

NAVAJO NATION SPORTFISHING

OVERVIEW, 2014 RECAP, AND 2015 FORECAST



GLENN SELBY-FISH BIOLOGIST

OVERVIEW

- WARM WATER FISHERIES

- GANADO
- COW SPRINGS
- MORGAN

- COLDWATER FISHERIES

- WHEATFIELD
- ASAAYI
- CUTTER DAM
- BERLAND
- TSAILE



WARM WATER FISHERIES

- GANADO
 - LARGEMOUTH BASS
 - CHANNEL CATFISH
 - BLUEGILL
- MORGAN
 - LARGEMOUTH BASS
 - CHANNEL CATFISH
 - BLUEGILL
- COW SPRINGS
 - CHANNEL CATFISH
 - LARGEMOUTH BASS



COLDWATER FISHERIES

- WHEATFIELD
- ASAAYI
- TSAILE
- CUTTER
- BERLAND



GANADO LAKE

- LOTS OF SMALL BASS (10"-12")
- 8+ INCH CATFISH STOCKED ANNUALLY
- BLUEGILL ALSO PRESENT
- CATFISH > 20" COMMON
- HEAVILY VEGETATED SHORELINES IN SUMMER



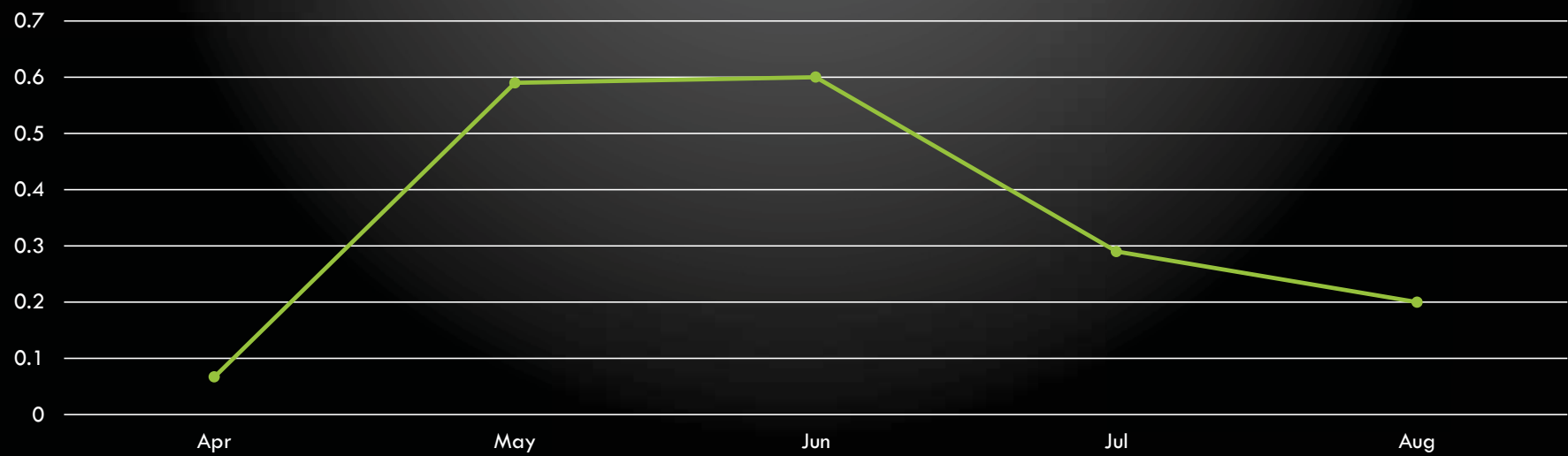
CATCH DATA

- CONDUCTED 44 CREEL SURVEYS FROM 3/14-9/14
- 90 ANGLERS AND 198 HOURS OF FISHING EFFORT
- .39 FISH/HR
- 65 LMB AND 14 CNC



CPUE BY MONTH

CPUE at Ganado in FY'14



STOCKING DATA

- STOCKED 6,140 CHANNEL CATFISH IN FY 2014
 - 4,000 IN MAY
 - 2,140 IN JULY



2015 FORECAST

- 4,000 CNC TO BE STOCKED IN MAY
- 2,100 CNC TO BE STOCKED IN JULY
- HIGH NUMBERS OF SMALL BASS
- EXPECT CATCH RATES SIMILAR TO 2014
- WILL CHECK FOR BASS AND BLUEGILL SPAWN IN SPRING 2015



COW SPRINGS

- STOCKED ANNUALLY WITH CHANNEL CATFISH
- LARGEMOUTH BASS STOCKED UNTIL 2010
- POSSIBLY YELLOW PERCH
- STOCKED 4,000 CHANNEL CATFISH IN MAY 2014
- NO CREEL OR SAMPLING DATA FOR 2014



2015 FORECAST

- 4,000 CHANNEL CATFISH TO BE STOCKED IN MAY 2015
- EXPECT SIMILAR CATCH RATES IN 2015
- SAMPLE WITH TRAP NETS IN MAR/APR 2015?

MORGAN LAKE

- APS POWER PLANT LAKE
- LARGEMOUTH BASS
- CHANNEL CATFISH
- BLUEGILL
- COMMON CARP



SURVEY DATA

Length frequency of SP
2014 EF survey at Morgan



SURVEY DATA

- SAMPLED IN SPRING 2014
- 19.8 LMB/HR
- 26.9 FISH/HR
- AVERAGE BASS= 1.23 LBS
- RELATIVE WEIGHT = 100
- 55 % QUALITY (300-379MM)
- 35% PREFERRED (380-509MM)



STOCKING DATA

- 10,000 8" CHANNEL CATFISH STOCKED IN MAY 2014
- VISUALLY OBSERVED LMB FINGERLINGS SPAWNED IN 2014



CATCH DATA

- 21 CREEL SURVEYS CONDUCTED
- 39 ANGLERS INTERVIEWED
- .89 FISH/HR
- 156 LMB AND 21 CNC



2015 FORECAST

- 10,000 CHANNEL CATFISH TO BE STOCKED IN MAY
- EXCELLENT BASS FISHING THROUGH APRIL AND FROM NOV-DEC
- BASS FISHING FAIR DURING SUMMER MONTHS
- CATFISHING FAIR; EXPECT SIMILAR CATCH RATES TO 2014
- TOURNAMENT WEIGHTS UP IN FALL 2014

HABITAT IMPROVEMENT

- ASSISTED LOCAL BASS CLUB WITH HABITAT IMPROVEMENT PROJECT IN FEB 2014
- SUNK CLUSTERS OF CHRISTMAS TREES
- 2015 HABITAT IMPROVEMENT PROJECT-MOSSBACK HABITAT IMPROVEMENT GRANT PROPOSAL SUBMITTED BY B.A.S.S.
 - MOSSBACK FISH STRUCTURES
 - IMPROVE SPAWNING AND RECRUITMENT OF BASS



WHEATFIELD LAKE

- STOCKED WITH RAINBOW TROUT EACH SPRING AND FALL
- STILL SOME BROWN TROUT CAUGHT
- MOST POPULAR NN LAKE



SURVEY DATA

- SAMPLED IN FALL 2014
- 77.3 RBT/HR OF ELECTROFISHING
- AVG LENGTH =10.7 INCHES
- AVG WEIGHT =0.5LBS
- BIG FISH=4LBS
- WILL SAMPLE AGAIN IN FALL 2015



STOCKING DATA

- 24,589 RBT STOCKED IN FALL 2013
- 43,210 RBT STOCKED IN SPRING 2014
 - 67,799 RBT STOCKED IN FY 2014
- 21,000 RBT STOCKED IN FALL 2014



CATCH DATA

- 492 CREEL SURVEYS CONDUCTED
- 1,553 ANGLERS INTERVIEWED
- .14 FISH/HR IN FY 2014
 - UP FROM .08 IN FY 2013
- 550 RBT



CPUE BY MONTH

CATCH RATE BY MONTH AT WHEATFIELD IN FY '14



2015 FORECAST

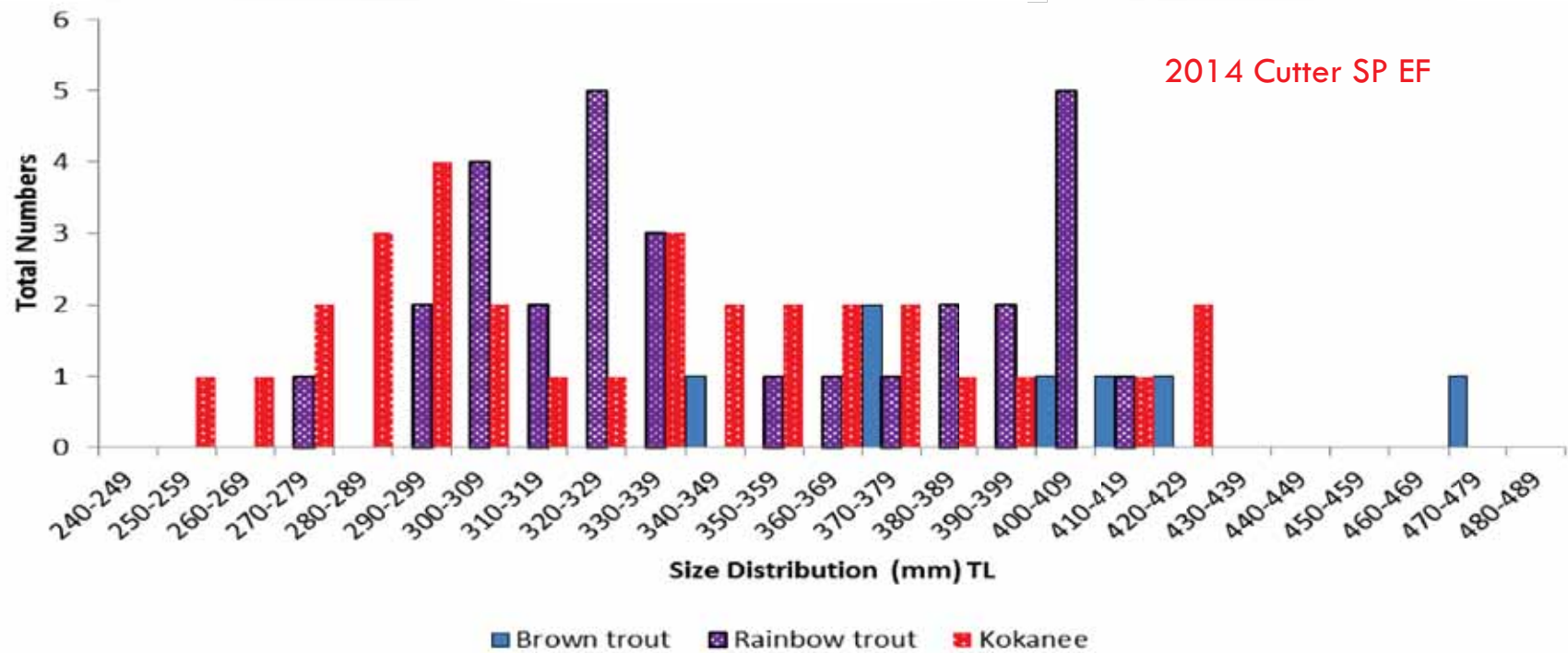
- 20,000 8" RAINBOW TROUT TO BE STOCKED IN SPRING 2015
- 16,000 4"-5" SUBCATCHABLE RAINBOW TROUT TO BE STOCKED IN SPRING 2015
- 2,000 10" RAINBOW TROUT TO BE STOCKED IN SPRING
- GOOD FISHING FEB-APR
- FAIR SUMMER FISHING
- EXCELLENT FALL FISHING (OCT-DEC)
 - COOLER WATER TEMPS
 - SPRING SUBCATCHABLES STOCKED
 - FALL STOCKING

CUTTER DAM

- RAINBOW TROUT STOCKED EACH SPRING
- FALL STOCKING OF RAINBOW TROUT IN 2014
- BROWN TROUT STILL PRESENT
- KOKANEE SALMON

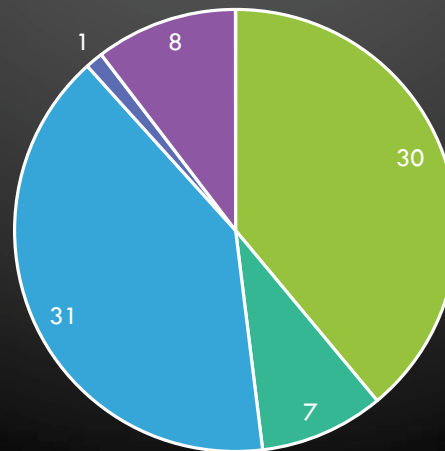


SURVEY DATA



SURVEY DATA

Number of Fish Captured in SP 14 EF Survey



■ Rainbow trout ■ Brown trout ■ Kokanee salmon ■ Common carp ■ White sucker

SURVEY DATA

- 101.5 FISH/HR (RBT/KOS/BNT)
- AVERAGE RELATIVE WEIGHTS
 - RBT=93
 - BNT=71
 - KOS=99



STOCKING DATA

- 9,000 RAINBOW TROUT STOCKED IN MARCH 2014
- 5,800 RAINBOW TROUT STOCKED IN NOVEMBER 2014



CATCH DATA

- ONLY 10 INTERVIEWS CONDUCTED
- 32 ANGLERS SURVEYED
- CPUE=.23 FISH/HR



2015 FORECAST

- 8,000 SUBCATCHABLE 4"-5" RBT TO BE STOCKED IN SPRING 2015
- 10,000 8" RBT TO BE STOCKED IN SPRING 2015
- FISHING EXPECTED TO BE EXCELLENT MAR-MAY
 - COOL WATER TEMPS
 - FALL STOCKING IN 2014
 - SPRING STOCKINGS
- SUMMER FISHING EXPECTED TO BE FAIR-GOOD
- FALL FISHING EXPECTED TO BE EXCELLENT
 - COOL WATER TEMPS
 - SUBCATCHABLE STOCKING IN SPRING 2015



BERLAND LAKE

- STOCKED EACH SPRING WITH RAINBOW TROUT
- OFTEN EXPERIENCES SUMMER FISH KILLS
- WINTER KILL
- AQUATIC VEGETATION AND DECLINING WATER LEVELS IN SUMMER MONTHS



STOCKING DATA

- 3,121 6" RAINBOW TROUT STOCKED IN MARCH 2014
- 2,500 8" RAINBOW TROUT STOCKED IN MAY 2014
- TOTAL RAINBOW TROUT STOCKED IN 2014=5,621



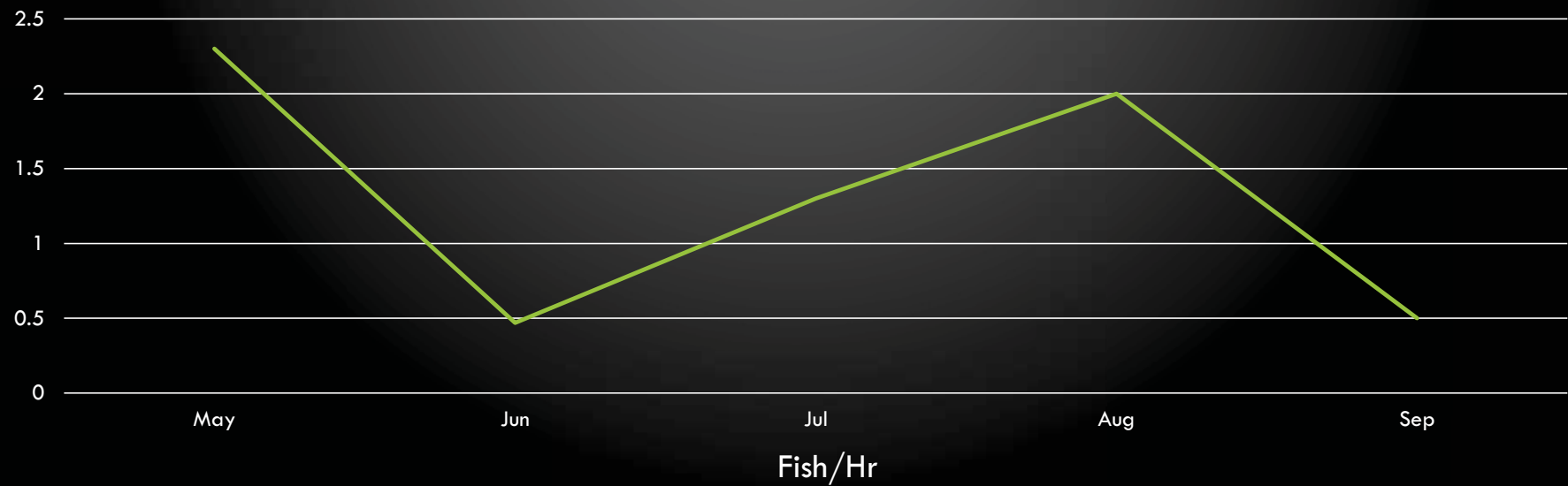
CATCH DATA

- CONDUCTED 46 INTERVIEWS
- 123 ANGLERS AND 205.5 ANGLER EFFORT
- CATCH RATE = .95 FISH/HR
- 195 RAINBOW TROUT



CPUE BY MONTH

Catch Rates by Month at Berland Lake in 2014



2015 FORECAST

- 5,000 8" RAINBOW TROUT TO BE STOCKED IN SPRING 2015 (APR/MAY)
- FISHING SHOULD BE EXCELLENT AGAIN MAY-OCT
- HIGH STOCKING RATE
 - GREAT PLACE TO TAKE KIDS FISHING
 - GOOD CATCH RATES
- DO NOT BE SURPRISED IF THERE IS A SMALL SUMMER FISH KILL
 - COMPLETE KILLS ARE RARE

ASAAYI LAKE

- TYPICALLY STOCKED EACH SPRING AND FALL
- SUFFERED SEVERE FISH KILLS FOLLOWING ASAAYI LAKE FIRE
- NOT STOCKED IN FALL 2014 DUE TO POOR WATER QUALITY FOLLOWING FIRE
- NOT SCHEDULED FOR SPRING STOCKING IN 2015 DUE TO ANTICIPATED FISH KILLS FOLLOWING SPRING SNOW MELT
- POSSIBLE FALL STOCKING?



STOCKING DATA

- 21,000 8" RAINBOW TROUT STOCKED IN SPRING 2014
- NO FALL STOCKING DUE TO IMPACTS FROM FIRE



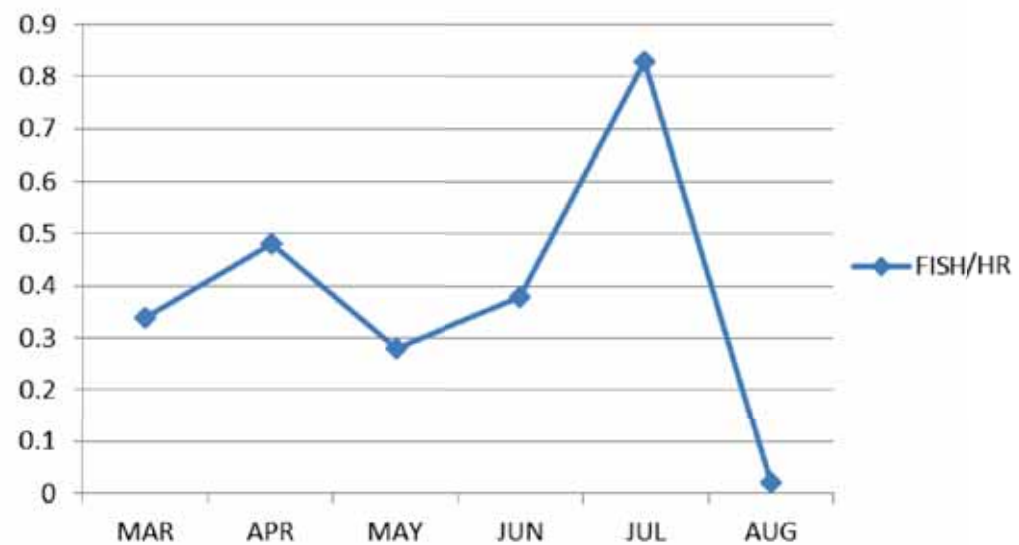
CATCH DATA

- CONDUCTED 109 INTERVIEWS
- 274 ANGLERS AND 826.75 HOURS OF EFFORT
- CATCH RATE = .46 FISH/HR



CATCH DATA

CATCH RATE BY MONTH AT ASAAYI IN FY '14





TSAILE LAKE

- LAKE DRAINED IN 2014
- DAM REPAIRS SCHEDULED TO BEGIN IN SPRING 2015
 - DAM REPAIRS
 - KILL UNDESIRABLE SPECIES
 - GOLDFISH
- RESTOCK LAKE WITH RAINBOW TROUT FOLLOWING FILL UP AFTER DAM REPAIRS



2014 MAIL OUT SURVEY

- MAILED 300 SURVEYS TO ANGLERS WHO PURCHASED SEASON FISHING PERMITS
 - 51 SURVEYS RETURNED FILLED OUT
 - 42 SURVEYS RETURNED UNDELIVERABLE
 - 207 SURVEYS NOT RETURNED
- SURVEY CONSISTED OF 7 QUESTIONS
 - HOW MANY DAYS FISHED AT EACH LAKE
 - DO YOU PREFER TO KEEP/RELEASE YOUR CATCH
 - DO YOU PREFER TO FISH FOR COLDWATER/WARM WATER/BOTH SPECIES
 - RATE YOUR SATISFACTION LEVEL 1-5
 - WHY WERE YOU SATISFIED/DISSATISFIED
 - DO YOU PREFER TO CATCH LARGER BUT FEWER/MORE BUT SMALLER/AVERAGE NUMBER AND SIZE FISH
 - WOULD YOU BE INTERESTED IN A NAVAJO MASTER ANGLER PROGRAM
 - ADDITIONAL COMMENTS

2014 MAIL OUT SURVEY

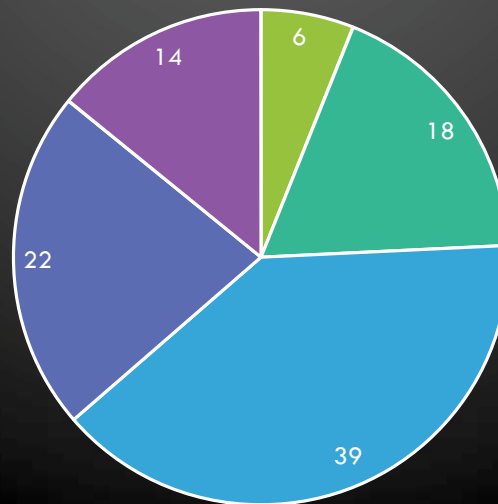
- AVERAGE ANGLER FISHED 12.75 TIMES
- 57% OF RESPONDENTS PREFER TO KEEP THEIR CATCH
- 51% PREFER TO FISH BOTH WARM WATER AND COLDWATER SPECIES
 - 35% PREFER TO FISH COLDWATER SPECIES
 - 14% PREFER TO FISH WARM WATER SPECIES
- 63% PREFER TO CATCH AVERAGE NUMBER AND AVERAGE SIZE FISH
 - 27% PREFER TO CATCH FEWER BUT LARGER FISH
- 63% INDICATED THEY WOULD BE INTERESTED IN A MASTER ANGLER PROGRAM

MAIL OUT SURVEY

- AVERAGE SATISFACTION RATING=3.2/5
- 31% INDICATED THEY CAUGHT A LOT OF FISH
- 37% INDICATED THEY DID NOT CATCH A LOT OF FISH
- 25% INDICATED THEY DID NOT CATCH ANY FISH
- 16% INDICATED THEY THOUGHT WATERS WERE STOCKED WELL
- 39% INDICATED THEY THOUGHT WATERS WERE NOT STOCKED WELL
- 20% INDICATED THEY THOUGHT THE LAKES WERE TOO CROWDED

MAIL OUT SURVEY

% OF RATINGS



1 2 3 4 5

QUESTIONS???

