

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

FILE NUMBER ENVIRO

TO: Mr. D.L. Ziemann

FROM: Arkansas Power & Light Co. Little Rock, Ark. 72203 Wm. Cavanaugh III

DATE OF DOCUMENT 4-30-76

DATE RECEIVED 5-3-76

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DESCRIPTION Ltr trans the following:

ENCLOSURE Monthly Report of Fish Impingement at Arkansas Nuclear One Unit One plant for March 1976. (40 cys encl rec'd)

THIS DOCUMENT CONTAINS POOR QUALITY PAGES

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ACKNOWLEDGED

PLANT NAME: Ark. 1

Table with columns: SAFETY, FOR ACTION/INFORMATION, ENVIRO, DHL 5-4-76. Rows include ASSIGNED AD, BRANCH CHIEF (Ziemann), PROJECT MANAGER, LIC. ASST. (Diggs + ALLY EXTRA CYS).

INTERNAL DISTRIBUTION table with columns: REG FILE, SYSTEMS SAFETY, PLANT SYSTEMS, ENVIRO TECH. Rows list various personnel like HEINEMAN, SCHROEDER, MIPIC, etc.

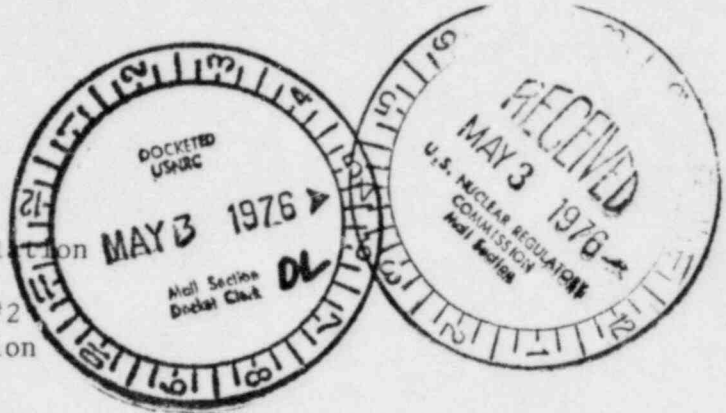
EXTERNAL DISTRIBUTION table with columns: NATL LAB - ORNL, BROOKHAVEN NATL LAB, CONTROL NUMBER. Includes handwritten notes like 'Russellville, Ark' and '8004 290607'.



ARKANSAS POWER & LIGHT COMPANY

9TH & LOUISIANA STREETS • LITTLE ROCK, ARKANSAS 72203 • (501) 371-4000

April 30, 1976



Director of Nuclear Reactor Regulation
ATTN: Mr. D. L. Ziemann, Chief
Operating Reactor Branch #2
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Subject: Arkansas Power & Light Company
Arkansas Nuclear One-Unit 1
Docket No. 50-313
License No. DPR-51
Intake Impingement Data

Dear Mr. Ziemann:

Attached are the results of impingement monitoring at the intake of Arkansas Nuclear One-Unit 1 during the month of March 1976. This is being submitted per Environmental Technical Specification 4.1.2.a(2).

Very truly yours,

William Cavanaugh III
Manager, Nuclear Services

WC:aj

Attachment

4377



MONTHLY REPORT OF FISH IMPINGEMENT

AT

ARKANSAS NUCLEAR ONE - UNIT ONE

Received #/Ltr Dated 4-30-76

The period covered by this report is the month of March, 1976. Twenty-four hour samples were taken three times weekly while the unit was in operation. The plant went off line March 19, and the cooling water pumps were shut down about March 24, 1976.

Reservoir water temperature, monitored at the inlet water boxes, ranged from 53°F to 59°F with an average for the period of 55.5°F.

Impinged biomass levels ranged from 8.9 pounds to 114.4 pounds per twenty-four hour period. These samples contained 172 and 2441 individuals, respectively.

Threadfin and Gizzard Shad dominated the impingement samples, characteristically accounting for 80-96 percent of the impinged biomass. In the majority of the samples large Gizzard Shad accounted for a substantial amount of the biomass.

The rise in impingement levels (primarily Gizzard Shad) that occurred March 5 through 18, may be associated with early spawning mortality. Gravid Gizzard Shad were collected during this period, when reservoir water temperature was rising. These fish were adults, most belonging to the 180-210 MM size class, and are known to spawn under these conditions. The early part of March also had a substantial amount of rain which generated rising water levels in the reservoir and a considerable amount of trash which is reflected in the total sample weight for mid month. These factors may have also contributed to this rise in impingement.

ARKANSAS POWER & LIGHT COMPANY
AND SCREEN MONITORING

RUN DATE: 04/13/76

SAMPLE TAKEN: 03-02-76
INCLUSIVE TIME
OF SAMPLE: 24 HRS
INLET WATERBOX
TEMPERATURE: 55 F
AIR CURTAIN
STATUS: OFF
NUMBER OF CIRCULATING
PUMPS IN OPERATION: 4
24 HOUR TOTAL
SAMPLE COUNT: 328
24 HOUR TOTAL
SAMPLE WEIGHT: 20.6 LBS

| SPECIES NAME | SPECIES 24 HR TOTAL WEIGHT (LBS) | SPECIES 24 HR TOTAL COUNT | MAXIMUM LENGTH (MM) | MODAL LENGTH (MM) | # | MODAL WEIGHT (GR) | # |
|------------------|-------------------------------------|------------------------------|------------------------|----------------------|----|----------------------|--------|
| GIZZARD SHAD | 14.81 | 89. | 244 | 210 TO 240 | 9 | 0 TO 5 | 3 12* |
| THREADFIN SHAD | 4.56 | 188. | 154 | 90 TO 120 | 22 | 10 TO 15 | 12 46* |
| FRESHWATER DRUM | 0.53 | 16. | 188 | 120 TO 150 | 7 | 10 TO 15 | 6 38* |
| BLUE CATFISH | 0.25 | 16. | 138 | 90 TO 120 | 14 | 5 TO 10 | 10 63* |
| CHANNEL CATFISH | 0.14 | 5. | 177 | 60 TO 90 | 2 | 0 TO 5 | 2 40* |
| RIVER SHINER | 0.15 | 10. | 117 | 90 TO 120 | 7 | 5 TO 10 | 6 60* |
| FLATHEAD CATFISH | 0.01 | 1. | 81 | 60 TO 90 | 1 | 0 TO 5 | 1 100* |
| WHITE BASS | 0.08 | 1. | 151 | 150 TO 180 | 1 | 35 TO 40 | 1 100* |
| LONGEAR SUNFISH | 0.04 | 1. | 9 | 90 TO 120 | 1 | 15 TO 20 | 1 100* |
| WHITE CRAPPIE | 0.25 | 1. | 212 | 210 TO 240 | 1 | 110 TO 115 | 1 100* |

* TOTAL SAMPLE WT. INCLUDES 0.0 LBS OF DEBRIS ACCUMULATION.

ARKANSAS POWER & LIGHT COMPANY
AND SCREEN MONITORING

RUN DATE: 04/13/76

| SPECIES NAME | SPECIES 24 HR TOTAL WEIGHT (LBS) | AIR CURTAIN STATUS: OFF | SPECIES 24 HR TOTAL COUNT | NUMBER OF CIRCULATING PUMPS IN OPERATION: 4 | 24 HOUR TOTAL SAMPLE COUNT: | 2394 | MODAL LENGTH (MM) | | MAXIMUM LENGTH (MM) | MODAL WEIGHT (GR) | | 24 HOUR TOTAL * SAMPLE WEIGHT: 91.4 LBS |
|------------------------|-------------------------------------|----------------------------|------------------------------|--|--------------------------------|------|-------------------|------------|------------------------|-------------------|----------|--|
| | | | | | | | 90 TO 120 | 120 TO 150 | | 5 TO 10 | 10 TO 30 | |
| THREADFIN SHAD | 32.00 | | 1608. | | | | 90 TO 120 | 33 | 80% | 70 TO 75 | 6 | 19% |
| GIZZARD SHAD | 54.25 | | 631. | | | | 180 TO 210 | 16 | 52% | 15 TO 20 | 8 | 31% |
| FRESHWATER DRUM | 3.25 | | 76. | | | | 120 TO 150 | 11 | 42% | 35 TO 40 | 1 | 50% |
| CHESTNUT LAMPREY | 0.19 | | 2. | | | | 240 TO 270 | 1 | 50% | 5 TO 10 | 3 | 50% |
| STRIPED BASS | 0.14 | | 6. | | | | 90 TO 120 | 6 | 100% | 0 TO 5 | 2 | 40% |
| CHANNEL CATFISH | 0.09 | | 6. | | | | 60 TO 90 | 3 | 50% | 5 TO 10 | 1 | 100% |
| BLUE CATFISH | 0.33 | | 5. | | | | 60 TO 90 | 2 | 40% | 0 TO 5 | 2 | 100% |
| WHITE BASS | 0.02 | | 1. | | | | 90 TO 120 | 1 | 100% | 25 TO 30 | 1 | 100% |
| MISSISSIPPI SILVERSIDE | 0.02 | | 2. | | | | 60 TO 90 | 1 | 50% | 0 TO 5 | 1 | 50% |
| WARMOUTH BASS | 0.06 | | 1. | | | | 90 TO 120 | 1 | 100% | 0 TO 5 | 3 | 100% |
| LONGEAR SUNFISH | 0.03 | | 2. | | | | 30 TO 60 | 1 | 50% | 0 TO 5 | 5 | 67% |
| GOLDEN SHINER | 0.02 | | 3. | | | | 60 TO 90 | 3 | 100% | 0 TO 5 | 5 | 71% |
| BLUEGILL SUNFISH | 0.26 | | 12. | | | | 30 TO 60 | 6 | 50% | 0 TO 5 | 5 | 63% |
| WHITE CRAPPIE | 0.36 | | 7. | | | | 60 TO 90 | 6 | 86% | 0 TO 5 | 5 | 50% |
| RIVER SHINER | 0.42 | | 32. | | | | 90 TO 120 | 20 | 63% | 0 TO 5 | 16 | |

* TOTAL SAMPLE WT. INCLUDES 0.0 LBS OF DEBRIS ACCUMULATION.

ARKANSAS PUMP AND SCREEN MONITORING

24 HOUR TOTAL #
SAMPLE WEIGHT: 24.1 LBS

376

24 HOUR TOTAL
CIRCULATING PUMPS IN OPERATION: 4 SAMPLE COUNT:

SAMPLE TAKEN: 03-03-76
INLET WATERBOX
TEMPERATURE: 56 F
INCLUSIVE TIME
SAMPLES: 24 HRS

AIR CURTAIN
STATUS: OFF

| SPECIES NAME | SPECIES 24 HR TOTAL WEIGHT (LBS) | SPECIES 24 HR TOTAL COUNT | 90 TO 120 | 120 TO 150 | 150 TO 180 | 180 TO 210 | 210 TO 240 | 24 TO 28 |
|------------------------|-------------------------------------|------------------------------|-----------|------------|------------|------------|--------------|----------|
| TRUMPET TAIL SHAD | 5.63 | 241 | 155 | 90 TO 120 | 21 | 78* | 5 TO 10 | 12 44* |
| GIZZARD SHAD | 14.56 | 92 | 232 | 180 TO 210 | 11 | 42* | 0 TO 5 | 4 15* |
| FRESHWATER DRUM | 1.05 | 14 | 350 | 90 TO 120 | 7 | 50* | 5 TO 10 | 4 29* |
| BLUE CATFISH | 0.25 | 13 | 165 | 90 TO 120 | 7 | 54* | 5 TO 10 | 7 54* |
| CHANNEL CATFISH | 0.03 | 4 | 100 | 60 TO 90 | 3 | 75* | 0 TO 5 | 3 75* |
| SMALLMOUTH BUFFALO | 2.44 | 1 | 424 | 420 TO 450 | 1 | 100* | 1105 TO 1110 | 1 100* |
| WHITE CRAPPIE | 0.06 | 1 | 136 | 120 TO 150 | 1 | 100* | 25 TO 30 | 1 100* |
| BLUEGILL SUNFISH | 0.02 | 3 | 75 | 30 TO 60 | 2 | 67* | 0 TO 5 | 2 67* |
| GOLDEN SHINER | 0.01 | 1 | 69 | 60 TO 90 | 1 | 100* | 0 TO 5 | 1 100* |
| STRIPED BASS | 0.01 | 1 | 93 | 90 TO 120 | 1 | 100* | 5 TO 10 | 1 100* |
| SKIPJACK HERRING | 0.02 | 1 | 121 | 120 TO 150 | 1 | 100* | 5 TO 10 | 1 100* |
| MISSISSIPPI SILVERSIDE | 0.01 | 1 | 97 | 90 TO 120 | 1 | 100* | 0 TO 5 | 1 100* |
| RIVER SHINER | 0.04 | 3 | 101 | 90 TO 120 | 2 | 67* | 5 TO 10 | 2 67* |

* TOTAL SAMPLE WT. INCLUDES 0.0 LBS OF DEBRIS ACCUMULATION.

ARKANSAS POWER & LIGHT COMPANY
AND SCREEN MONITORING

RUN DATE: 04/13/76

SAMPLE TAKEN: 03-09-76
INCLUSIVE TIME
OF SAMPLE: 24 HRS
INLET WATERBOX
TEMPERATURE: 55 F
NUMBER OF CIRCULATING
PUMPS IN OPERATION: 4
AIR CURTAIN
STATUS: OFF
SPECIES 24 HR
TOTAL WEIGHT (LBS)
36.15
73.87
2.10
0.55
0.96
0.08
0.04
0.01
0.67
0.02

24 HOUR TOTAL *
SAMPLE WEIGHT: 269.4 LBS
2441
24 HOUR TOTAL
SAMPLE COUNT:
4
2441

| SPECIES NAME | SPECIES 24 HR TOTAL WEIGHT (LBS) | AIR CURTAIN STATUS: OFF | SPECIES 24 HR TOTAL COUNT | MAXIMUM LENGTH (MM) | MODAL LENGTH (MM) | MODAL WEIGHT (GR) | # | 24 HOUR TOTAL * SAMPLE WEIGHT: 269.4 LBS |
|------------------------|-------------------------------------|----------------------------|------------------------------|------------------------|----------------------|----------------------|----|---|
| THREADFIN SHAD | 36.15 | | 1724. | 123 | 90 TO 120 | 5 TO 10 | 43 | 73* |
| GIZZARD SHAD | 73.87 | | 571. | 228 | 180 TO 210 | 20 TO 25 | 9 | 17* |
| FRESHWATER DRUM | 2.10 | | 74. | 179 | 90 TO 120 | 10 TO 15 | 15 | 37* |
| RIVER SHINER | 0.55 | | 32. | 110 | 90 TO 120 | 5 TO 10 | 17 | 94* |
| BLUE CATFISH | 0.96 | | 23. | 245 | 90 TO 120 | 0 TO 5 | 5 | 38* |
| BLUEGILL SUNFISH | 0.08 | | 4. | 105 | 30 TO 60 | 0 TO 5 | 1 | 50* |
| WHITE CRAPPIE | 0.04 | | 4. | 88 | 60 TO 90 | 0 TO 5 | 1 | 50* |
| CHANNEL CATFISH | 0.01 | | 2. | 75 | 60 TO 90 | 0 TO 5 | 1 | 100* |
| CHESTNUT LAMPREY | 0.67 | | 5. | 317 | 240 TO 270 | 40 TO 45 | 1 | 33* |
| MISSISSIPPI SILVERSIDE | 0.02 | | 2. | 112 | 90 TO 120 | 5 TO 10 | 1 | 100* |

* TOTAL SAMPLE WT. INCLUDES 155.0 LBS OF DEBRIS ACCUMULATION.

ARKANSAS POWER & LIGHT COMPANY
AND SCREEN MONITORING

RUN DATE: 04/13/76

| SAMPLE TAKEN: 03-10-76 | INLET WATERBOX TEMPERATURE: 55 F | AIR CURTAIN STATUS: OFF | SPECIES 24 HR TOTAL COUNT | NUMBER OF CIRCULATING PUMPS IN OPERATION: 4 | 24 HOUR TOTAL SAMPLE COUNT: 1572 | 24 HOUR TOTAL SAMPLE WEIGHT: 207.7 LBS |
|---|----------------------------------|---------------------------|---------------------------|---|----------------------------------|--|
| SAMPLE INCLUSIVE TIME OF SAMPLE: 24 HRS | SPECIES 24 HR TOTAL WEIGHT (LBS) | SPECIES 24 HR TOTAL COUNT | MAXIMUM LENGTH (MM) | MODAL LENGTH (MM) | MODAL WEIGHT (GR) | # |
| THREADFIN SHAD | 24.40 | 1156. | 116 | 90 TO 120 | 5 TO 10 | 41 71% |
| GIZZARD SHAD | 29.94 | 255. | 237 | 180 TO 210 | 0 TO 5 | 9 17% |
| FRESHWATER DRUM | 5.62 | 119. | 196 | 90 TO 120 | 10 TO 15 | 15 29% |
| BLUE CATFISH | 0.08 | 6. | 109 | 90 TO 120 | 5 TO 10 | 3 75% |
| RIVER SHINER | 0.28 | 19. | 108 | 90 TO 120 | 5 TO 10 | 10 71% |
| GOLDEN SHINER | 0.02 | 3. | 94 | 60 TO 90 | 0 TO 5 | 2 100% |
| WHITE CRAPPIE | 0.03 | 3. | 90 | 60 TO 90 | 0 TO 5 | 1 50% |
| BLUEGILL SUNFISH | 0.02 | 1. | 79 | 60 TO 90 | 5 TO 10 | 1 100% |
| CHANNEL CATFISH | 0.02 | 3. | 81 | 60 TO 90 | 0 TO 5 | 2 100% |
| LONGEAR SUNFISH | 0.07 | 1. | 101 | 90 TO 120 | 20 TO 25 | 1 100% |
| CHESTNUT LAMPREY | 0.36 | 3. | 285 | 240 TO 270 | 50 TO 55 | 1 50% |
| SKIPJACK HERRING | 0.03 | 1. | 114 | 90 TO 120 | 5 TO 10 | 1 100% |

* TOTAL SAMPLE WT. INCLUDES 146.8 LBS OF DEBRIS ACCUMULATION.

ARKANSAS POWER & LIGHT COMPANY
AND SCREEN MONITORING

RUN DATE: 04/13/76

24 HOUR TOTAL *
SAMPLE WEIGHT: 107.8 LBS

| SAMPLE TAKEN: 03-11-76 INCLUSIVE TIME OF SAMPLE: 24 HRS | INLET WATERBOX TEMPERATURE: 55 F | AIR CURTAIN STATUS: OFF | SPECIES 24 HR TOTAL COUNT | NUMBER OF CIRCULATING PUMPS IN OPERATION: 4 | 24 HOUR TOTAL SAMPLE COUNT: | 2424 | MODAL LENGTH(MM) | MODAL LENGTH(MM) | MODAL WEIGHT(GR) | # | MODAL WEIGHT(GR) | # |
|---|-------------------------------------|----------------------------|------------------------------|--|--------------------------------|------|---------------------|---------------------|---------------------|----|---------------------|------|
| SPECIES NAME | SPECIES 24 HR TOTAL WEIGHT(LBS) | | | | | | | | | | | |
| THREADFIN SHAD | 30.94 | 1523. | 147 | 90 TO 120 | 105 | 92* | 90 TO 120 | 105 | 5 TO 10 | 74 | 65* | 9 |
| GIZZARD SHAD | 72.81 | 790. | 232 | 180 TO 210 | 37 | 35* | 180 TO 210 | 37 | 70 TO 75 | 11 | 10* | 10* |
| MISSISSIPPI SILVERSIDE | 0.02 | 1. | 108 | 90 TO 120 | 13 | 59* | 90 TO 120 | 13 | 0 TO 5 | 1 | 100* | 100* |
| RIVERSHINER | 0.34 | 24. | 107 | 90 TO 120 | 13 | 59* | 90 TO 120 | 13 | 5 TO 10 | 15 | 68* | 68* |
| SKIPJACK HERRING | 0.57 | 2. | 295 | 270 TO 300 | 2 | 100* | 270 TO 300 | 2 | 215 TO 220 | 1 | 50* | 50* |
| GOLDEN SHINER | 0.04 | 7. | 85 | 60 TO 90 | 6 | 100* | 60 TO 90 | 6 | 0 TO 5 | 6 | 100* | 100* |
| STRIPED BASS | 0.08 | 2. | 142 | 90 TO 120 | 1 | 50* | 90 TO 120 | 1 | 5 TO 10 | 1 | 50* | 50* |
| BLUEGILL SUNFISH | 0.02 | 5. | 67 | 30 TO 60 | 4 | 80* | 30 TO 60 | 4 | 0 TO 5 | 5 | 100* | 100* |
| WHITE CRAPPIE | 0.21 | 4. | 184 | 90 TO 120 | 2 | 50* | 90 TO 120 | 2 | 5 TO 10 | 2 | 50* | 50* |
| BLUE CATFISH | 0.05 | 3. | 128 | 60 TO 90 | 1 | 33* | 60 TO 90 | 1 | 0 TO 5 | 1 | 33* | 33* |
| FRESHWATER DRUM | 1.88 | 63. | 172 | 90 TO 120 | 41 | 67* | 90 TO 120 | 41 | 10 TO 15 | 28 | 46* | 46* |
| CHANNEL CATFISH | 0.07 | 1. | 166 | 150 TO 180 | 1 | 100* | 150 TO 180 | 1 | 30 TO 35 | 1 | 100* | 100* |

* TOTAL SAMPLE WT. INCLUDES 0.0 LBS OF DEBRIS ACCUMULATION.

ARKANSAS POWER & LIGHT COMPANY
AND SCREEN MONITORING

RUN DATE: 04/13/76

| SPECIES NAME | SPECIES 24 HR TOTAL WEIGHT (LBS) | AIR CURTAIN STATUS | NUMBER OF PUMPS IN OPERATION | 24 HOUR TOTAL SAMPLE COUNT | 24 HOUR TOTAL SAMPLE WEIGHT |
|------------------------|----------------------------------|--------------------|------------------------------|----------------------------|-----------------------------|
| FRESHWATER DRUM | 4.81 | 191. | 172 | 120 TO 150 13 | 50% |
| THREADFIN SHAD | 31.94 | 1341. | 123 | 90 TO 120 37 | 97% |
| GIZZARD SHAD | 18.00 | 248. | 268 | 90 TO 120 10 | 37% |
| SAUGER | 0.70 | 1. | 346 | 330 TO 360 1 | 100% |
| STRIPED BASS | 0.13 | 5. | 125 | 90 TO 120 4 | 80% |
| RIVERSHINER | 0.50 | 30. | 114 | 90 TO 120 16 | 62% |
| BLUEGILL SUNFISH | 0.27 | 10. | 119 | 30 TO 60 11 | 58% |
| GOLDEN SHINER | 0.05 | 7. | 85 | 60 TO 90 7 | 100% |
| WHITE CRAPPIE | 0.44 | 17. | 211 | 60 TO 90 12 | 71% |
| MISSISSIPPI SILVERSIDE | 0.02 | 2. | 112 | 90 TO 120 2 | 100% |
| LONGEAD SUNFISH | 0.02 | 4. | 64 | 30 TO 60 3 | 75% |
| GREEN SUNFISH | 0.01 | 1. | 71 | 60 TO 90 1 | 100% |
| SKIPJACK HERRING | 0.07 | 2. | 138 | 120 TO 150 2 | 100% |
| BLUE CATFISH | 0.67 | 29. | 171 | 90 TO 120 16 | 62% |
| GOLDEYE | 0.10 | 1. | 172 | 150 TO 180 1 | 100% |
| CHANNEL CATFISH | 1.13 | 50. | 298 | 60 TO 90 19 | 73% |
| CHESTNUT LAMPREY | 0.11 | 1. | 275 | 270 TO 300 1 | 100% |
| EMERALD SHIMP | 0.01 | 1. | 97 | 90 TO 120 1 | 100% |

* TOTAL SAMPLE WT. INCLUDES 0.0 LBS OF DEBRIS ACCUMULATION.

ARKANSAS POWER & LIGHT COMPANY
AND SCREEN MONITORING

RUN DATE: 04/13/76

| SPECIES NAME | SPECIES 24 HR TOTAL WEIGHT (LBS) | SPECIES 24 HR TOTAL COUNT | MAXIMUM LENGTH (MM) | MODAL LENGTH (MM) | NUMBER OF CIRCULATING PUMPS IN OPERATION | 24 HOUR TOTAL SAMPLE COUNT | 24 HOUR TOTAL SAMPLE WEIGHT | MODAL WEIGHT (GR) | # | 24 HOUR TOTAL SAMPLE WEIGHT |
|------------------------|----------------------------------|---------------------------|---------------------|-------------------|--|----------------------------|-----------------------------|-------------------|------|-----------------------------|
| | | | | | | | | | | |
| THREADFISH SHAD | 27.19 | 1176. | 123 | 90 TC 120 | 32 | 89* | 5 TO 10 | 21 | 58* | 65.3 LBS |
| FRESHWATER DRUM | 7.50 | 253. | 201 | 90 TO 120 | 14 | 52* | 10 TO 15 | 8 | 30* | |
| GIZZARD SHAD | 25.19 | 321. | 223 | 120 TO 150 | 8 | 29* | 15 TO 20 | 4 | 14* | |
| SMALLMOUTH BUFFALO | 1.86 | 1. | 397 | 390 TO 420 | 1 | 100* | 845 TO 850 | 1 | 100* | |
| WHITE CRAPPIE | 1.63 | 13. | 337 | 60 TO 90 | 10 | 77* | 0 TO 5 | 9 | 69* | |
| STRIPED BASS | 0.22 | 8. | 144 | 90 TO 120 | 7 | 88* | 10 TO 15 | 5 | 63* | |
| BLUE CATFISH | 0.81 | 44. | 159 | 90 TO 120 | 22 | 85* | 5 TO 10 | 14 | 54* | |
| CHANNEL CATFISH | 0.38 | 44. | 93 | 60 TO 90 | 23 | 88* | 0 TO 5 | 23 | 88* | |
| BLUEGILL SUNFISH | 0.17 | 19. | 115 | 30 TO 60 | 13 | 68* | 0 TO 5 | 17 | 89* | |
| GOLDFISH | 0.02 | 2. | 83 | 60 TO 90 | 2 | 100* | 0 TO 5 | 2 | 100* | |
| RIVER SHINER | 0.15 | 11. | 102 | 90 TC 120 | 7 | 64* | 5 TO 10 | 6 | 55* | |
| WHITE BASS | 0.03 | 1. | 114 | 90 TO 120 | 1 | 100* | 10 TO 15 | 1 | 100* | |
| FLATHEAD CATFISH | 0.01 | 1. | 75 | 60 TC 90 | 1 | 100* | 0 TO 5 | 1 | 100* | |
| SKIPJACK HERRING | 0.03 | 1. | 136 | 120 TO 150 | 1 | 100* | 15 TO 20 | 1 | 100* | |
| LONGEAR SUNFISH | 0.01 | 3. | 49 | 30 TO 60 | 3 | 100* | 0 TO 5 | 3 | 100* | |
| MISSISSIPPI SILVERSIDE | 0.02 | 2. | 106 | 90 TO 120 | 2 | 100* | 0 TO 5 | 2 | 100* | |

* TOTAL SAMPLE WT. INCLUDES 0.0 LBS OF DEBRIS ACCUMULATION.

SAMPLE TAKEN: 03-18-76
INCLUSIVE TIME
OF SAMPLE: 24 HRS
INLET WATERBOX
TEMPERATURE: 53 F
AIR CURTAIN
STATUS: OFF
NUMBER OF CIRCULATING
PUMPS IN OPERATION: 4
24 HOUR TOTAL
SAMPLE COUNT: 1960
24 HOUR TOTAL *
SAMPLE WEIGHT: 66.4 LBS

| SPECIES NAME | SPECIES 24 HR TOTAL WEIGHT (LBS) | SPECIES 24 HR TOTAL COUNT | MAXIMUM LENGTH (MM) | MODAL LENGTH (MM) | # | MODAL WEIGHT (GR) | # |
|------------------------|-------------------------------------|------------------------------|------------------------|----------------------|----|----------------------|-------------------|
| FRESHWATER DRUM | 7.13 | 270. | 208 | 90 TO 120 | 45 | 658 | 5 TO 10 35 518 |
| THREADFIN SHAD | 25.69 | 1092. | 160 | 90 TO 120 | 80 | 958 | 5 TO 10 56 678 |
| GIZZARD SHAD | 27.13 | 332. | 235 | 90 TO 120 | 21 | 278 | 5 TO 10 18 238 |
| BLUE CATFISH | 2.56 | 148. | 168 | 90 TO 120 | 42 | 758 | 5 TO 10 30 548 |
| CHANNEL CATFISH | 0.88 | 46. | 295 | 60 TO 90 | 37 | 808 | 0 TO 5 38 838 |
| WHITE CRAPPIE | 0.22 | 10. | 144 | 60 TO 90 | 8 | 808 | 0 TO 5 5 508 |
| STRIPED BASS | 0.30 | 11. | 138 | 90 TO 120 | 10 | 918 | 10 TO 15 5 458 |
| GOLDEN SHINER | 0.05 | 5. | 105 | 60 TO 90 | 4 | 808 | 0 TO 5 4 808 |
| BLUEGILL SUNFISH | 0.20 | 15. | 147 | 30 TO 60 | 10 | 678 | 0 TO 5 14 938 |
| SKIPJACK HERRING | 0.08 | 2. | 147 | 120 TO 150 | 2 | 1008 | 10 TO 15 1 508 |
| WHITE BASS | 0.11 | 2. | 168 | 90 TO 120 | 1 | 508 | 10 TO 15 1 508 |
| CHESTNUT LAMPREY | 0.42 | 3. | 306 | 300 TO 330 | 2 | 678 | 50 TO 55 1 338 |
| RIVER SHINER | 0.25 | 19. | 105 | 60 TO 90 | 11 | 588 | 0 TO 5 10 538 |
| WAGMOUTH BASS | 0.02 | 1. | 85 | 60 TO 90 | 1 | 1008 | 10 TO 15 1 1008 |
| GREEN SUNFISH | 0.02 | 1. | 83 | 60 TO 90 | 1 | 1008 | 5 TO 10 1 1008 |
| EUROPEAN CARP | 1.25 | 1. | 372 | 360 TO 390 | 1 | 1008 | 565 TO 570 1 1008 |
| MISSISSIPPI SILVERSIDE | 0.01 | 1. | 98 | 90 TO 120 | 1 | 1008 | 0 TO 5 1 1008 |
| LONGEAR SUNFISH | 0.06 | 1. | 120 | 90 TO 120 | 1 | 1008 | 25 TO 30 1 1008 |

* TOTAL SAMPLE WT. INCLUDES 0.0 LBS OF DEBRIS ACCUMULATION.

ARKANSAS POWER & LIGHT COMPANY
AND SCREEN MONITORING

RUN DATE: 04/13/76

SAMPLE TAKEN: 03-23-76
INCLUSIVE TIME
OF SAMPLE: 24 HRS
INLET WATERBOX
TEMPERATURE: 59 F
AIR CURTAIN
STATUS: OFF
NUMBER OF CIRCULATING
PUMPS IN OPERATION: 2
24 HOUR TOTAL
SAMPLE COUNT: 172
24 HOUR TOTAL
SAMPLE WEIGHT: 8.9 LBS

| SPECIES NAME | SPECIES 24 HR TOTAL WEIGHT (LBS) | SPECIES 24 HR TOTAL COUNT | MAXIMUM LENGTH (MM) | MODAL LENGTH (MM) | # | MODAL WEIGHT (GR) | # |
|-----------------------|-------------------------------------|------------------------------|------------------------|----------------------|----|----------------------|----|
| FRESHWATER DRUM | 2.56 | 48. | 287 | 90 TO | 15 | 5 TO | 9 |
| THREADFIN SHAD | 1.31 | 56. | 128 | 90 TO | 22 | 5 TO | 14 |
| GIZZARD SHAD | 4.00 | 31. | 230 | 210 TO | 11 | 25 TO | 3 |
| CHANNEL CATFISH | 0.13 | 10. | 113 | 60 TO | 7 | 0 TO | 5 |
| BLUE CATFISH | 0.29 | 4. | 250 | 90 TO | 3 | 5 TO | 3 |
| BLUEGILL SUNFISH | 0.32 | 11. | 175 | 30 TO | 7 | 0 TO | 5 |
| CHESTNUT LAMPREY | 0.13 | 1. | 289 | 270 TO | 1 | 55 TO | 1 |
| WHITE CRAPPIE | 0.05 | 3. | 95 | 60 TO | 2 | 5 TO | 2 |
| WHITE BASS | 0.03 | 1. | 112 | 90 TO | 1 | 10 TO | 1 |
| RIVER SHINER | 0.03 | 3. | 89 | 60 TO | 3 | 0 TO | 2 |
| GOLDEN SHINER | 0.01 | 1. | 68 | 60 TO | 1 | 0 TO | 1 |
| STRIPED BASS | 0.03 | 1. | 120 | 90 TO | 1 | 10 TO | 1 |
| LONGEAR SUNFISH | 0.02 | 1. | 78 | 60 TO | 1 | 5 TO | 1 |
| ORANGESPOTTED SUNFISH | 0.02 | 1. | 82 | 60 TO | 1 | 5 TO | 1 |

* TOTAL SAMPLE WT. INCLUDES 0.0 LBS OF DEBRIS ACCUMULATION.