Summary Report

Results of Fyke Netting for Northern Pike in Navigation Pool 7 of the upper Mississippi River, Spring 2009.

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Purpose

The purpose of this work is to continue to monitor the spring population length frequency and catch per unit effort of northern pike in Navigation Pool 7 of the upper Mississippi River.

Methods

Standard Upper Mississippi River Conservation Committee (UMRCC) fyke nets were set by WDNR personnel. These fyke nets had a 50ft floating lead line, 3ft high and 6ft wide frame, and had a 0.75 inch bar mesh.

Nets were set at locations thought likely to catch northern pike on spawning runs from March 30, 2009 to April 3, 2009 (Figure 1). A total of 11 locations where chosen, with 1 fyke net at each, in northern Lake Onalaska, La Crosse County, Wisconsin. Nets were set approximately one week after winter ice melted.

Up to eleven nets fished for a total of 39.83 net-days and were emptied every day during which all northern pike (Esox lucius) and yellow perch (Perca flavescens) were counted, measured in total length, sexed and their reproductive status was determined. Sex and reproductive status were determined primarily by the type and ease of which gametes were pushed through the urogenital pore. Fish were either classified as male or female based on the expression of sperm or eggs after manual massage of the abdomen. Based on the ease of and amount of gamete release, both males and females were classified as either green, immature, partially spent, ripe, or spent. For those northern pike that did not express gametes, sex was determined by visual examination of the urogenital region (Casselman, 1974).

The 2009 data was compared to data similarly collected during 1976 in upper Pool 8 by the Wisconsin DNR (Unpublished) and 2008 data collected in the middle of Pool 8 (Heath, Bailey and Von Ruden, 2009).

Findings

A total of 230 northern pike and 28 yellow perch were recorded. Of the 230 northern pike that had sex recorded, 120 (52.2%) were females, 109 (47.4%) were males and 1 (0.4%) was unknown (Table 1). The sex ratio was 1 female to 0.91 males. This compares to 1 female to 2.0-2.3 males in other studies (Becker, 1983), 1 to 3.24 in the 1976 study and 1 female to 1.15 males in the 2008 study.

<table>
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<tr>
<th>SEX</th>
<th>Green</th>
<th>Immature</th>
<th>Partially Spent</th>
<th>Ripe</th>
<th>Spent</th>
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<tbody>
<tr>
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<td>5</td>
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TABLE 1. SEX AND REPRODUCTIVE CONDITION OF SPRING 2009 NORTHERN PIKE.
Of the 28 yellow perch that had sex recorded, 11 (39.3%) were females, 16 (57.1%) were males and 1 (3.6%) was unknown (Table 2). The sex ratio was 1 female to 1.45 males.

**TABLE 2. SEX AND REPRODUCTIVE CONDITION OF SPRING 2009 YELLOW PERCH.**

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<tr>
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<th>REPRODUCTIVE CONDITION</th>
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</table>

The mean daily ambient water temperatures during 2009 sampling was 4.7°C and generally did not change over the four days of sampling (Table 3). During sampling the water surface elevation for Pool 7 just upstream of Dam 7 changed little (Table 3).

**TABLE 3. PERCENT RIPE AND SPENT 2009 FEMALE NORTHERN PIKE BY DATE, TEMPERATURE AND WATER SURFACE ELEVATION.**

<table>
<thead>
<tr>
<th>DATE</th>
<th>°C</th>
<th>Water Surface Elevation (ft), Dam 7 Pool</th>
<th>% RIPE</th>
<th>% SPENT</th>
<th>Number of Northern Pike</th>
</tr>
</thead>
<tbody>
<tr>
<td>03/31/2009</td>
<td>5.5</td>
<td>639.15</td>
<td>80.5</td>
<td>9.8</td>
<td>41</td>
</tr>
<tr>
<td>04/01/2009</td>
<td>4.6</td>
<td>639.07</td>
<td>68.4</td>
<td>15.8</td>
<td>38</td>
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<tr>
<td>04/02/2009</td>
<td>4.1</td>
<td>639.08</td>
<td>33.3</td>
<td>26.7</td>
<td>15</td>
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<tr>
<td>04/03/2009</td>
<td>5.2</td>
<td>639.12</td>
<td>73.1</td>
<td>19.2</td>
<td>26</td>
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</table>

Mean total length for all 2009 males was 22.58 inches (n=109, minimum= 6.69, maximum=31.30, standard deviation=4.491) (Figure 2). A total of 72.48 percent were greater than 21 inches. During 1976, the mean total length for all males was 22.94 inches (n=849, minimum=10.5, maximum=32.9, standard deviation = 3.254) (Figure 6). A total of 72.56 percent were greater than 21 inches. During 2008, the mean total length for all males was 20.57 inches (n=152, minimum= 8.47, maximum=26.77, standard deviation=3.460) (Figure 4). A total of 43.42 percent were greater than 21 inches. The mean total length for males was significantly different between 1976 and 2008 but not between 2009 and 1976 (Table 4).

**TABLE 4. MEAN LENGTH OF MALE NORTHERN PIKE, 2009, 2008 AND 1976.**

<table>
<thead>
<tr>
<th>Year &amp; Location</th>
<th>Mean Length (inches)</th>
<th>Standard Deviation</th>
<th>Minimum</th>
<th>Maximum</th>
<th>n</th>
<th>Percent &gt; 21 inches</th>
<th>Different (means with the same letter are not Sign. Different)</th>
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</thead>
<tbody>
<tr>
<td>2009, Pool 7</td>
<td>22.58</td>
<td>4.491</td>
<td>6.69</td>
<td>31.30</td>
<td>109</td>
<td>72.48</td>
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<tr>
<td>2008, Pool 8</td>
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<td>152</td>
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<tr>
<td>1976, Pool 8</td>
<td>22.94</td>
<td>3.254</td>
<td>10.50</td>
<td>32.9</td>
<td>849</td>
<td>72.56</td>
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</table>
There was no significant change in total length of males through the 2009 sampling period (n=109, \( r^2=0.0181, P=0.1635 \)) suggesting that the size of males during sampling did not change as others have observed (Priegel and Krohn, 1975) although we did not sample during the entire spawning period.

In the present investigation, the smallest male found gravid was 6.7 inches in total length. Over 98 percent of all males 10 inches and greater (N=105) were gravid. This compares to size at maturity of 16-18 inches reported by Becker (1983) for lakes and 11 inches for the Mississippi River, Pool 8.

In 2009, the mean total length for all females was 27.80 inches (n=120, minimum= 10.59, maximum=42.01, standard deviation= 4.918) (Figure 3) (Table 5). A total of 75.83 percent were greater than 25 inches. During 2008 in Pool 8, the mean total length for all females was 25.59 inches (n=131, minimum= 12.21, maximum=39.37, standard deviation= 5.325) (Figure 5). A total of 46.56 percent were greater than 25 inches. During 1976, the mean total length for all females was 26.36 inches (n=262, minimum=16.50, maximum=36.50, standard deviation=4.413) (Figure 7). A total of 58.40 percent were greater than 25 inches.

The mean total length for females was not significantly different between 1976 and 2008 (P=0.1286) (Table 5). The mean total length for females was significantly different between 2009 and 2008 (P=0.0008) and between 2009 and 1976 (P=0.0045). This compares to no trend in female size during the spawning season from 1989 through 2007 in Navigation Pool 9 of the upper Mississippi River (WDNR, 2008).

There was no significant change in total length of females through the 2009 sampling period (n=120, \( r^2=0.0035, P=0.5220 \)) suggesting that the size of females during sampling did not change as others have observed (Priegel and Krohn, 1975) although we did not sample during the entire spawning period.

Proportional Stock Density for northern pike in Pool 8 as summarized by the Graphical Fish Data Browser (http://www.umesc.usgs.gov/data_library/fisheries/graphical/fish_front.html) of the Long Term Resource Monitoring Program suggests a downward trend from 1993 to 2004 (Figure 8). However, the slope of a linear regression was not significantly different from zero (P=0.0528) suggesting no real trend. This data contained both male and females since fish were not sexed. If a trend in males was present for these years in this data, any significant trend may have been obscured by the inclusion of females.

In 2009, most females were recorded as ripe (69.2%), followed by spent (15.8%), green (8.3%), partially spent (4.2%) and immature (2.5%). Reproductive condition changed through time. A total of 74.7% of females were ripe 12.7% were spent during the first two days of sampling while 58.5% were ripe and 22% were spent during the last 2 days. There was no trend in ambient water temperatures (mean = 4.7°C) and water surface elevation during sampling (Table 3). Spawning runs have been recorded to occur at temperatures between 1.1 and 4.4°C (Becker, 1983).

In the present investigation, the smallest female found gravid was 17.3 inches in total length. All females 17 inches and greater were gravid and all females less than 14 inches were not gravid. This compares to size at maturity of 20-22 inches reported by Becker (1983) for lakes and 20-36 inches for the Mississippi River, Pool 8. During 2008, the smallest female found gravid was 14.9 inches in total length.


<table>
<thead>
<tr>
<th>Year &amp; Location</th>
<th>Mean Length (inches)</th>
<th>Standard Deviation</th>
<th>Minimum</th>
<th>Maximum</th>
<th>n</th>
<th>Percent &gt; 25 inches</th>
<th>Different (means with the same letter are not Sign. Different)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009, Pool 7</td>
<td>27.80</td>
<td>4.918</td>
<td>10.59</td>
<td>42.01</td>
<td>120</td>
<td>75.83</td>
<td>A</td>
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<tr>
<td>2008, Pool 8</td>
<td>25.59</td>
<td>5.325</td>
<td>12.21</td>
<td>39.37</td>
<td>131</td>
<td>46.56</td>
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<tr>
<td>1976, Pool 8</td>
<td>26.36</td>
<td>4.413</td>
<td>16.50</td>
<td>36.50</td>
<td>262</td>
<td>58.40</td>
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</table>
Mean catch per net-day for 2009 northern pike was 5.82 (n=40, minimum=0, maximum=51.34, standard deviation =9.46). This was not significantly different from the 2008 Pool 8 catch per net-day (P=0.1562) which was 8.73 (n=34, minimum=0, maximum=28.84, standard deviation=7.69) (Table 6). Mean catch per net-day from 2009 was not significantly different from the 1976 mean catch per net-day (P=0.3312) which was 7.40 (n=199, minimum=0, maximum=47.00, standard deviation= 9.10) (Table 6). During hatchery netting near Guttenberg, Iowa from 1995 to 2000, the catch rate was 2.2 fish per net set, substantially lower than the 2009, 2008 and 1976 investigations (Pitlo and Rasmussen, 2004).

**TABLE 6. NORTHERN PIKE MEAN CATCH PER NET-DAY, SPRING 2009, 2008 AND 1976.**

<table>
<thead>
<tr>
<th>Year &amp; Location</th>
<th>Mean</th>
<th>Standard Dev.</th>
<th>Min.</th>
<th>Max.</th>
<th>Net-Days</th>
<th>Different (means with the same letter are not Sign. Different)</th>
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<tbody>
<tr>
<td>2009, Pool 7</td>
<td>5.823</td>
<td>9.459</td>
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<td>51.34</td>
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<td>2008, Pool 8</td>
<td>8.730</td>
<td>7.690</td>
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<td>23.84</td>
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<tr>
<td>1976, Pool 8</td>
<td>7.396</td>
<td>9.096</td>
<td>0</td>
<td>47.00</td>
<td>199.00</td>
<td>A</td>
</tr>
</tbody>
</table>

Mean catch per net-day for 2009 yellow perch was 0.70 (n=40, minimum=0, maximum=4.70, standard deviation =1.35). This was not significantly different from 2008 in Pool 8 which had a mean of 1.12 (P=0.3606) (n=34, minimum=0, maximum=11.91, standard deviation =2.43) (Table 7). The 2009 mean was not significantly different from the 1976 Pool 8 mean of 0.291 (n=199, minimum=0, maximum=6.00, standard deviation= 0.760).

**TABLE 7. YELLOW PERCH MEAN CATCH PER NET-DAY SPRING 2009, 2008 AND 1976.**

<table>
<thead>
<tr>
<th>Year &amp; Location</th>
<th>Mean</th>
<th>Standard Dev.</th>
<th>Min.</th>
<th>Max.</th>
<th>Net-Days</th>
<th>Different (means with the same letter are not Sign. Different)</th>
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<tr>
<td>2009, Pool 7</td>
<td>0.704</td>
<td>1.348</td>
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<td>4.704</td>
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<tr>
<td>2008, Pool 8</td>
<td>1.116</td>
<td>2.429</td>
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<td>11.905</td>
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<tr>
<td>1976, Pool 8</td>
<td>0.291</td>
<td>0.761</td>
<td>0</td>
<td>6.0</td>
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**Conclusions**

Northern pike continue to comprise an important part of the sport fish community in Navigation Pool 7 of the upper Mississippi River. Catch rates in 2009 were the same as 2008 and 1976 rates in Pool 8.

In 2009, mean total length of Pool 7 females was larger than two previous studies in Pool 8. In the 2008 Pool 8 study, we observed a 2.37 inch decrease in the mean size of males compared to a similar study in 1976 (Heath, Bailey and Von Ruden, 2009). A similar decrease was observed in Pool 9 (WDNR, 2008). However, in this 2009 Pool 7 investigation, no difference was found in male mean total length compared with Pool 8 data from 1976. We were unable to locate any historic northern pike data from Pool 7, which may be a more valid comparison.

Length frequency distributions for both males and females were compared to 2008 and 1976 Pool 8 data. During 1976, the proportion of males over 21 inches (72.56 percent) and females over 25 inches (58.40 percent) was similar to 2009 (72.58 percent and 75.83 percent, respectively) but was greater than observed in 2008 (43.42 percent and 46.56 percent, respectively). An absence of discernable patterns in these data may be due to variations in year-class strengths or pools sampled.

Northern pike minimum size at sexual maturity in the 2009 investigation was less than found in other studies. Validation and causes for this observation have yet to be done.

In the Mississippi River bordering Minnesota, the bag and size limits are more liberal than the general inland regulations. The river is open all year, with no size limit and a bag limit of five fish. Inland, the general season extends from May 6 through March 4. In the northern zone the bag limit is five fish; there is no minimum size limit. In the southern zone the bag limit is two fish, with a 26 inch minimum size limit.
Recommendations

1. Continue to monitoring northern pike populations in Pool 7 to verify or invalidate these findings.

2. Continue to monitoring northern pike catch by the Genoa National Fish Hatchery in Pool 9 to determine long-term trends in the upper Mississippi River outside of Pool 7.
References Used


Wisconsin Department of Natural Resources. 1976. Unpublished Northern Pike Data Collected in upper Pool 8 of the Mississippi River. WDNR, La Crosse, Wisconsin.

FIGURE 2. SPRING 2009 NORTHERN PIKE LENGTH DISTRIBUTION (INCHES), POOL 7 MALES.

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FIGURE 3. SPRING 2009 NORTHERN PIKE LENGTH DISTRIBUTION (INCHES), POOL 7 FEMALES.

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* Frequency distribution for northern pike lengths in inches, showing cumulative frequencies and cumulative percentages up to 33 inches.
FIGURE 7. SPRING 1976 NORTHERN PIKE LENGTH DISTRIBUTION (INCHES), POOL 8 FEMALES.

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FIGURE 8. POOL 8, 1993-2004 NORTHERN PIKE PROPORTIONAL STOCK DENSITY FROM LONG TERM RESOURCE MONITORING DATA.

12-year trends in Proportional Stock Density, 1993-2004

Northern pike collected by All years

Trend Analysis Area = Pool 8: Onalaska, WI
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