LAKES IMPROVEMENT PLAN

STAFFING
CAPITAL IMPROVEMENTS AND MAINTENANCE
LAKE DRAW DOWNS
LAKE SAFETY
FISHERIES
WATERSHED MANAGEMENT AND PRESERVATION
<table>
<thead>
<tr>
<th>Lake Name</th>
<th>Acres</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lake Segovia</td>
<td>11</td>
</tr>
<tr>
<td>Lake Estrella</td>
<td>21</td>
</tr>
<tr>
<td>Lake Isabel</td>
<td>25</td>
</tr>
<tr>
<td>Lake Maria</td>
<td>27</td>
</tr>
<tr>
<td>Lake Sophia</td>
<td>36</td>
</tr>
<tr>
<td>Lake Granada</td>
<td>54</td>
</tr>
<tr>
<td>Lake Pineda</td>
<td>62</td>
</tr>
<tr>
<td>Lake Lago</td>
<td>100</td>
</tr>
<tr>
<td>Lake DeSoto</td>
<td>200</td>
</tr>
<tr>
<td>Lake Cortez</td>
<td>245</td>
</tr>
<tr>
<td>Lake Coronado</td>
<td>380</td>
</tr>
<tr>
<td>Lake Balboa</td>
<td>944</td>
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</tbody>
</table>

2105 Total Acres
## 2016 Lake Clarity
*(in feet)*

<table>
<thead>
<tr>
<th>Lake</th>
<th>Maximum</th>
<th>Minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Balboa</td>
<td>19.8</td>
<td>8.5</td>
</tr>
<tr>
<td>Cortez</td>
<td>14.2</td>
<td>5.2</td>
</tr>
<tr>
<td>Estrella</td>
<td>14.0</td>
<td>5.0</td>
</tr>
<tr>
<td>DeSoto</td>
<td>9.8</td>
<td>6.1</td>
</tr>
<tr>
<td>Sophia</td>
<td>8.9</td>
<td>2.7</td>
</tr>
<tr>
<td>Granada</td>
<td>7.7</td>
<td>4.0</td>
</tr>
<tr>
<td>Coronado</td>
<td>8.7</td>
<td>5.8</td>
</tr>
<tr>
<td>Pineda</td>
<td>8.0</td>
<td>4.0</td>
</tr>
<tr>
<td>Isabella</td>
<td>5.2</td>
<td>1.8</td>
</tr>
<tr>
<td>Maria</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Segovia</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>
# 2016 Lake Levels (in inches)

<table>
<thead>
<tr>
<th>Lake</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cortez</td>
<td>-19.5</td>
<td>10.0</td>
</tr>
<tr>
<td>Isabella</td>
<td>-13.5</td>
<td>5.0</td>
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<tr>
<td>Balboa</td>
<td>-11.0</td>
<td>12.4</td>
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<tr>
<td>Granada</td>
<td>-10.0</td>
<td>6.0</td>
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<tr>
<td>Sophia</td>
<td>-9.0</td>
<td>5.0</td>
</tr>
<tr>
<td>Maria</td>
<td>-9.0</td>
<td>4.0</td>
</tr>
<tr>
<td>Coronado</td>
<td>-8.3</td>
<td>11.0</td>
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<tr>
<td>Estrella</td>
<td>-8.0</td>
<td>2.5</td>
</tr>
<tr>
<td>Pineda</td>
<td>-1.0</td>
<td>3.0</td>
</tr>
<tr>
<td>DeSoto</td>
<td>0.0</td>
<td>2.0</td>
</tr>
<tr>
<td>Segovia</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>
LAKE SEGOVIA

- OPENED 1972
- ELECTRIC MOTORS ONLY
- FISHING, CANOEING, KAYAKING, WALKING TRAILS
- NO WAKE SPEED LIMIT
- BASS, SUNFISH
- NO VALVE TO DRAW DOWN
- BIGGEST CHALLENGE WITH THE LAKE - ACCESS
LAKE SEGOVIA
ELECTROFISHING 2016

Largemouth bass
72%

Spotted bass
1%

Bluegill
25%

Green sunfish
1%

Grass carp
1%

Spotted bass
1%

Largemouth bass
72%

5.45 and 4.25 lbs
LAKE ESTRELLA

- OPENED 2000
- FISHING, CANOEING, KAYAKING
- NO WAKE SPEED LIMIT
- BASS, SUNFISH, CATFISH
- SCHEDULED DRAWDOWN – 2018-2019
- BIGGEST CHALLENGE WITH THE LAKE – BOAT RAMP
LAKE ESTRELLA
ELECTROFISHING 2016

- Largemouth bass: 52%
- Bluegill: 13%
- Green sunfish: 32%
- Channel catfish: 3%

![Fish being held](image1)
![Woman holding a fish](image2)
LAKE ISABELLA

- OPENED 1999
- FISHING, CANOEING, KAYAKING
- NO WAKE SPEED LIMIT
- BASS, SUNFISH, CATFISH
  - LARGEST CRAPPIE COLLECTED DURING 2015 ELECTROFISHING – 13 ½”
- NEXT SCHEDULED DRAWDOWN – 2020-2021
- BIGGEST CHALLENGE WITH THE LAKE – WATER CLARITY
LAKE ISABELLA
ELECTROFISHING 2016

4.44 and 5.22 lbs

- Largemouth bass: 38%
- Bluegill: 48%
- Green sunfish: 10%
- White crappie, yellow bullhead, channel catfish, hybrid bluegill: 2%
- Grass Carp: 2%
LAKE MARIA

- OPENED 2000
- FISHING, CANOEING, KAYAKING
- NO WAKE SPEED LIMIT
- BASS, SUNFISH, CATFISH
  - EXCELLENT SUNFISH LAKE
- NEXT SCHEDULED DRAWDOWN – 2016-2017
- BIGGEST CHALLENGE WITH THE LAKE – BOAT RAMP
LAKE MARIA ELECTROFISHING 2016

- Grass carp: 1%
- Largemouth bass: 29%
- Green sunfish: 58%
- Bluegill: 9%
- Redear: 3%

11 ½” redear
LAKE SOPHIA

• OPENED 2000
• FISHING, KAYAKING, CANOEING
• NO WAKE SPEED LIMIT
• BASS, SUNFISH, CATFISH
  • EXCELLENT SUNFISH LAKE
  • LARGEST REDDEAR COLLECTED TO DATE – 13 ½”
• NEXT SCHEDULED DRAWDOWN – 2016-2017
• BIGGEST CHALLENGE WITH THE LAKE – WATER CLARITY
LAKE SOPHIA
ELECTROFISHING 2016

Largemouth bass 44%
Bluegill 29%
Green sunfish 17%
Redear sunfish 7%
Hybrid sunfish, channel catfish, yellow bullhead, grass carp 3%
LAKE GRANADA

- OPENED 2000
- FISHING, CANOEING, KAYAKING, BOATING
- 20 MPH SPEED LIMIT
- BASS, BLUEGILL, CRAPPIE, CATFISH
  - LARGEST BLUEGILL COLLECTED TO DATE – 10 ½”
- NEXT SCHEDULED DRAWDOWN – 2018-2019
- BIGGEST CHALLENGE WITH THE LAKE – ???
LAKE GRANADA ELECTROFISHING 2016

- Largemouth bass: 36%
- Spotted bass: 4%
- Bluegill: 28%
- Green sunfish: 19%
- Grass carp: 8%
- Hybrid sunfish, blue catfish: 2%
- Channel catfish: 3%
- Grass carp: 8%

10 ½” bluegill
LAKE PINEDA

- OPENED 1974
- FISHING, CANOEING, KAYAKING, BOATING
- 20 MPH SPEED LIMIT
- BASS, SUNFISH, CATFISH
  - LARGEST CRAPPIE COLLECTED DURING 2016 ELECTROFISHING – 14 5/8"
- NEXT SCHEDULED DRAWDOWN – 2020-2021
- BIGGEST CHALLENGE WITH THE LAKE – NATIVE AQUATIC VEGETATION
LAKE PINEDA
ELECTROFISHING 2016

- Largemouth bass: 32%
- Longear sunfish: 31%
- Bluegill: 23%
- Green sunfish: 5%
- Redear sunfish: 4%
- Spotted bass, white crappie, black crappie, channel catfish, blue catfish, yellow bullhead, grass carp, gizzard shad: 5%

Weight:
- 3.55 lbs
- 3.68 lbs

Fish species:
- 14 5/8” white crappie
LAKE LAGO

- OPENED 1973
- 100 ACRES
- NO PUBLIC ACCESS
- WATER SUPPLY LAKE FOR HSV
LAKE DESOTO

• OPENED 1972
• FISHING, CANOEING, KAYAKING, BOATING, SKIING, TUBING, WALKING TRAILS
• 30 MPH SPEED LIMIT
• BASS, SUNFISH, CATFISH
  • LARGEST LARGEMOUTH BASS COLLECTED DURING 2016 ELECTROFISHING – 10.19LBS, 25” LONG, 19” CIRC
  • LARGEST FLATHEAD CATFISH COLLECTED DURING 2016 ELECTROFISHING – 26LBS
  • 40LBS BLUE CATFISH COLLECTED DURING 2015 ELECTROFISHING
• NEXT SCHEDULED DRAWDOWN – 2021-2022
• BIGGEST CHALLENGE WITH THE LAKE – BOAT TRAILER PARKING
LAKE DESOTO
ELECTROFISHING 2016

Largemouth bass 51%
Spotted bass, channel catfish, flathead catfish, brook silverside 4%
Bluegill 11%
Longear sunfish 18%
Green sunfish 4%
Gizzard Shad 5%
Grass Carp 7%

Clockwise from top left:
10.19 and 4.03 lb largemouth bass, 5.51 lbs largemouth bass, 26.1 lbs flathead catfish, 1.80 lbs spotted bass
LAKE CORTEZ

- OPENED 1979
- FISHING, CANOEING, KAYAKING, BOATING, SKIING, TUBING
- 30 MPH SPEED LIMIT
- BASS, BLUEGILL, CRAPPIE, WALLEYE, CATFISH
- NEXT SCHEDULED DRAWDOWN – 2021-2022
- BIGGEST CHALLENGE WITH THE LAKE – WATER LEVEL
LAKE CORTEZ
ELECTROFISHING 2016

- Largemouth bass: 51%
- Spotted bass: 8%
- Bluegill: 2%
- Green sunfish: 5%
- Longear sunfish: 16%
- Hybrid Bluegill, flathead catfish, gizzard shad, bigeye shiner: 3%
- Channel catfish: 2%
- Grass carp: 10%
- Blue catfish: 2%
- Blue catfish, flathead catfish, gizzard shad, bigeye shiner: 3%
- Grass carp: 10%
- Bluegill: 2%
- Spotted bass: 8%
LAKE CORONADO

- OPENED 1976
- FISHING, CANOEING, KAYAKING, BOATING, SKIING, TUBING
- 30 MPH SPEED LIMIT
- BASS, SUNFISH, CATFISH
  - LARGEST LARGEMOUTH BASS COLLECTED DURING 2015 ELECTROFISHING – 7.95LBS
  - LARGEST BLUE CATFISH COLLECTED DURING 2016 ELECTROFISHING – 50LBS
    - ALSO A 40LBS AND 2 – 33LBS
- NEXT SCHEDULED DRAWDOWN – 2019-2020
- BIGGEST CHALLENGE WITH THE LAKE – NATIVE AQUATIC VEGETATION
LAKE CORONADO
ELECTROFISHING 2016

- Largemouth bass: 27%
- Spotted bass: 6%
- Bluegill: 10%
- Green sunfish: 6%
- Longear sunfish: 21%
- Madtom, logperch, yellow bullhead, blue catfish, black crappie, redear sunfish: 5%
- Grass Carp: 8%
- Channel catfish: 6%
- Warmouth: 3%
- Spotted sucker: 8%
- Channel catfish: 6%
- Grass Carp: 8%
- Largemouth bass: 27%
- Spotted Bass: 6%
- Bluegill: 10%
- Green sunfish: 6%
- Longear sunfish: 21%
- Madtom, logperch, yellow bullhead, blue catfish, black crappie, redear sunfish: 5%
- Spotted sucker: 8%
LAKE BALBOA

• OPENED 1988
• FISHING, CANOEING, KAYAKING, BOATING, SKIING, TUBING, FLOTILLAS
• 35 MPH SPEED LIMIT
• BASS, SUNFISH, CATFISH
  • LARGEST BLUE CATFISH COLLECTED DURING 2015 ELECTROFISHING – 50LBS
• NEXT SCHEDULED DRAWDOWN – 2017-2018
• BIGGEST CHALLENGE WITH THE LAKE - HYDRILLA
LAKE BALBOA
ELECTROFISHING 2016

- Largemouth bass: 9%
- Spotted bass: 13%
- Bluegill: 13%
- Green sunfish: 21%
- Longear sunfish: 28%
- Grass carp: 4%
- Channel catfish: 7%
- Warmouth, blue catfish, yellow bullhead, common carp, spotted sucker, gizzard shad, brook silverside, logperch: 4%
- Bluegill: 13%
GUEST EXPERTS

**BRETT HOBBS**
FISHERIES DISTRICT 8 SUPERVISOR
ARKANSAS GAME AND FISH COMMISSION
28+ YEAR FISHERIES BIOLOGIST FOR ARKANSAS GAME AND FISH COMMISSION
MONITOR FISH POPULATIONS OVER 7 COUNTY DISTRICT INCLUDING LAKES OUACHITA, DEGRAY, HAMILTON, AND ALL VILLAGE LAKES
WALLEYE AND STRIPER SPAWNING PROJECTS

**JOHNNY CANTRELL**
DISTRICT BIOLOGIST
US ARMY CORPS OF ENGINEERS (RETIRED)
FISHERIES EVALUATIONS WITH ARKANSAS GAME AND FISH COMMISSION
COVER AND NATIVE AQUATIC PLANT SPECIES INTRODUCTIONS
PAKISTANAE FLY PROPAGATION AND LARVAE INTRODUCTIONS TO REDUCE HYDRILLA ON LAKES OUACHITA AND DEGRAY

**DUSTIN THOMASON**
DISTRICT BIOLOGIST
US ARMY CORPS OF ENGINEERS
10+ YEARS WITH CORPS OF ENGINEERS
NATURAL RESOURCES RANGER AT LAKE MILLWOOD OVERSEEING AQUATIC VEGETATION MANAGEMENT PROGRAMS
CONSTRUCTED FACILITY TO BROOD PAKISTANAE FLY LARVAE
WILDLIFE BIOLOGIST OVERSEEING WILDLIFE AND FISHERIES PROGRAMS FOR LAKES OUACHITA, DEGRAY, AND GREESON