

NORTHERN REGION AIS SUMMARY (2011 Boating Season)

Prepared by Candace Hutchinson, AIS Biologist I

General

Region Wide Operations

One Biologist I position funded for 12 months by UDWR (\$75,971 project E1A520xxx) to manage the regional AIS program and supervise the Wildlife Technician II position along with some of the Wildlife Technician I positions.

One Wildlife Technician II position funded for 7 months by UDWR (\$24,169 project E1A520xxx) to rove between regional waters as needed and to supervise a segment of the Wildlife Technician I positions.

Water-By-Water Reports

Bear Lake

1. Budget, Personnel & Equipment
 - a. UDWR \$10,340 (program E1A520xxx); 1 technician assigned end May thru first of September (3 months).
 - b. One \$13,400 decontamination unit purchased with UDWR funds (program E1A520xxx purchased FY07).

2. Outreach
 - a. “No mussels!” brochures as reminders about “Clean, Drain & Dry” and “Decontamination Certification Forms” were given to boaters at water body gate entrances and boat launches.
 - i. UDWR and Bear Lake Watch volunteers assisted.
 - b. Over 3,000 boats were interdicted, inspected and educated by UDWR.
 - c. About 36,000 certification forms were distributed by UDWR, Iron Rangers and UDPR
 - c. 95% of boaters are aware of invasive mussel issues. 95% of boaters are aware of Clean, Drain and Dry.
 - d. Trained SP&R on Level I watercraft inspections.

3. Decontaminations & Encrusted Boats
 - a. Four boats were decontaminated; two were from Lake Mead and two were rented boats with an unknown use history.
 - b. No boats were encrusted with quagga or zebra mussels.

4. Boater History of Last Water Visited and Next Destination (134 interviews)
 - a. Top 5 Last Water Visited

1. Bear Lake = 50 (37%)
2. Lake Powel= 10
3. Willard = 10
4. Utah Lake =10
5. Deer Creek = 10
- b. Top 5 Next Destination
 1. Bear Lake = 86 (64%)
 2. Willard Bay = 14
 3. Pineview = 6
 4. Rockport = 6
 5. Utah Lake = 4

Note: 37% to 64% of Bear Lake boaters seem to frequently use Bear Lake.

5. Assessment for Presence/Absence of *Dreissena veligers* via Plankton Samples
 - a. Plankton samples were all sent to the Bureau of Reclamation’s microscopy lab in Denver, CO; all were found to be negative.
6. Law Enforcement Efforts
 - a. Regional Conservation Officers assisted with the interdiction, inspection and education of boaters during their routine boater/angler checks. Written warnings were given to boaters that were non-compliant with the self certification process. No “Notice to Appear” in court citations were issued.

East Canyon and Echo Reservoirs

1. Budget, Personnel & Equipment
 - a. UDWR \$10, 340 will use funding from for 1 person (program E4F740XXX); 1 technician shared between East Canyon and Echo reservoirs was assigned mid June thru first of September (3 months).
 - i. The primary focus was placed at East Canyon Reservoir, since Echo resort staff partnered in overseeing interdiction, inspection & decontamination work at that location.
 - b. Two \$13,400 decontamination units purchased with UDWR funds and shared between East Canyon, Echo & Rockport Reservoirs (one purchased FY07 & one purchased Fall of FY10).
2. Outreach
 - a. “No mussels!” brochures as reminders about “Clean, Drain & Dry” and “Decontamination Certification Forms” were given to boaters at water body gate entrances and boat launches.
 - i. UDWR volunteers assisted.
 - b. Approximately 3,000 boats/watercrafts were interdicted, inspected and educated at East Canyon by UDWR.
 - i. No count was taken at Echo Reservoir by resort staff.

- c. About 36,000 certification forms were distributed by UDWR, Iron Rangers and UDPR.
 - d. 99% of boaters were aware of the invasive mussel issue. 96% of boaters are aware of Clean, Drain and Dry.
 - e. Trained SP&R on Level I watercraft inspections.
3. Decontaminations & Encrusted Boats
- a. No boats needed to be decontaminated.
 - b. No boats were encrusted with quagga or zebra mussels.
4. Boater History of Last Water Visited and Next Destination (120 interviews)
- a. Top 5 Last Water Visited
 - 1. East Canyon = 60 (50%)
 - 2. Willard Bay = 11
 - 3. Pineview = 8
 - 4. BearLake = 6
 - 5. FlammingGorge = 4
 - b. Top 5 Next Destinations
 - 1. East Canyon = 58 (48%)
 - 2. Willard = 20
 - 3. Flaming Gorge = 8
 - 4. Pineview = 6
 - 5. Strawberry = 5

Note: 50% to 48% of East Canyon boaters seem to frequently use East Canyon.

5. Assessment for Presence/Absence of *Dreissena veligers* via Plankton Samples
- a. Plankton samples were all sent to the Bureau of Reclamation's microscopy lab in Denver, CO; all were found to be negative.
6. Law Enforcement Efforts
- a. Regional Conservation Officers assisted with the interdiction, inspection and education of boaters during their routine boater/angler checks. Written warnings were given to boaters that were non-compliant with the self certification process. No "Notice to Appear" in court citations were issued.

Hyrum Reservoir

- 1. Budget, Personnel & Equipment
 - a. UDWR \$10,340 (program E1A520xxx); 1 technician assigned end of May thru first of September (3 months).
 - i. Technician also occasionally covered Mantua and Newton Reservoir boat launches.
 - b. One \$13,400 decontamination unit purchased with UDWR funds (program E1A520xxx purchased FY07).

2. Outreach
 - c. “No mussels!” brochures as reminders about “Clean, Drain & Dry” and “Decontamination Certification Forms” were given to boaters at water body gate entrances and boat launches.
 - i. UDWR volunteers assisted.
 - b. Over 2,000 boats interdicted, inspected and educated by UDWR
 - c. About 36,000 certification forms were distributed by UDWR, Iron Rangers and UDPR
 - d. 98% of boaters were aware of the invasive mussel issue. 96% of boaters are aware of Clean, Drain and Dry.
 - e. Trained SP&R on Level I watercraft inspections.
3. Decontaminations & Encrusted Boats
 - a. One boat needed to be decontaminated; it was from Lake Mead.
 - b. No boats were encrusted with quagga or zebra mussels.
4. Boater History of Last Water Visited and Next Destination (105 interviews)
 - a. Top 5 Last Water Visited
 1. Hyrum = 35 (33%)
 2. Bear Lake = 28
 3. Willard = 14
 4. Newton = 14
 5. Pineview = 8
 - b. Top 5 Next Destination
 1. Hyrum = 35 (33%)
 2. Bear Lake = 21
 3. Willard = 14
 4. Flaming Gorge = 14
 5. Newton = 7

Note: 33% of Hyrum boaters seem to frequently use Hyrum.

5. Assessment for Presence/Absence of *Dreissena veligers* via Plankton Samples
 - a. Plankton samples were all sent to the Bureau of Reclamation’s microscopy lab in Denver, CO; all were found to be negative.
6. Law Enforcement Efforts
 - a. Regional Conservation Officers assisted with the interdiction, inspection and education of boaters during their routine boater/angler checks. Written warnings were given to boaters that were non-compliant with the self certification process. No “Notice to Appear” in court citations were issued.

Pineview Reservoir

1. Budget, Personnel & Equipment

- a. UDWR \$10,340 (program E1A520xxx); 1 technician assigned end of May thru first of September (3 months).
 - b. USFS \$21,250 (program E4F470xxx); 2 technicians assigned June thru August (3 months each).
 - c. Two \$13,400 decontamination units:
 - i. One unit purchased with UDWR funds in FY08 (program E1A520xxx)
 - ii. One \$13,400 decontamination unit; purchased by USFS and transferred to UDWR in FY09.
2. Outreach
- a. “No mussels!” brochures as reminders about “Clean, Drain & Dry” and “Decontamination Certification Forms” were given to boaters at water body gate entrances and boat launches.
 - i. UDWR volunteers assisted.
 - b. Approximately 8,000 boats were interdicted, inspected and educated by UDWR
 - c. About 36,000 certification forms were distributed by UDWR, Iron Rangers and UDPR.
 - d. 95 % of boaters were aware of the invasive mussel issue. 75 % of Boaters are aware of Clean, Drain, and Dry.
 - e. Trained SP&R on Level I watercraft inspections.
3. Decontaminations & Encrusted Boats
- a. Six boats needed to be decontaminated; These six were from Lake Mead, Sand Hollow or from states known to have mussels
 - b. No boats were encrusted with quagga or zebra mussels.
4. Boater History of Last Water Visited and Next Destination (460 interviews)
- a. Top 5 Last Water Visited
 - 1. Pineview = 221 (48%)
 - 2. Willard = 59
 - 3. Lake Powell = 19
 - 4. Utah Lake = 16
 - 5. Flamming Gorge = 11
 - b. Top 5 Next Destination
 - 1. Pineview = 292 (63%)
 - 2. Willard Bay = 32
 - 3. Lake Powell = 12
 - 4. East Canyon = 11
 - 5. Flamming Gorge = 8

Note: 56% to 64% of Pineview boaters seem to frequently use Pineview.

5. Assessment for Presence/Absence of *Dreissena veligers* via Plankton Samples
 - a. Plankton samples were all sent to the Bureau of Reclamation's microscopy lab in Denver, CO; all were found to be negative.
6. Law Enforcement Efforts
 - a. Regional Conservation Officers assisted with the interdiction, inspection and education of boaters during their routine boater/angler checks. Written warnings were given to boaters that were non-compliant with the self certification process. No "Notice to Appear" in court citations were issued.

Rockport Reservoir

1. Budget, Personnel & Equipment
 - a. Weber Basin WCD \$18,337 (program E4F740xxx); 1 technician assigned June thru August (3 months). Note: \$18,337 includes funds for 1 position for East Canyon.
 - b. One \$13,400 decontamination unit--purchased with Weber Basin WCD funds in Fall of FY10 (program E4F740xxx).
4. Outreach
 - a. "No mussels!" brochures as reminders about "Clean, Drain & Dry" and "Decontamination Certification Forms" were given to boaters at water body gate entrances and boat launches.
 - i. UDWR volunteers assisted.
 - b. Approximately 2,500 boats were interdicted, inspected and educated by UDWR
 - c. About 36,000 certification forms were distributed by UDWR, Iron Rangers, and UDPR.
 - d. 95% of boaters were aware of the invasive mussel issue. 90% of boaters are aware of Clean, Drain and Dry.
 - e. Trained SP&R on Level I watercraft inspections.
3. Decontaminations & Encrusted Boats
 - a. No boats required decontamination.
 - b. No boats were encrusted with quagga or zebra mussels.
4. Boater History of Last Water Visited and Next Destination (104 interviews)
 - a. Last Water Visited
 1. Rockport = 41 (39%)
 2. Willard = 8
 3. Jordanelle = 8
 4. Utah Lake = 7
 5. LakePowel = 5
 - b. Next Destination
 1. Rockport = 63 (61%)

2. Jordanelle = 11
3. Echo = 5
4. Bear Lake = 2
5. Lake Powel = 2

Note: 39% to 61% of Rockport boaters seem to frequently use Rockport.

5. Assessment for Presence/Absence of *Dreissena veligers* via Plankton Samples
 - a. Plankton samples were all sent to the Bureau of Reclamation's microscopy lab in Denver, CO; all were found to be negative.
6. Law Enforcement Efforts
 - a. Regional Conservation Officers assisted with the interdiction, inspection and education of boaters during their routine boater/angler checks. Written warnings were given to boaters that were non-compliant with the self certification process. No "Notice to Appear" in court citations were issued.

Willard Bay Reservoir

1. Budget, Personnel & Equipment
 - a. UDWR \$10,340 (program E1A520xxx); 1 technician assigned end of May thru first of September (3 months).
 - b. One \$13,400 decontamination unit--purchased with UDWR funds in FY07 (program E1A520xxx).
2. Outreach
 - a. "No mussels!" brochures as reminders about "Clean, Drain & Dry" and "Decontamination Certification Forms" were given to boaters at water body gate entrances and boat launches.
 - i. UDWR volunteers assisted.
 - b. Over 3,000 boats were interdicted, inspected and educated by UDWR.
 - c. About 36,000 certifications were distributed by UDWR, Iron Rangers, and UDPR.
 - d. 95% of boaters were aware of the invasive mussel issue. 90% of boaters are aware of Clean, Drain, and Dry.
 - e. Trained SP&R on Level I watercraft inspections.
3. Decontaminations & Encrusted Boats
 - a. One boat needed to be decontaminated it was out of Lake Mead
 - b. No boats were encrusted with quagga or zebra mussels.
4. Boater History of Last Water Visited and Next Destination (99 interviews)
 - a. Top 5 Last Waters Visited
 1. Willard Bay = 57 (57%)

2. Pineview = 11
3. Lake Powell = 5
4. Mantua = 5
5. Strawberry = 3

b. Top 5 Next Destinations

1. Willard Bay = 63 (64%)
2. Pineview = 9
3. FlammingGorge = 7
4. Mantua = 6
5. Lake Powell = 5

Note: 57% to 64% of Willard boaters seem to frequently use Willard.

5. Assessment for Presence/Absence of *Dreissena veligers* via Plankton Samples
 - a. Plankton samples were all sent to the Bureau of Reclamation's microscopy lab in Denver, CO; all were found to be negative.
6. Law Enforcement Efforts
 - a. Regional Conservation Officers assisted with the interdiction, inspection and education of boaters during their routine boater/angler checks. Written warnings were given to boaters that were non-compliant with the self certification process. No "Notice to Appear" in court citations were issued.