### Simulated LIP Stages

#### Models
- **Zero MGD IBT**
- **16 MGD IBT**
- **10 MGD IBT**
- **22 MGD IBT**

#### LIP Summary for a Lake Norman Withdrawal for LIP Stages Greater Than or Equal to 1

<table>
<thead>
<tr>
<th>Scenario</th>
<th>22 MGD IBT</th>
<th>16 MGD IBT</th>
<th>10 MGD IBT</th>
<th>Zero MGD IBT</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIP Stage</td>
<td>LIP Stage</td>
<td>LIP Stage</td>
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<tr>
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</table>

#### Total Number of Months

<table>
<thead>
<tr>
<th>Scenario</th>
<th>22 MGD IBT</th>
<th>16 MGD IBT</th>
<th>10 MGD IBT</th>
<th>Zero MGD IBT</th>
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#### Total of Months

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<th>22 MGD IBT</th>
<th>16 MGD IBT</th>
<th>10 MGD IBT</th>
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<td>Total Months</td>
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#### Percent of Months

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<th>22 MGD IBT</th>
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<th>10 MGD IBT</th>
<th>Zero MGD IBT</th>
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</thead>
<tbody>
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<td>0%</td>
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#### Annual Summary - Number of times 1st and 2nd month occurred

<table>
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<tr>
<th>Scenario</th>
<th>22 MGD IBT</th>
<th>16 MGD IBT</th>
<th>10 MGD IBT</th>
<th>Zero MGD IBT</th>
</tr>
</thead>
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#### Annual Summary - Number of times 3rd and 4th month occurred

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<th>16 MGD IBT</th>
<th>10 MGD IBT</th>
<th>Zero MGD IBT</th>
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</thead>
<tbody>
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<td>0</td>
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#### Annual Summary - Number of times 5th and 6th month occurred

<table>
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<th>22 MGD IBT</th>
<th>16 MGD IBT</th>
<th>10 MGD IBT</th>
<th>Zero MGD IBT</th>
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</thead>
<tbody>
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<td>Number of Times</td>
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#### Annual Summary - Number of times 7th and 8th month occurred

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<th>10 MGD IBT</th>
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#### Annual Summary - Number of times 9th and 10th month occurred

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<tbody>
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#### Annual Summary - Number of times 11th and 12th month occurred

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<th>Zero MGD IBT</th>
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<tbody>
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#### Annual Summary - Number of times 13th and 14th month occurred

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<th>10 MGD IBT</th>
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#### Annual Summary - Number of times 15th and 16th month occurred

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#### Annual Summary - Number of times 17th and 18th month occurred

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<th>10 MGD IBT</th>
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<tbody>
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#### Annual Summary - Number of times 19th and 20th month occurred

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<th>10 MGD IBT</th>
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<tbody>
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#### Annual Summary - Number of times 21st and 22nd month occurred

<table>
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<tr>
<th>Scenario</th>
<th>22 MGD IBT</th>
<th>16 MGD IBT</th>
<th>10 MGD IBT</th>
<th>Zero MGD IBT</th>
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</thead>
<tbody>
<tr>
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<td>0</td>
<td>0</td>
<td>0</td>
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Simulated Lake James Elevations and Outflows

Simulated Lake James Elevation Profiles at Bridgewater Dam during 2002 Drought

Lake James Levels Remain above Elevation, FT

Lake James Flow Remain above, cfs

Exceedance Curve of Lake James Outflows for all Outflows Between Jan 1, 1929 and Dec 31, 2003

Exceedance, Percent of Daily Avg Flow - log (cfs)

Lake James Levels Remain above Simulated, FT

Lake James Flow Remain above, cfs
Simulated Lake Norman Elevations and Outflows

End of Day Elevation, ft

Stage 1: (Zero MGD)
Stage 2: (22 MGD)
Stage 3: (16 MGD)
Stage 4: (10 MGD)
Stage 5: (2 MGD)
Stage 6: (0 MGD)

Lake Norman Levels Remain above Elevation, FT
Exceedance, Percent
Tim
Lake Norman Levee Floods above Elevations, FT
Exceedance, Percent
Lake Norman Flow Remain above, cfs
Exceedance, Percent

22 MGD IBT
16 MGD IBT
10 MGD IBT
ZERO IBT

End of Day Elevation (ft)
Zero IBT
10 MGD IBT
16 MGD IBT
22 MGD IBT

Simulated Lake Norman Elevation Profiles at Cowan's Ford Dam during 2002 Drought

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%
Exceedance, Percent

Daily Avg Flow - log (cfs)

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%
Exceedance

0% 5% 10% 15% 20% 25% 30% 35% 40% 45% 50% 55% 60% 65% 70% 75% 80% 85% 90% 95% 100%
Exceedance, Percent

0% 5% 10% 15% 20% 25% 30% 35% 40% 45% 50% 55% 60% 65% 70% 75% 80% 85% 90% 95% 100%
Exceedance, Percent
Simulated Lake Wylie Elevations and Outflows

Lake Wylie Levels Remain above Elevation, FT

Lake Wylie Outflows Remain above, cfs

Stage 0:
Stage 0: (Zero / 22 MGD)
Stage 1: (22 MGD)
Stage 1: (16 MGD)
Stage 1: (Zero MGD)
Stage 2: (Zero MGD)
Stage 2: (22 MGD)
Simulated Lake Wateree Elevations and Outflows

Lake Wateree Levels Remain above Elevation, FT

Exceedance Curve of Lake Wateree Elevations
for all Elevations Between Jan 1, 1929 and Dec 31, 2003

Lake Wateree Elevations and Outflows during 2002 Drought

Lake Wateree Flow Remain above, cfs

Exceedance, Lake Wateree Flow Remain above, cfs
Simulated Lake Rhodhiss Elevations and Outflows

Exceedance Curve of Lake Rhodhiss Elevations for all Elevations Between Jan 1, 1929 and Dec 31, 2003

Exceedance Curve of Lake Rhodhiss Outflows for all Outflows Between Jan 1, 1929 and Dec 31, 2003

Lake Rhodhiss Levels Remain above Elevation, FT

Lake Rhodhiss Flow Remain above, cfs
Simulated Lake Hickory Elevations and Outflows

Lake Hickory Levels Remain above Elevation, FT

Lake Hickory Elevations

Stage 1: (22 MGD)
Stage 2: (Zero MGD)
Stage 3: (10 MGD)
Stage 4: (16 MGD)
Stage 5: (22 MGD)
Stage 6: (Zero IBT)
Stage 7: (10 MGD IBT)
Stage 8: (16 MGD IBT)
Stage 9: (22 MGD IBT)
Stage 10: (Zero IBT)

Exceedance Curve of Lake Hickory Elevations

For Elevations Between Jan 1, 1929 and Dec 31, 2003

Stage 1:  (22 MGD)
Stage 2: (Zero MGD)
Stage 1 / Stage 2: (Zero / 22 MGD)

Lake Hickory [Oxford] Flow Remain above, cfs

Exceedance Curve of Oxford Outflows

For all Outflows Between Jan 1, 1929 and Dec 31, 2003

Stage 1: (16 MGD)
Stage 0: (Zero / 22 MGD)

Southern Office Complex
Inlet Sediment Basin (25% of Silt)

Lake Hickory Elevations at Oxford Dam during 2002 Drought

Time

End of Day Elevation, ft

Stage 1 / Stage 2: (Zero / 22 MGD)
Stage 3: (10 MGD)
Stage 4: (16 MGD)
Stage 5: (22 MGD)
Stage 6: (Zero IBT)
Stage 7: (10 MGD IBT)
Stage 8: (16 MGD IBT)
Stage 9: (22 MGD IBT)
Stage 10: (Zero IBT)

Exceedance Curve of Oxford Elevations

For all Elevations Between Jan 1, 1929 and Dec 31, 2003

Stage 1: (16 MGD)
Stage 0: (Zero / 22 MGD)

Stage 1 / Stage 0: (Zero / 22 MGD)
### Simulated Lake Lookout Shoals Elevations and Outflows

#### Simulated Lake Lookout Shoals Elevation Profiles during 2002 Drought

<table>
<thead>
<tr>
<th>Date</th>
<th>Stage 1: (Zero MGD)</th>
<th>Stage 1: (22 MGD)</th>
<th>Stage 1: (16 MGD)</th>
<th>End of Day Elevation, ft</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>05/01/2000</td>
<td>830.05</td>
<td>830.05</td>
<td>830.05</td>
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<td>0%</td>
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<tr>
<td>07/01/2000</td>
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<td>832.46</td>
<td>832.46</td>
<td>832.46</td>
<td>99%</td>
</tr>
<tr>
<td>09/01/2000</td>
<td>832.82</td>
<td>832.82</td>
<td>832.82</td>
<td>832.82</td>
<td>95%</td>
</tr>
<tr>
<td>11/01/2000</td>
<td>833.49</td>
<td>833.49</td>
<td>833.49</td>
<td>833.49</td>
<td>90%</td>
</tr>
<tr>
<td>01/01/2001</td>
<td>834.58</td>
<td>834.58</td>
<td>834.58</td>
<td>834.58</td>
<td>75%</td>
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<tr>
<td>03/01/2001</td>
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<td>836.19</td>
<td>836.19</td>
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<tr>
<td>05/01/2001</td>
<td>838.18</td>
<td>838.18</td>
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<td>07/01/2001</td>
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<tr>
<td>09/01/2001</td>
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#### Exceedance Curve of Lake Lookout Shoals Elevations

For all Elevations Between Jan 1, 1929 and Dec 31, 2003

#### Exceedance Curve of Lake Lookout Shoals Outflows

For all Outflows Between Jan 1, 1929 and Dec 31, 2003

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**Lake Lookout Shoals Levels Remain above Simulations, FY**

<table>
<thead>
<tr>
<th>Exceedance</th>
<th>Stage 1: (Zero MGD)</th>
<th>Stage 1: (22 MGD)</th>
<th>Stage 1: (16 MGD)</th>
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<tbody>
<tr>
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<td>830.05</td>
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<tr>
<td>5%</td>
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<td>20%</td>
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**Lake Lookout Shoals Flow Remain above, cfs**

<table>
<thead>
<tr>
<th>Exceedance, Percent</th>
<th>Stage 1: (Zero MGD)</th>
<th>Stage 1: (22 MGD)</th>
<th>Stage 1: (16 MGD)</th>
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<tbody>
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<tr>
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</tr>
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</tr>
<tr>
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<tr>
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<tr>
<td>70%</td>
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</tr>
<tr>
<td>80%</td>
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**Lake Lookout Shoals Flow Remain above, cfs**

<table>
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<tr>
<th>Exceedance, Percent</th>
<th>Stage 1: (Zero MGD)</th>
<th>Stage 1: (22 MGD)</th>
<th>Stage 1: (16 MGD)</th>
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</table>
Simulated Lake Mountain Island Elevations and Outflows

Simulated Lake Mountain Island Elevation Profiles during 2002 Drought

Lake Mountain Island Flow Remains above, cfs
Exceedance, Percent Time

Lake Mountain Island Outflows for all Elevations Between Jan 1, 1929 and Dec 31, 2003
Exceedance, Percent Time

End of Day Elevation, ft

Stage 1: (Zero / 22 MGD)
Stage 2: (22 MGD)
Stage 3: (16 MGD)
Stage 4: (10 MGD)
Stage 5: (Zero IBT)
Stage 6: (10 MGD IBT)
Stage 7: (16 MGD IBT)
Stage 8: (22 MGD IBT)

Stage 1: (Zero MGD)
Stage 2: (22 MGD)
Stage 3: (16 MGD)
Stage 4: (10 MGD)
Stage 5: (Zero IBT)
Stage 6: (10 MGD IBT)
Stage 7: (16 MGD IBT)
Stage 8: (22 MGD IBT)

Lake Mountain Island Elevations for all Elevations Between Jan 1, 1929 and Dec 31, 2003
Exceedance Curve of Lake Mountain Island Elevations for all Elevations Between Jan 1, 1929 and Dec 31, 2003
Exceedance, Percent Time

Exceedance Curve of Lake Mountain Island Outflows for all Outflows Between Jan 1, 1929 and Dec 31, 2003
Exceedance Curve of Lake Mountain Island Flow Remains above, cfs
Exceedance, Percent Time

Stage 1: (Zero / 22 MGD)
Stage 2: (22 MGD)
Stage 3: (16 MGD)
Stage 4: (10 MGD)
Stage 5: (Zero IBT)
Stage 6: (10 MGD IBT)
Stage 7: (16 MGD IBT)
Stage 8: (22 MGD IBT)
Simulated Lake Great Falls Elevations and Outflows

Lake Great Falls Levels Remain above Elevation, FT

Lake Great Falls Flow Remain above, cfs

Exceedance Curve of Lake Great Falls Elevations for all Elevations Between Jan 1, 1929 and Dec 31, 2003

Exceedance Curve of Lake Great Falls Outflows for all Outflows Between Jan 1, 1929 and Dec 31, 2003

Simulated Lake Great Falls Elevation Profiles during 2002 Drought
Simulated Lake Rocky Creek Elevations and Outflows

Simulated Lake Rocky Creek Island Elevation Profiles during 2002 Drought

Lake Rocky Creek Levels Remain above Elevation, ft

Lake Rocky Creek Flow Remain above, cfs

Exceedance Curve of Lake Rocky Creek Elevations for all Elevations Between Jan 1, 1929 and Dec 31, 2003

Exceedance Curve of Lake Rocky Creek Outflows for all Outflows Between Jan 1, 1929 and Dec 31, 2003