26884
Intake -
J.R Whiting

REPORT OF DETERRENT NET PERFORMANCE

J R WHITING PLANT

PREPARED BY

CONSUMERS POWER COMPANY

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RP0688-33JAG-EN03

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I. INTRODUCTION

The Water Resources Commission (WRC) Final Order No. 2010 issued on July 19, 1982 requires the installation of a deterrent net as the best technology available to minimize environmental impact at the J R Whiting Plant. The order also required monitoring, verification and reporting of deterrent net performance beginning in October 1982.

Based on the demonstrated and reported performance of the deterrent net since 1982, the Commission has found that the deterrent net continues to be the best technology available for minimizing environmental impact at J R Whiting. This 1987 annual report of J R Whiting deterrent net performance covers the period from January 2, 1987 through December 30, 1987.

II

A. 1987 IMPINGEMENT RESULTS

TABLE 1

MONTHLY FISH IMPINGEMENT SUMMARY

J R WHITING PLANT

TOTAL NUMBER IMPINGED FROM JANUARY - DECEMBER 1987

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
Gizzard Shad	32,007	8,718	773	2,862	1,482	246	105	86	231	2,265	53	23,600	72,428
Yellow Perch	19	18	438	120	11	16	3	2	2	6	94	163	892
Emerald Shiner	17	0	102	67	12	88	84	167	157	3,983	159	639	5,475
Spottail Shiner	5	0	26	15	7	12	2	10	1	0	14	37	129
Freshwater Drum	11	8	94	53	29	114	27	48	60	303	68	71	886
White Bass	12	7	32	4	2	13	3	6	54	31	39	66	269
Carp/Goldfish	20	22	21	8	6	2	1	2	0	3	17	20	122
Channel Catfish	2	4	30	4	1	5	7	18	11	116	34	18	250
White Perch	29	38	313	18	6	18	3	21	5	552	340	354	1,697
Sunfishes	1	10	29	34	22	24	3	4	13	48	54	48	290
Crappie	13	5	20	10	1	4	3	1	1	15	32	76	181
Walleye	0	0	0	0	3	1	0	1	0	2	0	2	9
Bullheads	4	4	16	11	5	12	1	0	1	7	2	4	67
Others	11	2	85	28	4	7	6	3	6	6	12	7	177
Total	32,151	8,836	1,979	3,234	1,591	562	248	369	542	7,337	918	25,105	82,872

TABLE 2

MONTHLY FISH IMPINGEMENT SUMMARY

J R WHITING PLANT

TOTAL WEIGHT (KG) IMPINGED FROM JANUARY - DECEMBER 1987

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
Gizzard Shad	800.12	435.94	38.66	143.12	74.11	18.46	19.99	6.48	11.57	56.63	65.60	590.06	2260.74
Yellow Perch	1.20	1.00	25.74	6.11	.51	.39	.08	.15	.08	.50	5.30	8.84	49.90
Emerald Shiner	.01	0	.60	.32	.06	.35	.25	.69	.73	19.98	.81	3.21	27.01
Spottail Shiner	.03	0	.17	.10	.03	.08	.01	.06	.01	0	.11	.30	.90
Freshwater Drum	.19	.12	2.20	3.22	2.64	9.21	1.21	2.90	4.75	9.92	4.26	3.96	44.58
White Bass	.34	.05	1.41	.12	.30	1.02	.13	1.43	5.08	.85	.89	2.60	14.22
Carp/Goldfish	1.56	.96	1.48	.63	1.92	.93	.01	.82	0	1.75	4.31	3.30	17.67
Channel Catfish	.13	.06	1.31	.02	.01	.05	.22	.39	.22	1.89	.30	.14	4.74
White Perch	.18	.29	3.02	1.15	.45	.60	.06	.60	.14	7.06	2.90	2.87	19.32
Sunfishes	.18	.37	1.90	2.58	1.76	1.52	.07	.16	.98	2.64	2.97	2.62	17.75
Crappie	1.78	.16	4.48	1.62	.01	.46	.10	.10	.12	.82	1.05	3.84	14.54
Walleye	0	0	0	0	.33	.30	0	.01	0	.20	0	.08	.92
Bullheads	.76	1.74	3.50	2.80	1.11	2.10	.08	0	.27	1.06	.65	.43	14.50
Others	.67	.02	2.17	.72	.91	.36	.60	.28	.88	.81	.16	.27	7.85
Total	807.01	440.71	86.37	162.51	84.15	35.83	22.81	14.07	24.83	104.11	89.30	622.52	2494.64

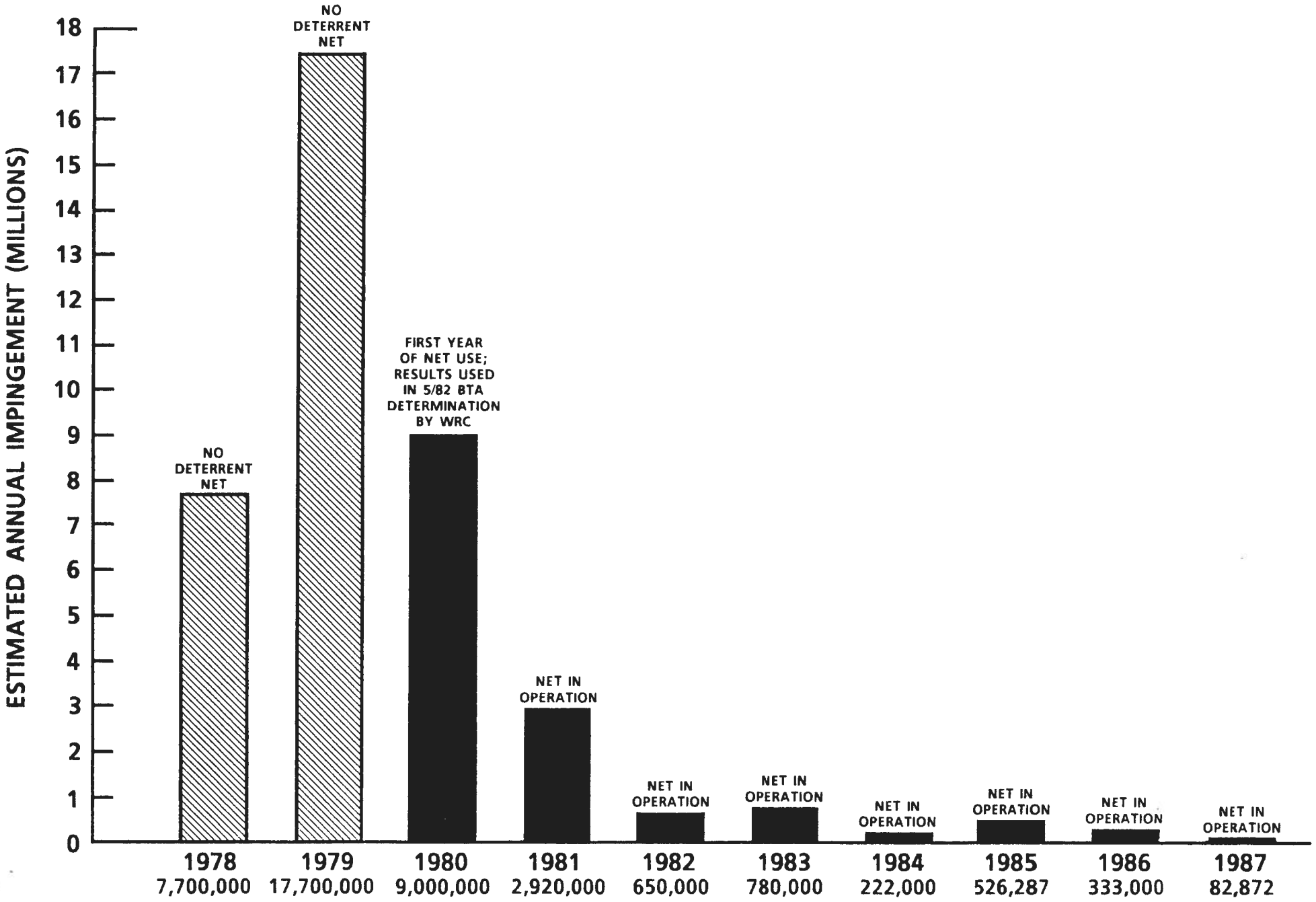

FIGURE 1 ESTIMATED ANNUAL FISH IMPINGEMENT OF ALL SPECIES AT CONSUMERS POWER COMPANY'S J. R. WHITING PLANT, 1978 - 1987

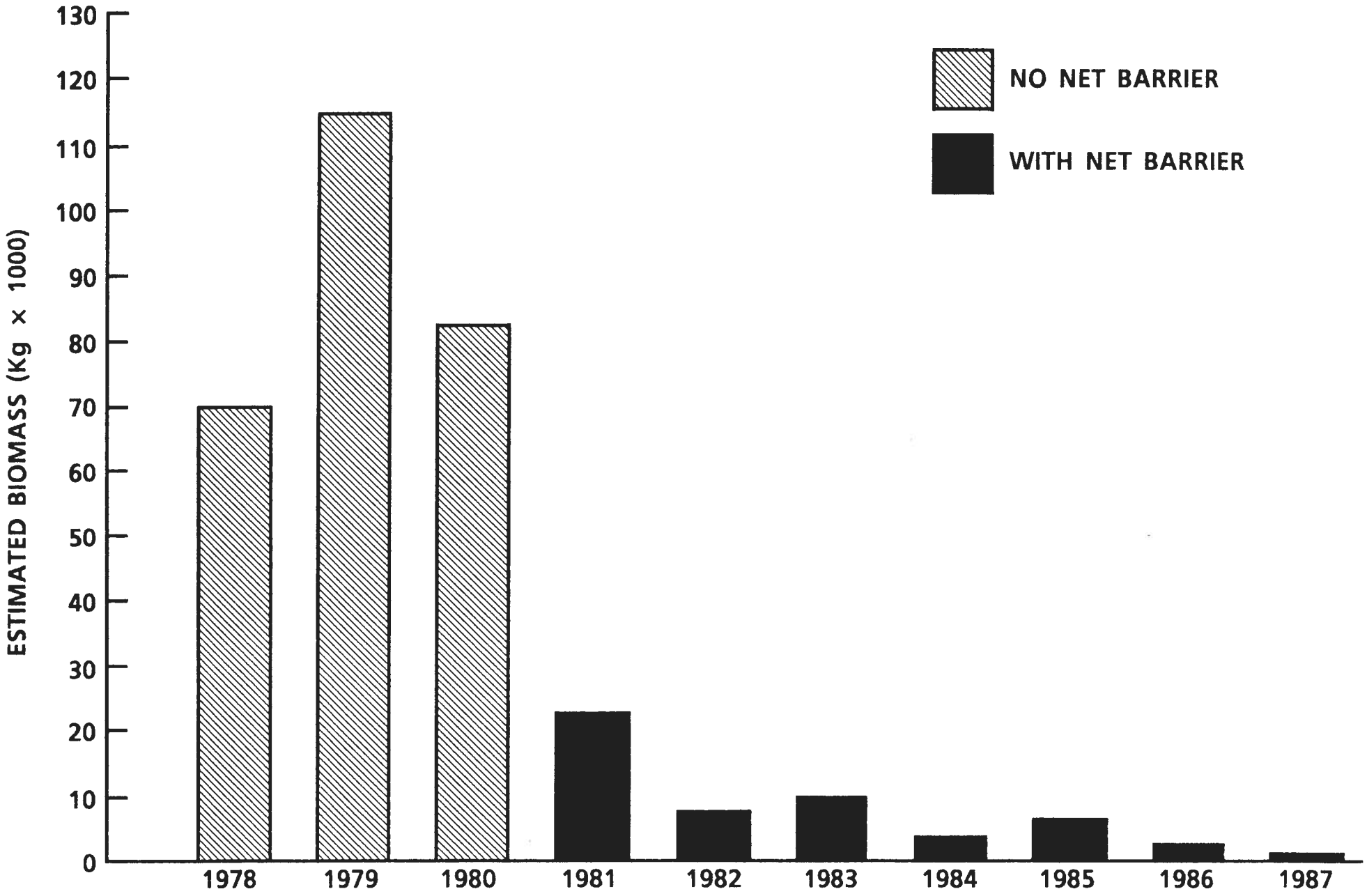

FIGURE 2 ESTIMATED IMPINGEMENT (BIOMASS - Kg.) AT THE J. R. WHITING PLANT, 1978 - 1987