Invasive Northern Pike Eradication Progress

Kristine Dunker, Sport Fish Division
Regional Invasive Species Coordinator

RC 3 Tab 4
Salmon fingerlings in pike stomachs from Alexander Creek
Pike Suppression:

Mat-Su: Alexander Creek

Eradications to Date:

Anchorage: Cheney Lake
Sand Lake
Otter Lake

Yakutat: Village Pond System

Kenai Pen.: Arc Lake
Scout Lake
Stormy Lake
Union Lake
East Mackey Lake
West Mackey Lake
Derks Lake
Sevena Lake
Soldotna Creek
Loon Lake
Tiny Lake
Hall Lake
Warfle’s Lake
Prioritization Process

• Criteria based on:
  • Threats to fisheries
  • Habitat significance
  • Watershed characterization
  • Cultural significance
  • Economic impacts
  • Feasibility

Pike committee meets every two years to update the priority list

→ Prevent Spread
Recent Rotenone Projects

Both were high priority projects to prevent pike from spreading.
Soldotna Creek Treatment Areas

Area 1
Union Lake, West Mackeys Lake, East Mackeys Lake, Derks Lake
Treatment Timing: 2014

Area 2
Sevena Lake, Tree Lake, Mainstem of Soldotna Creek
Treatment Timing: 2016 and 2017
Native Fish Relocation effort from Area 2 → Area 1 in 2015
SOLDOTNA CREEK TREATMENTS
Area 1
Deactivation
(Fall 2014)

Area 2
Deactivation
(Summer 2016 and 2017)
Post-Treatment Evaluations
Native Fish Rescue/Restoration 2015-2017

- Electrofishing
- Minnow trapping
- Lake stocking

Area 1

Area 2

Minnow trapping

Electrofishing

Lake stocking

<table>
<thead>
<tr>
<th>Lake</th>
<th>Acres</th>
<th>Years</th>
<th>Rainbow Trout</th>
<th>Dolly Varden</th>
<th>Juv. coho salmon</th>
<th>Stickleback</th>
<th>Sculpin</th>
<th>Grand Total</th>
<th>Salmonids/Acre</th>
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</thead>
<tbody>
<tr>
<td>Union</td>
<td>84</td>
<td>2015-2017</td>
<td>510</td>
<td>710</td>
<td>9,965</td>
<td>7,095</td>
<td>616</td>
<td>18,896</td>
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</tr>
<tr>
<td>W. Mackey</td>
<td>184</td>
<td>2015-2017</td>
<td>1,645</td>
<td>2,027</td>
<td>17,666</td>
<td>11,954</td>
<td>1,461</td>
<td>34,753</td>
<td>116</td>
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<tr>
<td>E. Mackey</td>
<td>100</td>
<td>2015-2017</td>
<td>1,149</td>
<td>1,286</td>
<td>10,466</td>
<td>9,465</td>
<td>1,399</td>
<td>23,765</td>
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<tr>
<td>Derks</td>
<td>37</td>
<td>2015-2017</td>
<td>229</td>
<td>378</td>
<td>8,552</td>
<td>4,336</td>
<td>232</td>
<td>13,727</td>
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<tr>
<td>Totals</td>
<td>405</td>
<td></td>
<td>3,533</td>
<td>4,401</td>
<td>46,649</td>
<td>32,850</td>
<td>3,708</td>
<td>91,141</td>
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</table>
Remove Fish Barriers

Of 8 temporary barriers, three remain but will be removed this year if no pike are detected.
Tote Road Treatment Area

Map showing locations such as Tote Road, Ridgefield Rd, Tote Rd, G Lake, CC Lake, Leisure Pond, Leisure Lake, Ranchero Lake, Hope Lake, Ruth Lake, Lake Jennifer, and Shibley Rd.
Illegal Introductions are Always a Risk
Upcoming Permits

- Alaska Department of Environmental Conservation: Pesticide Use Permit *(public commenting period, winter/spring 2018)*
- Environmental Assessment: (review and approval done by USFWS) *(public commenting period, winter/spring 2018)*
- Alaska Department of Natural Resources: Special Use Permit
- Alaska Department of Fish and Game: Fish Transport Permits (for stocking)
- ADF&G Board of Fish approval (AS 16.35.200)
Eradication Milestone Timeline

- Pre-TX data collection (2017/2018)
- Scoping/Permitting (winter/spring 2018)
- Alaska Board of Fisheries approval request (March 2018)
- Pre-TX fish salvage (summer/fall 2018)
- Rotenone application (October 2018)
- Post-TX fish cleanup/water monitoring (Oct. 18'-Oct. 19')
- Fish stocking (Summer 2019)
Questions?