## Adolescent Out-Of-School Time Participation: Contextual Predictors and Developmental Differences

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## Rationale for the Study

DOST programs and activities can have important developmental and academic benefits for youth
$\square$ But: Participation is often problematic (Kane \& Granger)
$\square$ So, what factors predict getting kids "in the door?"
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## HFRP Conceptual Model of Participation



## Rationale for the Study (Cont.)

- Little work has addressed
- Predictors of OST participation using national recent data
- Different contexts simultaneously
- Developmental differences in predictors
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## Guiding questions

1. Above and beyond sociodemographic characteristics, does child, family, school, and/or neighborhood risk predict OST participation?
2. Does age moderate these relations?
3. What implications for policy and practice can be gleaned from these results?
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## Panel Study of Income Dynamics: Child Development Supplement

- Wave 1: 1997 \& Wave II: 2002
- 2,907 participants (ages 5-18)
- Includes three social age groupings:

1. Elementary School $(\mathrm{n}=1478)$
2. Middle $(\mathrm{n}=588)$
3. High School $(\mathrm{n}=762)$

- 49\% female
- 42\% African-American, 46\% European-American, 7\% Latino, 2\% Asian
- 2000 Annual family income: $\mathrm{M}=\$ 61,576$ (range $=0$ \$1,365,600)
- Parent education: $\mathrm{M}=13.19$ years (range = 2 - 17 years)


## Constructs and Measures

## Construct

OST Activities
Community Program

Athletics

Scouting
Lessons

School Activities

Service Clubs

## Measure

Primary Caregiver Report
Was child a member of any groups or programs in the community in the last 12 months?

Did child participate on an athletic team in the last 12 months?

Did child participate in scouting in the last 12 months?
Did child take lessons such as music, dance, or drama in the last 12 months?

Did child participate in any school activities such as clubs or student government in the last 12 months?

Did child participate in any voluntary service activities or service clubs in the last 12 months?

Any OST program or activity

Did child participate in ANY of the above in the past 12 months?
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## Constructs and Measures

## Construct

Family Demographics
Family Income
Parent Education
Race/Ethnicity
Age

## Measure <br> Primary Caregiver Report

Five-year average of annual income from all sources
Years of education for most highly educated caregiver Dummy variables for Black, Hispanic, and Other Race

Child's age

## Child Risk

1. Low Reading Achievement
2. Low Math Achievement
3. Significant Health Problem
4. High Internalizing Problems
5. High Externalizing Problems
6. Low Positive Behaviors (autonomy, compliance, and social competence)
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## Family Risk

1. Low Family Involvement in the School
2. Low Emotional Support
3. Low Cognitive Stimulation
4. Low Social Support
5. Low Parental Self-Efficacy
6. High Family Financial Strain
7. High Parental Distress
8. Low Parent Community Involvement
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## School Risk

1. Large School Size
2. High Poverty School
3. High Pupil to Teacher Ratio
4. Title I Eligibility
5. High Dropout Rate in the School District
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## Neighborhood Risk

1. High Socioeconomic Disadvantage
2. High Neighborhood Disorder
3. Low Collective Efficacy
4. Dangerous Neighborhood
5. Poor Place to Raise Children
6. Difficulty Distinguishing Strangers
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## Analytic Strategy

- First tested whether the contextual risk indices predicted OST participation
- Then interacted each contextual risk factor with developmental age groups (middle and high school vs. elementary)
- Then ran first set of models within developmental age groups to see the direction and patterns of predictors
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## Results

- Child Risk was most consistently linked with decreased odds of participating, but only amongst middle and high school youth.
- Family risk was next consistent predictor, but again, only amongst middle and high school youth.
- These child and family effects were concentrated in athletics, lessons, school-based activities, and service clubs, not community programs.
- Neighborhood risk negatively predicted athletics and scouting, but positively predicted school activity participation (for high school youth) and community programs (for middle school youth)
- School risk was generally unrelated to participation with the exception of positively predicting school activities \& service clubs for elementary youth.
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## Community Programs






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## Athletics


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## Lessons




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[^0]
## Scouting




## School Activities



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## Service Clubs






## Any OST





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## Conclusions

- Need to engage high-risk older youth, which includes those behind behaviorally and academically and youth from high-risk families
- Older youth "vote with their feet" - and high risk older youth are often voting "No"
- Neighborhood and school boundaries seem to matter less for older youth, but more research is needed
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## Implications for Policy and Practice

- Focus on recruitment and retention of high risk youth
- Develop individualized relationships
- Hire staff with the ability to relate to these youth
- Have teachers and community agencies help identify high-risk youth
- Designate slots for at-risk youth
- Evaluate different innovations and strategies to recruit and retain high-risk youth

Table 1. The Odds Ratios (standard errors) of Youths’ Participation in Community and Athletic Programs.

|  | Community Programs |  |  |  |  |  | Athletic Programs |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Model 1 |  | Model 2 |  | Model 3 |  | Model 1 | Model 2 |  | Model 3 |  |
| Middle School | 0.84 | (-0.15) | 0.82 | (-0.15) | 0.87 | (-0.18) | $2.05 * * *(-0.32)$ | 2.28*** | (-0.37) | 2.34*** | (-0.39) |
| High School | 0.90 | (-0.16) | 0.91 | (-0.16) | 0.90 | (-0.20) | 1.37** (-0.19) | 1.48*** | (-0.21) | 1.48*** | (-0.22) |
| Male | 0.73** | (-0.11) | 0.74** | (-0.11) | 0.73** | (-0.11) | 1.50*** (-0.18) | 1.57*** | (-0.19) | 1.57*** | (-0.19) |
| Black | 0.38*** | (-0.07) | 0.44*** | (-0.09) | 0.41*** | (-0.08) | 1.19 (-0.19) | 1.35* | (-0.23) | 1.28 | (-0.22) |
| Hispanic | 0.46** | (-0.16) | 0.52* | (-0.18) | 0.52** | (-0.17) | 0.63** (-0.14) | 0.68* | (-0.15) | 0.67* | (-0.15) |
| Other Race | 0.54 | (-0.21) | 0.58 | (-0.22) | 0.57 | (-0.22) | $0.37 * * *(-0.10)$ | 0.38*** | (-0.10) | 0.40*** | (-0.11) |
| Income | 0.89 | (-0.11) | 0.87 | (-0.11) | 0.87 | (-0.11) | 1.60*** (-0.17) | 1.39*** | (-0.15) | 1.44*** | (-0.16) |
| Parent Educ. | 1.12*** | (-0.05) | 1.10** | (-0.05) | 1.10** | (-0.05) | $1.08 * * *(-0.03)$ | 1.06** | (-0.03) | 1.06** | (-0.03) |
| Neighborhood Risk |  |  | 1.00 | (-0.11) | 0.91 | (-0.16) |  | 0.75*** | (-0.06) | 0.61*** | (-0.07) |
| School Risk |  |  | 0.86 | (-0.09) | 0.71** | (-0.10) |  | 1.06 | (-0.08) | 0.93 | (-0.10) |
| Family Risk |  |  | 0.87 | (-0.09) | 0.96 | (-0.12) |  | 0.89 | (-0.07) | 1.06 | (-0.12) |
| Child Risk |  |  | 1.06 | (-0.09) | 1.16 | (-0.15) |  | 0.87** | (-0.06) | 1.13 | (-0.12) |
| Midd * Child Risk |  |  |  |  | 0.96 | (-0.20) |  |  |  | 0.69** | (-0.11) |
| Midd * Family Risk |  |  |  |  | 0.80 | (-0.18) |  |  |  | 0.71* | (-0.13) |
| Midd * School Risk |  |  |  |  | 1.06 | (-0.26) |  |  |  | 1.31 | (-0.24) |
| Midd * Neighborhood Risk |  |  |  |  | 1.74** | (-0.46) |  |  |  | 1.40* | (-0.26) |
| High * Child Risk |  |  |  |  | 0.78 | (-0.16) |  |  |  | 0.68** | (-0.11) |
| High * Family Risk |  |  |  |  | 0.84 | (-0.23) |  |  |  | 0.80 | (-0.14) |
| High * School Risk |  |  |  |  | 1.61** | (-0.36) |  |  |  | 1.14 | (-0.18) |
| High * Neighborhood Risk |  |  |  |  | 0.95 | (-0.24) |  |  |  | 1.47** | (-0.27) |

Note. A value above 1.00 indicates that youth are more likely to participate. A value below 1.00 indicates the likelihood that you will not participate.
*p $<.05 .{ }^{* *} p<.01 .{ }^{* * *} p<.001$.


Table 2. The Odds Ratios (standard errors) of Youths’ Participation in Scouting and Lessons.

|  | Scouting |  |  |  |  |  | Lessons |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Model 1 |  | Model 2 |  | Model 3 |  | Model 1 |  | Model 2 |  | Model 3 |  |
| Middle School | 0.46*** | (-0.10) | 0.46*** | (-0.10) | 0.46*** | (-0.12) | 1.72*** | (-0.26) | 1.83*** | (-0.28) | 1.67*** | (-0.28) |
| High School | 0.20*** | (-0.05) | 0.21*** | (-0.05) | 0.18*** | (-0.06) | 0.54*** | (-0.08) | 0.59*** | (-0.09) | 0.56*** | (-0.10) |
| Male | 0.70** | (-0.12) | 0.70** | (-0.12) | 0.71** | (-0.12) | 0.35*** | (-0.05) | 0.37*** | (-0.05) | 0.36*** | (-0.05) |
| Black | 0.43*** | (-0.10) | 0.51*** | (-0.12) | 0.52*** | (-0.13) | 1.22 | (-0.21) | 1.32 | (-0.25) | 1.33 | (-0.25) |
| Hispanic | 0.52* | (-0.19) | 0.63 | (-0.23) | 0.60 | (-0.21) | 1.98*** | (-0.46) | 1.97*** | (-0.48) | 1.94*** | (-0.47) |
| Other Race | 0.23** | (-0.14) | 0.25** | (-0.15) | 0.24** | (-0.15) | 1.04 | (-0.30) | 1.04 | (-0.30) | 1.04 | (-0.30) |
| Income | 1.00 | (-0.14) | 0.94 | (-0.13) | 0.92 | (-0.13) | 1.61*** | (-0.17) | 1.51*** | (-0.16) | 1.53*** | (-0.16) |
| Parent Educ. | 1.12*** | (-0.05) | 1.10** | (-0.05) | 1.10** | (-0.05) | 1.13*** | (-0.04) | 1.11*** | (-0.04) | 1.11*** | (-0.04) |
| Neighborhood Risk |  |  | 0.80* | (-0.10) | 0.85 | (-0.12) |  |  | 1.04 | (-0.09) | 1.05 | (-0.13) |
| School Risk |  |  | 0.91 | (-0.11) | 0.78* | (-0.11) |  |  | 1.02 | (-0.08) | 0.99 | (-0.12) |
| Family Risk |  |  | 0.93 | (-0.10) | 0.92 | (-0.12) |  |  | 0.76*** | (-0.07) | 0.81 | (-0.13) |
| Child Risk |  |  | 1.04 | (-0.10) | 1.00 | (-0.12) |  |  | 0.94 | (-0.06) | 1.06 | (-0.11) |
| Midd * Child Risk |  |  |  |  | 1.16 | (-0.24) |  |  |  |  | 0.93 | (-0.14) |
| Midd * Family Risk |  |  |  |  | 1.03 | (-0.22) |  |  |  |  | 0.88 | (-0.18) |
| Midd * School Risk |  |  |  |  | 1.05 | (-0.40) |  |  |  |  | 0.89 | (-0.16) |
| Midd * Neighborhood Risk |  |  |  |  | 1.02 | (-0.27) |  |  |  |  | 1.02 | (-0.22) |
| High * Child Risk |  |  |  |  | 1.00 | (-0.22) |  |  |  |  | 0.70** | (-0.13) |
| High * Family Risk |  |  |  |  | 1.00 | (-0.26) |  |  |  |  | 0.97 | (-0.21) |
| High * School Risk |  |  |  |  | 1.93*** | (-0.49) |  |  |  |  | 1.16 | (-0.19) |
| High * Neighborhood Risk |  |  |  |  | 0.55 | (-0.28) |  |  |  |  | 0.99 | (-0.20) |

Note. A value above 1.00 indicates that youth are more likely to participate. A value below 1.00 indicates the likelihood that you will not participate.
${ }^{*} p<.05 .{ }^{* *} p<.01 .{ }^{* * *} p<.001$.


Table 3. The Odds Ratios (standard errors) of Youths' Participation in School Activities and Service Clubs.

|  | School Activities |  |  |  |  |  | Service Clubs |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Model 1 |  | Model 2 |  | Model 3 |  | Model 1 |  | Model 2 |  | Model 3 |  |
| Middle School | 1.61** | (-0.34) | 1.59** | (-0.34) | 1.55** | (-0.34) | 1.52* | (-0.34) | 1.56** | (-0.35) | 1.45 | (-0.34) |
| High School | 2.28*** | (-0.46) | 2.17 *** | (-0.44) | 2.19*** | (-0.45) | 2.35*** | (-0.50) | 2.41*** | (-0.52) | 2.28*** | (-0.50) |
| Male | 0.42*** | (-0.06) | 0.44*** | (-0.06) | 0.44*** | (-0.06) | 0.70** | (-0.10) | 0.70** | (-0.10) | 0.72** | (-0.10) |
| Black | 1.12 | (-0.22) | 0.94 | (-0.20) | 0.93 | (-0.20) | 0.71* | (-0.14) | 0.72 | (-0.14) | 0.69* | (-0.14) |
| Hispanic | 1.37 | (-0.39) | 1.03 | (-0.30) | 1.11 | (-0.33) | 0.53** | (-0.17) | 0.52** | (-0.17) | 0.56* | (-0.18) |
| Other Race | 0.64 | (-0.21) | 0.56* | (-0.18) | 0.59* | (-0.19) | 0.78 | (-0.25) | 0.78 | (-0.25) | 0.81 | (-0.26) |
| Income | 1.14 | (-0.13) | 1.16 | (-0.14) | 1.20 | (-0.15) | 1.15 | (-0.13) | 1.10 | (-0.13) | 1.14 | (-0.14) |
| Parent Educ. | 1.10*** | (-0.04) | 1.12*** | (-0.04) | 1.12*** | (-0.04) | 1.07* | (-0.04) | 1.06* | (-0.04) | 1.07* | (-0.04) |
| Neighborhood Risk |  |  | 1.16* | (-0.10) | 1.10 | (-0.25) |  |  | 0.94 | (-0.09) | 1.05 | (-0.24) |
| School Risk |  |  | 1.12 | (-0.09) | 2.05*** | (-0.42) |  |  | 1.08 | (-0.09) | 1.88*** | (-0.39) |
| Family Risk |  |  | 1.05 | (-0.09) | 1.18 | (-0.23) |  |  | 0.91 | (-0.09) | 1.26 | (-0.27) |
| Child Risk |  |  | 0.77*** | (-0.06) | 0.81 | (-0.13) |  |  | 1.00 | (-0.07) | 1.09 | (-0.18) |
| Midd * Child Risk |  |  |  |  | 1.01 | (-0.20) |  |  |  |  | 1.01 | (-0.19) |
| Midd * Family Risk |  |  |  |  | 1.05 | (-0.25) |  |  |  |  | 0.84 | (-0.21) |
| Midd * School Risk |  |  |  |  | 0.49*** | (-0.12) |  |  |  |  | 0.52** | (-0.13) |
| Midd * Neighborhood Risk |  |  |  |  | 0.93 | (-0.25) |  |  |  |  | 0.81 | (-0.21) |
| High * Child Risk |  |  |  |  | 0.87 | (-0.17) |  |  |  |  | 0.81 | (-0.16) |
| High * Family Risk |  |  |  |  | 0.76 | (-0.17) |  |  |  |  | 0.59** | (-0.15) |
| High * School Risk |  |  |  |  | 0.49*** | (-0.11) |  |  |  |  | 0.51*** | (-0.12) |
| High * Neighborhood Risk |  |  |  |  | 1.24 | (-0.32) |  |  |  |  | 0.96 | (-0.25) |

Note. A value above 1.00 indicates that youth are more likely to participate. A value below 1.00 indicates the likelihood that you will not participate.
${ }^{*} p<.05 .{ }^{* *} p<.01 .{ }^{* * *} p<.001$.


Table 4. The Odds Ratios (standard errors) of Youths' Participation in Any OST Activity.

|  | Model 1 |  | Model 2 |  | Model 3 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Middle School | 2.73*** | (-0.64) | 2.96*** | (-0.70) | 2.87*** | (-0.68) |
| High School | 1.93*** | (-0.36) | 2.03*** | (-0.37) | 2.29*** | (-0.46) |
| Male | 0.69** | (-0.11) | 0.70** | (-0.11) | 0.70** | (-0.12) |
| Black | 1.15 | (-0.24) | 1.18 | (-0.26) | 1.11 | (-0.25) |
| Hispanic | 0.76 | (-0.20) | 0.75 | (-0.20) | 0.75 | (-0.20) |
| Other Race | 0.41*** | (-0.14) | 0.42** | (-0.14) | 0.45** | (-0.16) |
| Income | 2.10*** | (-0.28) | 1.92*** | (-0.26) | 1.97*** | (-0.27) |
| Parent Educ. | 1.07** | (-0.04) | 1.07* | (-0.04) | 1.07** | (-0.04) |
| Neighborhood Risk |  |  | 0.87 | (-0.08) | 0.83 | (-0.10) |
| School Risk |  |  | 1.13 | (-0.10) | 0.93 | (-0.12) |
| Family Risk |  |  | 0.91 | (-0.09) | 1.09 | (-0.14) |
| Child Risk |  |  | 0.94 | (-0.08) | 1.24 | (-0.19) |
| Midd * Child Risk |  |  |  |  | 0.73 | (-0.15) |
| Midd * Family Risk |  |  |  |  | 1.02 | (-0.26) |
| Midd * School Risk |  |  |  |  | 1.16 | (-0.33) |
| Midd * Neighborhood Risk |  |  |  |  | 0.97 | (-0.25) |
| High * Child Risk |  |  |  |  | 0.61** | (-0.12) |
| High * Family Risk |  |  |  |  | 0.57*** | (-0.11) |
| High * School Risk |  |  |  |  | 1.48** | (-0.29) |
| High * Neighborhood Risk |  |  |  |  | 1.34 | (-0.28) |

Note. A value above 1.00 indicates that youth are more likely to participate. A value below 1.00 indicates the likelihood that you will not participate.
${ }^{*} p<.05 .{ }^{* *} p<.01 .{ }^{* * *} p<.001$.
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## Correlations

- chrisk famrisk schrisk ngbrisk
- chrisk 1.0000
- famrisk 0.15151 .0000
- schrisk 0.05380 .23331 .0000
ngbrisk $0.08050 .2978 \quad 0.2908$
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## Income Education Black Hispanic

- zchrisk| -0.1118-0.0781 0.0678-0.0515
- zfamrisk| -0.3983 -0.3675 0.25960 .0613
- zschrisk| -0.3284 -0.3111 0.28990 .1642
- zngbrisk| -0.4181-0.3296 0.25020 .1573
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|  | Comm | Ath | Lesson | Scout | School | Service | Any |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| All |  |  |  |  |  |  |  |
| Chfam | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chsch | 0 | + | 0 | 0 | 0 | 0 | + |
| Chngb | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Famsch | 0 | + | 0 | 0 | 0 | 0 | + |
| Famngb | 0 | + | 0 | 0 | 0 | 0 | + |
| Schngb | 0 | + | + | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |


|  | Comm | Ath | Lesson | Scout | School | Service | Any |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Elem |  |  |  |  |  |  |  |
| Chfam | 0 | + | 0 | 0 | 0 | 0 | + |
| Chsch | 0 | 0 | 0 | + | 0 | 0 | 0 |
| Chngb | 0 | 0 | 0 | + | 0 | 0 | 0 |
| Famsch | 0 | + | 0 | - | 0 | 0 | + |
| Famngb | 0 | 0 | 0 | 0 | 0 | 0 | + |
| Schngb | + | + | 0 | 0 | - | 0 | + |
|  |  |  |  |  |  |  |  |


|  | Comm | Ath | Lesson | Scout | School | Service | Any |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Middle |  |  |  |  |  |  |  |
| Chfam | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chsch | 0 | 0 | 0 | - | 0 | - | + |
| Chngb | 0 | 0 | 0 | 0 | 0 | 0 | + |
| Famsch | 0 | 0 | 0 | - | 0 | 0 | 0 |
| Famngb | 0 | 0 | 0 | - | 0 | 0 | 0 |
| Schngb | - | 0 | 0 | 0 | 0 | 0 | + |
|  |  |  |  |  |  |  |  |


|  | Comm | Ath | Lesson | Scout | School | Service | Any |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| High |  |  |  |  |  |  |  |
| Chfam | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chsch | 0 | 0 | 0 | 0 | 0 | + | 0 |
| Chngb | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Famsch | 0 | + | 0 | 0 | + | + | 0 |
| Famngb | 0 | + | 0 | 0 | 0 | 0 | 0 |
| Schngb | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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## Child Risk

| Activity | Comm | Athletic | Lesson | Scout | School | Service | Any |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Overall | 0 | - | 0 | 0 | - | 0 | 0 |
| Elem | 0 | 0 | 0 | 0 | 0 | 0 | + |
| Midd | 0 | - | 0 | 0 | - | 0 | 0 |
| High | 0 | - | - | 0 | - | 0 | - |

## Family Risk

| Activity | Comm | Athletic | Lesson | Scout | School | Service | Any |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Overall | 0 | 0 | - | 0 | 0 | 0 | 0 |
| Elem | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Midd | 0 | - | - | 0 | 0 | 0 | 0 |
| High | 0 | - | 0 | 0 | 0 | - | - |

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## Child and Family Risk


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## School Risk

| Activity | Comm | Athletic | Lesson | Scout | School | Service | Any |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Overall | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Elem | - | 0 | 0 | 0 | + | + | 0 |
| Midd | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| High | 0 | 0 | 0 | 0 | 0 | 0 | + |

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Neighborhood Risk

| Activity | Comm | Athletic | Lesson | Scout | School | Service | Any |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Overall | 0 | - | 0 | - | + | 0 | 0 |
| Elem | 0 | - | 0 | 0 | 0 | 0 | 0 |
| Midd | + | 0 | 0 | 0 | 0 | 0 | 0 |
| High | 0 | 0 | 0 | - | + | 0 | 0 |

## Neighborhood Risk




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