Parolee Success in the 2nd Judicial District and Iowa

Presented to the Iowa Second Judicial District’s Department of Correctional Services on March 7, 2013 in Marshalltown, Iowa.

David Peters, Ph.D.
Andrew Hochstetler, Ph.D.
OVERVIEW

What is the project about?

To understand the demographic, treatment, distance, and community factors that reduce recidivism rates among parolees in Iowa.

Funding by NIJ to promote academic-professional research activities.

What is the research plan?

• Controlling for treatment selection among parolees.
• Understanding fixed effects of recidivism (statistical part).
• Understanding amenable effects of recidivism (case study part).
• Synthesis and dissemination.
PAROLEE SUCCESS IN IOWA

DEMOGRAPHICS
**DEMOGRAPHICS**

**Defining parolees ...**

Paroled or special sentenced in 2010. Valid Iowa address and not institutionalized.

- Iowa \(N=1,270\)
- 2-District \(N=139\) or 10.9%

**Basic Demographics ...**

- Male – 85%(IA), 88%(2D), 85%(rur), 90%(urb)
- Average age – 38 to 39 years (IA,2D,rur,urb)
- White, non-Hispanic race – 74%(IA), 86%(2D), 91%(rur), 82%(urb)
- Iowa born – 74%(IA), 79%(2D), 84%(rur), 75%(urb)
- Dependents – 0.8 to 1.0 (IA,2D,rur,urb)
- Education – some college (IA,2D,rur,urb)
Parole / Special Sentence Population ...

- 1-District = 17.0
- 2-District = 10.9
- 3-District =   7.7
- 4-District =   5.3
- 5-District = 30.7
- 6-District =   6.5
- 7-District = 11.4
- 8-District = 10.5

ANALYSIS: Sociology, Iowa State University.
SOURCE: Iowa Department of Corrections.
IOWA STATE UNIVERSITY
PAROLEE SUCCESS IN IOWA

RISK ASSESSMENT
High LSI Risk (last score) – 38.91 (IA)
   • 38.97 (2D), 38.69 (rur), 39.23 (urb)

Growing LSI Risk (last v. first score) – 1.96 (IA)
   • 2.11 (2D), 2.10 (rur), 2.13 (urb)

Previous convictions – 7.7 (IA)
   • 7.7 (2D), 7.9 (rur), 7.5 (urb)

Sentence served – 24.5 months (IA)
   • 26.3 (2D), 26.9 (rur), 25.6 (urb)

Paroled from violent offense – 17.8% (IA)
   • 20.9% (2D), 22.4% (rur), 19.4% (urb)

Paroled sex offender – 5.0% (IA)
   • 7.2% (2D), 10.5% (rur), 4.2% (urb)

Drug and other non-property offenses – 49.9% (IA)
   • 51.5% (2D), 47.8% (rur), 55.6% (urb)
RISK ASSESSMENT

LSI-R Scores (last) ...

1-District = 39.43
2-District = 38.97
3-District = 37.67
4-District = 38.38
5-District = 38.73
6-District = 38.90
7-District = 39.31
8-District = 39.26

ANALYSIS: Sociology, Iowa State University.
SOURCE: Iowa Department of Corrections.

IOWA STATE UNIVERSITY
RISK ASSESSMENT

Change in LSI-R Scores (last v. first) ...

1-District = 2.45
2-District = 2.11
3-District = 1.42
4-District = 1.97
5-District = 1.75
6-District = 2.03
7-District = 2.65
8-District = 1.19

IOWA STATE UNIVERSITY
### Change in LSI-R Scores (last v. first) …

#### Mean Change in LSI Risk Scores
(last v. first assessment)

<table>
<thead>
<tr>
<th>LSI Sub-Scales</th>
<th>District 2</th>
<th>Non-Urban</th>
<th>Ames</th>
<th>Boone Co</th>
<th>Fort Dodge</th>
<th>Marshalltown</th>
<th>Mason City</th>
<th>Story Co</th>
</tr>
</thead>
<tbody>
<tr>
<td>Criminal History Risk</td>
<td>0.44</td>
<td>0.28</td>
<td>0.79</td>
<td>0.77</td>
<td>0.19</td>
<td>0.40</td>
<td>0.53</td>
<td>1.00</td>
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<tr>
<td>Education &amp; Employment Risk</td>
<td>1.12</td>
<td>1.02</td>
<td>1.29</td>
<td>2.78</td>
<td>1.86</td>
<td>0.41</td>
<td>0.61</td>
<td>1.04</td>
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<tr>
<td>Financial Risk</td>
<td>0.01 (0.04)</td>
<td>0.21</td>
<td>0.03</td>
<td>(0.08)</td>
<td>0.00</td>
<td>0.15 (0.14)</td>
<td>0.37</td>
<td>(0.57)</td>
</tr>
<tr>
<td>Family &amp; Marital Risk</td>
<td>0.15</td>
<td>0.11</td>
<td>0.38</td>
<td>0.18</td>
<td>(0.13)</td>
<td>0.37</td>
<td>0.39</td>
<td>(0.57)</td>
</tr>
<tr>
<td>Accommodation &amp; Neighborhood Risk</td>
<td>(0.02)</td>
<td>(0.00)</td>
<td>(0.21)</td>
<td>(0.30)</td>
<td>0.26</td>
<td>(0.42)</td>
<td>0.43</td>
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<tr>
<td>Leisure, Recreation, Time Use Risk</td>
<td>0.09</td>
<td>0.14</td>
<td>0.21</td>
<td>0.13</td>
<td>(0.00)</td>
<td>0.21 (0.10)</td>
<td>0.15</td>
<td>(0.71)</td>
</tr>
<tr>
<td>Criminal Companions Risk</td>
<td>0.04</td>
<td>0.15 (0.07)</td>
<td>0.50</td>
<td>0.05</td>
<td>(0.26)</td>
<td>0.15</td>
<td></td>
<td>(0.71)</td>
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<tr>
<td>Alcohol &amp; Drug Risk</td>
<td>0.04</td>
<td>0.01</td>
<td>0.07</td>
<td>(0.20)</td>
<td>(0.54)</td>
<td>0.63</td>
<td>0.20</td>
<td>0.00</td>
</tr>
<tr>
<td>Emotional &amp; Personal Risk</td>
<td>0.02 (0.14)</td>
<td>0.42</td>
<td>(0.37)</td>
<td>0.16</td>
<td>0.58</td>
<td>0.09 (0.33)</td>
<td>0.12</td>
<td>0.51</td>
</tr>
<tr>
<td>Criminal Attitudes &amp; Orientation Risk</td>
<td>0.23</td>
<td>0.37</td>
<td>0.28</td>
<td>0.01</td>
<td>0.25</td>
<td>0.14 (0.14)</td>
<td>0.12</td>
<td>0.51</td>
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<tr>
<td><strong>Total LSI Change</strong></td>
<td><strong>2.11</strong></td>
<td><strong>2.01</strong></td>
<td><strong>3.58</strong></td>
<td><strong>3.60</strong></td>
<td><strong>1.15</strong></td>
<td><strong>2.45</strong></td>
<td><strong>1.73</strong></td>
<td><strong>1.07</strong></td>
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<tr>
<td>Number of Parolees</td>
<td>139</td>
<td>52</td>
<td>14</td>
<td>8</td>
<td>19</td>
<td>19</td>
<td>20</td>
<td>7</td>
</tr>
</tbody>
</table>
PAROLEE SUCCESS IN IOWA

TREATMENT COMPLETION
Treatment Completion (Needs 1 & 2) …

- 1-District = 43.72
- 2-District = 28.78
- 3-District = 23.71
- 4-District = 32.35
- 5-District = 31.03
- 6-District = 34.94
- 7-District = 36.55
- 8-District = 42.11
## TREATMENT

### Treatment In-Progress or Completed (Needs 1-2) ...

<table>
<thead>
<tr>
<th></th>
<th>Iowa</th>
<th>2-Dist</th>
<th>Rural</th>
<th>Urban</th>
</tr>
</thead>
<tbody>
<tr>
<td>No treatment</td>
<td>40%</td>
<td>51%</td>
<td>60%</td>
<td>44%</td>
</tr>
<tr>
<td>1 treatment</td>
<td>29%</td>
<td>28%</td>
<td>27%</td>
<td>28%</td>
</tr>
<tr>
<td>2 treatments</td>
<td>23%</td>
<td>16%</td>
<td>10%</td>
<td>22%</td>
</tr>
<tr>
<td>3 or more treatments</td>
<td>8%</td>
<td>5%</td>
<td>4%</td>
<td>5%</td>
</tr>
</tbody>
</table>

### Treatment Completion (Needs 1-2) ...

<table>
<thead>
<tr>
<th></th>
<th>Iowa</th>
<th>2-Dist</th>
<th>Rural</th>
<th>Urban</th>
</tr>
</thead>
<tbody>
<tr>
<td>No completions</td>
<td>66%</td>
<td>71%</td>
<td>73%</td>
<td>69%</td>
</tr>
<tr>
<td>1 completion</td>
<td>22%</td>
<td>20%</td>
<td>22%</td>
<td>18%</td>
</tr>
<tr>
<td>2 completions</td>
<td>11%</td>
<td>6%</td>
<td>3%</td>
<td>8%</td>
</tr>
<tr>
<td>3 or more completions</td>
<td>2%</td>
<td>3%</td>
<td>2%</td>
<td>4%</td>
</tr>
</tbody>
</table>
# Treatment in the 2nd District

## Treatment completion ...
- 28.8% overall, 26.9% rural, and 30.6% urban.

## Treatment completion by program ...

<table>
<thead>
<tr>
<th>Treatment Program</th>
<th>Rural</th>
<th>Urban</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2-Dist</td>
<td>Iowa</td>
</tr>
<tr>
<td>Alcohol/Drug Trt</td>
<td>61%</td>
<td>75%</td>
</tr>
<tr>
<td>Criminal Attitudes/Companions Trt</td>
<td>28%</td>
<td>39%</td>
</tr>
<tr>
<td>Education/Employment Trt</td>
<td>17%</td>
<td>11%</td>
</tr>
<tr>
<td>Emotional/Personal/Psych Trt</td>
<td>17%</td>
<td>15%</td>
</tr>
</tbody>
</table>

### Percent of Treatment Program Completion

<table>
<thead>
<tr>
<th>Treatment Program</th>
<th>Urban</th>
<th>Rural</th>
<th>Ames</th>
<th>Boone Co</th>
<th>Fort Dodge</th>
<th>Marshalltown</th>
<th>Mason City</th>
<th>Story Co</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohol &amp; Drug</td>
<td>77</td>
<td>61</td>
<td>71</td>
<td>100</td>
<td>100</td>
<td>25</td>
<td>100</td>
<td>100</td>
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<tr>
<td>Criminal Attitudes/Companions/Hist</td>
<td>45</td>
<td>28</td>
<td>71</td>
<td>0</td>
<td>33</td>
<td>35</td>
<td>38</td>
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<tr>
<td>Education/Employment</td>
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<td>17</td>
<td>14</td>
<td>0</td>
<td>0</td>
<td>20</td>
<td>25</td>
<td>0</td>
</tr>
<tr>
<td>Emotional/Personal/Psychological</td>
<td>14</td>
<td>17</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>25</td>
<td>25</td>
<td>0</td>
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</tbody>
</table>
PAROLEE SUCCESS IN IOWA

EXPLAINING RECIDIVISM
Recidivism at 2-Years (to prison or arrest) …

- 1-District = 38.89
- 2-District = 36.69
- 3-District = 43.88
- 4-District = 41.18
- 5-District = 40.26
- 6-District = 32.53
- 7-District = 32.41
- 8-District = 39.85
Rural parolees …
• Recidivism rate is 31.3%.
• Time to failure is 583 days (19.4 mos).

Urban parolees …
• Recidivism rate is 41.7%.
• Time to failure is 545 days (18.2 mos).

Recidivism by area …
• Ames 42.9%
• Boone Co 25.0%
• Fort Dodge 57.9%
• Marshalltown 36.8%
• Mason City 30.0%
• Story Co 28.6%
• 2-District 36.7%
SURVIVAL ANALYSIS – RURAL PAROLEES

Factors increasing odds of survival ...

• Treatment has no effect – actually decreases survival

• Growing family/marital risk (16%) – programs available

• Greater travel time to DOC office (1%)

• Greater population densities (2%) – larger towns, more resources

• Higher poverty rates (9%) – larger towns, more resources
SURVIVAL ANALYSIS – RURAL PAROLEES

Factors decreasing odds of survival ...

- Greater criminal history risk (-27%)
- Greater criminal companions risk (-30%)
- Growing criminal history risk (-21%)
- Growing alcohol & drug risk (-21%)

- Larger minority populations (-5%)
- More property crimes (-1%) – criminal opportunities
**SURVIVAL ANALYSIS - RURAL PAROLEES**

For rural parolees …  
Treatment worsens survival.  
Non-significant effect.

Effect of treatment on survival for rural parolees …

- 3 mos – 1.1% decrease in survival
- 6 mos – 2.4% decrease in survival
- 12 mos – 4.6% decrease in survival
- 18 mos – 6.7% decrease in survival
- 24 mos – 7.7% decrease in survival
SURVIVAL ANALYSIS – URBAN PAROLEES

Factors increasing odds of survival ...

- Treatment completion (32%)
- Older parolees (3%)
- Greater financial risk (17%) – public assistance
- Distances and community factors have no effect
SURVIVAL ANALYSIS - URBAN PAROLEES

Factors decreasing odds of survival ...

• Male parolees (-97%)
• Greater criminal history risk (-24%)
• Greater emotional & personal risk (-12%)
• Distances and community factors have no effect
Effect of treatment on survival for urban parolees ...

- 3 mos – 1.6% increase in survival
- 6 mos – 4.2% increase in survival
- 12 mos – 7.6% increase in survival
- 18 mos – 9.6% increase in survival
- 24 mos – 11.1% increase in survival
SUMMARY

Comparing the 2nd-District versus Iowa …

• Tend to be more male, white, and Iowa born.
• More violent and sex offenders.

• Average risk parolees. Risk growth driven by …
  
  *Ames* (educ/empl, crim history)
  
  *Boone County* (educ/empl, crim history, crim companions)
  
  *Marshalltown* (alcohol/drug, emotional/personal).

• Lower treatment completions, especially for rural parolees.
• Urban – more alcohol/drug & emotion/personal treatments.
• Rural – fewer alcohol/drug, crim attitudes/companions treatments.

• Average recidivism rate, but much higher in urban areas.
• Highest in Fort Dodge and Ames.


**NEXT STEPS AND COMMENTS**

Next Steps …

- Conduct interviews this March and April.
- Analysis and write-up this summer.

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**Comments and Questions**

For more information

David Peters or Andy Hochstetler

515-294-1122

dpeters@iastate.edu

www.soc.iastate.edu
<table>
<thead>
<tr>
<th>Quality of presentation/information:</th>
<th>Knowledge of subject before session:</th>
<th>Knowledge of subject after session:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low</td>
<td>None</td>
<td>A lot</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>2</td>
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<td>4</td>
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<td>5</td>
</tr>
<tr>
<td>High</td>
<td>A lot</td>
<td>None</td>
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<tr>
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<tr>
<td>High</td>
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</tbody>
</table>

Session: Parolee Success 2-District  
Date: March 7, 2013  
Presenter: Peters and Hochstetler

Please circle appropriate response. Write comments on back.