MODELING CHILD ABUSE TO EVALUATE LOCATIONS OF THE DEPARTMENT OF YOUTH AND FAMILY SERVICES

Advanced GIS Course (ENVE 5505), Instructor, Dr. Weiming

Eric Hoffmann

ABSTRACT

suitable locations that are supposed to supply the needs of New Jersey's at-risk children. The two main components of the project are, a model of New Jersey's high-risk child abuse areas, determine if location is one of the factors for the system failure and if so to make recommendations for relocating of

INTRODUCTION

The Division of Youth and Family Services is developing a new system to model the location of its offices based on available department resources and limited funds. I believe that one of the problems could be the [illegible] locations for the offices are not in proximity (15 miles) to high-risk areas.

OBJECTIVES

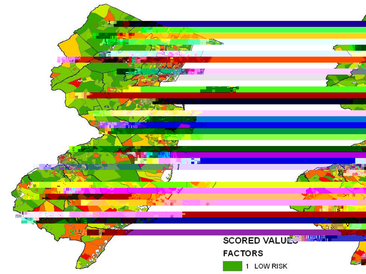
The objective for this project is to model areas that have the [illegible]

The second objective [illegible] offices effectively.

FACTORS THAT INFLUENCE ABUSE AND NEGLECT

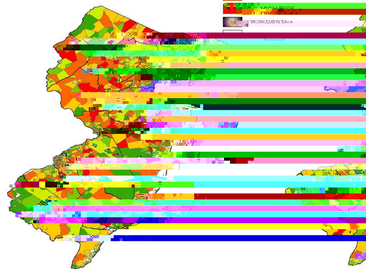
EDUCATION

FAMILY SIZE



AGE OF CHILDREN

POVERTY



METHODS

Modeling [illegible] were unsuccessful with [illegible]. Based on available data from GeoServices software (2000 census) [illegible]

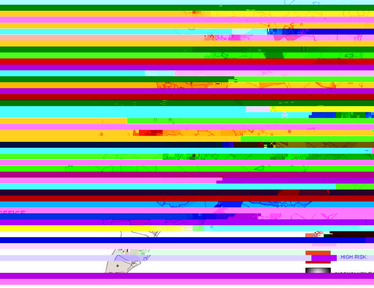
The calculation [illegible] scale of factors [illegible] fathers. The sub-factors were then w[illegible] the value of parental education [illegible] years old and 40 years [illegible] increase respectively. All of the [illegible] above weighting factors in the tables [illegible] weighting is based on a 2[illegible] then converted into [illegible] Arc Info and Modelsit were the 4 scored factors were input into [illegible] the [illegible] model.

6.5

The rationale in weighting the factors is as follows: individuals who do not complete school, display a failure to take responsibility and may have a history of abuse and or neglected. Example, parents struggling to pay bills need to work long hours leaving the children home [illegible] the least weight because it is a factor that is a lifestyle [illegible] of the time parents need to spend with their children. The [illegible]

RESULTS

EFFECTIVELY SERVICES [illegible] HIGH-RISK AREAS NOT [illegible]



CONCLUSION

[illegible] offices based on more comprehensive [illegible]