2011
A year in lake elevation increases
Creel Census

• 94 days of creel surveys conducted at 4 landings
  – 888 anglers contacted
  – 2555 fish harvested

• Catch rates increased slightly
  – Average 0.84 fish per angler hour

• Fish per angler day increased from an average of 3.4 to 4.0 fish per angler day
Angler catch rates vs. Angler Days

Lake Mead Angler Success

- Y-axis: Fish/Angler Hour
- X-axis: Year
- Data ranges from 1984 to 2011
- Graph shows the trend of angler success over the years.
Creel harvest
Species percentage

Year

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

09 10 11
Shad production by year

Overton Arm

Boulder Basin

Year

Avg. peak production

0 50 100 150 200 250 300
0 1 2 3 4 5 6 7 8 9 10 11

Fall gill nets

- 93 nets, 140 net nights of effort
  - NDOW, AZGFD, BOR, NPS
- 2,070 fish captured
- CPUE=14.75 Fish/net night
  (a decrease from last year’s CPUE of 19.5 fish per net night)
Black Bass fishery monitoring

- 33 Bass tournaments in 2011
- Largemouth bass
  - Average 16.3 inches, 2.1 lbs.
  - (2010- 16 inches, 2.1 lbs.)
- Smallmouth bass
  - Average 15.6 inches, 1.8 lbs.
  - (2010- 15.2 inches, 1.7 lbs.)
Snorkel surveys

Number per 30 min. dive

2008 2009 2010 2011
LMB YOY SMB YOY

Number per 30 min. dive

2008 2009 2010 2011
LMB-sub-adult SMB-sub-adult

Number per 30 min. dive

2008 2009 2010 2011
LMB-adult SMB-adult
Tournament striped bass

- Average length 20 inches, weight 2.75 lbs.
- Last year 18.5 inches, weight 2.4 lbs.
Striped Bass Telemetry Study

- 20 Striped bass were sonic tagged and released 12/2/2011
- 10 released at Boulder Harbor
- 9 released at Echo Bay
- 1 mortality
Fish 51 & 54 travelled >40 miles from release site
Summary

• The lake has come up 46 feet over the year
• Largemouth bass are responding favorably to high lake elevation, increased cover
• Tournament caught striped bass condition has improved over last five years
• Improved angler catch rates for 2011
  – however, below 1.0 fish/angler hour, despite decrease in angling pressure