Evaluate Status of Pacific Lamprey in the Clearwater River Drainage, Idaho

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2001
EVALUATE STATUS OF PACIFIC LAMPREY IN THE CLEARWATER RIVER DRAINAGE, IDAHO

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TABLE OF CONTENTS

ABSTRACT ...................................................................................................................................... 1
INTRODUCTION ................................................................................................................................... 2
PROJECT AREA .............................................................................................................................2
OBJECTIVES ...................................................................................................................................4
METHODS ........................................................................................................................................ 4
RESULTS .......................................................................................................................................... 5
SUMMARY AND DISCUSSION ........................................................................................................10
LITERATURE CITED ........................................................................................................................12
APPENDIX A ...................................................................................................................................14

LIST OF TABLES

Table 1. Habitat substrate classification for sampling sites in the South Fork
Clearwater River Drainage.................................................................................................................. 5

Table 2. Habitat locations of Pacific lamprey larvae in randomly sampled units in Red
River and selected units in South Fork Clearwater River, ID, 2001 ........................................... 8

Table 3. Presence absence surveys of Pacific lamprey larvae in selected units in Red
River, South Fork Clearwater River drainage ID, 2001 ............................................................... 8

LIST OF FIGURES

Figure 1. Geographic location of Pacific lamprey investigations in the South Fork
Clearwater River drainage, 2000-01 ......................................................................................... 4

Figure 2. Length frequency of Pacific lamprey (N=23) captured in Red River migrant
trap, South Fork Clearwater River drainage, ID, 2001 ......................................................... 6

Figure 3. Length frequency of Pacific lamprey (N=240) captured by electroshocking in
Red River, ID, 2000-01 ............................................................................................................. 7

Figure 4. Length frequency of Pacific lamprey (N=344) captured by electroshocking in
South Fork Clearwater River, ID, 2000-01 ........................................................................... 9
List of Figures Cont.

Figure 5. Red River maximum/minimum stream temperatures (rkm 5.0), November 1999 to September 2000, South Fork Clearwater River drainage, ID. .......................... 10

Figure 6. Red River stream and substrate temperature (rkm 1.0) to (rkm 10.0), 1545 – 1800 hrs., August 9, 2001, South Fork Clearwater River drainage, ID .......... 10

Figure 7. Snake River average monthly stream flow and juvenile/larval Pacific lamprey collection/bypass estimation, Lower Granite Dam, WA. 1998................................. 11
ABSTRACT


Through Bonneville Power Administration support, the Idaho Department of Fish and Game continued investigation into the status of Pacific lamprey populations in Idaho’s Clearwater River drainage in 2001. Trapping, electrofishing, and spawning ground redd surveys were used to determine Pacific lamprey distribution, life history strategies, and habitat requirements in the South Fork Clearwater River drainage. Forty-three sites in Red River, South Fork Clearwater River, and their tributaries were electrofished in 2001. Sampling yielded a total of 442 juvenile/larval Pacific lamprey. Findings indicate Pacific lamprey juveniles/larvae are not numerous or widely distributed. Pacific lamprey distribution in the South Fork of the Clearwater River drainage was confined to lower reaches of Red River (rkm 8.0 to mouth) and the South Fork Clearwater River.
INTRODUCTION

The Pacific lamprey *Lampetra tridentata* is facing the same migratory hazards and habitat degradation as other anadromous fish species in Idaho. Because this fish is not recognized as a sport or game fish species, little attention has been given to its status. The ecological interaction of Snake River Pacific lamprey and other riverine species is thought to contribute to the Snake River basin overall aquatic productivity. Pacific lamprey ammocoetes provide Snake River basin white sturgeon *Acipenser transmontanus* populations with an important food source (Galbreath 1979), which potentially contributed to Snake River white sturgeon historical productivity. Pacific lamprey, chinook salmon, *Oncorhynchus* spp. and summer steelhead trout, *O. mykiss* rear in Snake River basin stream habitats, however, the ecological relationship of the three species in freshwater is little known. Basic life history, distribution, and remaining population status are urgently needed to fully understand this species and to begin intensive management before populations decline to unrecoverable threshold in Idaho.

The South Fork Clearwater River (SFCR) drainage of north central Idaho is an important study area as both Pacific lamprey ammocoetes and macrothalmia have been captured in outmigrant anadromous fish smolt traps since 1992.

Understanding Pacific lamprey larval fish population composition, migrational behavior, and habitat needs will provide basic information to better manage Pacific lamprey. Without this knowledge, the opportunity for preservation of critical habitat may be lost. This project will add to our knowledge of Pacific lamprey and provide critical information to minimize future degradation of habitat.

PROJECT AREA

The Clearwater River drainage is located in north central Idaho and encompasses approximately 2.5 million hectares. The SFCR, one of the four major tributaries of the Clearwater River, drains 300,440 hectares. The upper SFCR watershed has several large meadow complexes with low stream gradients and fine substrates. The mid and lower SFCR reaches are predominantly canyon confined and boulder substrate dominated. In 1910 Grangeville Electric Light and Power Company constructed a hydroelectric dam on the SFCR at rkm 32.0. In 1937 Avista Utilities, (formerly Washington Water Power), acquired the dam. Steelhead trout migration was possible, although limited, over the dam from 1935 to 1949. High flows destroyed the fishway in 1945 eliminating adult salmonid passage until the dam was removed in 1963. Adult Pacific lamprey passage may have occurred during this entire period as adult Pacific lamprey have the ability to climb above water surface levels (G. Starke, U.S. Army Corps of Engineers, personal communications). Pacific lamprey returns to the main Clearwater River in the period following removal of the SFCR dam could have provided recolonization stock for the SFCR drainage.
The current land ownership of the SFCR watershed is U.S. Forest Service (68%), private (28%), Nez Perce Tribe (0.9%), Bureau of Land Management (2%), and State of Idaho (0.7%). Land use activities range from predominantly forestry related in the upper SFCR to livestock pasture and grazing in middle and lower reaches. Historically, mining was centered in the upper reaches. Extensive mining from the 1860’s to the mid-1900’s occurred in four SFCR tributaries, Crooked River, Red River, American River, and Newsome Creek. Mining in the watershed has impacted fish production in varying degrees through sedimentation, channel alteration, and riparian habitat degradation. Riparian canopy removal in the meadow complexes of the upper SFCR watershed contributes to elevated summer stream temperatures.

Figure 1. Geographic location of Pacific lamprey investigations in the South Fork Clearwater River drainage, 2000/01, L=lamprey found.
OBJECTIVES

1. Determine life history characteristics of Pacific lamprey ammocoetes and macrothalmia in the Clearwater River drainage.
2. Determine habitat requirements of Pacific lamprey in the Clearwater River drainage.
3. Determine distribution of Pacific lamprey in SFCR drainage.
4. Develop and implement strategies to protect Pacific lamprey adult and juvenile/larval habitat.

METHODS

Electroshocking with an ABP-2 electrofisher was used to capture fish in the stream channel. Any Pacific lamprey mortalities were to be retained for statolith banding age determination, following procedures described by Beamish and Medland (1988). Determination of habitat usage was focused in the Red River drainage. Presence-absence surveys were completed in the Red River subbasin and the SFCR basin. We segmented Red River into one-kilometer sections from its mouth upstream to the uppermost bridge crossing. We prioritized 41 sampling locations based on random selection of kilometer section and sampled the first 100 meters of each selected section. The habitat in each of the sampled sections was classified as to type (Table 1). The first riffle, pool, glide, etc., was electroshocked from its downstream boundary upstream without repeating sampling in identical habitat types. Water depth, water velocity, and substrate composition were measured and recorded at the site of individual captures.

Three downstream migrant traps currently operated by Idaho Department of Fish and Game (IDFG) in the SFCR drainage were used to monitor Pacific lamprey downstream movements. The Crooked River scoop trap (rkm 1.0) was operated from March 23 to October 31. A 1.22m diameter rotary screen trap on American River (rkm 3.0) was operated from April 1 to October 31. Another 1.22m diameter rotary screen trap on Red River (rkm 6.0) was operated from March 29 to October 31.

Captured Pacific lamprey juveniles were anesthetized, and total lengths and body weights measured. Individuals were then recovered in fresh water and released near the site of capture. Red River subbasin Pacific lamprey ammocoetes (greater than 100 mm in length) captured by electroshocking were marked with fluorescent orange elastomer on the right side behind the gill openings. Outmigrant estimates past traps were made using Beamish and Levings (1991) trap-area fished methods.

IDFG Red River trap temperature monitor information was obtained and plotted to determine maximum annual stream temperature at rkm 5.0. Stream and substrate temperatures at 10.0 cm depth were measured at ten Red River sites on August 9, 2001. The substrate temperatures were measured in fine gravel and silt deposits. The stream and substrate temperatures were assessed to determine if temperatures were similar in the two habitats.
Seven kilometers of Red River and its tributaries were surveyed visually for spawning adult Pacific lamprey from May 1 to July 1.

Table 1. Habitat substrate classification for sampling sites in the South Fork Clearwater River drainage.

<table>
<thead>
<tr>
<th>Habitat Units</th>
<th>I.D.</th>
<th>Substrate Type (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Falls</td>
<td>FLL</td>
<td>Large Boulder</td>
</tr>
<tr>
<td></td>
<td></td>
<td>512 +</td>
</tr>
<tr>
<td>Cascades</td>
<td>CAS</td>
<td>Small Boulder</td>
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<tr>
<td></td>
<td></td>
<td>256-512</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cobble</td>
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<td></td>
<td></td>
<td>64-256</td>
</tr>
<tr>
<td>Rapids</td>
<td>RTT</td>
<td>Coarse Gravel</td>
</tr>
<tr>
<td></td>
<td></td>
<td>16-64</td>
</tr>
<tr>
<td>Typical</td>
<td>RBB</td>
<td>Medium Gravel</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8-16</td>
</tr>
<tr>
<td>Boulders</td>
<td>RBD</td>
<td>Fine Gravel</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2-8</td>
</tr>
<tr>
<td>Bedrock</td>
<td>RBB</td>
<td>Course Sand</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.5-2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fine Sand</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.062-0.50</td>
</tr>
<tr>
<td>Typical</td>
<td>RIF</td>
<td>Silt/Organic</td>
</tr>
<tr>
<td>Pocket-water</td>
<td>RIP</td>
<td>0.004-0.062</td>
</tr>
<tr>
<td>Glide</td>
<td>GLD</td>
<td></td>
</tr>
<tr>
<td>Pools</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lateral Scour Pool</td>
<td>LSP</td>
<td></td>
</tr>
<tr>
<td>Straight Scour Pool</td>
<td>SCP</td>
<td></td>
</tr>
<tr>
<td>Plunge Pool</td>
<td>PPP</td>
<td></td>
</tr>
<tr>
<td>Dammed Pool</td>
<td>DMP</td>
<td></td>
</tr>
<tr>
<td>Alcove</td>
<td>ALC</td>
<td></td>
</tr>
</tbody>
</table>

Snake River juvenile/larval Pacific lamprey passage information at Lower Granite project was obtained from the Washington Department of Fish and Wildlife sampling personnel in 2001. Mortality samples of macrothalmia and ammocoetes were collected to obtain genetic material and assess the general size of juvenile/larvae.

RESULTS

During 2001, no Pacific lamprey ammocoetes or macrothalmia were captured in the Crooked River scoop or the American River rotary screen traps. Forty-five Pacific lamprey ammocoetes and one macrothalmia were captured in the Red River rotary screen traps.
The average total length of the ammocoetes was 128mm; no length was obtained for the macrothalmia (Figure 2).

![Total length frequency distribution of Pacific lamprey ammocoetes captured in the Red River migrant trap, South Fork Clearwater River drainage, ID, 2001.](chart)

Figure 2. Total length frequency of (N=23) Pacific lamprey ammocoetes captured in the Red River migrant trap, South Fork Clearwater River drainage, ID, 2001.

Because of the low numbers of Pacific lamprey captured at traps, no mark-recapture outmigrant estimates were performed. Based on trap-area fished, a total of 307 ammocoetes and 7 macrothalmia were estimated to have migrated past the Red River trap in 2001, compared to 175 ammocoetes and 14 macrothalmia in 2000.

Because statolith banding examination for age determination requires sacrificing lamprey, no age determinations were attempted for captured fish. Future age determination may include statolith banding examination. Age assessment, based on length frequency (Figures 2-4), indicates there may be five or six age classes in the fish sampled. Plotting of Red River weight frequency distribution suggested potentially was six or seven age classes in the lamprey ammocoetes sampled.

A total of 185 Pacific lamprey ammocoetes and one macrothalmia were captured by electroshocking in Red River. Larval Pacific lamprey were found in seven sections of Red River up to rkm 7.0, however, no lamprey ammocoetes or macrothalmia were captured in river sample sites (rkm 8.0), (9.0), and (10.0). Tributaries of Red River (Siegal Creek, Red Horse Creek, and S. F. Red River) were resampled in 2001, but no
Pacific lamprey were found. The largest Pacific lamprey captured electroshocking in the SFCR drainage in 2001 was 169 mm TL and the smallest ammocoete measured 60 mm TL (Figure 3). Four macrothalmia were captured electroshocking; 3 in the SFCR and 1 in Red River. The largest macrothalmia (158 mm TL) was captured in Red River. The smallest macrothalmia (140 mm TL) was electroshocked in the SFCR (Figure 3). The macrothalmia were captured in August and September. One of the macrothalmia captured in the SFCR was partially transformed.

More Pacific lamprey ammocoetes were captured in lateral scour pool habitat than any other single habitat type, however, no alcove habitat was sampled in 2001 where the maximum Red River lamprey density was found in 2000 (Table 2). Individuals were mostly found inhabiting sand/silt substrate behind boulders and were captured in water depths ranging from 0.1 – 1.0m.

![Figure 3. Total length frequency of Pacific lamprey ammocoetes and macrothalmia (N=154, 2000, N= 186, 2001) captured by electroshocking in Red River, ID, 2000/01.](image)

Two Pacific lamprey marked at Red River rkm 3.4 in 2000, were recaptured within 0.00-0.4 m of the original capture location (Table 3).

Although numerous potential spawning sites were identified, no adult Pacific lamprey or redds were observed during 2001 surveys.
Non-random presence-absence surveys were conducted on potential Pacific lamprey habitat sites in the mainstem SFCR, SFCR tributaries, Red River, and the S.F. of Red River. Five sites were sampled in upper Red River upstream of rkm 24.0, six in the S.F. of Red River (rmk1.5) to (rkm8.0), and 23 in the main SFCR (mouth to Red River) and tributaries. No Pacific lamprey were found sampling upper Red River, the S.F. of Red River, or SFCR tributaries. Lamprey distribution in the SFCR drainage was limited to main Red River, lower rkm 7.0, and the SFCR. Two hundred fifty-six lamprey were sampled in the SFCR (Figure 4).

Table 2. Habitat locations of Pacific lamprey larvae in randomly sampled units Red River 2001.

<table>
<thead>
<tr>
<th>Habitat Type</th>
<th>Lamprey Captured</th>
<th>Total Area Fished m²</th>
<th>Total Time Fished (Min)</th>
<th>Density/100m²</th>
<th>C.P.U.E. (Lmp/Min.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lateral Scour Pool</td>
<td>8</td>
<td>289.0</td>
<td>261</td>
<td>2.769</td>
<td>0.031</td>
</tr>
<tr>
<td>Riffle</td>
<td>1</td>
<td>318.8</td>
<td>377</td>
<td>0.314</td>
<td>0.003</td>
</tr>
<tr>
<td>Riffle w.Pockets</td>
<td>2</td>
<td>395.4</td>
<td>283</td>
<td>0.506</td>
<td>0.007</td>
</tr>
<tr>
<td>Rapids w.Boulders</td>
<td>6</td>
<td>182.2</td>
<td>165</td>
<td>3.293</td>
<td>0.036</td>
</tr>
<tr>
<td><strong>TOTALS:</strong></td>
<td><strong>17</strong></td>
<td><strong>1185.3</strong></td>
<td><strong>1085.8</strong></td>
<td>na</td>
<td>na</td>
</tr>
<tr>
<td><strong>Average</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>1.720</strong></td>
<td><strong>0.019</strong></td>
</tr>
</tbody>
</table>

Table 3. Presence absence surveys of Pacific lamprey larvae selected sites Red River,

<table>
<thead>
<tr>
<th></th>
<th>Lamprey Captured</th>
<th>Total Area Fished m²</th>
<th>Total Time Fished (Min)</th>
<th>Density/100m²</th>
<th>C.P.U.E. (Lmp/Min.)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>a. Red River</strong> (20 sites)</td>
<td>100</td>
<td>22.5</td>
<td>49</td>
<td>444.840</td>
<td>2.053</td>
</tr>
<tr>
<td><strong>b. Red River</strong> (1 site)</td>
<td>69</td>
<td>na</td>
<td>102</td>
<td>na</td>
<td>0.676</td>
</tr>
<tr>
<td><strong>c. SOUTH FORK Clearwater River</strong></td>
<td>256</td>
<td>106.2</td>
<td>187</td>
<td>240.964</td>
<td>1.368</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>425</td>
<td>128.7</td>
<td>338</td>
<td>na</td>
<td>na</td>
</tr>
</tbody>
</table>

*S. F. Electrofishing time Approximate
Figure 4. Total length frequency of Pacific lamprey ammocoetes and macrothalmia (N=91, 2000, N=253, 2001) captured by electroshocking in South Fork Clearwater River, ID, 2000-01.

Stream temperatures in Red River subbasin commonly reach 20.0 °C or higher in the summer period (Figure 5). Red River maximum stream temperature obtained from the IDFG Red River trap monitor at rkm 5.0 in 2001 was 26.7°C. Pacific lamprey ammocoetes and macrothalmia are burrowed in the substrate throughout the year including the maximum temperature period in August. Red River stream and substrate temperatures remain cooler in the maximum stream temperature period of the day (Figure 6).
Figure 5. Red River daily maximum/minimum stream temperature (rkm 5.0) November 1999-September 2000, SFCR drainage, ID.

Figure 6. Red River stream surface and substrate (~10.0 cm) temperatures (rkm 1.0) to (rkm 10.0), 1545 to 1800 hrs. August 9, 2001. Substrates, fine silt – fine gravel.
Juvenile/larval Pacific lamprey passage information obtained from Washington Department of Fish and Wildlife at Lower Granite dam in 2001 supports the year 2000 assessment indicating that the majority of juveniles and larvae pass the project between March 1 and July 1. Evaluation of juvenile/larval Pacific lamprey collection/bypass sampling information at Lower Granite in 1998 suggests lamprey migration is possibly correlated to river flow volume (Figure 7).

![Figure 7. Snake River monthly average flow and juvenile/larval Pacific lamprey collection/bypass estimation, Lower Granite Dam, WA. 1998.](image)

**SUMMARY AND DISCUSSION**

It is not known if Pacific lamprey densities observed in 2000-01 reflect overall low population numbers in the SFCR drainage. The number of spawning adults in the SFCR basin is suspected to have totaled fewer than 50 Pacific lamprey annually 1998-2001. The SFCR estimate of spawning adults is based on Lower Granite passage of less than 320 adults in 1998-2001, and assumed distribution into Grande Ronde River, Imnaha River, Salmon River, and Clearwater River with one-half of Clearwater River spawners returning to the SFCR. Low SFCR basin larval densities would be expected following several years of limited spawning. Relatively high habitat survey effort to catch rates were partially a result of randomly selected Red River units. Potential juvenile/larval habitat sampled in upper Red River, the S.F. of Red River, and SFCR
tributaries did not yield lamprey. Presence-absence sampling in the 13 tributaries contributing the greatest flow volume to the SFCR indicates distribution of Pacific lamprey in the SFCR basin is limited. Sampling to date suggests population numbers are minimal and distribution restricted to remaining preferred habitat in the SFCR basin. Assuming growth rates similar to those noted by Scott and Crossman (1973), length frequency distribution data suggests there are five, possibly six age classes present, in the SFCR drainage. Age determination improved with 2001 lamprey sampled, however, future capture of Pacific lamprey larvae would further increase aging ability. Sampling random units of lateral scour habitat in 2001 yielded the greatest total number of ammocoetes, however, rapids habitat type produced the highest densities per meter squared (random units). Pacific lamprey captured in rapids units were confined to boulder formed calm water pockets.

No Pacific lamprey juvenile/larval mortalities were observed at outmigrant traps, but three mortalities resulted from handling while electroshocking in the SFCR drainage.

Both life stages (ammocoete and macrothalmia) were present in Lower Granite Dam bypass samples. Rearing of some ammocoetes in the Snake River pool could account for both life stages being sampled at the project. Pacific lamprey potentially are consumed by northern pike minnow Ptychocheilus oregonensis predation (Poe et al. 1991) in the Lower Granite pool

Temperature monitoring in the Red River subbasin infers lamprey juveniles/larvae are capable of surviving stream temperatures in excess of 20.0°C. However, the time period Pacific lamprey ammocoetes are able to survive high water temperatures is unknown. Substrate temperatures were cooler in the maximum temperature period in comparison to water temperatures.
LITERATURE CITED


### Table A1. Pacific lamprey length, weight, and mark information from Red River, 2001.

<table>
<thead>
<tr>
<th>Date</th>
<th>Electrofished</th>
<th>Km/Reach</th>
<th>Habitat Type</th>
<th>Area (m²)</th>
<th>Time Fished (Min.)</th>
<th>Lamprey Captured</th>
<th>Lamprey Measured</th>
<th>Length (mm)</th>
<th>Weight (g)</th>
<th>Mark¹</th>
<th>Trans/Phase²</th>
</tr>
</thead>
<tbody>
<tr>
<td>7/13/2001</td>
<td>05/00</td>
<td>LSP</td>
<td>15.2</td>
<td>21.6</td>
<td>54</td>
<td>54</td>
<td>109</td>
<td>3.1</td>
<td>NO MARK</td>
<td>U</td>
<td></td>
</tr>
<tr>
<td>7/13/2001</td>
<td>05/00</td>
<td>LSP</td>
<td>135</td>
<td>3.9</td>
<td>NO MARK</td>
<td>U</td>
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<tr>
<td>7/13/2001</td>
<td>05/00</td>
<td>LSP</td>
<td>139</td>
<td>4.3</td>
<td>NO MARK</td>
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<td></td>
<td></td>
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<td></td>
</tr>
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<td>3.7</td>
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<tr>
<td>7/13/2001</td>
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<td>LSP</td>
<td>140</td>
<td>4.3</td>
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<td></td>
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<td>107</td>
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<td>4.5</td>
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<td>4.0</td>
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<td>7/13/2001</td>
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2 T-transformed; U-transformed
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1. RCO-Right center orange
2. T-transformed; U-transformed
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2. T-transformed; U-untransformed
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2 T-transformed; U-untransformed
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2 T-transformed; U-untransformed
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2 T-transformed; U-untransformed
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1. RCO-Right center orange
2. T-transformed; U-untransformed
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1  RCO-Right center orange
2  T-transformed; U-untransformed

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Sample Personnel: Claire, Repp

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Table A8. Channel descriptions for habitat units surveyed for Pacific lamprey in Red River, 2001.

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