Break & Enter Crime Opportunity Spaces in Regina

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The Environmental Research and Response Applications Lab

National Summer Institute for the Statistical & GIS Analysis of Crime & Justice Data

- RCMP Central
 Training Academy
- Saskatchewan Police
 College
- Police Studies Program (School of Human Justice)
- TERRA Lab (Department of Geography)



- SSHRC
- StatsCan

Break & Enter Opportunity Spaces

Environmental Criminology

- Routine Activity Theory.
- Rational Choice Theory.
- Criminal Pattern Theory.

Routine Activity Theory

The Crime Analysis Triangle



Likely offender + suitable target – capable guardian = crime opportunity

Break & Enter Opportunity Spaces

Rational Choice Theory

- Most offenders make a (fairly) rational decision to commit an offence.
 - What are the rewards against the chances of getting caught?
 - The rewards and likelihood of capture vary by time and place.

Crime Pattern Theory

- Offenders are influenced by the daily activities and routines of their lives.
 - They will tend to concentrate in areas that are known to them.
 - In their day-to-day activities, they will be watching for targets that have no guardians or place managers.

Environmental Criminology

While routine activity theory gives us a model to predict if a crime has all the right ingredients to occur, and rational choice theory gives us some insight into what an offender is thinking when they decide to commit the crime, criminal pattern theory helps us understand where and when the offence will occur.

Break & Enter Data



Break & Enter Opportunity Spaces

Break & Enter Data



Break & Enter Opportunity Spaces

Arterial Roads



Break & Enter Opportunity Spaces

Commercial Areas



Break & Enter Opportunity Spaces

Parks & Open Spaces



Break & Enter Opportunity Spaces

Lakes / Rivers / Creeks



Break & Enter Opportunity Spaces

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Break & Enter Opportunity Spaces

High Schools



Break & Enter Opportunity Spaces

Break & Enter Opportunity Space



- 325 m Arterial Roads
- 575 m Commercial Areas
- 475 m Parks & Open Spaces

Break & Enter Opportunity Spaces

Break & Enter Opportunity Space



Break & Enter Opportunity Spaces

Analysis

	Regina	Ottawa
Arterial Roads	325 m	308 m
Commercial Areas	575 m	289 m
Parks / Vacant Land	475 m	360 m
Recreational Land Use	_	280 m
4 - Node Intersections	_	98 m
Urban Trails	_	694 m

(Moffatt, 2005)

Limitations / Future Research

- Probability decay functions are linear; should they be exponential?
- Probability distance thresholds assume the data are normally distributed; are they?
- January April 2005 data may not be representative.
- Would housing density be a good indicator?
- Include socio-economic data.