. Brown, J. McVey and B.S. Middleditch. 1979. Organ indices and biochemical levels of ova from penaeid shrimp maintained in captivity versus those captured in the wild. Proc. World Maricul. Soc. 10: 453-463.

Lewis, D.H. 1976. Isolation and characterization of serologic components from shrimp hemolymph. Texas Acad. Sci. 78th Annu. Meeting, Huntsville, Texas. Abstract.

Lewis, D.H. 1981. Serologic response of shrimp to vibrio bacterins. Proc. World Maricul. Soc. 12, accepted for publication.

Middleditch, B.S., S.R. Missler, D.G. Ward, J.B. McVey, A. Brown and A.L. Lawrence. 1979. Maturation of penaeid shrimp: dietary fatty acids. Proc. World Maricul. Soc. 10: 472-476.

Middleditch, B.S., S.R. Missler, H.B. Hines, J.P. McVey, A. Brown, D.G. Ward and A.L. Lawrence. 1980. Metabolic profiles of penaeid shrimp: dietary lipids and ovarian maturation. J. Chromatog. 195: 359-368.

Parker, J.C. 1969. Texas tries fish farming. Texas Agric. Prog. 15(3): 3.

Parker, J.C. 1974a. Shrimp: coastal crop for Texas. The University and the Sea 6(5): 6-8.

Parker, J.C. 1974b. Shrimp harvest largest ever. The University and the Sea 7(2): 15-18.

Parker, J.C. 1975. Project report -- shrimp culture demonstration. Submitted to Grantor, Booth Fisheries. January 1975. 23 p.

Parker, J.C. 1978. Project report -- penaeid shrimp mariculture program. Texas A&M Univ. Sea Grant College Program.

Parker, J.C. and H.W. Holcomb, Jr. 1973. Growth and production of brown and white shrimp (Penaeus aztecus and Penaeus setiferus) from experimental ponds in Brazoria and Orange Counties, Texas. Proc. World Maricul. Soc. 3: 287-297.

Rubright, J.S. 1981. Responses of naturally occurring communities to fertilizer and feed applications in shrimp mariculture ponds. Proc. World Maricul. Soc. 12, accepted for publication.