

SAMPLE TAKEN: 02-07-80

INLET WATERBOX # SCREENS NUMBER OF CIRCULATING 24 HOUR TOTAL 24 HOUR TOTAL
OF SAMPLE: 24 HRS TEMPERATURE: 40 F WASHED: R PUMPS IN OPERATION: 3 SAMPLE COUNT: 18959 SAMPLE WEIGHT: 422.6 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	45.11	3015	185	90 TO 120	47	73%	5 TO 10 36 50%
THREADFIN SHAD	312.57	14445	128	90 TO 120	89	87%	5 TO 10 54 53%

MISSISSIPPI SILVERSIDE	6.52	513	120	90 TO 120	51	98%	0 TO 5 27 52%
FRESHWATER DRUM	0.90	48	145	90 TO 120	13	70%	5 TO 10 12 71%
BLUE CATFISH	0.04	3	98	90 TO 120	1	100%	5 TO 10 1 100%
STRIPED BASS	0.10	3	127	120 TO 150	1	100%	15 TO 20 1 100%
WHITE CRAPPIE	0.41	3	206	180 TO 210	1	100%	65 TO 70 1 100%
CHANNEL CATFISH	0.53	3	252	240 TO 270	1	100%	80 TO 85 1 100%
WHITE BASS	0.32	4	125	90 TO 120	2	67%	15 TO 20 3 100%
LARGemouth BASS	0.02	3	71	60 TO 90	1	100%	0 TO 5 1 100%

* TOTAL SAMPLE WT. INCLUDES 15.1 LBS OF DERRIS ACCUMULATION.

217

8004010

ARKANSAS POWER & LIGHT COMPANY
AND SCREEN MONITORING

RUN DATE: 03/22/80

SAMPLE TAKEN: 02-08-80

INCLUSIVE TIME

INLET WATERBOX

SCREENS

NUMBER OF CIRCULATING

PUMPS IN OPERATION: 3

24 HOUR TOTAL

SAMPLE COUNT: 11045

24 HOUR TOTAL *

SAMPLE WEIGHT: 294.3 LBS

OF SAMPLE: 24 HRS

TEMPERATURE: 39 F

WASHED:

24 HOUR TOTAL

SAMPLE COUNT: 11045

24 HOUR TOTAL *

SAMPLE WEIGHT: 294.3 LBS

SPECIES NAME

SPECIES 24 HR

TOTAL COUNT

MAXIMUM

LENGTH(MM)

MODAL

LENGTH(MM)

%

MODAL

WEIGHT(LBS)

%

%

GIZZARD SHAD

31.15

1144

180

90 TO 120

29

52%

5 TO 10

20

36%

THREADFIN SHAD

212.27

9181

132

90 TO 120

91

84%

5 TO 10

43

44%

MISSISSIPPI SILVERSIDE

8.46

653

125

90 TO 120

52

46%

0 TO 5

36

67%

FRESHWATER DRUM

1.29

35

265

90 TO 120

12

67%

5 TO 10

9

50%

WHITE BASS

0.59

4

210

120 TO 150

1

50%

15 TO 20

1

50%

STRIPED BASS

0.51

10

167

120 TO 150

4

40%

20 TO 25

3

60%

BLUE CATFISH

0.84

4

260

240 TO 270

2

100%

40 TO 85

1

50%

SKIPJACK HERRING

0.39

2

230

210 TO 240

1

100%

45 TO 90

1

100%

WHITE CRAPPIE

0.29

2

210

180 TO 210

1

100%

65 TO 70

1

100%

EMERALD SHINER

0.01

2

60

30 TO 60

1

100%

0 TO 5

1

100%

BROOK SILVERSIDE

0.01

2

90

60 TO 90

1

100%

0 TO 5

1

100%

CHANNEL CATFISH

0.01

2

75

60 TO 90

1

100%

0 TO 5

1

100%

* TOTAL SAMPLE WT. INCLUDES 38.5 LBS OF DEBRIS ACCUMULATION.

ARKANSAS POWER & LIGHT COMPANY
AYO SCREEN MONITORING

RUN DATE: 03/22/80

SAMPLE TAKEN: 02-12-80

INCLUSIVE TIME INLET WATERBOX

OF SAMPLE: 24 HRS TEMPERATURE: 38 F

SCREENS

WASHED: 8

NUMBER OF CIRCULATING 24 HOUR TOTAL

PUMPS IN OPERATION: 3 SAMPLE COUNT: 9897

24 HOUR TOTAL *

SAMPLE WEIGHT: 255.6 LBS

SPECIES NAME	SPECIES 24 HR TOTAL WEIGHT (LBS)	SPECIES 24 HR TOTAL COUNT	MAXIMUM LENGTH (MM)	MODAL LENGTH (MM)	#	MODAL WEIGHT (GR)	#
THREADFIN SHAD	100.73	3931.	150	90 TO 120	63	85%	5 TO 10 35 51%
GIZZARD SHAD	121.15	5072.	193	90 TO 120	59	74%	5 TO 10 46 57%
MISSISSIPPI SILVERSIDE	10.75	862.	124	90 TO 120	52	95%	5 TO 10 30 55%
FRESHWATER DRUM	0.19	10.	122	90 TO 120	5	83%	5 TO 10 5 83%
BLUE CATFISH	2.19	5.	40%	90 TO 120	1	33%	0 TO 5 1 33%
STRIPED BASS	0.38	3.	198	120 TO 150	1	50%	20 TO 25 1 50%
CHANNEL CATFISH	1.35	5.	320	60 TO 90	1	33%	0 TO 5 1 33%
CHESTNUT LAMPREY	0.18	2.	275	270 TO 300	1	100%	45 TO 50 1 100%
GREEN SUNFISH	0.01	2.	67	60 TO 90	1	100%	0 TO 5 1 100%
EMERALD SHINER	0.01	2.	86	60 TO 90	1	100%	0 TO 5 1 100%
WHITE CRAPPIE	2.24	2.	332	330 TO 360	1	100%	590 TO 595 1 100%
GOLDEN SHINER	0.01	2.	71	60 TO 90	1	100%	0 TO 5 1 100%

* TOTAL SAMPLE WT. INCLUDES 16.3 LBS OF DEBRIS ACCUMULATION.

SAMPLE TAKEN: 02-13-80

INLET WATERBOX

OF SAMPLE: 24 HRS

SCREENS

WASHERS

NUMBER OF CIRCULATING PUMPS IN OPERATION: 3

24 HOUR TOTAL

24 HOUR TOTAL *

SAMPLE WEIGHT: 438.4 LBS

SPECIES NAME

SPECIES 24 HR

SPECIES 24 HR

MAXIMUM

MODAL

MODAL

TOTAL WEIGHT (LBS)

TOTAL COUNT

LENGTH (MM)

LENGTH (MM)

#

WEIGHT (GR)

#

GIZZARD SHAD

301.24

12867.

163

90 TO

120

72

76%

5 TO

10

57

60%

THREADFIN SHAD

112.53

4191.

142

90 TO

120

51

78%

10 TO

15

28

43%

MISSISSIPPI SILVERSIDE

9.13

731.

124

90 TO

120

51

96%

0 TO

5

31

58%

FRESHWATER DRUM

0.16

5.

122

90 TO

120

1

50%

5 TO

10

1

50%

GOLDEN SHINER

0.03

3.

83

50 TO

90

1

100%

0 TO

5

1

100%

CHANNEL CATFISH

0.05

3.

108

90 TO

120

1

100%

5 TO

10

1

100%

GREEN SUNFISH

0.02

3.

64

50 TO

90

1

100%

0 TO

5

1

100%

EUROPEAN CARP

2.87

3.

365

360 TO

390

1

100%

445 TO

450

1

100%

* TOTAL SAMPLE WT. INCLUDES 12.4 LBS OF DEBRIS ACCUMULATION.

ARKANSAS POWER & LIGHT COMPANY
AND SCREEN MONITORING

RUN DATE: 03/22/80

SAMPLE TAKEN: 02-14-80

INCLUSIVE TIME

OF SAMPLE: 24 HRS

INLET WATERBOX

TEMPERATURE: 39 F

SCREENS

WASHED: R

NUMBER OF CIRCULATING

PUMPS IN OPERATION: 3

24 HOUR TOTAL

SAMPLE COUNT: 10788

24 HOUR TOTAL *

SAMPLE WEIGHT: 284.0 LBS

SPECIES NAME	SPECIES 24 HR TOTAL WEIGHT (LBS)	SPECIES 24 HR TOTAL COUNT	MAXIMUM LENGTH (MM)	MODAL LENGTH (MM)	#	%	MODAL WEIGHT (GR)	#	%
THREADFIN SHAD	56.21	2175.	145	90 TO 120	54	87%	5 TO 10	10	28 45%
GIZZARD SHAD	203.30	8183.	175	90 TO 120	68	73%	5 TO 10	10	51 55%
MISSISSIPPI SILVERSIDE	5.21	413.	123	90 TO 120	50	96%	0 TO 5	37	71%
WHITE BASS	0.18	4.	137	120 TO 150	2	100%	15 TO 20	1	50%
GREEN SUNFISH	0.12	4.	103	60 TO 90	1	50%	10 TO 15	1	50%
FRESHWATER DRUM	0.03	2.	100	90 TO 120	1	100%	5 TO 10	1	100%
CHANNEL CATFISH	0.01	2.	79	60 TO 90	1	100%	0 TO 5	1	100%
EUROPEAN CARP	2.84	2.	378	350 TO 390	1	100%	680 TO 685	1	100%
BLUE CATFISH	0.72	2.	285	270 TO 300	1	100%	170 TO 175	1	100%
STRIPED BASS	0.05	2.	112	90 TO 120	1	100%	10 TO 15	1	100%

* TOTAL SAMPLE WT. INCLUDES 15.3 LBS OF DEBRIS ACCUMULATION.

ARKANSAS POWER & LIGHT COMPANY
AND SCREEN MONITORING

RUN DATE: 03/22/80

SAMPLE TAKEN: 02-20-80

INCLUSIVE TIME

OF SAMPLE: 24 HRS

INLET WATERPROX

TEMPERATURE: 41 F

NUMBER OF CIRCULATING PUMPS IN OPERATION: 3

SAMPLE COUNT: 6971

24 HOUR TOTAL *

SAMPLE WEIGHT: 174.6 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	136.38	6341.	175	90 TO 120	86	82%	5 TO 10 67 04%
THREADFIN SHAD	8.73	327.	144	90 TO 120	46	87%	10 TO 15 25 47%
MISSISSIPPI SILVERSIDE	3.56	283.	114	90 TO 120	52	98%	0 TO 5 36 68%
FRESHWATER DRUM	1.80	10.	357	90 TO 120	3	33%	10 TO 15 2 22%
GREEN SUNFISH	0.01	2.	61	30 TO 60	1	50%	0 TO 5 2 100%
WHITE BASS	0.10	1.	169	150 TO 180	1	100%	35 TO 40 1 100%
STRIPED BASS	0.05	1.	133	120 TO 150	1	100%	15 TO 20 1 100%
WHITE CRAPPIE	0.25	1.	215	210 TO 240	1	100%	95 TO 100 1 100%
SMALLMOUTH BUFFALO	3.20	1.	415	390 TO 420	1	100%	1245 TO 1250 1 100%
BLUE CATFISH	0.28	1.	258	240 TO 270	1	100%	105 TO 110 1 100%
GOLDEN SHINER	0.01	1.	65	60 TO 90	1	100%	0 TO 5 1 100%

* TOTAL SAMPLE WT. INCLUDES 20.2 LBS OF DEBRIS ACCUMULATION.

SAMPLE TAKEN: 02-21-80

INLET WATERBOX # SCREENS NUMBER OF CIRCULATING 24 HOUR TOTAL 24 HOUR TOTAL *
OF SAMPLE: 24 HRS TEMPERATURE: 42 F WASHED: PUMPS IN OPERATION: 3 SAMPLE COUNT: 64956 SAMPLE WEIGHT: 1360.0 LBS

SPECIES NAME	SPECIES 24 HR TOTAL WEIGHT (LBS)	SPECIES 24 HR TOTAL COUNT	MAXIMUM LENGTH (MM)	MODAL LENGTH (MM)	#	%	MODAL WEIGHT (G)	#	%
GIZZARD SHAD	1316.93	62845	180	90 TO 120	103	66%	5 TO 10	10	76 63%
THREADFIN SHAD	17.14	653	130	90 TO 120	49	92%	10 TO 15	28	53%
MISSISSIPPI SILVERSIDE	5.34	462	123	90 TO 120	50	98%	0 TO 5	32	63%
FRESHWATER DRUM	0.54	27	115	90 TO 120	3	100%	5 TO 10	2	67%
STRIPED BASS	0.88	9	175	150 TO 180	1	100%	40 TO 45	1	100%
BLUEGILL SUNFISH	0.90	9	138	120 TO 150	1	100%	40 TO 45	1	100%

* TOTAL SAMPLE WT. INCLUDES 18.3 LBS OF DEBRIS ACCUMULATION.

ARKANSAS POWER & LIGHT COMPANY
AND SCREEN MONITORING

RUN DATE: 03/22/80

SAMPLE TAKEN: 02-22-80

INCLUSIVE TIME INLET WATERPROX

OF SAMPLE 14 HRS TEMPERATURE: 43 F

SCREENS

WASHER IN

NUMBER OF CIRCULATING 24 HOUR TOTAL

PUMPS IN OPERATION: 3 SAMPLE COUNT: 15499

24 HOUR TOTAL *

SAMPLE WEIGHT: 457.6 LBS

SPECIES NAME	SPECIES 24 HR TOTAL WEIGHT (LBS)	SPECIES 24 HR TOTAL COUNT	MAXIMUM LENGTH (MM)	MODAL LENGTH (MM)		#	%	MODAL WEIGHT (GR)		#	%
				90 TO 120	120 TO 150			5 TO 10	10 TO 15		
GIZZARD SHAD	324.54	14611.	172	90 TO 120	120 TO 150	72	73%	5 TO 10	10 TO 15	53	54%
THREADFIN SHAD	18.68	662.	142	90 TO 120	120 TO 150	43	83%	10 TO 15	15 TO 20	29	56%
MISSISSIPPI SILVERSIDE	7.63	546.	121	90 TO 120	120 TO 150	49	94%	0 TO 5	5 TO 10	30	58%
FRESHWATER DRUM	1.39	24.	254	120 TO 150	150 TO 180	3	34%	0 TO 5	5 TO 10	2	25%
BLUE CATFISH	9.51	6.	522	180 TO 210	210 TO 240	1	50%	50 TO 55	55 TO 60	1	50%
GOLDEN SHINER	0.05	6.	80	60 TO 90	90 TO 120	2	100%	0 TO 5	5 TO 10	2	100%
WHITE BASS	3.62	6.	336	120 TO 150	150 TO 180	1	50%	20 TO 25	25 TO 30	1	50%

* TOTAL SAMPLE WT. INCLUDES 32.1 LBS OF DEBRIS ACCUMULATION.

ARKANSAS POWER & LIGHT COMPANY
AND SCREEN MONITORING

RUN DATE: 03/22/80

SAMPLE TAKEN: 02-26-80

INCLUSIVE TIME

OF SAMPLE: 24 HRS

INLET WATERBOX

SCREENS

NUMBER OF CIRCULATING

PUMPS IN OPERATION: 3

24 HOUR TOTAL *

SAMPLE WEIGHT: 389.9 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	328.20	17800	144	90 TO 120	96	90%	5 TO 10	70	58%
THREADFIN SHAD	6.17	257	147	90 TO 120	48	92%	5 TO 10	27	52%
MISSISSIPPI SILVERSIDE	1.15	109	119	90 TO 120	37	95%	0 TO 5	33	85%
FRESHWATER DRUM	1.48	10	243	60 TO 90	1	25%	5 TO 10	2	50%
BLUE CATFISH	1.33	13	214	180 TO 210	2	40%	10 TO 15	1	20%
WARMOUTH	0.06	3	87	60 TO 90	1	100%	5 TO 10	1	100%
GOLDEN SHINER	0.02	3	80	60 TO 90	1	100%	0 TO 5	1	100%
GREEN SUNFISH	0.17	8	109	30 TO 60	1	33%	0 TO 5	1	33%
BLUEGILL SUNFISH	0.15	3	120	90 TO 120	1	100%	25 TO 30	1	100%
CHANNEL CATFISH	0.01	3	72	60 TO 90	1	100%	0 TO 5	1	100%
BLACK CRAPPIE	0.14	3	132	120 TO 150	1	100%	20 TO 25	1	100%

* TOTAL SAMPLE WT. INCLUDES 51.0 LBS OF DEBRIS ACCUMULATION.

SAMPLE TAKEN: 02-27-80

INLET WATERBOX

OF SAMPLE: 24 HRS

TEMPERATURE: 44 F

SCREENS

WASHED: 8

NUMBER OF CIRCULATING PUMPS IN OPERATION: 3

24 HOUR TOTAL SAMPLE COUNT: 19932

24 HOUR TOTAL

SAMPLE WEIGHT: 456.2 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	376.41	19333.	173	90 TO 120	100	88%	5 TO 10	84	74%	
THREADFIN SHAD	9.70	365.	140	90 TO 120	45	67%	10 TO 15	25	48%	
MISSISSIPPI SILVERSIDE	1.77	152.	117	90 TO 120	43	94%	0 TO 5	28	64%	
FRESHWATER DRUM	2.37	43.	259	90 TO 120	8	57%	5 TO 10	10	8	57%
WHITE BASS	0.48	9.	161	120 TO 150	2	67%	25 TO 30	2	67%	
STRIPED BASS	0.22	6.	134	90 TO 120	1	50%	10 TO 15	1	50%	
CHANNEL CATFISH	0.06	6.	86	60 TO 90	2	100%	0 TO 5	2	100%	
GREEN SUNFISH	0.01	3.	50	30 TO 60	1	100%	0 TO 5	1	100%	
GOLDEN SHINER	0.03	6.	80	60 TO 90	2	100%	0 TO 5	2	100%	
BLUE CATFISH	2.90	4.	342	60 TO 90	1	33%	0 TO 5	1	33%	

* TOTAL SAMPLE WT. INCLUDES 62.3 LBS OF DEBRIS ACCUMULATION.

ARKANSAS POWER & LIGHT COMPANY
AND SCREEN MONITORING

RUN DATE: 03/22/80

SAMPLE TAKEN: 02-29-80

INLET WATERBOX # SCREENS NUMBER OF CIRCULATING 24 HOUR TOTAL 24 HOUR TOTAL °
OF SAMPLE 124 HRS TEMPERATURE: 45 F WASHED: 3 SAMPLE COUNT: 5377 SAMPLE WEIGHT: 100.6 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	88.06	5056	135	90 TO 120	60 79%	5 TO 10	44 58%
THREADFIN SHAD	3.50	130	137	90 TO 120	23 85%	10 TO 15	16 59%
MISSISSIPPI SILVERSIDE	1.75	156	118	90 TO 120	25 93%	0 TO 5	22 81%
EUROPEAN CARP	2.69	1	480	450 TO 480	1 100%	1215 TO 1220	1 100%
FRESHWATER DRUM	0.23	10	177	90 TO 120	7 70%	5 TO 10	5 50%
BLUE CATFISH	0.52	4	310	90 TO 120	1 25%	5 TO 10	1 25%
CHANNEL CATFISH	1.86	2	540	150 TO 180	1 50%	2 TO 25	1 50%
SHORTNOSE GAR	1.25	1	542	540 TO 570	1 100%	565 TO 570	1 100%
GREEN SUNFISH	0.16	5	120	90 TO 120	3 60%	0 TO 5	2 40%
BLUEGILL SUNFISH	0.26	3	160	30 TO 60	1 33%	0 TO 5	1 33%
GOLDEN SHINER	0.02	4	79	60 TO 90	4 100%	0 TO 5	4 100%
STRIPED BASS	0.15	4	150	120 TO 150	3 75%	10 TO 15	2 50%
WHITE BASS	0.08	1	147	120 TO 150	1 100%	30 TO 35	1 100%

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