ANCHORAGE FORUM ON

DISPROPORTIONATE MINORITY CONTACT (DMC)

WITH THE JUVENILE JUSTICE SYSTEM
Disproportionate Minority Contact in Anchorage

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http://justice.uaa.alaska.edu
RESEARCH PARTNERS

Alaska Division of Juvenile Justice
Alaska Native Justice Center
Anchorage Police Department
Anchorage School District
RESEARCH PLAN

Disparities in Referrals to DJJ:
Quantitative Analysis
Qualitative Analysis

Disparities within DJJ:
Quantitative Analysis
Qualitative Analysis
SPECIAL THANKS

Division of Juvenile Justice:
Patty Ware, Susan McDonough, Karen Forrest, Barb Murray, Barbara Henjum, Jerry Bailey, Linda Moffitt, and Rob Wood

UAA Justice Center:
Alan McKelvie and Robert Langworthy

Anchorage DMC Workgroup
RESEARCH GOALS

To narrow the scope of DMC:

- By race
- By gender
- By referral type
- By geography
1,936 juveniles referred to DJJ:
in Anchorage
for new crimes, probation or conduct violations
in fiscal year 2005
with a known and valid address in Anchorage
with known demographic characteristics
JUVENILE JUSTICE DATA

- **Race:**
  - White / Caucasian
  - Black / African American
  - Native Alaskan / American Indian
  - Asian
  - Native Hawaiian / Pacific Islander
  - Other
  - Two or more races

- **Referral type:**
  - New crime
  - Probation / conduct violation

- **Gender:**
  - Male
  - Female

- **Address at time of referral**
CENSUS DATA

- **Race:**
  - White
  - Black or African American
  - American Indian and Alaska Native
  - Asian
  - Native Hawaiian and Other Pacific Islander
  - Some other race
  - Two or more races

- **Gender:**
  - Male
  - Female

- **Age:** 10 to 17
DISPROPORTIONATE MINORITY CONTACT

Occurs when:
The rate of referral for minority youth exceeds the rate of referral for White youth.
RELATIVE RATE INDEX (RRI)

\[ \text{RRI} = \frac{\text{Minority Rate of Referral}}{\text{White Rate of Referral}} \]

- \( \text{RRI} < 1 \): Minority Rate < White Rate
- \( \text{RRI} = 1 \): Minority Rate = White Rate
- \( \text{RRI} > 1 \): Minority Rate > White Rate

Example: \( \text{RRI} = 2 \); Minority rate is two times higher than White rate
RELATIVE RATE INDICES

- By Racial Group
- By Racial and Gender Group
- By Racial Group and Referral Type
- By Racial Group, Gender Group, and Referral Type
### RRI BY RACE

<table>
<thead>
<tr>
<th>Race</th>
<th>Referrals</th>
<th>Population</th>
<th>Rate</th>
<th>RRI</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N</td>
<td>%</td>
<td>N</td>
<td>%</td>
</tr>
<tr>
<td>White</td>
<td>752</td>
<td>38.8 %</td>
<td>22308</td>
<td>65.7 %</td>
</tr>
<tr>
<td>Black</td>
<td>273</td>
<td>14.1</td>
<td>2277</td>
<td>6.7</td>
</tr>
<tr>
<td>Native</td>
<td>362</td>
<td>18.7</td>
<td>2808</td>
<td>8.3</td>
</tr>
<tr>
<td>Asian</td>
<td>121</td>
<td>6.3</td>
<td>2041</td>
<td>6.0</td>
</tr>
<tr>
<td>Pacific</td>
<td>81</td>
<td>4.2</td>
<td>487</td>
<td>1.4</td>
</tr>
<tr>
<td>Other minority</td>
<td>77</td>
<td>4.0</td>
<td>817</td>
<td>2.4</td>
</tr>
<tr>
<td>Multiracial</td>
<td>270</td>
<td>13.9</td>
<td>3233</td>
<td>9.5</td>
</tr>
</tbody>
</table>
## RRI by Race and Gender

<table>
<thead>
<tr>
<th>Race</th>
<th>Male</th>
<th>Female</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Minority</td>
<td>2.96</td>
<td>3.27</td>
</tr>
<tr>
<td>Black</td>
<td>3.68</td>
<td>3.37</td>
</tr>
<tr>
<td>Native</td>
<td>3.49</td>
<td>4.87</td>
</tr>
<tr>
<td>Asian</td>
<td>2.14</td>
<td>0.92</td>
</tr>
<tr>
<td>Pacific</td>
<td>5.14</td>
<td>4.27</td>
</tr>
<tr>
<td>Other minority</td>
<td>2.40</td>
<td>3.93</td>
</tr>
<tr>
<td>Multiracial</td>
<td>2.31</td>
<td>2.99</td>
</tr>
</tbody>
</table>
### RRI BY RACE AND REFERRAL TYPE

<table>
<thead>
<tr>
<th>Race</th>
<th>New Crime</th>
<th>P/C Violation</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Minority</td>
<td>2.73</td>
<td>4.79</td>
</tr>
<tr>
<td>Black</td>
<td>3.25</td>
<td>5.52</td>
</tr>
<tr>
<td>Native</td>
<td>3.43</td>
<td>6.32</td>
</tr>
<tr>
<td>Asian</td>
<td>1.52</td>
<td>3.29</td>
</tr>
<tr>
<td>Pacific</td>
<td>4.66</td>
<td>6.67</td>
</tr>
<tr>
<td>Other minority</td>
<td>2.78</td>
<td>2.92</td>
</tr>
<tr>
<td>Multiracial</td>
<td>2.22</td>
<td>4.09</td>
</tr>
</tbody>
</table>
### RRI BY RACE, GENDER, AND REFERRAL TYPE

<table>
<thead>
<tr>
<th>Race</th>
<th>Male</th>
<th>Female</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Crime</td>
<td>Violation</td>
</tr>
<tr>
<td>All Minority</td>
<td>2.70</td>
<td>4.20</td>
</tr>
<tr>
<td>Asian</td>
<td>1.85</td>
<td>0.89</td>
</tr>
<tr>
<td>Black</td>
<td>3.34</td>
<td>3.14</td>
</tr>
<tr>
<td>Native</td>
<td>3.28</td>
<td>3.87</td>
</tr>
<tr>
<td>Pacific</td>
<td>4.74</td>
<td>4.39</td>
</tr>
<tr>
<td>Other minority</td>
<td>2.28</td>
<td>3.92</td>
</tr>
<tr>
<td>Multiracial</td>
<td>2.03</td>
<td>2.68</td>
</tr>
</tbody>
</table>
CONCLUSIONS

• DMC occurs for almost everyone...

• More prevalent for Pacific, Native, and Black youth, both males and females.

• More prevalent for referrals for probation / conduct violations, especially for females.
RRI BY CENSUS TRACT

• By Racial Group
• By Racial and Gender Group
• By Racial Group and Referral Type
• By Racial Group, Gender Group, and Referral Type
DMC by Census Tract: All Minority Youth

Relative Rate Index

- < 1
- 1 to 2
- 2 to 3
- 3 to 5
- > 5

0 3 6 Miles
DMC by Census Tract: Black Youth

Relative Rate Index

- < 1
- 1 to 2
- 2 to 3
- 3 to 5
- > 5

0 3 6 Miles
DMC by Census Tract: Asian Youth

Relative Rate Index
- < 1
- 1 to 2
- 2 to 3
- 3 to 5
- > 5

0 3 6 Miles
DMC by Census Tract: Pacific Youth

Relative Rate Index:
- < 1
- 1 to 2
- 2 to 3
- 3 to 5
- > 5

0 3 6 Miles
DMC by Census Tract: Other Minority Youth

Relative Rate Index
- < 1
- 1 to 2
- 2 to 3
- 3 to 5
- > 5

0 3 6 Miles
DMC by Census Tract: Multiracial Youth

Relative Rate Index:
- < 1
- 1 to 2
- 2 to 3
- 3 to 5
- > 5

0 3 6 Miles
# Relative Rate Indices by Tract

<table>
<thead>
<tr>
<th>Race</th>
<th>Minimum</th>
<th>Maximum</th>
<th>Median</th>
</tr>
</thead>
<tbody>
<tr>
<td>All minority</td>
<td>1.17</td>
<td>11.00</td>
<td>2.17</td>
</tr>
<tr>
<td>Black</td>
<td>0.67</td>
<td>9.93</td>
<td>3.18</td>
</tr>
<tr>
<td>Native</td>
<td>0.70</td>
<td>110.36</td>
<td>2.85</td>
</tr>
<tr>
<td>Asian</td>
<td>0.28</td>
<td>9.48</td>
<td>1.40</td>
</tr>
<tr>
<td>Pacific</td>
<td>1.33</td>
<td>13.21</td>
<td>3.93</td>
</tr>
<tr>
<td>Other minority</td>
<td>0.57</td>
<td>13.31</td>
<td>2.43</td>
</tr>
<tr>
<td>Multiracial</td>
<td>0.92</td>
<td>9.31</td>
<td>2.32</td>
</tr>
</tbody>
</table>
## RELATIVE RATE INDICES BY TRACT

<table>
<thead>
<tr>
<th>Race</th>
<th>&lt;1</th>
<th>1 to 5</th>
<th>&gt; 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>All minority</td>
<td>0 (0%)</td>
<td>50 (91%)</td>
<td>5 (9%)</td>
</tr>
<tr>
<td>Black</td>
<td>1 (2%)</td>
<td>44 (85%)</td>
<td>7 (13%)</td>
</tr>
<tr>
<td>Native</td>
<td>2 (4%)</td>
<td>40 (73%)</td>
<td>13 (24%)</td>
</tr>
<tr>
<td>Asian</td>
<td>19 (35%)</td>
<td>31 (57%)</td>
<td>4 (7%)</td>
</tr>
<tr>
<td>Pacific</td>
<td>0 (0%)</td>
<td>32 (73%)</td>
<td>12 (27%)</td>
</tr>
<tr>
<td>Other minority</td>
<td>5 (9%)</td>
<td>43 (78%)</td>
<td>7 (13%)</td>
</tr>
<tr>
<td>Multiracial</td>
<td>2 (4%)</td>
<td>50 (91%)</td>
<td>3 (6%)</td>
</tr>
</tbody>
</table>
A census tract is an outlier when its relative rate index is substantially greater than the median relative rate index.

A search for census tracts that generate the highest levels of DMC.
Outlier Census Tracts: Native Youth

# of times as outlier:
- 0
- 1 to 2
- 3 to 4
- 5 to 7

Distance in miles:
- 0
- 3
- 6

Legend:
- Green: 0
- Yellow: 1 to 2
- Orange: 3 to 4
- Red: 5 to 7
Outlier Census Tracts: Asian Youth

# of times as outlier:
- 0
- 1 to 2
- 3 to 4
- 5 to 7

N
0 3 6 Miles
Outlier Census Tracts: Pacific Youth

# of times as outlier:
- Green: 0
- Yellow: 1 to 2
- Orange: 3 to 4
- Red: 5 to 7

0 3 6 Miles
Outlier Census Tracts: Other Minority Youth

# of times as outlier:
- 0
- 1 to 2
- 3 to 4
- 5 to 7

0 3 6 Miles
Outlier Census Tracts: Multiracial Youth

# of times as outlier:
- Green: 0
- Yellow: 1 to 2
- Orange: 3 to 4
- Red: 5 to 7

0 to 3 6 Miles
CONCLUSIONS

• Although DMC occurs for almost everyone...
  – Some census tracts have much higher DMC levels than others.
  – These census tracts are not clustered together, and vary by racial group.