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A full Bayesian assessment of the effect of highway bypasses on crashes, crash rates and citizens' safety in Iowa communities

by

Lorenzo Cena

A thesis submitted to the graduate faculty
in partial fulfillment of the requirements for the degree of
MASTER OF SCIENCE

Major: Industrial Education and Technology

Program of Study Committee:

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2007

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In memory of my beloved mother
who has blessed my life
and to whom I owe all that I am today.

TABLE OF CONTENTS

LIST OF FIGURES	vi
LIST OF TABLES	viii
ABSTRACT	xii
CHAPTER 1. GENERAL INTRODUCTION	1
1.1 Introduction – Statement of Objectives	1
1.2 Procedures of the Study	2
1.3 Bayesian Data Analyses	5
1.4 Thesis organization	6
1.5 References	7
CHAPTER 2. A FULL BAYESIAN ASSESSMENT OF THE EFFECTS OF HIGHWAY BYPASSES ON CRASHES AND CRASH RATES.	9
Abstract	9
2.1 Introduction	10
2.2 Literature Review	11
2.3 Data	18
2.4 Methodology	21
2.4.1 Exploratory Data Analysis	21
2.4.2 Poisson Regression Model	24
2.4.3 Interpretation of the Model Parameters	26
2.5 Results and Interpretation	28
2.5.1 Parameter Estimates	28
2.5.2 Effect of Bypass Construction	29
2.5.3 Effect of Seasons	30

2.6 Expected Crash Frequencies and Crash Rates	31
2.6.1 Expected Crashes on the Main Road	31
2.6.2 Overall Expected Crashes (Main Road + Bypass)	37
2.7 Conclusion and Discussion	42
2.8 References	46
CHAPTER 3. PREDICTING THE EFFECT OF HIGHWAY BYPASSES ON CITIZENS' SAFETY	49
Abstract	49
3.1 Introduction	49
3.2 Literature Review	50
3.3 Data	52
3.4 Methodology	55
3.4.1 Exploratory Data Analysis	55
3.4.2 Model and Notation	57
3.4.3 Interpretation of the Model Parameters	59
3.5 Results and Interpretation	60
3.5.1 Parameter Estimates	60
3.5.2 Effect of Bypass Construction	61
3.5.3 Effect of Seasons	62
3.6 Expected Crash Frequencies and Crash Rates	62
3.6.1 Expected Crashes on the Main Road	63
3.6.2 Expected Crash Rates on the Main Road	66
3.6.3 Overall Expected Crash Frequencies (Main Road + Bypass)	69
3.6.4 Overall Expected Crash Rates (Main Road + Bypass)	71
3.7 Conclusion and Discussion	75
3.8 References	77

CHAPTER 4. FORECASTING EXPECTED CRASHES	79
4.1 Forecasting Crash Frequency on the Main Road	79
4.2 Forecasting Crash Rate on the Main Road	81
4.3 Forecasting Crash Frequency on the Sum	83
4.4 Forecasting Crash Rate on the Sum	85
CHAPTER 5. GENERAL CONCLUSIONS AND RECOMMENDATIONS	88
5.1 Conclusions	88
5.2 Recommendations	91
APPENDIX A. MADT PLOTS	93
APPENDIX B. RAW DATA PLOTS	104
APPENDIX C. R CODE	125
APPENDIX D. WINBUGS CODE	177
APPENDIX E. ROAD DATA	179
APPENDIX F. SUM DATA	284
APPENDIX G. ROAD CITIZEN DATA	389
APPENDIX H. SUM CITIZEN DATA	438
APPENDIX I. WINBUGS OUTPUT	487
ACKNOWLEDGEMENTS	557

LIST OF FIGURES

Figure 1. Graphical representation of double counting at bypass junctions	4
Figure 2. Typical highway bypass around a rural town	12
Figure 3. MADT over time on the main road of site 1	20
Figure 4. MADT over time on the main road up to the intervention and on the bypass afterwards at site 1	20
Figure 5. Observed monthly crashes per mile on the main road at site 1	21
Figure 6. Observed monthly crashes per mile on the main road and then the bypass at site 1	22
Figure 7. Observed monthly crashes per mile on the sum at site 1	22
Figure 8. Smooth curves of all crash rates at site 1	23
Figure 9. Expected slopes	27
Figure 10. Posterior distributions of the expected annual crash frequencies per mile on the main road	34
Figure 11. Posterior distributions of the expected annual crash rates per mile on the main road	37
Figure 12. Posterior distributions of the expected annual crash frequencies per mile on the sum	40
Figure 13. Posterior distributions of the expected annual crash rates per mile on the sum	43
Figure 14. MADT over time on the main road of site 1	54
Figure 15. Observed crash rate on the road at site 1	55
Figure 16. Observed crash rate on the sum at site 1	56
Figure 17. Posterior distributions of expected annual crash frequencies per mile for the road data	66
Figure 18. Posterior distributions of expected annual crash rates per mile for the road data	69

Figure 19. Posterior distributions of expected annual crash frequencies per mile for the sum data	72
Figure 20. Posterior distributions of expected annual crash rates per mile for the sum data	74
Figure 21. MADT on the main road at site 14	76
Figure 22. MADT on main road at site 17	76
Figure 23. MADT on sum at site 5	77

LIST OF TABLES

Table 1. Iowa bypasses and respective opening dates	3
Table 2. Additional Iowa bypasses	3
Table 3. Safety Improvement candidate locations in Iowa, 2006	13
Table 4. Information on study sites	19
Table 5. Observed average crashes per year per mile before and after the bypass construction	24
Table 6. Model coefficients associated with seasonal effects	27
Table 7. Posterior Distributions	28
Table 8. Posterior distributions of the slope of log crash rate over time on the main road	29
Table 9. Posterior distributions of the slope of log crash rate on the sum	29
Table 10. Posterior credible sets for linear combinations of regression coefficients representing the effects of season on the main road	30
Table 11. Posterior credible sets for linear combinations of regression coefficients representing the effects of season on the sum	30
Table 12. Expected annual crash frequency per mile during before and after periods on the main road	32
Table 13. Expected annual crash frequency per mile per site for non-treatment sites	32
Table 14. Comparison of annual crash frequency between treated and average untreated sites on main road	33
Table 15. Posterior means and credible sets of the expected annual crash frequency per mile on the main road	33
Table 16. Expected annual crash rate per mile during before and after periods on the main road	35
Table 17. Expected annual crash rate per mile per site for non-treatment sites	35

Table 18. Before and after comparison of annual crash rate per mile on the main road	36
Table 19. Posterior means and credible sets of the average of the expected annual crash rate per mile on the main road	36
Table 20. Expected annual crash frequency per mile during before and after periods on the sum	38
Table 21. Comparison of annual crash frequency per mile for treated and average untreated on the sum	39
Table 22. Posterior means and 95% credible sets of the expected annual crash frequency per mile on the sum	39
Table 23. Expected annual crash rate per mile per site during before and after on the sum	41
Table 24. Comparison of annual crash rate per mile per site for treated and average untreated on the sum	42
Table 25. Posterior means and credible sets of the average expected annual crash rate per mile on the sum	42
Table 26. Information on study sites	53
Table 27. Observed average number of crashes per year per mile at all sites	56
Table 28. Model coefficients associated with seasonal effects	59
Table 29. Posterior distribution of the road data	60
Table 30. Posterior distribution of the sum data	61
Table 31. Posterior distributions of the slope of log crash rate for the road data	61
Table 32. Posterior distributions of the slope of log crash rate for the sum data	62
Table 33. Means and posterior credible sets of the effects of season for the road data	62
Table 34. Means and posterior credible sets of the effects of season for the sum data	62
Table 35. Expected annual crash frequencies per mile for the road data	64
Table 36. Expected annual crash frequencies per mile per site for non-treatment sites	64
Table 37. Crash frequency comparison of treated and average untreated sites for the	

road data	65
Table 38. Posterior means and credible sets of expected annual crash frequencies per mile for the road data	65
Table 39. Expected annual crash rate per mile during before and after periods for the road data	67
Table 40. Expected annual crash rate per mile for non-treatment sites	67
Table 41. Comparison of annual crash rate per mile for the road data	68
Table 42. Posterior means and credible sets of average expected annual crash rate per mile for the road data	68
Table 43. Expected annual crash frequency per mile during before and after periods for the sum data	70
Table 44. Comparison of annual crash frequency per mile for the sum data	71
Table 45. Posterior means and credible sets of the expected annual crash frequency per mile for the sum data	71
Table 46. Expected annual crash rate per mile per site during before and after for the sum data	73
Table 47. Comparison of annual crash rate per mile per site for the sum data	73
Table 48. Posterior means and credible sets of average expected annual crash rate per mile for the sum data	74
Table 49. 2006 posterior distributions of expected number of crashes on the main road per mile	80
Table 50. 2008 posterior distributions of expected number of crashes per mile on the main road	81
Table 51. 2006 posterior distributions of expected crash rates per mile on the main road	82
Table 52. 2008 posterior distributions of expected crash rates per mile on the main road	83
Table 53. 2006 posterior distributions of expected sum of number of crashes per mile	84

Table 54. 2008 posterior distributions of expected sum of number of crashes per mile	85
Table 55. 2006 posterior distributions of expected sum of crash rates	86
Table 56. 2008 posterior distributions of expected sum of crash rates	87

ABSTRACT

The construction of highway bypasses raises economic and safety concerns among citizens of bypassed communities. This thesis describes the use of a full Bayesian analysis to evaluate the impact of bypasses on traffic safety. Traffic safety has been assessed for the periods before and after the construction of the bypass both on the old road network consisting of the main road through town and on the new road network consisting of the main road and the bypass. Furthermore traffic safety has been assessed for all travelers through or around the communities and then for local citizens of the communities only.

The results suggest that overall crash frequencies and rates decrease, however, the rate of crashes involving citizens of the bypassed communities increases on the main road. The reduction in traffic volume may be affecting the rates of crashes involving local citizens.

CHAPTER 1. GENERAL INTRODUCTION

In an effort to improve traffic safety, road construction engineers constantly evaluate various road safety measures. Any technical device or program whose objective is to improve road safety is considered a road safety measure (Elvik and Vaa, 2004). Finding effective traffic prevention solutions is the only way to successfully prevent the global problem of traffic injury. Highway bypasses are among the road construction measures whose objective is to improve safety. Road safety, however, is not the only objective of constructing a bypass. A section of road that partly or completely circumvents a community improves both transportation and traffic congestion thus decreasing travel times and transportation costs.

Another aspect of redirecting traffic around a community is a potential negative effect to the economy of local businesses. This aspect has been widely investigated (Andersen et al., 1993; Blackburn and Clay, 1991; Buress, 1996; Hartgen, 1991; Wisconsin DOT, 1998). However, a literature review revealed that in the United States the safety aspect of the construction of bypasses has not been assessed.

1.1 Introduction – Statement of Objectives

A previous European study on the effects of bypasses on crash safety (Elvik and Vaa, 2004) reported a general decrease on the number of accidents but do not address the question of the effects on citizenry of local communities. The objective of this work is to use statistical tools and traffic safety data to evaluate the following effects of the construction of a highway bypass:

- Impact on accident frequencies and rates on the old road network consisting of the main road through the bypassed communities.
- Impact on accident frequencies and rates on the new road network consisting of the main road through town and the bypass.

- Impact on frequencies and rates of accidents involving local citizens of the bypassed communities.

The study has been divided into two parts. The first part addresses the effect of the construction of a bypass on crash rates and crash frequencies, the second part addresses the same issues but only considering accidents that involved residents of the bypassed communities.

1.2 Procedures of the Study

The objectives of this study have been achieved through various steps. The first step was to select the bypassed communities for the study; this was done with the use of transportation maps provided by the Iowa Department of Transportation (DOT). A comprehensive list of the bypasses found to exist in the state of Iowa with the respective bypass opening date is contained in Table 1. Table 2 contains a list of bypasses for which the opening date could not be determined. The Iowa DOT selected 26 locations of interest to represent the sample for this study. These locations are marked in bold in Table 1.

The Iowa DOT then provided the crash data for the selected communities by visual inspection of the available data within a Geographic Information System (GIS). The GIS software ArcView GIS 3.2 (Environmental Systems Research Institute, Inc., Redland, CA) allowed for sections of roads to be selected and for the extraction of data from the selected area. At the point of intersection of the old road and the newly constructed bypass, as shown in Figure 1, the double counting of crashes has been taken into consideration and the repeated crashes have been eliminated.

Table 1. Iowa bypasses and respective opening dates

Location	Opening	Location	Opening	Location	Opening
Ackley	2004	Elkader IA13	1981	Nevada US30	1964
Agency	2006-07	Evansdale	1986	New Hampton	2003
Alden	1992-93	Fairfield	2007	New Hartford	1984-85
Alton	2004	Fort Dodge	1989-90	New London	2000
Anamosa	2002	Fort Madison	2007	Nora Springs	1999
Aplington	2004	Fostoria	1991-92	Ogden US30	1968
Argyle	2004	Grand Junction 30	1961-62	Olds	1999
Ashton	2006	Hartford	2003	Oskaloosa	1998
Austinville	2004	Hospers	2006	Otley	1999
Batavia	2005	Independence	1983	Ottamwa	2006-07
Bloomfield US63	2001	Iowa City/US 218	1983-84	Parkersburg	2004
Blue Grass	2001	Iowa Falls	2004	Pella	1995
Carlisle	1998	Janesville	1992-93	Perry IA141	1977
Cascade	2003	Jesup	1986	Plainfield	2003
Cedar Falls/IA 58	1996	La Grand	2005	Pleasantville	2003
Cedar Rapids/US 30	1982-83	Langworthy	2004	Prairie City	1998
Center Point/I-380	1984-85	Le Mars	2006	Raymond	1986
Charles City	2000	Manchester	1988-89	Rudd	1999
Cherokee IA3	1964	Maquoketa	1994-98	Seney	2006
Danville	2006	Marion/IA 100	1998	Sheldon	2006
De Witt	1984-85	Marion/US 151	1989-90	Sibley	2007
Decorah IA9	1967	Marshalltown/IA 330	1989-90	Sidney	2006
Decorah US52	1962	Marshalltown/US 30	1998	Sioux City	2002
Denver	1996	Marshalltown-Ogden/US30	1989-90	Spencer	2007
Des Moines/IA 5	2003	Mason City East	1999	Springville	1991-92
Des Moines/US 65	1998	Mason City West	1999	Storm Lake	1997
Dike	2001	McGregor	1989	Swedesburg	1999
Donnellson	2004	Middletown	2006	Walker I380	1984
Dubuque	2003	Monroe	1999	Waterloo/US 20	1984-85
Duncombe	1986-87	Monticello	2005	Waterloo/US 218	1989-90
Dyersville	1988-89	Mount Joy	1982-83	Waverly	1999
Eddyville	2006	Mount Pleasant	2003	Webster City	1980
Eldridge US61	1983	Muscatine	1983-85	Williams	1992-93
Elk Run Heights	1986	Nashua	2004	Winterset	1977

Four sets of data were obtained: one containing all accidents on the main road (road data), one containing all accidents on the bypass and on the main road (sum data), one containing all accidents involving solely citizens of the bypassed community (road citizens data), and finally one containing all accidents involving citizens of the bypassed community on the bypass and on the main road (sum citizens data).

Table 2. Additional Iowa bypasses

Bypass Locations With Unknown Opening Dates		
Albia	Defiance	Luana
Algona	Delaware	Lyman
Britt	Durant	Manly
Burt	Earlville	Masonville
Chariton	Emerson	Monona
Clarinda	Fayette	Ralston
Clear Lake	Garner	Rockwell
Colo	Grant	Shambaugh
Coon Rapids	Hills	Shell Rock
Corning	Humboldt	Ventura
Cushing	Hutchins	Villisca
Dakota City	Jefferson	Wesley
Dedham	Knoxville	Winthrop

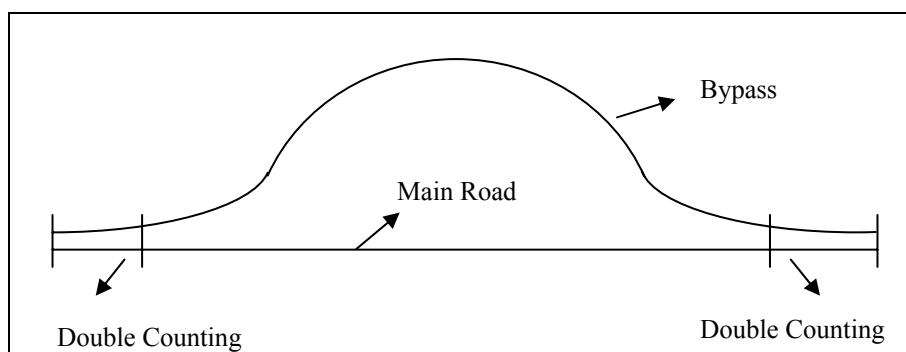


Figure 1. Graphical representation of double counting at bypass junctions

The next step was a preliminary analysis where all crashes were divided by the length of the road sections from which they were extracted, thus obtaining the crash frequencies per mile, and plotted against time. The Monthly Average Daily Traffic (MADT) at each site was also plotted. MADT plots for all study sites are found in Appendix A. The plots of all crash frequencies per mile at each site from each set of data are included in Appendix B. With the use of transportation maps and observing the traffic patterns from the MADT plots the completion year of the bypass was obtained for each site. The preliminary analysis suggested the statistical approach of the study as described in Chapters 2 and 3. A full Bayesian

analysis of the data led to conclusions, forecasting of accidents for selected years outside the study time, and recommendations based on the research questions and hypotheses.

1.3 Bayesian Data Analyses

This section will give a brief description of the full Bayesian approach adopted for this research study. Bayesian data analyses are practical methods for making inferences from data using probability models for observed quantities and for unknown quantities (Gelman et al., 2004). Bayesian data analysis can be described in three steps:

1. Set up a full probability model (prior distribution) that is consistent with the knowledge about the data and the underlying scientific problem.
2. Calculate and interpret the posterior distribution of the unobserved quantities of interest, given the observed data.
3. Evaluate whether the model fits the data, the conclusions are reasonable, and the sensitivity of the results to the modeling assumptions.

The improvement of techniques for computing probability distributions has alleviated the complexity of these steps (Gelman et al., 2004).

From a Bayesian perspective, observables and parameters of a statistical model are considered random quantities. Let D denote the observed data and θ denote model parameters and missing data. The joint probability distribution over all random quantities $P(D, \theta)$ comprises a prior distribution $P(\theta)$, and a likelihood $P(D|\theta)$. The full probability model is as follows:

$$P(D, \theta) = P(D | \theta)P(\theta) \quad (1)$$

Having observed D , using Bayes theorem it is possible to determine the posterior distribution of θ , i.e. the distribution of θ conditional on D .

$$P(\theta|D) = \frac{P(\theta)P(D|\theta)}{\int P(\theta)P(D|\theta)d\theta} \quad (2)$$

This posterior distribution is the object of all Bayesian inference. Moments, quantiles, and other features of the posterior distribution can be expressed in terms of posterior expectations of θ (Gilks et al., 1996).

In order to make inferences about the model parameter and make predictions it is necessary to integrate over high-dimensional probability distributions. Markov chain Monte Carlo (MCMC) methods provide a unifying framework that allows for complex problems to be analyzed using generic computer software. Monte Carlo integration draws samples from the required distributions and then forms sample averages to approximate expectations. MCMC draws these samples by running a Markov chain for an extended time (Gilks et al., 1996).

In this study the computer software WinBUGS has been used to estimate the posterior distribution of the model parameters. WinBUGS code and outputs can be found respectively in appendix C and D.

1.4 Thesis organization

This thesis is organized into five chapters, which include the journal article manuscripts along with introductory, supporting and concluding chapters. Chapter 1 contains the general introduction to this study. Chapters 2 and 3 consist of the manuscripts discussing different areas of this study. Chapter 4 deals with forecasting expected crash frequencies and rates in 2006 and 2008 on the old and new road networks. Chapter 5 includes overall conclusions and recommendations.

The first manuscript, entitled A Full Bayesian Assessment of the Effects of Highway Bypasses on Crashes and Crash Rates, is to be submitted to the journal *Accident Analysis and*

Prevention. This paper discusses the impact on accident frequencies and rates on the old road network, and the impact on accident frequencies and rates on the new road network. The Bayesian analysis is carried out using the road data and the sum data.

The second manuscript, entitled A Full Bayesian Assessment of the Effect of Highway Bypasses on Citizenry, is to be submitted to the *Journal of Safety Research*. This paper discusses the impact on frequencies and rates of accidents involving local citizens of the bypassed communities, and the analysis for this part of the study is carried out using the road citizen data and the sum citizen data.

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CHAPTER 2. A FULL BAYESIAN ASSESSMENT OF THE EFFECTS OF HIGHWAY BYPASSES ON CRASHES AND CRASH RATES.

Modified for copyright reasons from a paper to be submitted to *Accident Analysis and Prevention*¹

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Steven A. Freeman⁷

Abstract

A common contention is that the construction of highway bypasses negatively impacts the economy of local communities by reducing pass-by traffic for businesses. However, as access to specific business' account records is limited, this is difficult to quantify. Another common contention is that a reduction in crashes will be achieved. The actual impact of highway bypasses in the U.S. has not been assessed.

This study seeks answers to the following questions with the use of a full Bayesian analysis:

1. Do bypasses in Iowa affect crash frequencies and rates on the bypassed highway?

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2. Do bypasses in Iowa introduce a reduction of overall crash frequencies and rates or do they merely shift crashes from the highways through the communities to the bypasses with no significant overall reduction?

The results strongly suggest that the construction of bypasses in Iowa increases traffic safety both on the main road through town and on the sum of the main road and the bypass

2.1 Introduction

Over the past decades, several highway bypasses have been constructed throughout Iowa. Building bypasses affects a variety of elements such as traffic crashes, urban traffic densities via redirection of through traffic, and control of environmental pollution (Elvik and Vaa, 2004).

Highway bypasses around rural communities, in heavily traveled transportation corridors, are perceived as a highly cost-effective method of improving traffic flow along non-interstate transportation routes. However, the bypassing of a central business district raises concerns among merchants and residents over possible adverse impacts on their businesses (Leden et al., 2006).

The common contention that highway bypasses negatively affect the economy of local communities, by reducing pass-by traffic for businesses, has been widely investigated (Andersen et al., 1993; Blackburn and Clay, 1991; Buress, 1996; Hartgen, 1991; Wisconsin DOT, 1998; Srinivasan and Kockelman, 2002). Analyzing the impacts of highway bypasses on the economy of small communities is limited by the lack of community level data for areas with population of less than 2,500.

The application of standard empirical techniques to assess the effect on local economies is limited but can be overcome by using local retail sales tax information. However, the conclusions of such analyses are only supported with site visits, surveys, and

quasi-experimental results (Rogers and Marshment, 2000). Furthermore, surveys of opinions held by residents of the bypassed areas regarding the bypass impact are limited and largely anecdotal and not amenable to statistical analysis (Sabol, 1996).

The main aim of extending and improving road systems is to increase mobility and reduce transport costs. The effects of road design and equipment on accidents varies from one measure to another. However, highway bypasses are reported as measures that reduce the number of accidents. (Elvik and Vaa, 2004)

Road planners perceive the construction of a highway bypass as a solution for heavy traffic load through towns or business districts (Srinivasan and Kockelman, 2002). The expected outcome of redirecting traffic is a decrease of the negative effects of congested traffic, including frequency of accidents. Since crash data in Iowa are available for several years before and after such interventions, with the use of statistical tools it is possible to quantify the effects on traffic safety of constructing highway bypasses.

2.2 Literature Review

Forkenbrock et al. (1990) suggest that highway traffic passing through small rural towns is often slowed by congestion, traffic control devices, and poor geometry. They also suggest that rerouting long distance commuters around small towns improves safety and reduces travel times.

The central business district of towns often assembles a mixture of pedestrians, cyclists and motor vehicles. The accident rate in towns and cities therefore, is usually higher than in rural areas. The high traffic volume in towns causes both environmental problems and an increased risk of accidents (Elvik and Vaa, 2004).

Eagan et al. (2003) affirm that road construction and automobile dependency have been associated with community severity (i.e., the creation of a physical barrier running

through the community that reduces access to local amenities and disrupts social networks), increased disturbance among residents, and social inequalities.

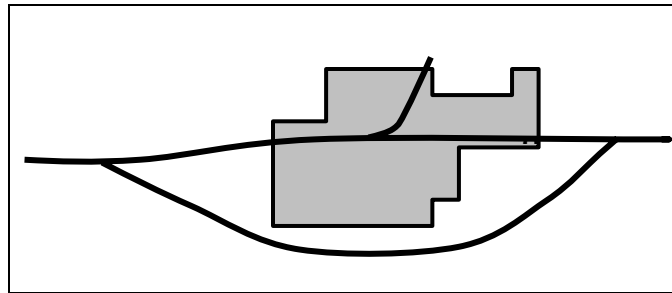


Figure 2. Typical highway bypass around a rural town

For much of the 20th century, transportation planners sought to improve transportation system efficiency by constructing bypasses (Sabol, 1996). A highway bypass is a route that splits off and passes along the fringe of a town or city to circumvent all or most of the portions of the town or city that are developed, and then ties back into the older route from which it has originated, on the other side of town (Figure 2). The new route may run for a longer distance and incorporate more than one town. A highway improvement that redirects through traffic off an existing route to avoid the central business district can be considered a bypass (Sabol, 1996).

When bypasses are built, the long-distance traffic is shifted outside towns and cities. This separation of local and long-distance traffic decreases the traffic volume on the main road making it easier to introduce traffic calming measures (Elvik and Vaa, 2004). Normally bypasses are built without direct access roads. The connection between bypasses and actual roads are made using high standard junctions or interchanges. Bypass roads are designed for a speed limit of at least 50 miles per hour.

Sabol (1996) analyzed over 190 reports on the construction of bypasses in 47 states and 6 provinces in the United States. The following list summarizes the reasons for constructing bypasses cited in such reports:

- Relief of traffic congestion in the bypass community (54 sites)

- Rerouting of traffic (27 sites)
- Enhanced access to tourism resources or “downtown” (8 sites)
- Noise reduction (5 sites)
- Traffic safety improvement (4 sites)

According to Snyder and Associates, Inc. (1999), one of the reasons bypasses are built in Iowa is to concentrate a major portion of annual construction budget on the corridors between major businesses and industrial centers, also known as the commercial industrial network (CIN). In a study on highway bypasses Snyder and Associates (1999) report that:

- 64% of rural highway traffic is on the Interstate and CIN system
- 82% of rural semi-truck traffic is on Interstates or CIN (20% uses CIN)
- 80%+ of Iowans live within 10 miles of the Interstate or CIN
- Interstate and the CIN account for only 32% of the total rural highway miles.

In many states Departments of Transportation (DOT) constantly evaluate the investment of resources on major road construction projects (Comer et al., 2000). Table 3 presents a list of nine safety improvement candidate locations where the construction of a bypass or some other form of relief route has been considered by the Iowa DOT.

Table 3. Safety Improvement candidate locations in Iowa, 2006

Needs	Route	County	Location
New Route	30	Carroll	Carroll Bypass
New Route	71	Clay	Spencer Bypass
New Route	30	Crawford	Denison Bypass
New Route	63	Davis	Bloomfield Bypass to Floris Road
New Route	61	Des Moines	Burlington Bypass
New Route	71/86	Dickinson	From S. of Milford to IA. 9 (Bypass of Lakes Area)
New Route	30	Harrison	Missouri Valley Bypass to E. of Logan
New Route	30	Linn/Cedar	Mount Vernon/Lisbon Bypass
New Route	75	Plymouth	Hinton and Merrill Bypass

Horwood et al. (1965) analyzed the aggregate results of 45 of the 70 bypass studies from the early 1960s in the United States. Such summary of the state of bypass studies has not been duplicated nor supplanted by later research; however, the aggregated variables and results were used to derive general trends of economic impacts for those studies and not for traffic safety purposes (Comer, 2000).

“From a system wide perspective, bypasses around many of [the] rural trade centers can provide substantial benefits of reduced travel times, congestion, and accidents relative to costs” (Iowa DOT, 1992, p. 34).

A meta-analysis of studies in various European countries, addressing the effects of bypasses, concludes that the construction of bypasses, on average, decreases the number of injury accidents by approximately 25% (Elvik and Vaa, 2004). The percentage includes accidents on both the old road network and the bypass. In one of the studies on 20 bypasses in Norway, Elvik et al. (2001) observed a 19% decrease in injury accidents. The decrease was significant when a fixed effects model was used in the analysis, giving a 95% confidence interval from 5% to 30%. However, when a random effects model was employed, the decrease was rejected by significance testing, with a confidence interval between -35% and 0.4%.

According to Elvik and Vaa (2004), the effects of bypasses on the number of accidents can vary from place to place. Several factors have been found to affect accident rates. The first factor is the accident rate on the main road through town where the bypass is built. The higher the number of accidents on the main road through town, the larger the decrease in the number of accidents will be after the bypass is built. The proportion of traffic transferred to the bypass also influences the effect of the bypass. If a larger volume of traffic is shifted to the bypass, then a greater decrease in the number of accidents is to be expected. A greater decrease in the number of accidents can be attained if speed reducing measures are implemented on the main road through town that is replaced by the bypass. Finally, the design of junctions built between the old road and the bypass also influences accident rate.

Elvik and Vaa (2004) also found that, on average, the accident rate on the old main roads increases, possibly because of the increase in speed due to the lower traffic volume that was previously hindering the choice of speed. The speed limit increase on the newly constructed bypass road also raises a concern in accident severity; however, Elvik and Vaa (2004) report a Norwegian study (Amundsen and Hofset 2000) and a Danish study

(Andersson et al., 2002) which assert that accident severity on the old main road did not change after a bypass road is opened to traffic.

The construction of a bypass has both mobility and environmental effects. Bypass roads increase the mobility for both long distance and local traffic. The decrease of traffic will also make it easier for cyclists to cross roads in towns as long as the speed limits do not increase. Environmental effects include (Elvik and Vaa, 2004):

- Reduced traffic noise, vibrations, air pollution and barriers to local travelers due to the reduction in traffic volume.
- Improved opportunity for introducing environmental measures in a town.
- Less vehicle emissions due to less traffic congestion.

Eagan et al. (2003) summarized the results of studies assessing the effects of new roads on injury prevalence rates. Five of these studies addressed out-of-town bypasses with the use of before-and-after comparison of police injury reports. These bypass studies showed a general decline in the incidence of injury accidents after the opening of the new bypasses. Only two of the studies reported a statistically significant decline and both studies were published in the 1960s (Leeming, 1969; Newland and Newby, 1962).

All of the bypass studies mentioned by Eagan et al. (2003) compared the incidence of injury accidents on main roads through town in the before period with the incidence of injury accidents on both old roads through town and new bypasses in the after period. The studies were all performed in European countries, two of which were in Denmark (Andersson et al., 2002; Jørgensen, 1991), one in Norway (Elvik et al., 2001) and two in the UK (Leeming, 1969; Newland and Newby, 1962).

Eagan et al. (2003) conclude that out-of-town bypasses reduce injuries on the main road but that there is not enough evidence of the effects on secondary roads. Of the five bypass studies, only those performed in Denmark included adjacent secondary roads in the analysis of injury accidents, and each study detected statistically insignificant decreases.

Also in their review Eagan et al. (2003) found 12 bypass studies that revealed a general decrease in disturbance and community severance among residents of bypassed towns. The largest decrease in through traffic and thus in disturbance was generally experienced in smaller towns. The review shows that the disturbance level increased in the rural areas surrounding the newly constructed bypasses, thus the traffic noise was merely shifted from one place to another.

The most common methodology used for bypass studies are before-and-after analyses of previously bypassed towns and comparisons of bypassed towns to non-bypassed control towns (Comer et al., 2000). In order to obtain results that can be generalized, the sample biases need to be negligible, the before and after data need to be compared, the models used need to be sophisticated enough to extract meaningful information from the data and to account and control for other relevant factors, and control sites need to be included in the dataset. All cities receiving highway improvements could in fact have certain characteristics that differ from those cities not receiving such improvements (Srinivasan and Kockelman, 2002).

Srinivasan and Kockelman (2002) performed a multivariate regression analysis to model the economic impacts of bypasses on small and medium sized communities. The study involved 23 cities in Texas, bypassed between 1965 and 1990, and 19 non-bypassed cities chosen as control cities. District traffic maps from the Texas Department of Transportation were used to infer the year when traffic first appeared on the bypasses, the year the bypasses opened, and the number of years since opening. The results of the study confirm the findings of the aforementioned review by Eagan et al. (2003) that smaller cities experience a higher decrease in traffic after the construction of a bypass. Another important finding was that relief routes that work better from a traffic standpoint have a greater impact on local per capita sales.

Otto and Anderson (1995) note a problem that emerges when performing before-after studies on effects of bypasses. Since the highway bypass construction period is about two to three years, when comparing the experimental data to that of control groups (i.e., similar cities that have populations, traffic volume, and distance from metropolitan areas comparable to the bypass cities), those years of construction add bias to the statistics used to measure the data. This lag leads to an overestimated sample mean. Such means would not represent an approximation of the population mean.

Pawlovich (2003) affirms that over the past ten years fatal and injury crash rates declined in Iowa. He also claims that it is difficult to isolate the cause of such reductions in crash rates due to the wide variety of safety efforts that have been implemented over time, and that better methods for determining effective strategies need to be developed. Crash rate is defined as the ratio of crashes to Annual Average Daily Traffic (AADT), for the period of interest, normalized to 10^6 vehicles. Because of improvements in statistical computing techniques, Carriquiry and Pawlovich (2004) suggest that hierarchical Bayesian models can be used to analyze data from before and after studies and avoid the disadvantages of the standard regression techniques.

Pawlovich et al. (2006) used a hierarchical modeling approach on a problem similar to the one addressed in this work. They evaluated the effectiveness (in terms of improved safety) of a four-lane to three-lane conversion at various signalized intersections in Iowa. They found that the hierarchical modeling approach provided the flexibility to account for potentially relevant effects in safety beyond the potential effect of the intervention. An approach similar to the one used in Pawlovich et al. (2006), has been adopted in this work.

The paper is organized as follows: data details are described followed by a description of the exploratory analysis and modeling methodology. Analytical results are then presented and followed by interpretation of the results and a summary and conclusions.

2.3 Data

This study evaluated several bypassed communities in the state of Iowa. The crash database was constructed by the Iowa DOT and was utilized to obtain traffic safety information over several years before and several years after the intervention (the construction of the bypass). The bypassed sites were compared to six cities that were scheduled to be bypassed but did not receive the intervention prior to 2005. The treated and untreated sites are distributed over 25 towns and cities in Iowa as presented in Table 4.

Most sites were observed over 24 years between 1982 and 2005, and 3 sites, Site 14, Site 17, and Site 18, were observed for 22 years between 1984 and 2005. Sites 1 to 19 are the bypassed sites and will be referred to as treatment or treated sites. Sites 20 to 25 were the reference sites and will be referred to as non-treatment or untreated sites throughout this work. Since several bypasses incorporated more than one town before tying back to the older route from which they originated, some of the sites include traffic safety information for a stretch of road along multiple towns (i.e. sites 10, 16 and 17).

One concern in observational studies is sampling bias. If the sites chosen to receive a bypass had a worse safety record than those that did not receive a bypass, then the effect of the intervention on safety will be overestimated. Treated and untreated sites in this study were compared in terms of safety and other characteristics during the years preceding the intervention and it was found that the untreated sites appear to be safer on average than the treated sites. Anticipating that the Iowa DOT allocates its resources where the perceived is greatest, this bias is expected.

Because of the potential selection bias it is necessary to interpret the results cautiously. Sites 20-25 have been used as reference sites in this study with the understanding that the estimated positive impacts of the bypass on safety (if any) will likely be overstated. Selection bias is difficult to overcome without the benefit of a designed experiment, where sites are randomly allocated to the intervention and control group. The hope of this study is

to ameliorate somewhat the effects of selection bias by considering crash information over a period of at least 21 years at each site.

Table 4. Information on study sites

Site	Site Name	Road Length	Bypass Length	Road + Bypass (Sum) Length	Completion Year	Treated
1	Sioux City	11.0	9.3	20.7	2001	Yes
2	Alton	5.2	6.8	10.1	2004	Yes
3	Storm Lake	10.9	6.4	17.0	1997	Yes
4	Pleasantville	4.5	4.2	7.4	2003	Yes
5	Prairie City	4.2	5.6	9.4	1998	Yes
6	Monroe	4.3	7.4	10.6	1999	Yes
7	Otley	1.9	1.9	3.1	1999	Yes
8	Pella	7.2	10.8	16.3	1995	Yes
9	Oskaloosa	5.7	7.8	13.4	1998	Yes
10	Swedesburg/Olds	5.1	5.3	9.7	1999	Yes
11	New London	5.7	6.8	11.0	2000	Yes
12	Blue Grass	3.1	5.9	8.4	2001	Yes
13	Marion	3.8	5.2	9.0	1998	Yes
14	Waverly	7.7	10.9	17.1	1999	Yes
15	Charles City	8.2	13.7	21.1	2000	Yes
16	Rudd/Mason City/Nora Springs	27.0	33.8	60.8	1999	Yes
17	Jesup/Raymond/Evansdale	23.8	27.3	47.9	1986	Yes
18	Denver	2.0	4.0	5.8	1996	Yes
19	Marshalltown	6.6	9.6	15.5	1998	Yes
20	Le Mars	5.9	N/A	N/A	N/A	No
21	Seney	2.7	N/A	N/A	N/A	No
22	Sheldon	8.6	N/A	N/A	N/A	No
23	Ashton	3.2	N/A	N/A	N/A	No
24	Eddyville	4.4	N/A	N/A	N/A	No
25	Hospers	4.3	N/A	N/A	N/A	No

The Iowa DOT provided data for each site covering the time period of the study. These data included site length (miles), crash frequency (crashes per month), traffic volume (average annual monthly traffic), vehicle miles traveled (monthly vehicle miles traveled), and monthly crash rate (monthly crash frequency per vehicle miles traveled). These data were provided separately for the through road, the bypass, and the sum of the two.

Using transportation maps from the Iowa DOT, in conjunction with plots of the MADT values for each site, it was possible to infer the opening year of each bypass, and the

number of years since opening for each data year. Figure 3 shows a plot of the MADT for Site 1 on the main road through town. The vertical line indicates a drastic drop in traffic volume that coincided with the year of opening of the bypass around that community as indicated by the transportation maps. Figure 4 presents the MADT through town up to the opening of the bypass, indicated by the vertical line, and the MADT on the bypass after the intervention. A careful examination of the plots reveals a large increase in MADT at sites 5 and 17 after the construction of the bypass. These increases are expected to affect the crash frequencies and the crash rates at the respective sites.

These plots also revealed a constant pattern at each site indicating peaks of traffic during the summer months and lower traffic volumes during the winter months. Such patterns suggested the need of seasonal effects to be accounted for when analyzing crash patterns, at least in Iowa.

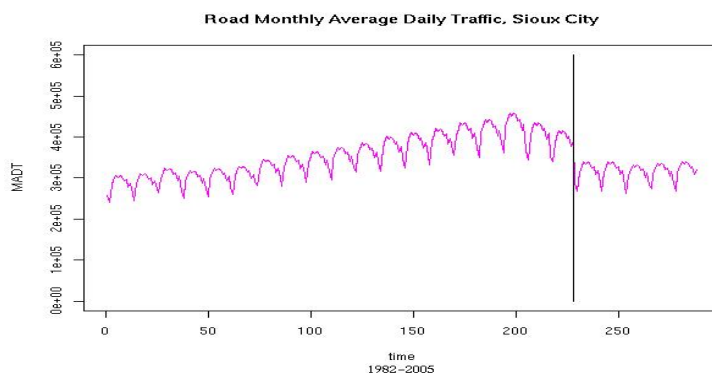


Figure 3. MADT over time on the main road of site 1

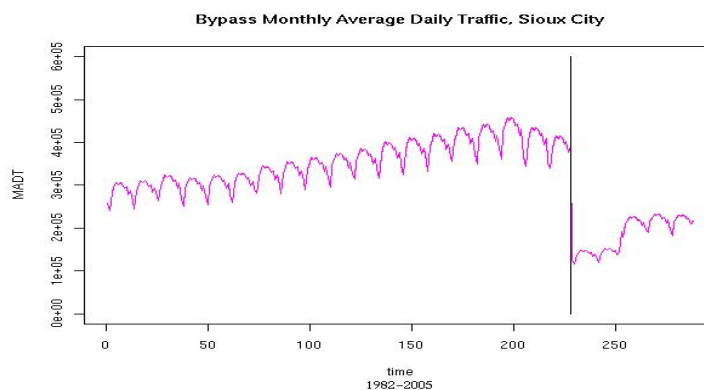


Figure 4. MADT over time on the main road up to the intervention and on the bypass afterwards at site 1

2.4 Methodology

2.4.1 Exploratory Data Analysis

A literature review failed to reveal substantial documentation to answer the following questions:

1. Do bypasses affect accident frequencies and/or rates on the bypassed communities?
2. Do bypasses reduce overall accident frequency and/or rates or do they merely shift the accidents from the highway through the community to the bypass with no significant overall reduction in frequencies and/or rates?

This study employs a full Bayesian approach (Gelman et al., 2004) to answer questions 1 and 2 above. An initial exploratory analysis was performed in order to determine the form of the regression model.

Figures 5, 6, and 7 present the number of crashes per month and per mile (i.e. monthly crash frequency per mile) on the road, the main road and then the bypass after the intervention, and the sum of the road and the bypass (sum) respectively at Site 1. The vertical line in the plot marks the time at which the bypass was completed. The solid line in the graph is a smooth estimate of the number of crashes over time. The smooth curve was obtained by fitting a non-parametric local polynomial regression with optimal bandwidth (Simonoff, 1996).

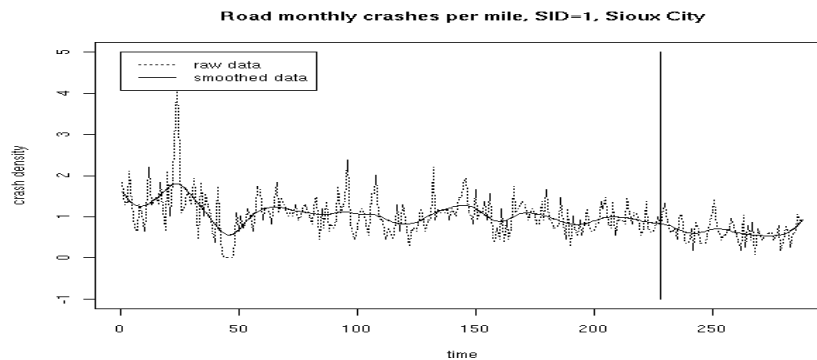


Figure 5. Observed monthly crashes per mile on the main road at site 1

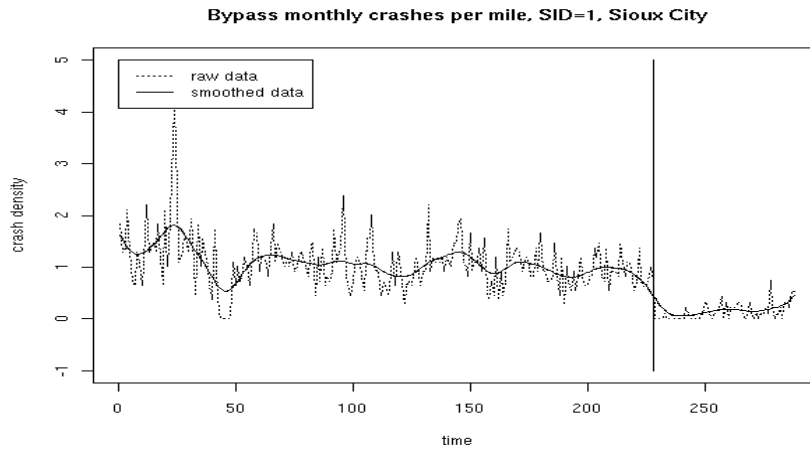


Figure 6. Observed monthly crashes per mile on the main road and then the bypass at site 1

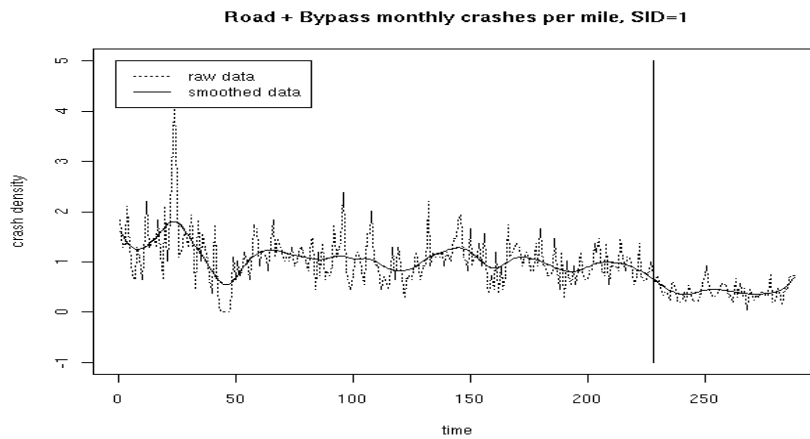


Figure 7. Observed monthly crashes per mile on the sum at site 1

These plots also reveal the distinct impact of seasonal effects on the number of crashes. It is necessary to account for seasonality in the model for number of crashes.

Figure 8 is a representation of the smooth curves obtained from the crash rates on the road through town (before), the bypass (after) and the sum of the road and bypass at Site 1. The number of crashes per mile decreases after the intervention, both on the road through town and on the sum of the road and the bypass, even though the traffic volume at most sites increased over time.

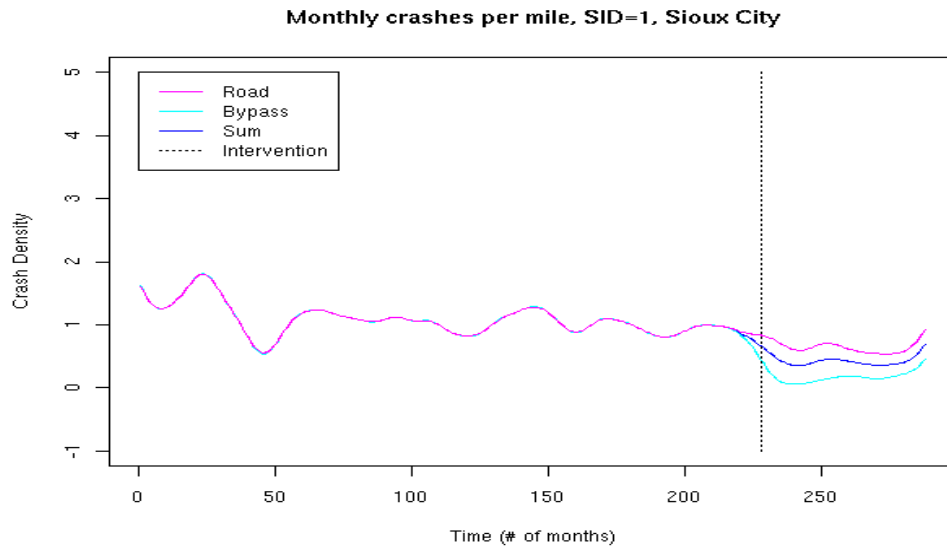


Figure 8. Smooth curves of all crash rates at site 1

Distances along the old and new road were obtained with the use of the Geographic Information System software ArcView GIS 3.2 (Environmental Systems Research Institute, Inc., Redland, CA). The distances were measured from the point where the bypass branches off the old road to the point where it rejoins the old route. When calculating the distances on the sum, the portion of road at the junction of the old and new road has been taken into account in order to avoid double counting of the same stretch of road.

Based on the exploratory analysis, and the random nature of crash events, a Poisson regression model with a log-link function to associate the Poisson mean to a set of covariates was found to be appropriate. The Poisson-log normal model is essentially equivalent to a marginal negative binomial model on crash frequency. Thus, the overdispersion that is typically observed in the distribution of crashes is accounted for in the model. A set of trigonometric functions was included in the model to account for the seasonal effects on crashes.

The number of crashes per year per mile observed at each site has been calculated for the years preceding the bypass construction and following the bypass construction on sites 1-19 on the main road through town. Table 5 contains such crash frequencies as well as their

difference and observed percent reduction. The same values were computed and compared on the sum of the crash frequencies of the road through town after the intervention, and the bypass, and are also contained in Table 5.

Table 5. Observed average crashes per year per mile before and after the bypass construction

Site	Crash Frequency on Road Before Intervention	Crash Frequency on Road After Intervention	Difference Road After-Road Before Intervention	% Reduction Road After vs. Road Before Intervention	Crash Freq. on Sum (Road After Intervention + Bypass)	Difference Sum-Road Before Intervention	% Reduction Sum vs. Road Before Intervention
1	12.8	7.7	-5.1	40.1	4.9	-7.9	61.5
2	1.8	1.2	-0.7	36.9	0.6	-1.2	67.6
3	9.6	4.6	-5.0	52.0	3.3	-6.3	65.8
4	2.5	2.1	-0.4	17.9	1.7	-0.8	31.4
5	3.0	1.5	-1.5	48.6	1.0	-2.0	67.6
6	2.8	0.9	-1.9	66.7	0.6	-2.2	77.7
7	1.5	1.6	0.1	-7.2	1.6	0.1	-4.0
8	10.7	6.1	-4.7	43.4	3.6	-7.2	66.9
9	16.4	15.1	-1.3	7.7	7.1	-9.4	57.0
10	1.5	0.9	-0.6	38.4	1.0	-0.5	33.7
11	2.9	2.9	0.0	0.8	2.2	-0.7	25.6
12	6.4	2.2	-4.2	65.9	1.5	-4.9	75.9
13	44.87	44.9	0.03	-0.1	25.0	-19.9	44.3
14	10.1	8.1	-2.0	19.8	4.3	-5.8	57.3
15	6.1	5.2	-0.9	14.7	2.7	-3.5	56.5
16	11.8	10.9	-0.8	7.2	5.5	-6.3	53.6
17	1.7	1.3	-0.4	22.9	1.4	-0.2	14.5
18	6.1	4.1	-2.0	32.6	2.8	-3.2	53.1
19	7.5	4.0	-3.4	46.0	2.8	-4.7	62.7
20	11.2	NA	NA	NA	NA	NA	NA
21	1.1	NA	NA	NA	NA	NA	NA
22	3.8	NA	NA	NA	NA	NA	NA
23	1.5	NA	NA	NA	NA	NA	NA
24	3.6	NA	NA	NA	NA	NA	NA
25	1.4	NA	NA	NA	NA	NA	NA

2.4.2 Poisson Regression Model

A hierarchical Poisson model was fitted to the crash frequencies. In the model the log mean is expressed as a function of time periods, seasonal effects, and a random effect corresponding to each included site.

The model notation is defined as follows:

i denotes site (values: 1 to 25),

t denotes month (values: 1 to 288; for $i=20, 23, 24$ t is from 1 to 264),

y_{it} denotes the number of monthly crashes at site i during time period t ,

v_{it} is the estimated MADT for site i at time period t ,

id_i is a random effect corresponding to site i ,

t_{0i} denotes the time period during which the intervention is completed for treated site i ,

$$X_{1it} = \begin{cases} 1 & \text{if site } i \text{ is treated at some time} \\ 0 & \text{if site } i \text{ is not treated} \end{cases},$$

$$S_{it} = \begin{cases} 1, & \text{if } t \text{ is a winter month (December, January, February)} \\ 2, & \text{if } t \text{ is a spring month (March, April, May)} \\ 3, & \text{if } t \text{ is a summer month (June, July, August)} \\ 4, & \text{if } t \text{ is a fall month (September, October, November)} \end{cases},$$

$$X_{2it} = \cos\left(\frac{2\pi \times S_{it}}{4}\right) \quad (1a)$$

$$X_{3it} = \cos\left(\frac{4\pi \times S_{it}}{4}\right) \quad (1b)$$

$$X_{4it} = \sin\left(\frac{2\pi \times S_{it}}{4}\right) \quad (1c)$$

The variables 1a, 1b, and 1c will be further explained in section 2.4.3. The number of monthly crashes at site y_{it} is modeled a Poisson random variable with mean $\lambda_{it}v_{it}$.

$$y_{it} \sim Poi(\lambda_{it}v_{it}). \quad (2)$$

The log crash rate $\log(\lambda_{it})$ is modeled as a piecewise linear function of the covariates defined above. The model for the untreated roads is:

$$\log(\lambda_{it}) = \beta_1 + \beta_3 t + \beta_6 X_{2it} + \beta_7 X_{3it} + \beta_8 X_{4it} + id_i. \quad (3)$$

The model for the intervention road and the sum of the road and the bypass is:

$$\log(\lambda_{it}) = \beta_1 + \beta_2 X_{1it} + \beta_3 t + \beta_4 X_{1it} t + \beta_5 X_{1it}(t-t_{0i})I_{(t>t_{0i})} + \beta_6 X_{2it} + \beta_7 X_{3it} + \beta_8 X_{4it} + id_i, \quad (4)$$

where

$$id \sim N(0, (\tau_{bw}^2)^{-1}), I_{(t > t_{0i})} = \begin{cases} 1, & \text{if } (t > t_{0i}) \\ 0, & \text{if } (t \leq t_{0i}) \end{cases} \quad (5)$$

From equation 5 τ_{bw}^2 is the between site-precision and is defined as the inverse of the between site variance in the monthly number of crashes.

Prior distributions for all parameters of the model were chosen. All the priors are semi-conjugate and proper, but non-informative. This type of priors will guarantee that the joint posterior distribution will be integrable (Li and Carriquiry, 2005). Here,

$$\beta_j \sim N(0, 0.001), \text{ for } j \text{ from } 1 \text{ to } 8, \text{ and } \tau_{bw}^2 \sim \text{Gamma}(0.01, 0.01). \quad (6)$$

2.4.3 Interpretation of the Model Parameters

For the road through town and the sum of the bypass and road segments of the treatment sites, the log crash rate when $t \leq t_{0i}$ is given by:

$$\log(\lambda_{it}) = (\beta_1 + \beta_2) + (\beta_3 + \beta_4)t + \beta_6 X_{2it} + \beta_7 X_{3it} + \beta_8 X_{4it} + id_i. \quad (7)$$

After the intervention, when $t > t_{0i}$:

$$\log(\lambda_{it}) = (\beta_1 + \beta_2) + (\beta_3 + \beta_4)t + \beta_5(t - t_{0i}) + \beta_6 X_{2it} + \beta_7 X_{3it} + \beta_8 X_{4it} + id_i. \quad (8)$$

This expression can be written as:

$$\log(\lambda_{it}) = (\beta_1 + \beta_2 - \beta_5 t_{0i}) + (\beta_3 + \beta_4 + \beta_5)t + \beta_6 X_{2it} + \beta_7 X_{3it} + \beta_8 X_{4it} + id_i. \quad (9)$$

For the non-treatment sites the log crash rate is given by:

$$\log(\lambda_{it}) = \beta_1 + \beta_3 t + \beta_6 X_{2it} + \beta_7 X_{3it} + \beta_8 X_{4it} + id_i. \quad (10)$$

Should there be no difference in the log crash rate between untreated sites and treated sites before the intervention is complete, treatments and non-treatment sites would have the same intercept and the same regression coefficient for log crash rate on time (Pawlovich et al., 2006), thus it would be expected that $\beta_2 = \beta_4 = 0$.

Should the intervention be effective, then the slope of the log crash rate on time would be more negative in treated sites after time t_0 than in untreated sites. Therefore, it is

expected that $\beta_3 > \beta_3 + \beta_4 + \beta_5$. Figure 9 provides a graphical representation of the expected slopes on treated and untreated sites, on a logarithmic scale.

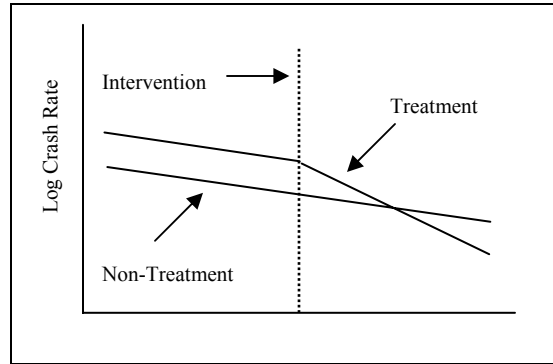


Figure 9. Expected slopes

If, as shown in Figure 9, the slope of the log crash rate on time of the treatment site after the intervention is sharper than the slope of the untreated sites, the coefficient β_5 , which reflects such difference in slopes, is expected to be negative.

The seasonal effects associated with the log crash rate are accounted for by the variables X_{2it} , X_{3it} , and X_{4it} , as shown in equations 1a, 1b, and 1c. These variables depend on three trigonometric functions with different periods and are therefore not easily interpretable. Table 6 explains the functions of the regression coefficients that represent seasons.

Table 6. Model coefficients associated with seasonal effects

Season	S_{it}	X_{2it}	X_{3it}	X_{4it}	$\beta_6 X_{2it} + \beta_7 X_{3it} + \beta_8 X_{4it}$
Winter	1	0	-1	1	$-\beta_7 + \beta_8$
Spring	2	-1	1	0	$-\beta_6 + \beta_7$
Summer	3	0	1	-1	$\beta_7 - \beta_8$
Fall	4	1	1	0	$\beta_6 + \beta_7$

Since in winter months the weather affects the road conditions and therefore the number of accidents, it is expected that $(-\beta_7 + \beta_8) > 0$ during the winter season, and $(\beta_7 - \beta_8) < 0$ during the summer season.

2.5 Results and Interpretation

2.5.1 Parameter Estimates

The posterior distribution of the parameters in the model presented in equation 4 was estimated using Markov chain Monte Carlo methods and the computer software WinBUGS (www.mrc-bsu.cam.ac.uk/bugs; Cowles, 2004). For each parameter two parallel chains over 2,000,000 iterations were obtained, thinning every 100th draw for inference. Table 7 summarizes the posterior distributions that were estimated here.

The results contained in Table 7 reveal that the 95% posterior credible sets for β_2 and β_4 for the road model cover zero thus it is safe to conclude that β_2 and β_4 are not significantly different from zero. For the model of the sum of crashes on the bypass and the old road the 95% posterior credible set for β_2 covers zero while the one for β_4 is slightly negative.

Table 7. Posterior Distributions

ROAD				
Node	mean	sd	2.50%	97.50%
Intercept β_1	-6.205	0.2953	-6.791	-5.644
Treatment β_2	0.4905	0.343	-0.1861	1.17
Non-treatment β_3	-0.001013	2.24E-04	-0.001455	-5.82E-04
Treatment vs. time β_4	1.55E-04	2.46E-04	-3.23E-04	6.50E-04
Before vs. after β_5	-0.001673	3.12E-04	-0.002286	-0.001074
Season β_6	0.08403	0.008313	0.06815	0.1005
Season β_7	-0.041	0.005901	-0.05245	-0.02939
Season β_8	0.07966	0.007982	0.06435	0.09529
sigma.bw	0.6822	0.1087	0.5092	0.9331
tau.bw	2.306	0.6996	1.149	3.859
SUM				
Node	mean	sd	2.50%	97.50%
Intercept β_1	-6.205	0.2777	-6.701	-5.635
Treatment β_2	0.5472	0.3295	-0.1258	1.169
Non-treatment β_3	-0.00102	2.20E-04	-0.001444	-5.89E-04
Treatment vs. time β_4	-0.001392	2.43E-04	-0.001862	-9.19E-04
Before vs. after β_5	-0.002693	2.80E-04	-0.00325	-0.00213
Season β_6	0.1034	0.008015	0.08751	0.1191
Season β_7	-0.03472	0.005713	-0.04604	-0.02359
Season β_8	0.09187	0.007643	0.07716	0.1071
sigma.bw	0.6799	0.1063	0.5105	0.9235
tau.bw	2.315	0.6887	1.174	3.838

By looking at the coefficient β_5 it is possible to determine that the slope of the log crash rate on time is indeed more negative in treated than in untreated sites after the intervention time. In fact, the upper bound of the 95% posterior credible set for β_5 on both the road and the sum model is negative, indicating that the coefficient β_5 is less than zero. With high probability the bypass construction in Iowa roads increases traffic safety.

2.5.2 Effect of Bypass Construction

Tables 8 and 9 present the posterior distribution of the slope of the log crash rate by month for non-treatment sites, for treatment sites after the time of construction of the bypass, as well as the distribution of the difference in slope between treated and untreated sites. The credible sets of the posterior distribution of the coefficient of time in the untreated group, the treated group, and the difference between the two groups, are all below zero. This suggests that the expected number of crashes at all sites decreases over time.

Table 8. Posterior distributions of the slope of log crash rate over time on the main road

Coef. for Time	Mean	2.5%	Median	97.5%
Untreated (U) (β_3)	-0.001013	-0.001455	-0.001013	-0.0005817
Treated (Tr) ($\beta_3 + \beta_4 + \beta_5$)	-0.00253	-0.00406	-0.00252	-0.00101
Difference (Tr-U) ($\beta_4 + \beta_5$)	-0.00152	-0.00261	-0.00151	-0.000424

Table 9. Posterior distributions of the slope of log crash rate on the sum

Coef. for Time	Mean	2.5%	Median	97.5%
Untreated (U) (β_3)	-0.00102	-0.001444	-0.00102	-0.0005891
Treated (Tr) ($\beta_3 + \beta_4 + \beta_5$)	-0.005105	-0.006556	-0.00511	-0.0036379
Difference (Tr-U) ($\beta_4 + \beta_5$)	-0.004085	-0.005112	-0.00409	-0.0030488

It can also be noticed that for both the road and the sum of the road and the bypass the difference between treated and untreated sites is negative. This suggests that with high probability the slope of the fitted line for log crash rate versus time for treated sites is steeper than the slope at untreated sites. These results validate the predictions described in Figure 9,

the slope of the second segment in the piecewise linear regression of log crash rate by time is more negative at sites in which a bypass was implemented than at the sites where it was not.

Thus, while safety appears to increase over time at all sites, it does so more rapidly at sites where a bypass was constructed.

2.5.3 Effect of Seasons

Tables 10 and 11 confirm that the results for the seasonal effects on log crashes are consistent with the previous expectations. It was demonstrated that $\beta_6 > 0$, $\beta_7 < 0$, and $\beta_8 > 0$. The calculated posterior distribution of the linear combinations of the seasonal regression coefficients ($-\beta_6 + \beta_7$), which corresponds to spring, was found to be negative, and $(\beta_6 + \beta_7)$, which corresponds to fall, was found to be positive. These results confirm that the crash rate in spring resembles the summer crash rate while the fall rate resembles more the winter rate.

To better understand the effect of season, the following tables present the 95% credible sets for the appropriate linear combinations of regression coefficients.

Table 10. Posterior credible sets for linear combinations of regression coefficients representing the effects of season on the main road

Season	Mean	2.5%	Median	97.5%
Winter ($-\beta_7 + \beta_8$)	0.12066	0.1168	0.12052	0.12468
Spring ($-\beta_6 + \beta_7$)	-0.12503	-0.1206	-0.125	-0.12989
Summer ($\beta_7 - \beta_8$)	-0.12066	-0.1168	-0.12052	-0.12468
Fall ($\beta_6 + \beta_7$)	0.04303	0.0157	0.0431	0.07111

Table 11. Posterior credible sets for linear combinations of regression coefficients representing the effects of season on the sum

Season	Mean	2.5%	Median	97.5%
Winter ($-\beta_7 + \beta_8$)	0.12659	0.1232	0.12648	0.13069
Spring ($-\beta_6 + \beta_7$)	-0.13812	-0.13355	-0.13795	-0.14269
Summer ($\beta_7 - \beta_8$)	-0.12659	-0.1232	-0.12648	-0.13069
Fall ($\beta_6 + \beta_7$)	0.06868	0.04147	0.06865	0.09551

The credible sets for parameters representing winter and fall are above zero, while the summer and spring parameters are below zero. The log crash rate tends to be higher in winter and fall and lower in spring and summer.

2.6 Expected Crash Frequencies and Crash Rates

In order to quantify the difference in crash frequency during the ‘before’ and ‘after’ periods the posterior distribution of the annual frequency per mile as well as the posterior distribution of the percent reduction in crash frequency was computed for each site. The posterior distributions were estimated for each of the sites during the year preceding the construction of the bypass and for the years following the bypass construction at sites 1 through 19 (the treatment sites).

The average expected crash frequency per year and mile for each site is computed as follows:

$$\frac{\sum_{j=StartYear}^{EndYear} \mu_{ij} / L_{ij}}{n_i}, \quad (10)$$

where

L_{ij} is the length of the i th site at year j ,

n_i is the number of years for which traffic safety information is available,

μ_{ij} is the expected number of crashes per mile in the j th year for the i th site and is obtained from the Poisson model fitted earlier.

2.6.1 Expected Crashes on the Main Road

The first objective of this study was to assess whether the bypass construction at the 19 treated sites was effective in increasing safety on the main road through the bypassed community. Table 12 presents the posterior means and credible sets for the average expected crash frequencies taken before and after the construction of the bypasses, the difference in expected crash frequency (before-after) and the percent reduction in the expected annual crash frequency per mile at each bypassed site between the “after” and “before” periods, on the main road through town. Table 13 shows the expected annual crash frequency per mile per site for each untreated site.

Table 12. Expected annual crash frequency per mile during before and after periods on the main road

Site	Before	After	Difference in Crash Frequency	Percent Reduction in Crash Frequency
	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)		
1	12.3 (11.9,12.7)	6.4 (5.6,7.4)	-5.9 (-6.81,-5.02)	48 (40.92,54.75)
2	1.9 (1.6,2.1)	0.6 (0.5,0.7)	-1.3 (-1.47,-1.11)	70 (64.98,73.79)
3	8.1 (7.8,8.4)	5.5 (4.8,6.1)	-2.7 (-3.29,-1.98)	33 (24.60,40.37)
4	2.6 (2.3,2.9)	0.8 (0.6,1.01)	-1.8 (-2.04,-1.55)	68 (63.41,72.41)
5	2.9 (2.6,3.2)	1.3 (1.08,1.5)	-1.6 (-1.83,-1.38)	56 (49.98,60.79)
6	2.7 (2.3,3.1)	0.9 (0.7,1.07)	-1.8 (-2.12,-1.60)	68 (63.36,71.57)
7	1.9 (1.4,2.3)	0.7 (0.5,0.8)	-1.2 (-1.46,-0.92)	63 (58.28,67.62)
8	9.2 (8.7,9.6)	6.1 (5.4,6.7)	-3 (-3.72,-2.28)	33 (25.57,40.16)
9	17.6 (16.8,18.4)	9.3 (8.2,10.4)	-8.3 (-9.54,-7.05)	47 (40.76,53.62)
10	1.7 (1.4,1.9)	0.2 (0.1,0.3)	-1.5 (-1.73,-1.26)	87 (85.75,88.95)
11	3.4 (3.1,3.8)	1 (0.8,1.2)	-2.4 (-2.72,-2.13)	70 (65.92,73.75)
12	6.5 (5.8,7.03)	1.5 (1.2,1.7)	-5 (-5.59,-4.49)	77 (74.21,80.30)
13	48.4 (46.9,50.2)	28.9 (25.4,32.6)	-19.5 (-23.01,-15.90)	40 (33.05,47.05)
14	9.1 (8.6,9.5)	7.5 (6.6,8.4)	-1.6 (-2.45,-0.77)	18 (8.38,27.01)
15	6.6 (6.2,6.9)	2.7 (2.3,3.1)	-3.9 (-4.36,-3.42)	59 (53.95,64.47)
16	12 (11.8,12.3)	7 (6.1,7.8)	-5.1 (-5.98,-4.14)	42 (34.43,49.39)
17	1.4 (1.2,1.5)	1.3 (1.1,1.4)	0.1 (-0.20,-0.02)	8 (1.72,13.80)
18	5.0 (4.3,5.7)	4.2 (3.5,4.8)	-0.8 (-1.26,-0.40)	17 (8.16,25.11)
19	7.4 (6.9,7.8)	3.4 (2.9,3.8)	-4 (-4.42,-3.50)	54 (48.59,59.21)

The average of the expected annual crash frequency per mile of the non-treatment sites has been obtained from the values in Table 13. Such average was then subtracted from the annual crash frequency per mile on the main road for each of the 19 bypassed sites before the intervention and subsequently from the annual crash frequency per mile on the main road after the intervention. The results of such differences and the percent reductions are summarized in Table 14.

Table 13. Expected annual crash frequency per mile per site for non-treatment sites

SITE	Mean	2.5% quan	97.5% quan
20	11.17	10.74	11.62
21	1.11	0.87	1.39
22	3.75	3.49	4.02
23	1.48	1.23	1.74
24	3.57	3.21	3.92
25	1.46	1.22	1.75

Table 14. Comparison of annual crash frequency between treated and average untreated sites on main road

Site	Before vs. Average Non-Treatment		After vs. Average Non-Treatment	
	Difference	% Reduction	Difference	% Reduction
	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)
1	8.6 (8.17,8.96)	-229 (-246.97,-212.96)	2.7 (1.81,3.61)	-71 (-97.49,-48.06)
2	-1.9 (-2.16,-1.59)	50 (43.12,56.95)	-3.2 (-3.35,-3.00)	85 (81.35,87.76)
3	4.4 (4.02,4.75)	-116 (-129.73,-105.07)	1.7 (1.05,2.39)	-46 (-65.11,-28.12)
4	-1.1 (-1.45,-0.74)	30 (20.25,38.48)	-2.9 (-3.10,-2.68)	78 (73.01,81.78)
5	-0.9 (-1.22,-0.44)	23 (12.00,31.91)	-2.5 (-2.70,-2.20)	66 (59.03,71.30)
6	-1 (-1.42,-0.63)	27 (16.83,37.81)	-2.9 (-3.10,-2.65)	76 (71.51,81.03)
7	-1.9 (-2.32,-1.41)	50 (38.21,61.38)	-3.1 (-3.27,-2.81)	82 (76.73,86.07)
8	5.4 (4.96,5.87)	-144 (-159.15,-129.24)	2.4 (1.68,3.03)	-63 (-81.70,-45.40)
9	13.8 (12.99,14.64)	-368 (-396.92,-341.77)	5.5 (4.45,6.80)	-146 (-182.70,-117.69)
10	-2 (-2.34,-1.73)	54 (47.27,61.51)	-3.5 (-3.67,-3.39)	94 (92.97,95.42)
11	0.3 (-0.73,0.07)	9 (-1.89,19.28)	-2.7 (-2.93,-2.48)	73 (67.52,76.95)
12	2.7 (2.13,3.29)	-72 (-88.37,-55.95)	-2.3 (-2.53,-1.98)	61 (54.28,67.36)
13	44.6 (43.15,46.38)	-1189 (-1265.3,-1119.61)	25.2 (21.75,28.93)	-671 (-778.51,-575.17)
14	5.4 (4.89,5.79)	-143 (-158.39,-127.89)	3.7 (2.90,4.72)	-99 (-127.49,-77.45)
15	2.8 (2.42,3.24)	-75 (-88.49,-62.89)	-1.1 (-1.41,0.59)	29 (16.30,37.43)
16	8.3 (7.97,8.54)	-220 (-235.08,-208.20)	3.2 (2.39,4.20)	-86 (-115.54,-63.51)
17	-2.4 (-2.58,-2.18)	63 (59.30,67.02)	-2.5 (-2.67,-2.29)	66 (63.09,69.17)
18	1.2 (0.47,1.90)	-33 (-50.96,-12.11)	0.4 (-0.31,1.19)	-11 (-32.47,8.33)
19	3.6 (3.20,4.12)	-97 (-112.10,-83.83)	0.4 (-0.80,0.06)	10 (-1.68,21.03)

The posterior distributions of expected annual crash frequencies per mile for the untreated sites and for all treated sites over the years preceding and following the bypass construction are presented in Table 15. The three posterior distributions are shown in Figure 10. This Figure shows the effect of the bypass construction on the main road through town.

Table 15. Posterior means and credible sets of the expected annual crash frequency per mile on the main road

Site	Mean	2.50% quantile	97.50% quantile
Non-Treatment	3.76	3.61	3.89
Treatment Before	8.46	8.32	8.61
Treatment After	4.69	4.16	5.28

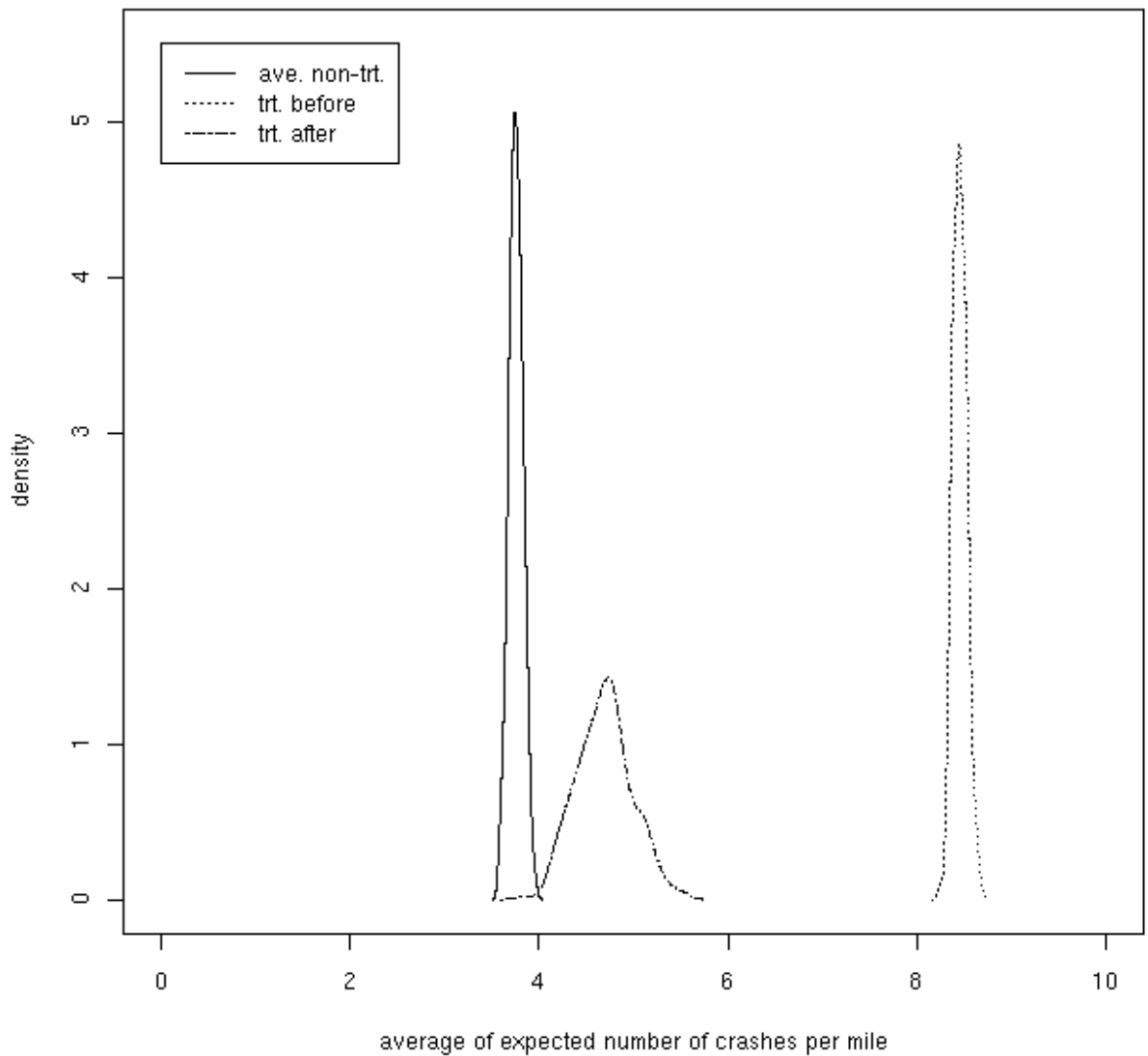


Figure 10. Posterior distributions of the expected annual crash frequencies per mile on the main road

Figure 10 reveals that there is a pronounced reduction in expected annual crash frequency per mile in treated sites after the bypass construction. The posterior distributions are narrow, indicating that the posterior mean is a reliable summary of the distribution of likely values of expected crash frequencies (Pawlovich et al., 2006).

As noticed in Figures 3 and 4, and from the MADT plots included in appendix A, the traffic volume varies across sites both during the ‘before’ and ‘after’ periods. Traffic volumes also appear to be rising over time at all sites; therefore, the posterior distributions of the

expected annual crash frequencies on the main road per site per mile were recomputed normalizing each site to a 10^6 AADT, obtaining the expected annual crash rate per mile. Such crash rates are summarized in Table 16, while Table 17 shows the expected annual crash rates per mile per site for each non-treatment site.

Table 16. Expected annual crash rate per mile during before and after periods on the main road

Site	Before	After	Difference in Crash Rate	Percent Reduction in Crash Rate
	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)		
1	2.8 (2.70,2.87)	1.7 (1.47,1.94)	-1.1 (-1.32,-0.86)	39 (31.15,47.11)
2	1.5 (1.31,1.73)	0.9 (0.71,1.10)	-0.6 (-0.79,-0.48)	42 (33.00,49.65)
3	6.4 (6.18,6.69)	4.1 (3.62,4.61)	-2.3 (- 2.78,-1.80)	36 (28.27,43.20)
4	1.6 (1.36,1.76)	0.9 (0.74,1.10)	-0.6 (-0.77,-0.47)	41 (32.41,48.84)
5	3 (2.69,3.41)	1.9 (1.61,2.28)	-1.1 (-1.39,-0.85)	37 (29.05,44.25)
6	1.5 (1.31,1.74)	0.9 (0.76,1.15)	-0.6 (-0.71,-0.43)	38 (29.78,45.24)
7	1 (0.77,1.23)	0.6 (0.48,0.78)	-0.4 (-0.49,-0.26)	38 (29.78,45.24)
8	4.8 (4.52,4.97)	3.1 (2.78,3.46)	-1.6 (-1.97,-1.23)	34 (26.55,40.92)
9	7.1 (6.80,7.46)	4.5 (3.99,5.08)	-2.6 (-3.18,-2.04)	37 (29.05,44.25)
10	0.9 (0.78,1.06)	0.6 (0.46,0.70)	-0.3 (-0.43,-0.26)	38 (29.78,45.24)
11	1.4 (1.30,1.61)	0.9 (0.75,1.04)	-0.6 (-0.70,-0.43)	39 (30.48,46.20)
12	2.7 (2.46,2.96)	1.6 (1.41,1.92)	-1.1 (-1.33,-0.82)	39 (31.15,47.11)
13	8.8 (8.49,9.08)	5.6 (4.93,6.34)	-3.1 (-3.83,-2.47)	36 (28.27,43.20)
14	4.8 (4.54,5.01)	3.2 (2.81,3.55)	-1.6 (-2.00,-1.27)	34 (26.51,41.24)
15	3.7 (3.44,3.85)	2.3 (1.96,2.62)	-1.4 (-1.72,-1.08)	39 (30.48,46.20)
16	3.8 (3.76,3.92)	2.4 (2.07,2.66)	-1.5 (-1.78,-1.17)	39 (30.48,46.20)
17	1.3 (1.23,1.46)	1.4 (1.33,1.54)	0.1 (0.01,0.18)	-7 (-13.80,-0.74)
18	6.2 (5.32,7.07)	4.3 (3.58,4.98)	-1.9 (-2.42,-1.36)	31 (23.78,37.63)
19	2.9 (2.73,3.06)	1.9 (1.61,2.08)	-1 (-1.26,-0.81)	36 (28.27,43.20)

Table 17. Expected annual crash rate per mile per site for non-treatment sites

Site	Mean	2.5% quantile	97.5% quantile
20	3.77	3.62	3.94
21	0.91	0.71	1.14
22	2.63	2.45	2.82
23	1.36	1.13	1.60
24	2.16	1.95	2.37
25	1.06	0.89	1.28

Table 18 summarizes the average of the expected annual crash rate per mile of the non-treatment sites subtracted from the annual crash rate per mile on the main road for each of the 19 bypassed sites before the intervention and subsequently after the intervention.

Table 19 shows the computed posterior distribution of expected annual crash rates per mile for all treated and untreated sites over the years preceding and following the bypass construction. The three posterior distributions are shown in Figure 11.

Table 18. Before and after comparison of annual crash rate per mile on the main road

Site	Before vs. Average Non-Treatment		After vs. Average Non-Treatment	
	Difference	% Reduction	Difference	% Reduction
	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)
1	0.8 (0.68,0.92)	-40 (-48.10,-32.87)	-2.1 (-2.32,-1.75)	55 (48.10,61.09)
2	-0.5 (-0.67,-0.24)	23 (12.79,34.25)	-2.9 (-3.07,-2.64)	76 (70.88,80.89)
3	4.4 (4.19,4.74)	-224 (-245.58,-204.85)	0.4 (-0.13,0.91)	-10 (-24.47,3.48)
4	-0.4 (-0.63,-0.20)	21 (10.04,31.73)	-2.8 (-3.03,-2.60)	75 (70.57,80.13)
5	1 (0.70,1.48)	-53 (-76.23,-36.08)	-1.8 (-2.16,-1.46)	49 (39.04,57.29)
6	-0.5 (-0.68,-0.25)	23 (12.81,33.88)	-2.8 (-3.05,-2.59)	75 (69.55,79.72)
7	-1 (-1.23,-0.72)	49 (36.50,60.95)	-3.1 (-3.32,-2.89)	83 (78.85,87.33)
8	2.8 (2.52,3.03)	-140 (-156.89,-123.52)	-0.6 (-0.94,-0.25)	16 (6.77,25.47)
9	5.1 (4.79,5.46)	-259 (-281.39,-233.50)	0.7 (0.23,1.39)	-20 (-37.23,-5.82)
10	-1.1 (-1.22,-0.90)	53 (46.35,60.84)	-3.2 (-3.35,-2.99)	85 (81.40,87.83)
11	-0.5 (-0.70,-0.36)	27 (18.20,34.74)	-2.9 (-3.06,-2.63)	76 (71.87,80.00)
12	0.7 (0.48,0.99)	-37 (-50.94,-23.86)	-2.1 (-2.37,-1.77)	56 (48.49,63.23)
13	6.8 (6.47,7.09)	-341 (-368.69,-314.16)	1.9 (1.19,2.64)	-49 (-70.47,-30.88)
14	2.8 (2.55,3.03)	-141 (-158.24,-125.75)	-0.6 (-0.94,-0.14)	16 (4.04,25.06)
15	1.7 (1.45,1.91)	-85 (-99.19,-70.66)	-1.5 (-1.78,-1.08)	40 (29.61,47.39)
16	1.9 (1.73,1.97)	-94 (-103.22,-83.63)	-1.4 (-1.70,-0.99)	37 (27.02,44.63)
17	-0.6 (-0.81,-0.49)	32 (25.50,39.09)	-2.3 (-2.52,-2.12)	62 (58.35,65.29)
18	4.2 (3.32,5.06)	-211 (-254.00,-164.60)	0.5 (-0.21,1.31)	-14 (-35.96,5.69)
19	0.9 (0.72,1.12)	-46 (-58.71,-35.94)	-1.9 (-2.17,-1.63)	51 (44.43,57.00)

Table 19. Posterior means and credible sets of the average of the expected annual crash rate per mile on the main road

	Mean	2.5%	97.5%
Non-Treatment	1.98	1.90	2.08
Treatment before	3.49	3.42	3.57
Treatment after	2.25	2.00	2.52

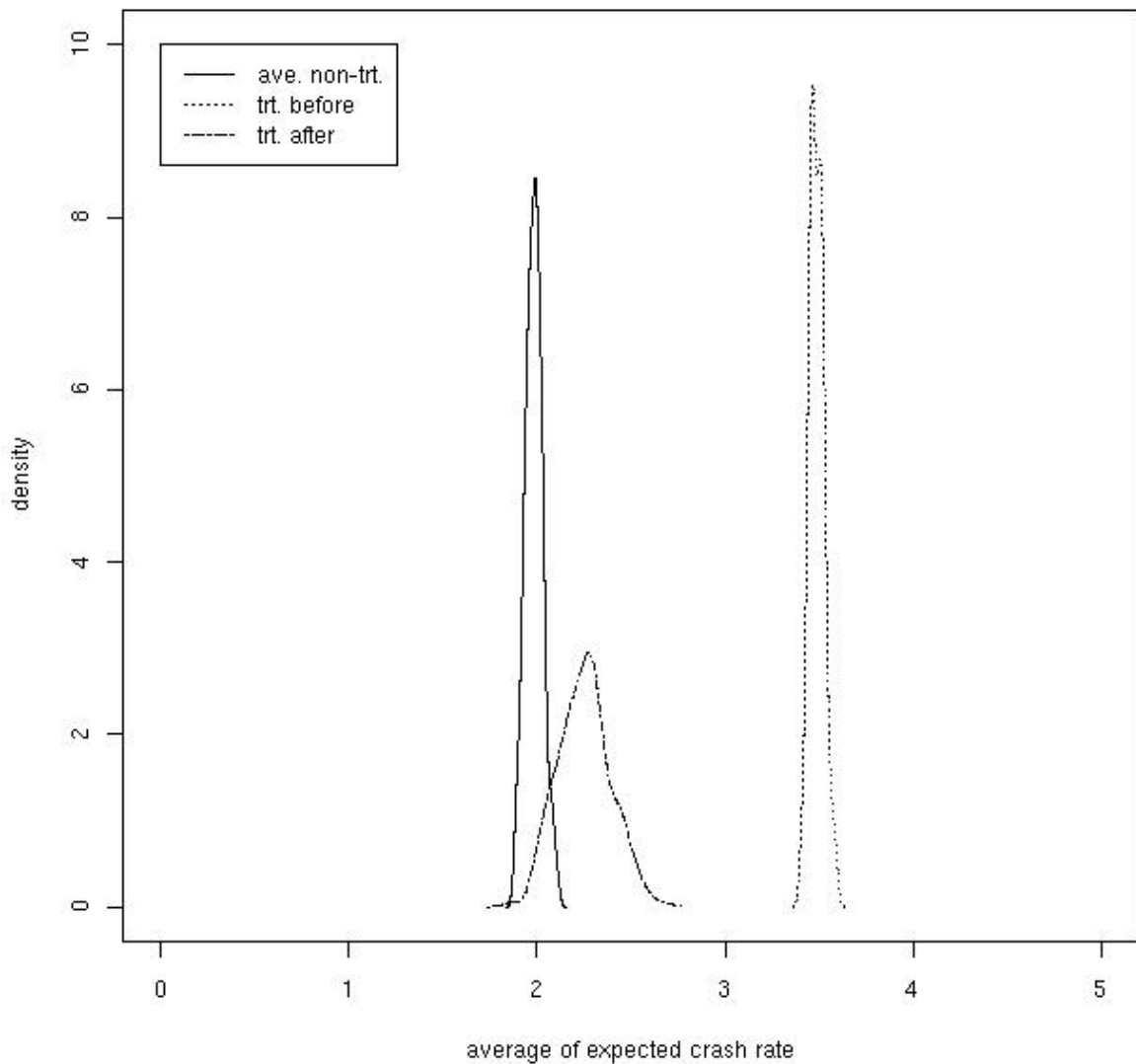


Figure 11. Posterior distributions of the expected annual crash rates per mile on the main road

2.6.2 Overall Expected Crashes (Main Road + Bypass)

The second objective of this study was to assess whether the bypass construction at the 19 sites was effective in increasing overall safety on both the main road through the bypassed community and on the actual bypass. This objective was accomplished by computing the posterior means and credible sets for the average expected crash frequencies on the main road through town taken before the construction of the bypass and the sum of the average expected crash frequencies on the main road through town and the bypass after the

construction of the bypass. Also the difference in expected crash frequency (main road before - sum of road after and bypass) and the percent reduction in the expected annual crash frequency per mile at each bypassed site between the ‘after’ and ‘before’ periods were computed. These results are summarized in Table 20.

The average of the expected annual crash frequency per mile of the non-treatment sites was subtracted from the annual crash frequency per mile on the main road for each of the 19 bypassed sites before the intervention and subsequently from the sum of the annual crash frequency per mile of the main road and the bypass for each of the 19 bypassed sites after the intervention. The results of such differences and the percent reductions are summarized in Table 21.

Table 20. Expected annual crash frequency per mile during before and after periods on the sum

Site	Before (Road)	After (Sum)	Difference in crash rate	Percent Reduction in crash rate
	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)		
1	12.3 (11.94,12.72)	3.2 (2.79,3.67)	-9.1 (-9.65,-8.59)	74 (70.25,77.43)
2	1.8 (1.59,2.09)	0.3 (0.28,0.41)	-1.5 (-1.7,-1.3)	81 (78.24,83.84)
3	8.3 (7.93,8.66)	3.1 (2.69,3.48)	-5.2 (-5.62,-4.79)	63 (58.29,67.26)
4	2.6 (2.30,2.92)	0.7 (0.55,0.81)	-1.9 (-2.19,-1.7)	74 (70.29,77.77)
5	1.8 (1.61,2.09)	1.2 (1.03,1.42)	-0.6 (-0.82,-0.45)	35 (25.68,42.46)
6	2.3 (2.03,2.59)	0.7 (0.55,0.80)	-1.6 (-1.84,-1.43)	71 (66.59,74.3)
7	1.9 (1.53,2.33)	0.7 (0.53,0.87)	-1.2 (-1.49,-0.9)	63 (58.28,67.9)
8	8.8 (8.32,9.17)	3.0 (2.71,3.33)	-5.8 (-6.28,-5.27)	66 (61.42,69.31)
9	16.6 (15.93,17.21)	4.1 (3.65,4.67)	-12.5 (-13.2,-11.71)	75 (71.77,78.12)
10	1.6 (1.37,1.80)	0.5 (0.40,0.55)	-1.1 (-1.3,-0.92)	70 (66.03,73.88)
11	3.4 (3.07,3.72)	0.8 (0.68,0.96)	-2.6 (-2.83,-2.28)	76 (72.49,78.96)
12	5.7 (5.12,6.23)	1.4 (1.22,1.66)	-4.3 (-4.73,-3.79)	75 (71,78.01)
13	44.7 (43.39,46.40)	16.7 (14.89,19.00)	-28.0 (-30.4-25.53)	63 (57.76,66.88)
14	8.5 (8.12,8.98)	3.5 (3.16,4.01)	-5.0 (-5.52,-4.45)	58 (53.16,63.03)
15	5.7 (5.68,6.26)	1.6 (1.37,1.81)	-4.4 (-4.74,-4.14)	74 (70.02,77.1)
16	11.2 (10.95,11.43)	3.2 (2.84,3.71)	-7.9 (-8.4,-7.43)	71 (66.91,74.71)
17	1.1 (1.02,1.17)	1.4 (1.31,1.44)	0.3 (0.2,0.36)	-25 (-33.99,-17.36)
18	4.2 (3.76,4.59)	2.5 (2.16,2.81)	-1.7 (-2.02,-1.38)	41 (34.13,46.62)
19	7.0 (6.64,7.44)	2.2 (1.94,2.48)	-4.8 (-5.25,-4.44)	69 (64.63,72.21)

Table 21. Comparison of annual crash frequency per mile for treated and average untreated on the sum

Site	Before vs. Average Non-Treatment		After vs. Average Non-Treatment	
	Difference	% Reduction	Difference	% Reduction
	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)
1	8.6 (8.16,8.96)	-229 (-245.39,-213.66)	-0.6 (-0.95,-0.09)	15 (2.32,24.88)
2	-1.9 (-2.18,-1.61)	52 (43.59,57.19)	-3.4 (-3.56,-3.25)	91 (88.96,92.48)
3	4.6 (4.15,4.92)	-121 (-134.59,-109.24)	-0.7 (-1.08,-0.28)	18 (7.76,28.39)
4	-1.1 (-1.48,-0.82)	30 (22.03,38.52)	-3.1 (-3.26,-2.89)	82 (78.49,85.48)
5	-1.9 (-2.14,-1.65)	51 (44.34,56.53)	-2.5 (-2.76,-2.31)	68 (62.53,73.06)
6	-1.1 (-1.75,-1.16)	39 (30.77,47.01)	-3.1 (-3.26,-2.91)	82 (78.80,85.11)
7	-1.9 (-2.27,-1.42)	50 (37.77,59.74)	-3.1 (-3.26,-2.86)	82 (76.86,85.85)
8	5.0 (4.60,5.38)	-134 (-146.91,-120.72)	-0.7 (-1.05,-0.39)	20 (10.30,28.09)
9	12.8 (12.22,13.55)	-342 (-365.33,-318.49)	0.4 (-0.07,0.95)	-10 (-25.31,1.96)
10	-2.2 (-2.41,-1.90)	57 (51.63,64.31)	-3.3 (-3.42,-3.12)	87 (85.17,89.38)
11	-0.4 (-0.70,-0.03)	10 (0.68,18.36)	-2.9 (-3.12,-2.75)	78 (74.69,81.91)
12	1.9 (1.36,2.51)	-52 (-68.12,-36.09)	-2.3 (-2.58,-2.04)	62 (55.57,67.25)
13	41.0 (39.63,42.57)	-1091(-1157.9,-1034.6)	13.0 (11.17,15.17)	-346 (-403.4,-293.4)
14	4.8 (4.35,5.28)	-127 (-143.03,-114.62)	0.2 (-0.62,0.24)	5 (-6.26,16.06)
15	2.2 (1.89,2.55)	-59 (-68.95,-49.87)	-2.2 (-2.42,-1.93)	58 (51.31,63.49)
16	7.4 (7.13,7.69)	-197 (-211.38,-185.77)	-0.5 (-0.91,-0.08)	14 (2.12,23.83)
17	-2.7 (-2.82,-2.50)	71 (68.27,73.05)	-2.4 (-2.52,-2.20)	63 (61.03,65.57)
18	0.4 (-0.05,0.86)	-11 (-23.08,1.44)	-1.3 (-1.62,-0.96)	34 (25.62,43.02)
19	3.3 (2.89,3.66)	-87 (-98.57,-76.35)	-1.5 (-1.85,-1.27)	41 (33.62,48.51)

Table 22 presents the posterior distribution of the expected annual crash frequencies per mile for all treated and untreated sites over the years preceding the bypass construction and the sum of the crash frequencies of the road and the bypass after the construction. The three posterior distributions are shown in Figure 12. This figure shows the overall effect of the bypass construction on crash frequency.

Table 22. Posterior means and 95% credible sets of the expected annual crash frequency per mile on the sum

	Mean	2.50%	97.50%
Non-Treatment	3.75	3.62	3.88
Treatment Before	7.88	7.75	8.01
Treatment After	2.68	2.37	3.02

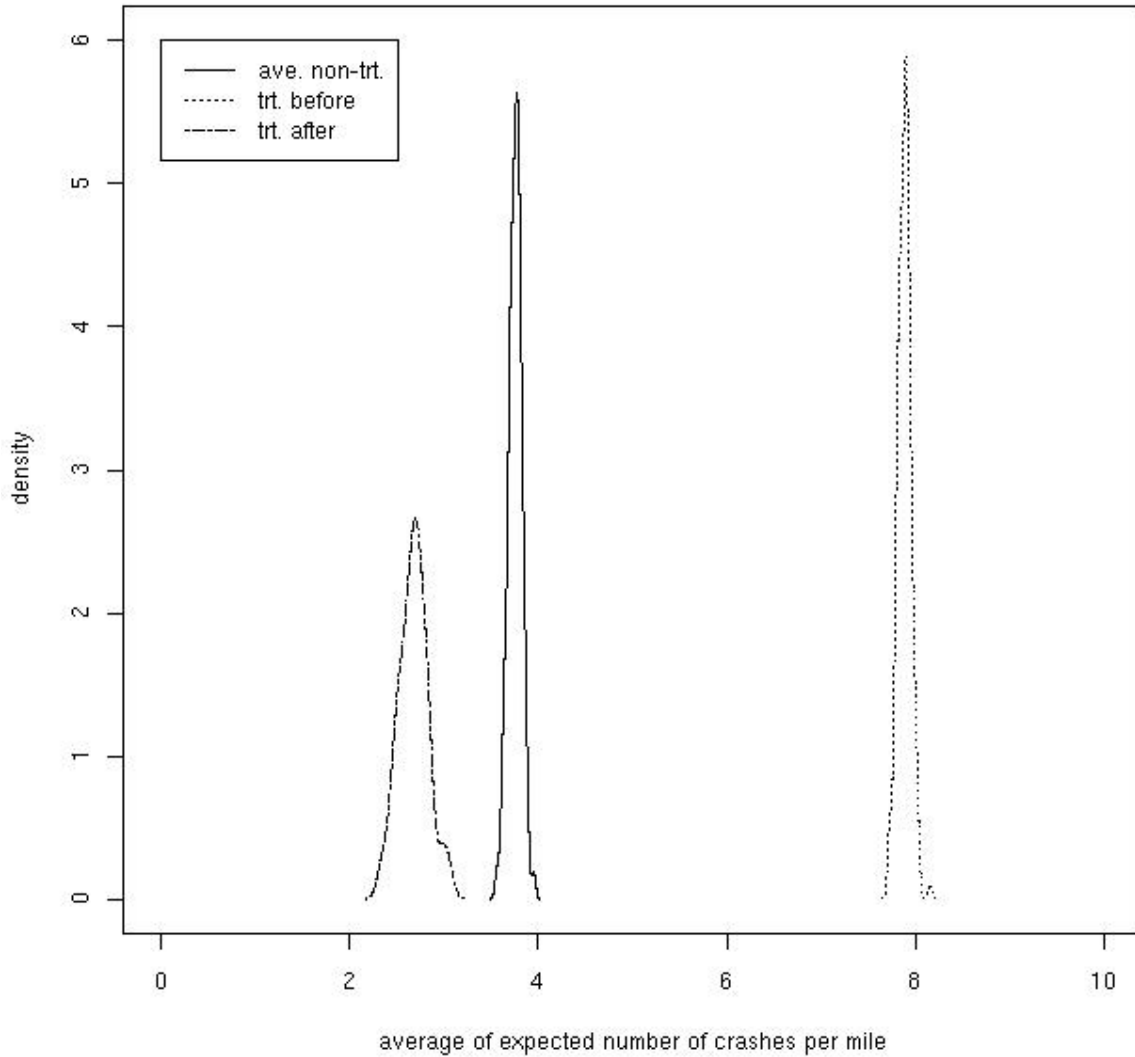


Figure 12. Posterior distributions of the expected annual crash frequencies per mile on the sum

From the figures it can be noted that the reduction in expected annual crash frequency per mile on the sum is more pronounced than it was on the main road after the bypass construction and is lower than before the intervention.

The posterior distributions of the sum of the expected annual crash frequencies of the main road and the bypass per site per mile were recomputed normalizing each site to a 10^6 AADT, obtaining the expected annual crash rate per mile. Such crash rates are summarized in Table 23.

Table 24 summarizes the average of the expected annual crash rate per mile of the untreated sites subtracted from the main road for each of the 19 bypassed sites before the intervention and subsequently after the intervention.

Table 23. Expected annual crash rate per mile per site during before and after on the sum

Site	Before (Road)	After (Sum)	Difference in crash rate	% Reduction in crash rate
	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)		
1	2.8 (2.73,2.91)	1.0 (0.91,1.19)	-1.8 (-1.9,-1.6)	63.2 (57.8,67.9)
2	1.5 (1.31,1.73)	0.5 (0.43,0.62)	-1.0 (-1.1,-0.9)	65.4 (59.9,70.2)
3	6.6 (6.33,6.91)	2.7 (2.34,3.04)	-4.0 (-4.3,-3.6)	59.7 (54.5,64.3)
4	1.6 (1.38,1.75)	0.6 (0.45,0.66)	-1.0 (-1.2,-0.9)	64.7 (59.2,69.4)
5	2.0 (1.71,2.22)	0.8 (0.66,0.90)	-1.2 (-1.4,-1.0)	60.6 (55.4,65.3)
6	1.6 (1.15,1.46)	0.5 (0.41,0.59)	-0.8 (-0.9,-0.7)	61.5 (56.2,66.2)
7	1.3 (0.83,1.27)	0.4 (0.30,0.50)	-0.6 (-0.8,-0.5)	61.5 (56.2,66.2)
8	4.6 (4.35,4.79)	1.9 (1.75,2.14)	-2.6 (-3.0,-2.4)	57.6 (52.5,62.2)
9	6.8 (6.51,7.04)	2.7 (2.37,3.02)	-4.1 (-4.5,-3.8)	60.6 (55.4,65.3)
10	0.9 (0.74,0.98)	0.3 (0.28,0.39)	-0.5 (-0.6,-0.4)	61.5 (56.2,66.2)
11	1.5 (1.32,1.60)	0.5 (0.46,0.64)	-0.9 (-1.0,-0.8)	62.3 (57.0,67.1)
12	2.4 (2.20,2.68)	0.9 (0.77,1.04)	-1.5 (-1.8,-1.4)	63.2 (57.8,67.9)
13	8.2 (7.91,8.47)	3.3 (2.93,3.74)	-4.9 (-5.3,-4.4)	59.7 (54.5,64.3)
14	4.5 (4.30,4.76)	1.9 (1.72,2.17)	-2.6 (-2.9,-2.3)	57.3 (52.1,62.0)
15	3.4 (3.20,3.54)	1.3 (1.11,1.46)	-2.1 (-2.3,-1.9)	62.3 (57.0,67.1)
16	3.6 (3.58,3.74)	1.4 (1.21,1.57)	-2.3 (-2.5,-2.1)	62.3 (57.0,67.1)
17	1.1 (0.99,1.14)	0.8 (0.80,0.88)	-0.2 (-0.3,-0.2)	21.4 (16.4,25.9)
18	5.2 (4.67,5.71)	2.4 (2.08,2.71)	-2.8 (-3.2,-2.4)	54.0 (49.0,58.6)
19	2.8 (2.62,2.94)	1.1 (0.98,1.26)	-1.7 (-1.8,-1.5)	59.7 (54.5,64.3)

Table 25 shows the computed posterior distribution of expected annual crash rates per mile for all treated and untreated sites over the years preceding the bypass construction and the sum of the crash rates after the construction. The three posterior distributions are shown in Figure 13.

Table 24. Comparison of annual crash rate per mile per site for treated and average untreated on the sum (Road) Before vs. Average Non-Treated (Sum) After vs. Average Non-Treated

Site	(Road) Before vs. Average Non-Treated		(Sum) After vs. Average Non-Treated	
	Difference	% Reduction	Difference	% Reduction
	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)
1	0.8 (0.7,1.0)	-42.0 (-50.3,-35.1)	-2.7 (-2.9,-2.5)	72.4 (68.4,75.6)
2	-0.5 (-0.7,-0.2)	23.8 (12.0,32.8)	-3.2 (-3.4,-3.0)	86.1 (83.1,88.5)
3	4.7 (4.3,4.9)	-234.9 (-257.1,-214.2)	-1.1 (-1.4,-0.7)	28.7 (19.5,37.6)
4	-0.4 (-0.6,-0.2)	21.2 (11.1,30.5)	-3.2 (-3.4,-3.0)	85.3 (82.3,88.1)
5	0.0 (-0.3,0.2)	1.3 (-12.2,13.3)	-3.0 (-3.2,-2.8)	79.5 (76.2,82.8)
6	-0.7 (-0.8,-0.5)	34.3 (26.1,43.0)	-3.3 (-3.4,-3.1)	86.7 (84.3,89.0)
7	-1.0 (-1.2,-0.7)	48.6 (35.2,58.3)	-3.4 (-3.5,-3.2)	89.6 (86.7,91.9)
8	2.6 (2.4,2.8)	-131.5 (-145.9,-117.8)	-1.8 (-2.0,-1.6)	48.2 (42.3,53.6)
9	4.8 (4.5,5.1)	-242.4 (-262.6,-225.8)	-1.1 (-1.4,-0.7)	28.8 (18.9,36.4)
10	-1.1 (-1.3,-1.0)	56.3 (49.8,63.5)	-3.4 (-3.5,-3.3)	91.1 (89.6,92.6)
11	-0.5 (-0.7,-0.4)	26.6 (19.5,34.0)	-3.2 (-3.3,-3.0)	85.4 (83.0,87.8)
12	0.5 (0.2,0.7)	-23.4 (-36.8,-9.3)	-2.9 (-3.1,-2.6)	76.0 (72.2,79.5)
13	6.2 (5.9,6.5)	-311.9 (-334.4,-289.9)	-0.5 (-0.8,0.0)	12.4 (1.0,22.6)
14	2.5 (2.3,2.8)	-128.0 (-144.4,-114.9)	-1.8 (-2.1,-1.6)	48.6 (42.3,54.4)
15	1.4 (1.2,1.6)	-70.4 (-81.0,-59.4)	-2.5 (-2.7,-2.3)	66.1 (60.5,70.4)
16	1.7 (1.5,1.8)	-84.0 (-94.2,-75.4)	-2.4 (-2.6,-2.2)	63.4 (58.4,67.6)
17	-0.9 (-1.0,-0.8)	46.1 (41.8,50.8)	-2.9 (-3.1,-2.8)	77.7 (76.3,79.0)
18	3.2 (2.7,3.7)	-161.2 (-188.0,-132.2)	-1.4 (-1.7,-1.1)	36.6 (28.3,45.1)
19	0.8 (0.6,1.0)	-40.2 (-49.2,-31.1)	-2.6 (-2.8,-2.5)	70.1 (66.2,73.9)

Table 25. Posterior means and credible sets of the average expected annual crash rate per mile on the sum

	Mean	2.50% quan	97.50% quan
Non-Treatment	1.98	1.90	2.06
Treatment before	3.25	3.19	3.31
Treatment after	1.32	1.16	1.49

2.7 Conclusion and Discussion

The monthly crash data for 25 sites in Iowa over a period of time between 1982 and 2005 has been analyzed in this study. Nineteen of the sites were bypassed during the study period while 6 sites, which were not bypassed, served as reference sites. The main objective of the study was to assess whether the construction of highway bypasses was effective in reducing the crash frequencies at the sites both on the main road through town and overall on the road and on the bypass.

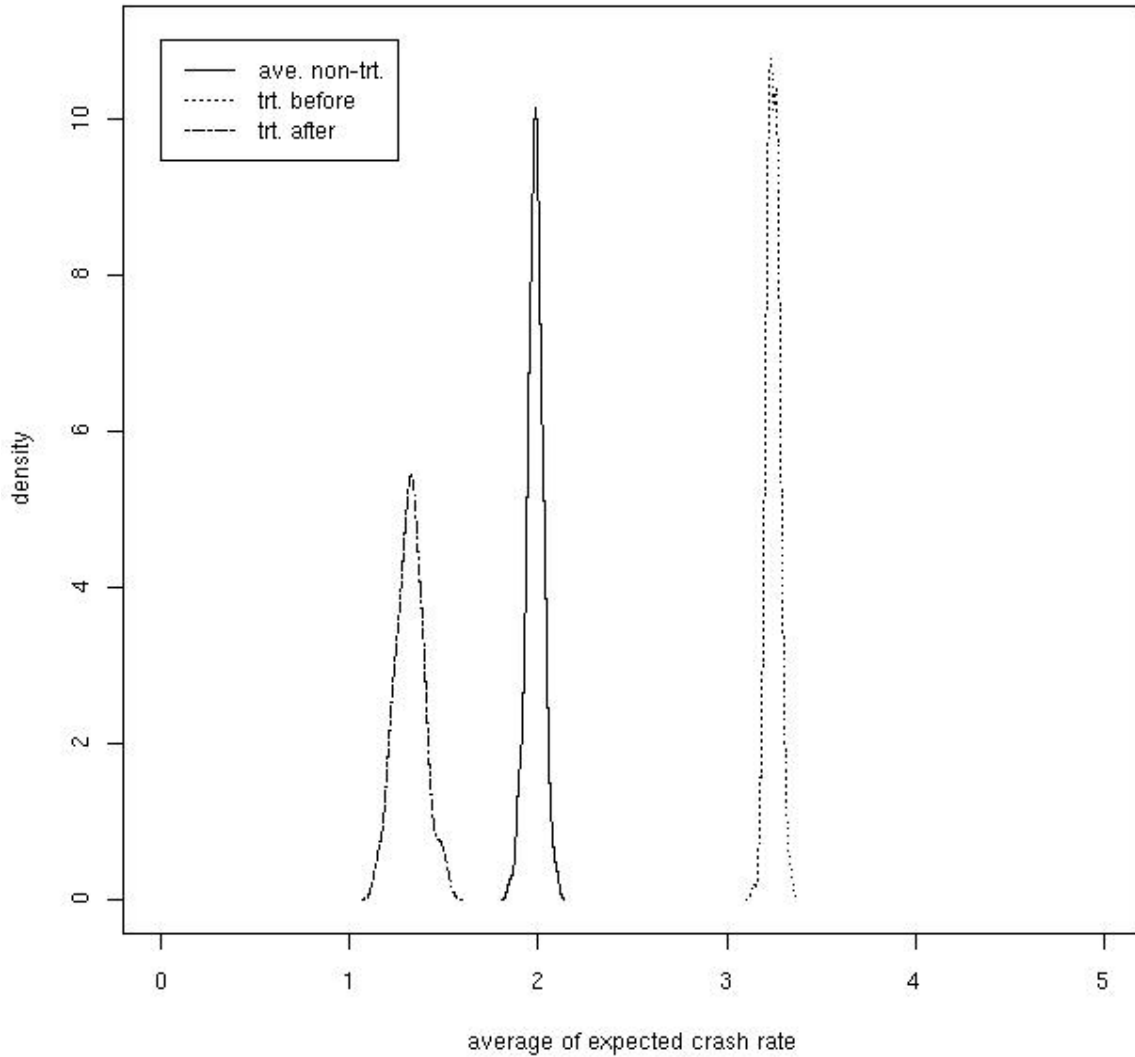


Figure 13. Posterior distributions of the expected annual crash rates per mile on the sum

A Bayesian approach was adopted by fitting a hierarchical Poisson model to the crash frequency observed at each site. The log monthly crash rate per mile was modeled using a piecewise linear regression model with a change point. Seasonal effects, treatment, time, and interactions of treatment and time were included in the explanatory variables of the change point regression model. A random effect was also added to the model to estimate the association between log monthly crash rate and explanatory variables. The priors used for all

parameters in the model were proper but non-informative. All calculations were carried out using Markov chain Monte Carlo methods.

The estimated likely set of values of the model parameters gives comforting results. Such estimates in fact show that the construction of highway bypasses in Iowa leads to an increase in traffic safety by reducing the number of crashes at least at the type of sites included in this study. The result of the model fitted is an exponential decay of the expected number of crashes over time at the sites, accounting for the potential effects of season. The estimated parameters and corresponding credible sets, as well as the results from the posterior prediction at the individual sites suggest that the model is reasonable and fits the data well.

The effectiveness of the bypass construction was assessed comparing the expected annual crash frequency per mile before and after the construction of the bypass at the site level. Also the average of the expected annual crash frequency over all sites in both the treated and untreated sites was computed for the main road and for the sum of the main road and the bypass and compared to that of the untreated sites.

On the main road, at each individual site, there is a significant decrease in the expected number of accidents per mile after the construction of the bypass, except for site 19 which experienced a considerable jump in MADT after the intervention. The crash rate also significantly decreased at each site except for site 17. When compared to the average of the 6 untreated groups the results for both crash frequency and rate were also very comforting.

On the sum of the main road and the bypass at each individual site, only site 17 experienced an increase in accident frequency after the intervention. Other sites experienced a decrease in both expected annual accident frequency per mile and expected accident rate. A similar pattern is observed when the expected crash rate and crash frequency per mile at each individual site is compared to the average of the untreated group. Only sites 9 and 13 show a higher crash frequency than that of the untreated sites.

When averaged over all treatment sites the expected number of crashes per mile on the main road is significantly reduced after the bypass construction. Still these values are slightly higher than that of the average of the untreated sites. The decrease of the average expected crash rate after the intervention is even more reassuring.

A similar pattern is observed when comparing the sum of expected number of crashes per mile on the main road and on the bypass averaged over all treatment sites. After the construction of the bypass the expected crash frequency per mile is significantly lowered on the treated sites, even below that of the average of the untreated sites. While before the intervention the average expected crash frequency and rate of the treated sites were higher than that of the untreated sites, after the construction of the bypass the frequency and rate of the treated sites decreases significantly below that of the untreated sites.

The results strongly suggest that the construction of highway bypasses increases traffic safety both on the main road and overall on the sum, at least in the state of Iowa and on the type of roads considered in this study.

It might be possible to improve on the precision of the statistical model by including additional covariates to help explain the variability in crash numbers across sites; however, including additional parameters in the model results in an increased difficulty in the interpretation. (Pawlovich et al., 2006)

It might also be possible to improve this study by identifying control sites deemed to be similar to the treatment sites but which did not receive the intervention. Each control site could be matched to treatment sites that have similar characteristics. This set up would allow each control site to be assigned the same completion date as its matching treatment site, thus allowing for a comparison of the before and after period on the control sites also.

The only difficulty in this set up would be choosing criteria for matching control and treatment sites and obtaining safety information for each control site. If for example one of the matching criteria was size or population of each treatment and control site, given the

scarcity of large cities that were never bypassed in the state of Iowa, it may be difficult to find a control to match each large bypassed city.

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CHAPTER 3. PREDICTING THE EFFECT OF HIGHWAY BYPASSES ON CITIZENS' SAFETY

Modified for copyright reasons from a paper to be submitted to the *Journal of Safety Research*²

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Abstract

The objective of this study is to assess the effects of highway bypasses on the safety of citizenry of Iowa communities. This objective has been accomplished by adopting a Bayesian approach and fitting a hierarchical Poisson model to the frequency of crashes involving the citizens of 23 Iowa communities.

The results suggest that although the crash frequencies decrease both on the main road and on the sum of the main road and the bypass, the rate of crashes involving citizens of the bypassed communities increases on the main road. The reduction in traffic volume on the main road (due to the shift of long-distance traffic to the bypass), may be the cause to the change in rate of crashes.

3.1 Introduction

There is a major concern among Iowa citizens about the effects that new infrastructures bring to the safety of their communities. These concerns have promoted opposition and protests toward changes in the community. Highway bypasses are reported as

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measures that reduce the number of accidents (Elvik and Vaa, 2004) and thus the safety of the citizens of the bypassed community. The majority of the research on highway bypasses, however, has been concentrated on economic impacts rather than on safety improvements, congestion reduction and increase in mobility (Cena, 2007).

This paper presents a concern in regard to the disadvantages that highway traffic passing through Iowa communities generates to local citizens. Of special interest is the safety of the local citizens and the possible improvements introduced by rerouting long distance commuters around the community.

Road planners perceive the construction of highway bypasses as a plausible solution to decrease the heavy traffic load through towns or business districts (Srinivasan and Kockelman, 2002). According to Elvik and Vaa (2004), extending and improving road systems increases mobility and reduces transportation costs. They also report highway bypasses as measures that reduce the number of accidents.

3.2 Literature Review

The accident rate in towns and cities is usually higher than in rural areas. This is because the central business district of towns often assembles a mixture of pedestrians, cyclists, and motor vehicles. The high traffic volume in towns causes both environmental problems and an increased risk of accidents (Elvik and Vaa, 2004) (Accident rate and Crash rate are defined as the ratio of crashes to Annual Average Daily Traffic (AADT), for the period of interest, normalized to 10^6 vehicles).

Road construction and automobile dependency create a physical barrier running through a community. This barrier reduces access to local amenities, disrupts social networks, and in addition it causes disturbance among citizens (Eagan et al., 2003). Through the construction of highway bypasses, the long-distance traffic is shifted outside towns and cities. This separation of local and long-distance traffic decreases the traffic volume on the

main road making it easier to introduce traffic calming measures (Elvik and Vaa, 2004). In contrast, on the bypass road the speed limit can be raised to at least 50 miles per hour and the connection between the bypass and the actual road is made using high standard junctions and interchanges. (Cena, 2007)

A full Bayesian analysis of 19 Iowa communities bypassed in Iowa between 1982 and 2005, concluded that the construction of bypasses, on average, decreases the number of accidents per mile (crash frequency) on the road running through town by 50% (Cena, 2007). According to Elvik and Vaa (2004), the effects of bypasses on the number of accidents can vary from place to place. Several factors have been found to affect accident rates of bypassed communities:

- The accident rate on the main road through town where the bypass is built: the higher the number of accidents on the main road through town, the larger the decrease will be in the number of accidents after the bypass is built.
- The proportion of traffic transferred to the bypass: if a larger volume of traffic is shifted to the bypass, then a greater decrease in the number of accidents is to be expected.
- The implementation of speed reducing measures. A greater decrease in the number of accidents can be attained if speed-reducing measures are implemented in the main road.
- The design of junctions built between the old road and the bypass.

In a meta-analysis of studies performed in various European countries, Elvik and Vaa (2004) found that on average the accident rate on the main road through town increases after the construction of a bypass. This is justified by a possible increase in speed due to the lower traffic volume. Eagan et al. (2003) found a general decrease of injury accidents after the opening of new bypasses in European cities. Twelve of these studies also revealed a general decrease in disturbance and community severance among the residents of the bypassed

towns, especially in smaller towns. These results are confirmed by a multivariate regression analysis performed by Srinivasan and Kockelman (2002).

Carriquiry and Pawlovich (2004) suggest the use of hierarchical Bayesian models to assess safety benefits of road improvements. The work presented here adopts a full Bayesian approach to model the effects of the construction of bypasses on the safety of local citizens of the bypassed Iowa communities. Crash frequencies and crash rates throughout this paper will refer to the frequency and rate of accidents involving citizens of the bypassed community unless otherwise specified.

3.3 Data

The Iowa DOT provided crash data, which was used to obtain traffic safety information for 23 Iowa communities. Eighteen of the communities were bypassed while five were scheduled to be bypassed but did not receive the intervention during the years of interest for this study, and served therefore as reference sites. At each site only the accidents involving at least one local citizen of the bypassed community were retained. The Iowa DOT provided data for each site covering the time period of the study. These data included site length (miles), crash frequency (crashes per month), traffic volume (average annual monthly traffic), vehicle miles traveled (monthly vehicle miles traveled), and monthly crash rate (monthly crash frequency per vehicle miles traveled). These data were provided separately for the through road, the bypass, and the sum of the two.

All sites were observed over the 12 years between 1994 and 2005. Table 26 presents information on each of the 23 sites. Sites 1 to 18 are the treatment sites and were bypassed some time between 1994 and 2005. Sites 19 to 23 were not bypassed and will be referred to as non-treatment or untreated sites throughout this paper. The bypass road on sites 10 and 16 incorporates more than one town before tying back to the older route from which it

originated, therefore, on these sites traffic safety information was obtained for the stretch of road along multiple towns.

Table 26. Information on study sites

Site	Site Name	Road Length	Bypass Length	Road + Bypass (Sum) Length	Completion Year	Treated
1	Sioux City	11.0	9.3	20.7	2001	Yes
2	Alton	5.2	6.8	10.1	2004	Yes
3	Storm Lake	10.9	6.4	17.0	1997	Yes
4	Pleasantville	4.5	4.2	7.4	2003	Yes
5	Prairie City	4.2	5.6	9.4	1998	Yes
6	Monroe	4.3	7.4	10.6	1999	Yes
7	Otley	1.9	1.9	3.1	1999	Yes
8	Pella	7.2	10.8	16.3	1995	Yes
9	Oskaloosa	5.7	7.8	13.4	1998	Yes
10	Swedesburg/Olds	5.1	5.3	9.7	1999	Yes
11	New London	5.7	6.8	11.0	2000	Yes
12	Blue Grass	3.1	5.9	8.4	2001	Yes
13	Marion	3.8	5.2	9.0	1998	Yes
14	Waverly	7.7	10.9	17.1	1999	Yes
15	Charles City	8.2	13.7	21.1	2000	Yes
16	Rudd/Mason City/Nora Springs	27.0	33.8	60.8	1999	Yes
17	Denver	2.0	4.0	5.8	1996	Yes
18	Marshalltown	6.6	9.6	15.5	1998	Yes
19	Le Mars	5.9	N/A	N/A	N/A	No
20	Sheldon	8.6	N/A	N/A	N/A	No
21	Ashton	3.2	N/A	N/A	N/A	No
22	Eddyville	4.4	N/A	N/A	N/A	No
23	Hospers	4.3	N/A	N/A	N/A	No

One concern in observational studies is sampling bias. If the sites chosen to receive a bypass had a worse safety record than those that did not receive a bypass, then the effect of the intervention on safety will be overestimated. Treated and untreated sites in this study were compared in terms of safety and other characteristics during the years preceding the intervention and it was found that the untreated sites appear to be safer on average than the treated sites. Anticipating that the Iowa DOT allocates its resources where the perceived is greatest, this bias is expected.

Because of the potential selection bias it is necessary to interpret the results cautiously. Sites 19-23 have been used as reference sites in this study with the understanding

that the estimated positive impacts of the bypass on safety (if any) will likely be overstated. Selection bias is difficult to overcome without the benefit of a designed experiment, where sites are randomly allocated to the intervention and control group. The hope of this study is to ameliorate somewhat the effects of selection bias by considering crash information over a period of at least 12 years at each site.

The bypass completion date was obtained through a combination of transportation maps obtained from the Iowa Department of Transportation (DOT) and by observing the MADT patterns. On most sites a drastic drop in traffic volume on the main road was easily observable in correspondence with the year the bypass opened around the community. Figure 14 shows a plot of the MADT for site 1. The MADT plots for all sites also suggested the need of accounting for seasonal effects. A constant pattern was in fact observed at each site, indicating peaks of traffic volume during the summer months and lower volumes during the winter months.

Distances along the old and new road were obtained with Geographic Information System software, measuring from the point where the bypass branches off the old road to the point where they rejoin. The portion of road at the junction of the old and new road has been taken into account to avoid double counting of the same stretch of road.

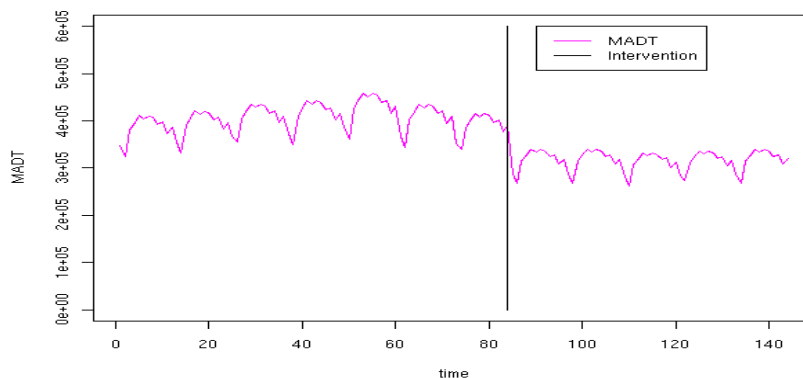


Figure 14. MADT over time on the main road of site 1

3.4 Methodology

3.4.1 Exploratory Data Analysis

This study employs a full Bayesian approach (Gelman et al., 2004; Carriquiry and Pawlovich, 2004) to evaluate whether the construction of a bypass increases traffic safety among citizens of Iowa communities. Traffic safety will be assessed on both the main road before and after the bypass construction, as well as on the sum of the road and the bypass (referred to as the road data and the sum data respectively). In order to determine the form of the regression model, an initial exploratory analysis was performed.

The monthly crash frequency (number of crashes per mile) was plotted for both the road data and the sum data. Figures 15 and 16 present crash frequency plots for site 1. The vertical line in the figures marks the time at which the bypass was completed. The solid line in the graph is a smooth estimate of the number of crashes over time, obtained by fitting a non-parametric local polynomial regression with optional bandwidth (Simonoff, 1996).

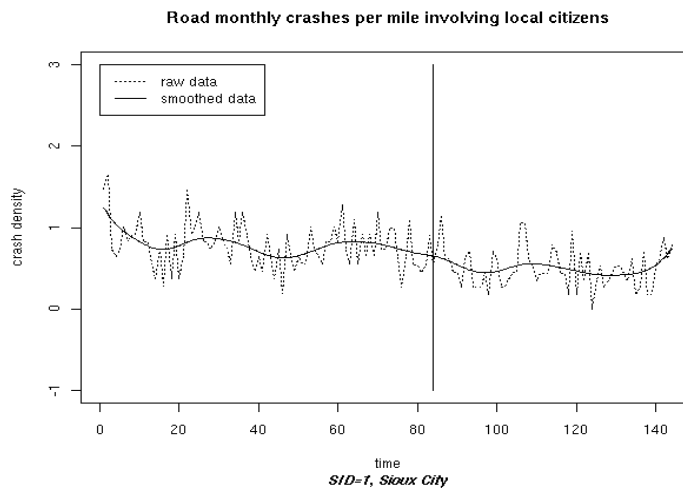


Figure 15. Observed crash rate on the road at site 1

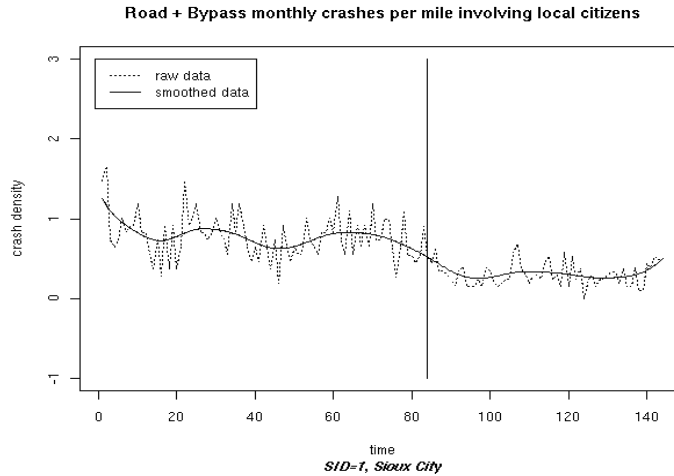


Figure 16. Observed crash rate on the sum at site 1

Table 27 contains the average frequency observed from the road data before and after the intervention, and from the sum data after the intervention, as well as their comparisons.

Table 27. Observed average number of crashes per year per mile at all sites

Site	Crash Frequency on Road Before Intervention	Crash Frequency on Road After Intervention	Difference Road After-Road Before Intervention	% Reduction Road After vs. Road Before Intervention	Crash Freq. on Sum (Road After Intervention + Bypass)	Difference Sum-Road Before Intervention	% Reduction Sum vs. Road Before Intervention
1	9.3	6.0	-3.4	36.2	3.6	-5.7	61.2
2	0.7	0.4	-0.3	41.0	0.2	-0.5	69.6
3	6.0	3.6	-2.4	39.7	2.4	-3.6	59.6
4	1.0	0.8	-0.2	21.3	0.8	-0.3	25.1
5	1.2	0.4	-0.7	62.4	0.2	-1.0	83.1
6	1.1	0.4	-0.8	66.9	0.2	-0.9	78.7
7	0.5	0.0	-0.5	100.0	0.0	-0.5	100.0
8	6.3	4.7	-1.6	25.5	2.4	-3.9	62.0
9	12.7	11.0	-1.7	13.0	4.9	-7.8	61.2
10	0.2	0.1	-0.1	61.7	0.0	-0.1	71.0
11	1.6	1.1	-0.5	29.8	0.7	-0.9	54.2
12	2.5	0.8	-1.7	69.9	0.3	-2.2	86.6
13	34.5	29.0	-5.5	16.0	15.1	-19.3	56.1
14	6.9	5.0	-2.0	28.3	2.4	-4.6	65.8
15	4.7	3.2	-1.5	32.0	1.5	-3.2	68.8
16	9.3	7.4	-1.9	20.1	3.4	-5.8	63.1
17	2.2	1.7	-0.5	22.6	0.8	-1.5	65.7
18	4.2	3.0	-1.2	28.3	1.7	-2.6	60.6
19	7.7	NA	NA	NA	NA	NA	NA
20	2.2	NA	NA	NA	NA	NA	NA
21	0.6	NA	NA	NA	NA	NA	NA
22	1.2	NA	NA	NA	NA	NA	NA
23	0.4	NA	NA	NA	NA	NA	NA

Given the results of the exploratory analysis and the random nature of crash events, a Poisson regression model with a log-link function to associate the Poisson mean to a set of covariates was found to be appropriate. The Poisson-log normal model is essentially equivalent to a marginal negative binomial model on crash frequency. Thus, the overdispersion that is typically observed in the distribution of crashes is accounted for in the model. In order to account for the seasonal effects a set of trigonometric functions have been included in the model. The log mean in the model is expressed as a function of time, seasonal effects, and a random effect corresponding to each individual site.

3.4.2 Model and Notation

The model notation is defined as follows:

i denotes site (values: 1 to 23),

t denotes month (values: 1 to 144),

y_{it} denotes the number of monthly crashes at site i during time period t ,

v_{it} is the estimated MADT for site i at time period t ,

id_i is a random effect corresponding to site i ,

t_{0i} denotes the time period during which the intervention is completed for treated site i ,

$$X_{it} = \begin{cases} 1 & \text{if site } i \text{ is treated at some time} \\ 0 & \text{if site } i \text{ is not treated} \end{cases},$$

$$S_{it} = \begin{cases} 1, & \text{if } t \text{ is a winter month (December, January, February)} \\ 2, & \text{if } t \text{ is a spring month (March, April, May)} \\ 3, & \text{if } t \text{ is a summer month (June, July, August)} \\ 4, & \text{if } t \text{ is a fall month (September, October, November)} \end{cases},$$

$$X_{2it} = \cos\left(\frac{2\pi \times S_{it}}{4}\right) \quad (1)$$

$$X_{3it} = \cos\left(\frac{4\pi \times S_{it}}{4}\right) \quad (2)$$

$$X_{4it} = \sin\left(\frac{2\pi \times S_{it}}{4}\right) \quad (3)$$

The variables (1), (2), and (3) will be further explained in section 4.3. The number of monthly crashes at site y_{it} is modeled to be a Poisson random variable with mean $\lambda_{it}v_{it}$.

$$y_{it} \sim Poi(\lambda_{it}v_{it}). \quad (4)$$

The log crash rate $\log(\lambda_{it})$ is modeled as a piecewise linear function of the covariates defined above.

The model for the untreated sites is:

$$\log(\lambda_{it}) = \beta_1 + \beta_3 t + \beta_6 X_{2it} + \beta_7 X_{3it} + \beta_8 X_{4it} + id_i. \quad (5)$$

The model for the road data and the sum data of the treated sites:

$$\log(\lambda_{it}) = \beta_1 + \beta_2 X_{1it} + \beta_3 t + \beta_4 X_{1it} t + \beta_5 X_{1it} (t - t_{0i}) I_{(t > t_{0i})} + \beta_6 X_{2it} + \beta_7 X_{3it} + \beta_8 X_{4it} + id_i, \quad (6)$$

where

$$id_i \sim N(0, (\tau_{bw}^2)^{-1}), \quad I_{(t > t_{0i})} = \begin{cases} 1, & \text{if } (t > t_{0i}) \\ 0, & \text{if } (t \leq t_{0i}) \end{cases}. \quad (7)$$

The term τ_{bw}^2 presented in equation (7) is the between site-precision and is defined as the inverse of the between site variance in the monthly number of crashes.

Prior distributions for all parameters of the model were chosen. All the chosen priors are semi-conjugate and proper, but non-informative. These types of priors will guarantee that the joint posterior distributions will be integrable (Pawlovich et al., 2005). Here,

$$\beta_j \sim N(0, 0.001), \text{ for } j \text{ from } 1 \text{ to } 8, \text{ and } \tau_{bw}^2 \sim \text{Gamma}(0.01, 0.01). \quad (8)$$

3.4.3 Interpretation of the Model Parameters

For the treatment sites the log crash rate for the road data and the sum data, when $t \leq t_{0i}$, is given by:

$$\log(\lambda_{it}) = (\beta_1 + \beta_2) + (\beta_3 + \beta_4)t + \beta_6 X_{2it} + \beta_7 X_{3it} + \beta_8 X_{4it} + id_i. \quad (9)$$

After the intervention, when $t > t_{0i}$ the log crash rate is:

$$\log(\lambda_{it}) = (\beta_1 + \beta_2) + (\beta_3 + \beta_4)t + \beta_5(t - t_{0i}) + \beta_6 X_{2it} + \beta_7 X_{3it} + \beta_8 X_{4it} + id_i. \quad (10)$$

This expression can be written as:

$$\log(\lambda_{it}) = (\beta_1 + \beta_2 - \beta_5 t_{0i}) + (\beta_3 + \beta_4 + \beta_5)t + \beta_6 X_{2it} + \beta_7 X_{3it} + \beta_8 X_{4it} + id_i. \quad (11)$$

For the non-treatment sites the log crash rate is given by:

$$\log(\lambda_{it}) = \beta_1 + \beta_3 t + \beta_6 X_{2it} + \beta_7 X_{3it} + \beta_8 X_{4it} + id_i. \quad (12)$$

Should there be no difference between the log crash rate of the treated and untreated sites it would be expected that $\beta_2 = \beta_4 = \beta_5 = 0$, meaning that the difference between the log crash rate between treated sites after the intervention and untreated sites has the same intercept and the same regression coefficient. Should the intervention be effective at reducing the crash rates, then the slope of the log crash rate over time would be more negative in treated sites after time t_0 than in untreated sites, therefore,

$$\beta_3 > \beta_3 + \beta_4 + \beta_5. \quad (13)$$

The seasonal effects associated with log crash rate are accounted for by the variables X_{2it} , X_{3it} , and X_{4it} , and three trigonometric functions, as shown in equations (1), (2), and (3).

Table 28 presents the functions of the regression coefficients that represent seasons.

Season	S_{it}	X_{2it}	X_{3it}	X_{4it}
Winter	1	0	-1	1
Spring	2	-1	1	0
Summer	3	0	1	-1
Fall	4	1	1	0

When month t is a winter month $\beta_6 X_{2it} + \beta_7 X_{3it} + \beta_8 X_{4it} = -\beta_7 + \beta_8$. When t is a spring month $\beta_6 X_{2it} + \beta_7 X_{3it} + \beta_8 X_{4it} = -\beta_6 + \beta_7$. When t is a summer month $\beta_6 X_{2it} + \beta_7 X_{3it} + \beta_8 X_{4it}$

$=\beta_7 - \beta_8$. When t is a fall month instead $\beta_6 X_{2it} + \beta_7 X_{3it} + \beta_8 X_{4it} = \beta_6 + \beta_7$. Because of the effect of winter weather on the number of accidents, it is expected that $(-\beta_7 + \beta_8) > 0$ during the winter season and $(\beta_7 - \beta_8) < 0$ during the summer season.

3.5 Results and Interpretation

3.5.1 Parameter Estimates

The posterior distribution of the parameters in the model presented in equation (4) was estimated using Markov chain Monte Carlo methods. For each parameter two parallel chains were run using the computer software WinBUGS (www.mrc-bsu.cam.ac.uk/bugs; Cowles, 2004), over 2,000,000 iterations, thinning every 100th draw for inference, for both the road data and the sum data. The posterior distributions are summarized in Tables 29 and 30.

From Table 29 it can be observed that the 95% credible sets for the road data for β_2 and β_5 cover zero, indicating that if the MADT is to remain constant before and after the bypass construction, there is no expected reduction in crashes on the main road after the construction of the bypass.

Table 29. Posterior distribution of the road data

Node	Mean	sd	2.5%	97.5%
Intercept β_1	-6.889	0.4752	-7.821	-5.933
Treatment β_2	0.2665	0.5238	-0.778	1.319
Non-treatment β_3	-0.004028	8.20E-04	-0.005617	-0.002414
Tmt vs. time β_4	0.002628	0.001052	5.47E-04	0.004694
Before vs. after β_5	3.19E-04	9.49E-04	-0.001543	0.002216
Season β_6	0.05837	0.01469	0.03008	0.08731
Season β_7	-0.03617	0.01021	-0.05617	-0.01614
Season β_8	0.08806	0.01464	0.05994	0.1169
sigma.bw	1.089	0.1832	0.8004	1.519
tau.bw	0.9113	0.2907	0.4336	1.561

Table 30. Posterior distribution of the sum data

Node	Mean	Sd	2.5%	97.5%
Intercept β_1	-6.79	0.5696	-7.911	-5.698
Treatment β_2	0.1524	0.6536	-1.151	1.574
Non-treatment β_3	-0.004067	8.14E-04	-0.005666	-0.002501
Tmt vs. time β_4	-0.003653	0.001043	-0.005662	-0.001625
Before vs. after β_5	0.002095	9.32E-04	3.25E-04	0.003929
Season β_6	0.08334	0.01431	0.05584	0.1119
Season β_7	-0.029	0.01001	-0.04867	-0.008947
Season β_8	0.09368	0.01393	0.0662	0.1214
sigma.bw	1.163	0.2013	0.8468	1.628
tau.bw	0.8017	0.2601	0.3781	1.395

Table 30 instead indicates that the 95% credible set for β_2 covers zero for the sum data while $\beta_5 > 0$ indicating a difference in log crash rate between before and after the bypass construction. The slope of the log crash rate over time appears in fact to be slightly less steep after the bypass construction for the sum data.

3.5.2 Effect of Bypass Construction

The posterior distribution of the slope of the log crash rate over time (months) for untreated sites, treated sites after the construction of the bypass, and their difference in slope are summarized in Table 31 for the road data and in Table 32 for the sum data. The credible set for the difference between the treated and untreated sites in Table 31 indicates that the expected log crash rate of accidents involving local citizens in treated sites is higher after the bypass construction for the road data than in the untreated sites. The same coefficients in Table 32 indicate that for the sum data the expected log crash rate is lower in treated sites after the intervention than in the untreated sites.

Table 31. Posterior distributions of the slope of log crash rate for the road data

Coef. for Time	Mean	2.5%	Median	97.5%
Untreated (U) (β_3)	-0.004028	-0.005617	-0.004026	-0.002414
Treated (Tr) ($\beta_3 + \beta_4 + \beta_5$)	-0.00108	-0.006061	-0.00108	0.00450
Difference (Tr-U) ($\beta_4 + \beta_5$)	0.00295	-0.000996	0.0586	0.00691

Table 32. Posterior distributions of the slope of log crash rate for the sum data

Coef. for Time	Mean	2.5%	Median	97.5%
Untreated (U) (β_3)	-0.004067	-0.005666	-0.004059	-0.002501
Treated (Tr) ($\beta_3 + \beta_4 + \beta_5$)	-0.005625	-0.0110029	-0.005616	-0.000197
Difference (Tr-U) ($\beta_4 + \beta_5$)	-0.001558	-0.00534	-0.00156	0.002304

3.5.3 Effect of Seasons

The results for the seasonal effects on log crashes are reported in Tables 33 and 34. As expected the posterior distribution of the linear combinations of the seasonal regression coefficients for spring and summer are found to be negative, while the coefficients for fall and winter are positive. These results suggest that the expected crash rate in spring and summer will tend to be lower than that in fall and winter.

Table 33. Means and posterior credible sets of the effects of season for the road data

Season	Mean	2.5%	Median	97.5%
Winter ($-\beta_7 + \beta_8$)	0.12423	0.11611	0.1239	0.13304
Spring ($-\beta_6 + \beta_7$)	-0.09454	-0.08625	-0.09419	-0.10345
Summer ($\beta_7 - \beta_8$)	-0.12423	-0.11611	-0.1239	-0.13304
Fall ($\beta_6 + \beta_7$)	0.0222	-0.02609	0.02231	0.07117

Table 34. Means and posterior credible sets of the effects of season for the sum data

Season	Mean	2.5%	Median	97.5%
Winter ($-\beta_7 + \beta_8$)	0.12268	0.11487	0.12269	0.130347
Spring ($-\beta_6 + \beta_7$)	-0.11234	-0.10451	-0.11199	-0.120847
Summer ($\beta_7 - \beta_8$)	-0.12268	-0.11487	-0.12269	-0.130347
Fall ($\beta_6 + \beta_7$)	0.05434	0.00717	0.05425	0.102953

3.6 Expected Crash Frequencies and Crash Rates

In order to quantify the effect of the bypass construction on the safety of the citizens of the bypassed community, the expected crash rate and frequency per year was computed for each site for both the road data and the sum data. The expected crash frequency was calculated using the following equation:

$$\frac{\sum_{j=StartYear}^{EndYear} \mu_{ij} / L_{ij}}{n_i}, \quad (10)$$

where

L_{ij} is the length of the i th site at year j ,

n_i is the number of years for which traffic safety information is available,

μ_{ij} is the expected number of crashes per mile in the j th year for the i th site and is obtained from the previously fitted Poisson model.

3.6.1 Expected Crashes on the Main Road

This section quantifies the effect of the bypass construction for the road data. The posterior means and credible sets for the average expected crash frequencies of the treated sites, taken before and after the bypass construction, are summarized in Table 35. The same table also contains the difference in expected crash frequency (before-after) and the percent reduction in the expected annual crash frequency at each bypassed site between the “after” and “before” periods. Table 36 shows the expected annual crash frequency per mile per site for each untreated site.

In order to compare the treatment sites with the non-treatment sites, the average of the expected annual crash frequencies of the untreated sites was obtained from the values of Table 36. This average was then subtracted from the annual crash frequency on each main road of the bypassed sites before and after the intervention. The differences and percent reductions in crash frequencies between bypassed and average untreated sites are displayed in Table 37.

Table 38 presents the posterior distributions of the expected annual crash frequencies for the untreated sites and for the treated sites before and after the construction of the bypass. The three posterior distributions are plotted in Figure 17. From Figure 17 it is possible to see the effect of the construction of a bypass on the frequency of crashes.

Table 35. Expected annual crash frequencies per mile for the road data

Site	Before	After	Difference in Crash Frequency	Percent Reduction in Crash Frequency
	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)		
1	9.0 (8.45,9.54)	6.6 (5.59,7.60)	-2.4 (-3.3,-1.7)	26.7 (18.1,36.1)
2	0.7 (0.48,0.94)	0.3 (0.21,0.44)	-0.4 (-0.5,-0.3)	55.6 (48.8,62.6)
3	4.6 (4.28,4.97)	4.1 (3.67,4.49)	-0.5 (-0.9,-0.2)	11.6 (4.3,19.4)
4	1.2 (0.88,1.49)	0.5 (0.38,0.74)	-0.6 (-0.8,-0.5)	53.3 (46.8,60.2)
5	1.0 (0.70,1.35)	0.6 (0.42,0.79)	-0.4 (-0.6,-0.3)	40.7 (35.3,46.7)
6	1.1 (0.75,1.47)	0.5 (0.33,0.64)	-0.6 (-0.8,-0.4)	57.1 (52.7,62.0)
7	0.4 (0.19,0.79)	0.2 (0.09,0.38)	-0.2 (-0.4,-0.1)	51.2 (46.2,56.7)
8	5.6 (5.07,6.12)	4.8 (4.39,5.19)	-0.8 (-1.2,-0.5)	14.3 (9.1,20.0)
9	14.5 (13.60,5.53)	10.2 (9.24,11.41)	-4.3 (-5.6,-3.1)	29.7 (23.1,36.8)
10	0.3 (0.13,0.47)	0.05 (0.02,0.08)	-0.2 (-0.4,-0.1)	82.8 (81.0,84.7)
11	2.0 (1.59,2.39)	0.8 (0.63,1.00)	-1.2 (-1.4,-0.9)	59.0 (54.6,64.0)
12	2.5 (1.94,3.27)	0.8 (0.56,0.98)	-1.8 (-2.3,-1.4)	70.4 (66.8,74.3)
13	37.2 (35.39,39.39)	28.0 (25.30,30.94)	-9.2 (-11.9,-6.4)	24.8 (17.9,32.4)
14	5.5 (5.05,6.06)	6.0 (5.25,6.89)	0.5 (-0.2,1.1)	-9.2 (-20.2,3.1)
15	5.2 (4.62,5.65)	2.8 (2.38,3.27)	-2.4 (-2.8,-2.0)	45.6 (39.7,52.2)
16	9.5 (9.11,9.86)	7.3 (6.49,8.27)	-2.2 (-3.0,-1.4)	22.7 (15.0,31.3)
17	1.7 (1.30,2.28)	1.8 (1.34,2.41)	0.1 (0.0,0.3)	-5.6 (-13.9,2.8)
18	4.9 (4.28,5.41)	2.7 (2.32,3.04)	-2.2 (-2.6,-1.8)	45.5 (40.5,50.9)

Table 36. Expected annual crash frequencies per mile per site for non-treatment sites

SITE	Mean	2.5% quantile	97.5% quantile
19	7.64	7.06	8.34
20	2.18	1.91	2.45
21	0.58	0.39	0.83
22	1.23	0.94	1.56
23	0.41	0.25	0.59

The posterior distributions of the expected annual frequencies for the road data reveal a reduction in frequency of accidents per mile. The reduction, however, did not reach the level of the reference sites.

Table 37. Crash frequency comparison of treated and average untreated sites for the road data

Site	Before vs. Average Non-Treatment		After vs. Average Non-Treatment	
	Difference	% Reduction	Difference	% Reduction
	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)
1	6.6 (6.0,7.1)	-274.0 (-302.2,-239.3)	4.2 (3.1,5.2)	-174.0 (-220.4,-122.4)
2	-1.7 (-2.0,-1.5)	71.3 (61.4,79.4)	-2.1 (-2.3,-1.9)	87.3 (82.0,91.2)
3	2.2 (1.7,2.6)	-92.4 (-110.2,-68.6)	1.7 (1.2,2.1)	-70.0 (-87.3,-46.2)
4	-1.3 (-1.6,-0.9)	51.8 (37.0,64.2)	-1.9 (-2.1,-1.6)	77.5 (70.0,84.5)
5	-1.4 (-1.8,-1.0)	60.0 (44.1,71.1)	-1.8 (-2.1,-1.5)	76.3 (66.9,82.9)
6	-1.3 (-1.7,-0.9)	55.4 (37.9,68.1)	-1.9 (-2.2,-1.7)	80.8 (72.9,86.4)
7	-2.0 (-2.3,-1.6)	82.4 (66.7,92.4)	-2.2 (-2.4,-2.0)	91.4 (83.6,96.3)
8	3.2 (2.6,3.7)	-131.6 (-160.1,-105.8)	2.4 (1.9,2.8)	-98.4 (-121.9,-76.6)
9	12.1 (11.2,13.2)	-503.4 (-573.6,-446.4)	7.8 (6.8,9.0)	-324.2 (-379.9,-272.6)
10	-2.1 (-2.3,-1.9)	88.9 (80.4,94.3)	-2.4 (-2.6,-2.2)	98.1 (96.5,99.1)
11	-0.4 (-0.9,0.0)	18.2 (-0.6,34.0)	-1.6 (-1.9,-1.3)	66.5 (57.4,74.0)
12	0.1 (-0.5,0.8)	-5.7 (-34.8,20.4)	-1.7 (-1.9,-1.4)	68.7 (59.8,77.3)
13	34.8 (33.0,37.0)	-1446.6 (-1602,-1304.2)	25.6 (22.9,28.5)	-1062.6 (-1220.6,-907.5)
14	3.1 (2.6,3.7)	-130.4 (-156.5,-108.1)	3.6 (2.9,4.5)	-151.4 (-184.4,-118.3)
15	2.8 (2.2,3.3)	-114.7 (-142.9,-88.2)	0.4 (-0.1,0.9)	-16.8 (-37.2,5.5)
16	7.1 (6.7,7.5)	-295.1 (-326.2,-265.4)	4.9 (4.0,5.9)	-205.3 (-243.0,-161.8)
17	-0.7 (-1.2,-0.1)	28.1 (4.4,46.0)	-0.6 (-1.1,0.0)	24.0 (-0.4,43.8)
18	2.5 (1.9,3.0)	-103.6 (-131.7,-78.0)	0.3 (-0.1,0.7)	-11.0 (-29.2,5.6)

Table 38. Posterior means and credible sets of expected annual crash frequencies per mile for the road data

Site	Mean	2.50% quantile	97.50% quantile
Non-Treatment	2.41	2.25	2.59
Treatment Before	5.94	5.76	6.11
Treatment After	4.34	3.94	4.78

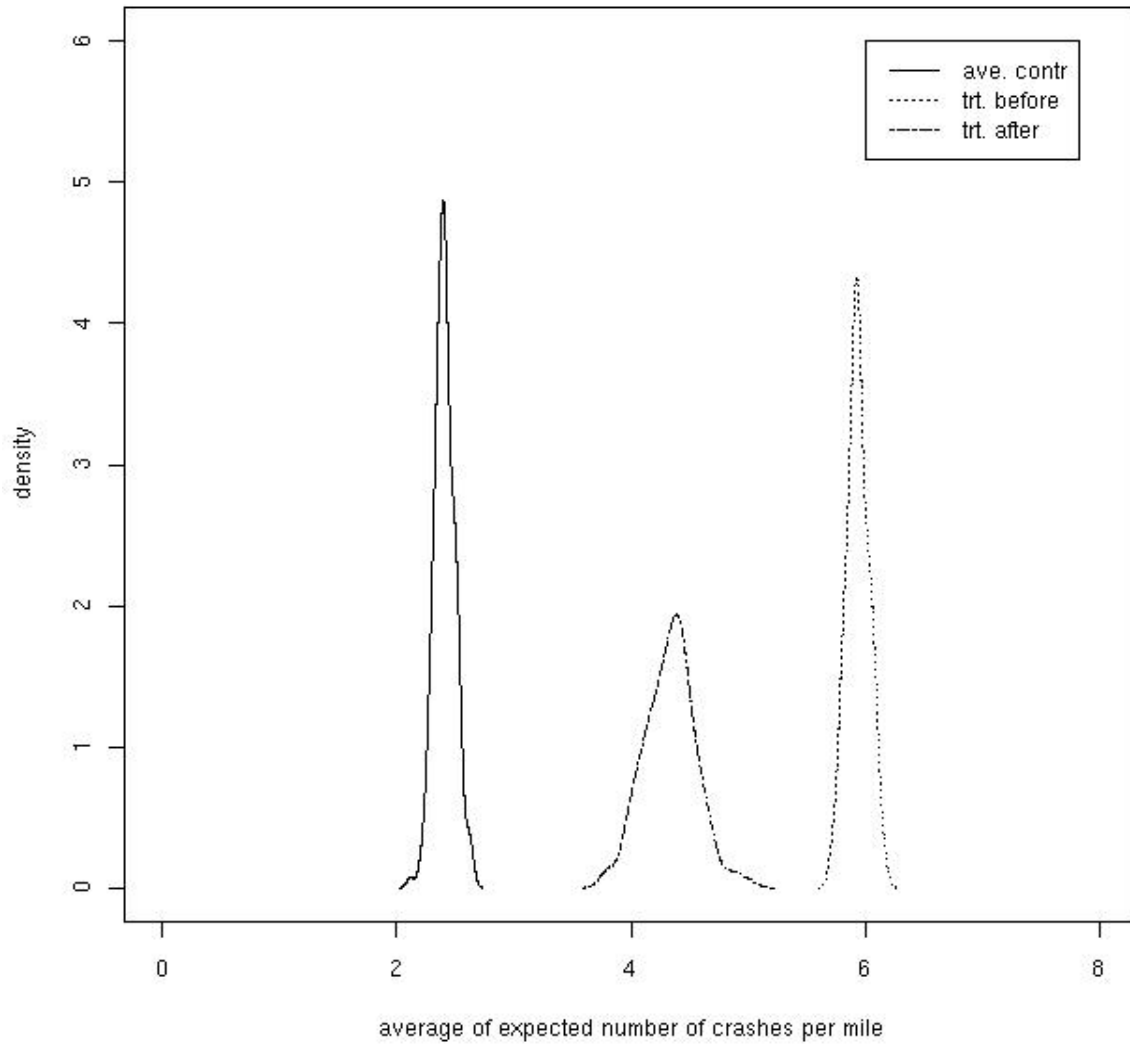


Figure 17. Posterior distributions of expected annual crash frequencies per mile for the road data

3.6.2 Expected Crash Rates on the Main Road

The crash frequencies for the road data were recomputed normalizing each site to a 10^6 AADT, obtaining the expected annual crash rate per mile. Tables 39 and 40 summarize the expected annual crash rates in the treated and untreated sites.

Table 39. Expected annual crash rate per mile during before and after periods for the road data

Site	Before	After	Difference in Crash Rate	Percent Reduction in Crash Rate
	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)		
1	1.6 (1.5,1.7)	1.7 (1.5,2.0)	0.1 (-0.1,0.3)	-6.9 (-19.5,6.8)
2	0.5 (0.3,0.6)	0.5 (0.3,0.7)	0.0 (-0.1,0.1)	-3.8 (-24.1,14.3)
3	2.5 (2.3,2.7)	3.1 (2.8,3.4)	0.6 (0.3,0.8)	-24.0 (-34.4,-13.0)
4	0.6 (0.4,0.7)	0.6 (0.4,0.8)	0.0 (-0.1,0.1)	-4.4 (-19.1,10.9)
5	0.7 (0.5,1.0)	0.8 (0.6,1.2)	0.1 (0.0,0.2)	-16.6 (-29.2,-3.3)
6	0.4 (0.3,0.6)	0.5 (0.3,0.7)	0.0 (0.0,0.2)	-12.4 (-45.2,6.6)
7	0.2 (0.1,0.3)	0.2 (0.1,0.3)	0.0 (0.0,0.1)	-12.4 (-45.1,6.6)
8	1.3 (1.2,1.5)	2.5 (2.3,2.7)	1.1 (1.0,1.3)	-85.5 (-97.0,-72.9)
9	4.3 (3.9,4.6)	4.9 (4.5,5.5)	0.7 (0.1,1.2)	-16.6 (-29.2,-3.3)
10	0.1 (0.1,0.2)	0.1 (0.1,0.2)	0.0 (0.0,0.0)	-12.1 (-26.2,2.2)
11	0.6 (0.5,0.8)	0.7 (0.5,0.9)	0.1 (0.0,0.1)	-8.9 (-21.4,5.1)
12	0.8 (0.6,1.0)	0.8 (0.6,1.1)	0.0 (-0.1,0.2)	-4.9 (-17.8,8.7)
13	4.8 (4.5,5.2)	5.6 (5.1,6.2)	0.8 (0.2,1.3)	-16.6 (-29.2,-3.3)
14	2.3 (2.1,2.5)	2.5 (2.2,2.9)	0.3 (0.0,0.6)	-12.1 (-26.2,1.9)
15	2.2 (2.0,2.4)	2.4 (2.0,2.8)	0.2 (-0.1,0.5)	-8.5 (-21.0,5.4)
16	2.2 (1.9,2.5)	2.5 (2.2,2.8)	0.3 (-0.1,0.7)	-12.3 (-37.0,5.0)
17	1.3 (1.0,1.8)	1.9 (1.4,2.5)	0.5 (0.3,0.7)	-39.4 (-50.1,-27.2)
18	1.4 (1.2,1.5)	1.6 (1.4,1.8)	0.2 (0.0,0.4)	-16.6 (-29.2,-3.3)

Table 40. Expected annual crash rate per mile for non-treatment sites

Site	Mean	2.5% quantile	97.5% quantile
19	2.3	2.1	2.5
20	1.4	1.2	1.5
21	0.5	0.3	0.7
22	0.6	0.5	0.8
23	0.3	0.2	0.4

As with the crash frequencies, the crash rates of the treated sites, for the periods before and after the construction of the bypass, were compared to the average of the crash rates of the untreated sites. The difference and percent reduction of these comparisons are presented in Table 41.

Table 41. Comparison of annual crash rate per mile for the road data

Site	Before vs. Average Non-Treatment		After vs. Average Non-Treatment	
	Difference	% Reduction	Difference	% Reduction
	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)
1	0.1 (-0.1,0.3)	-6.9 (-19.5,6.8)	68.6 (54.3,81.2)	-68.8 (-87.2,-51.3)
2	0.0 (-0.1,0.1)	-3.8 (-24.1,14.3)	-55.2 (-69.7,-39.0)	55.0 (38.2,68.1)
3	0.6 (0.3,0.8)	-24.0 (-34.4,-13.0)	166.4 (141.4,193.1)	-166.7 (-195.4,-136.1)
4	0.0 (-0.1,0.1)	-4.4 (-19.1,10.9)	-41.2 (-57.7,-21.0)	41.0 (22.2,54.3)
5	0.1 (0.0,0.2)	-16.6 (-29.2,-3.3)	-69.7 (-80.8,-55.6)	69.5 (57.5,77.9)
6	0.0 (0.0,0.2)	-12.4 (-45.2,6.6)	-66.1 (-81.5,-54.7)	66.0 (55.5,77.1)
7	0.0 (0.0,0.1)	-12.4 (-45.1,6.6)	-87.6 (-100.0,-74.7)	87.5 (74.8,95.4)
8	1.1 (1.0,1.3)	-85.5 (-97.0,-72.9)	16.6 (3.3,29.1)	-16.8 (-30.8,-3.0)
9	0.7 (0.1,1.2)	-16.6 (-29.2,-3.3)	288.6 (251.3,324.0)	-289.0 (-334.2,-241.3)
10	0.0 (0.0,0.0)	-12.1 (-26.2,2.2)	-93.2 (-101.7,-84.5)	93.1 (88.4,96.7)
11	0.1 (0.0,0.1)	-8.9 (-21.4,5.1)	-41.6 (-54.5,-28.0)	41.4 (27.7,52.5)
12	0.0 (-0.1,0.2)	-4.9 (-17.8,8.7)	-39.8 (-56.4,-22.1)	39.6 (22.1,53.9)
13	0.8 (0.2,1.3)	-16.6 (-29.2,-3.3)	305.2 (275.6,338.3)	-305.5 (-352.2,-263.5)
14	0.3 (0.0,0.6)	-12.1 (-26.2,1.9)	110.4 (88.9,136.5)	-110.6 (-141.2,-86.8)
15	0.2 (-0.1,0.5)	-8.5 (-21.0,5.4)	82.8 (62.4,101.6)	-83.0 (-105.9,-58.6)
16	0.3 (-0.1,0.7)	-12.3 (-37.0,5.0)	106.3 (74.2,127.9)	-106.4 (-134.1,-71.0)
17	0.5 (0.3,0.7)	-39.4 (-50.1,-27.2)	-18.8 (-39.0,3.2)	18.8 (-3.3,38.3)
18	0.2 (0.0,0.4)	-16.6 (-29.2,-3.3)	15.2 (-0.8,32.6)	-15.4 (-32.4,0.7)

Table 42 and Figure 18 present the posterior distribution of expected annual crash rates for all treated and untreated sites preceding and following the construction of the bypass.

Table 42. Posterior means and credible sets of average expected annual crash rate per mile for the road data

	Mean	2.5%	97.5%
Non-Treatment	0.99	0.92	1.08
Treatment before	1.54	1.47	1.60
Treatment after	1.83	1.66	2.01

It is observed that, as indicated by the posterior distribution of the slope of the log crash rate contained in Table 31 and described in section 3.6.1, the rate of crashes increased after the construction of the bypass.

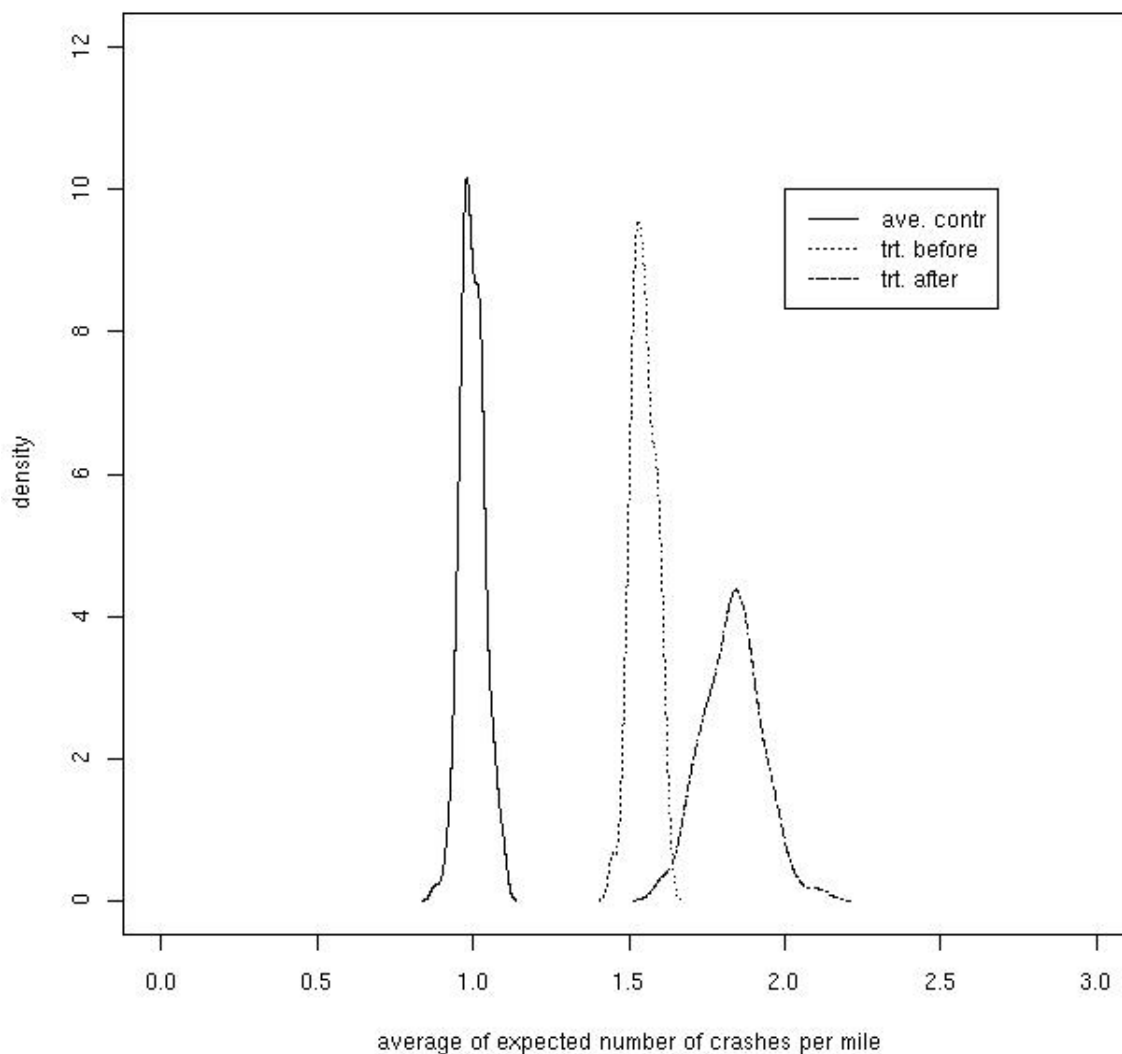


Figure 18. Posterior distributions of expected annual crash rates per mile for the road data

3.6.3 Overall Expected Crash Frequencies (Main Road + Bypass)

This section quantifies the effect of the bypass construction on both the bypass and the main road, using the sum data. As in section 7.1, the expected crash frequencies were computed on the main road before the construction of the bypass. However, after the construction of the bypass the crash frequencies were calculated from the sum of the crashes on the road and on the bypass. These results, their differences, and the percent reductions are presented in Table 43.

Table 43. Expected annual crash frequency per mile during before and after periods for the sum data

Site	Before	After	Difference in Crash Frequency	Percent Reduction in Crash Frequency
	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)		
1	9.4 (8.85,9.90)	4.3 (3.78,5.06)	-5.1 (-5.70,-4.49)	54.26 (47.73,59.28)
2	0.7 (0.48,0.89)	0.2 (0.17,0.33)	-0.4 (-0.57,-0.30)	64.42 (58.16,69.13)
3	5.0 (4.51,5.39)	2.8 (2.59,3.14)	-2.1 (-2.44,-1.78)	42.90 (37.57,47.06)
4	1.2 (0.93,1.57)	0.6 (0.42,0.83)	-0.6 (-0.82,-0.47)	51.81 (43.88,57.83)
5	0.4 (0.29,0.54)	0.4 (0.30,0.60)	0.02 (-0.02,0.07)	-4.97 (-16.56,4.01)
6	0.8 (0.61,1.08)	0.4 (0.29,0.52)	-0.4 (-0.58,-0.31)	52.59 (46.81,57.08)
7	0.3 (0.13,0.60)	0.2 (0.08,0.35)	-0.1 (-0.25,-0.05)	40.78 (33.57,46.39)
8	4.9 (4.44,5.36)	2.5 (2.30,2.73)	-2.4 (-2.72,-2.09)	49.07 (45.63,51.92)
9	13.3 (12.40,14.28)	5.3 (4.83,5.92)	-8.0 (-8.87,-7.14)	60.08 (55.72,63.47)
10	0.2 (0.08,0.28)	0.1 (0.04,0.14)	-0.1 (-0.15,-0.04)	50.55 (44.55,55.22)
11	1.8 (1.49,2.13)	0.7 (0.59,0.90)	-1.1 (-1.31,-0.86)	59.40 (54.06,63.54)
12	1.9 (1.49,2.43)	0.8 (0.60,1.03)	-1.1 (-1.46,-0.84)	58.22 (52.13,62.92)
13	31.3 (29.91,33.08)	17.4 (16.06,19.39)	-13.8 (-15.6,-11.96)	44.24 (38.19,48.93)
14	5.1 (4.69,5.59)	3.3 (2.87,3.76)	-1.8 (-2.16,-1.43)	35.51 (27.70,41.58)
15	4.3 (3.95,4.76)	1.9 (1.60,2.25)	-2.4 (-2.77,-2.12)	56.39 (50.57,60.89)
16	8.7 (8.42,9.06)	4.0 (3.63,4.54)	-4.7 (-5.14,-4.18)	53.81 (48.20,58.17)
17	1.0 (0.78,1.33)	0.9 (0.66,1.14)	-0.2 (-0.26,-0.09)	15.81 (8.90,21.13)
18	4.1 (3.66,4.59)	1.8 (1.59,2.15)	-2.3 (-2.59,-1.94)	55.17 (50.34,58.92)

The treated sites were compared to the untreated sites. The average of the expected annual crash frequencies of the untreated sites obtained from Table 36 was subtracted from the annual crash frequencies of the sum data for the 18 bypassed sites before and after the intervention. The differences and percent reductions in crash frequencies between the treated and the average of the untreated sites are provided in Table 44.

The posterior distributions of the expected annual crash frequencies for untreated sites and the treated sites before and after the construction of the bypass are summarized in Table 45 and plotted in Figure 19. These values indicate the overall effect of the construction of the bypass on crashes. The annual frequency of crashes is expected to decrease on the road and the bypass after the construction of the bypass.

Table 44. Comparison of annual crash frequency per mile for the sum data

Site	Before vs. Average Non-Treatment		After vs. Average Non-Treatment	
	Difference	% Reduction	Difference	% Reduction
	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)
1	7.0 (6.4,7.5)	-288.8 (-327.0,-251.9)	1.9 (1.3,2.6)	-77.9 (-109.0,-53.1)
2	-1.7 (-2.0,-1.5)	72.2 (63.1,80.4)	-2.2 (-2.4,-2.0)	90.1 (86.4,93.1)
3	2.5 (2.1,3.0)	-105.7 (-127.8,-80.1)	0.4 (0.1,0.7)	-17.4 (-31.2,-3.5)
4	-1.2 (-1.5,-0.8)	49.8 (33.0,61.6)	-1.8 (-2.1,-1.5)	75.8 (65.9,82.7)
5	-2.0 (-2.2,-1.8)	83.3 (76.6,87.8)	-2.0 (-2.2,-1.7)	82.5 (74.6,87.5)
6	-1.6 (-1.9,-1.3)	65.7 (55.1,75.2)	-2.0 (-2.3,-1.8)	83.7 (78.4,87.9)
7	-2.1 (-2.4,-1.8)	87.0 (75.6,94.6)	-2.2 (-2.4,-2.0)	92.3 (85.6,96.8)
8	2.5 (2.0,3.0)	-104.1 (-127.1,-80.1)	0.1 (-0.2,0.3)	-3.9 (-15.2,6.3)
9	10.9 (9.9,11.8)	-450.9 (-509.8,-393.6)	2.9 (2.4,3.5)	-119.8 (-148.5,-94.8)
10	-2.2 (-2.4,-2.0)	92.9 (88.1,96.7)	-2.3 (-2.5,-2.2)	96.5 (94.2,98.3)
11	-0.6 (-1.0,-0.2)	25.3 (8.5,39.7)	-1.7 (-1.9,-1.4)	69.7 (60.9,76.1)
12	-0.5 (-1.0,0.1)	21.1 (-3.0,39.4)	-1.6 (-1.9,-1.4)	67.0 (56.7,75.6)
13	28.9 (27.4,30.6)	-1198 (-1310.2,-1087.3)	15 (13.6,17.0)	-623.5 (-721.6,-551)
14	2.7 (2.3,3.2)	-112.8 (-138.1,-92.6)	0.9 (0.5,1.4)	-37.2 (-61.1,-17.2)
15	1.9 (1.4,2.4)	-80.0 (-102.2,-55.9)	-0.5 (-0.8,-0.1)	21.5 (4.0,34.4)
16	6.3 (6.0,6.7)	-262.9 (-292.4,-232.1)	1.6 (1.2,2.1)	-67.6 (-91.3,-47.1)
17	-1.4 (-1.6,-1.1)	56.6 (45.1,67.0)	-1.5 (-1.8,-1.2)	63.5 (52.2,72.6)
18	1.7 (1.2,2.2)	-70.6 (-92.8,-48.3)	-0.6 (-0.9,-0.3)	23.5 (10.9,35.7)

Table 45. Posterior means and credible sets of the expected annual crash frequency per mile for the sum data

	Mean	2.50%	97.50%
Non-Treatment	2.41	2.26	2.59
Treatment Before	5.25	5.11	5.40
Treatment After	2.65	2.44	2.93

3.6.4 Overall Expected Crash Rates (Main Road + Bypass)

The posterior distributions of the sum data for the periods before and after the construction of the bypass, on the treated sites, are presented in Tables 46 and 47. Table 46 contains the comparison of the average of the annual crash rate of the untreated sites (presented in Table 40) to the crash rate of the treated sites obtained using the sum data. Their differences and percent reductions were also obtained and are available in Table 47.

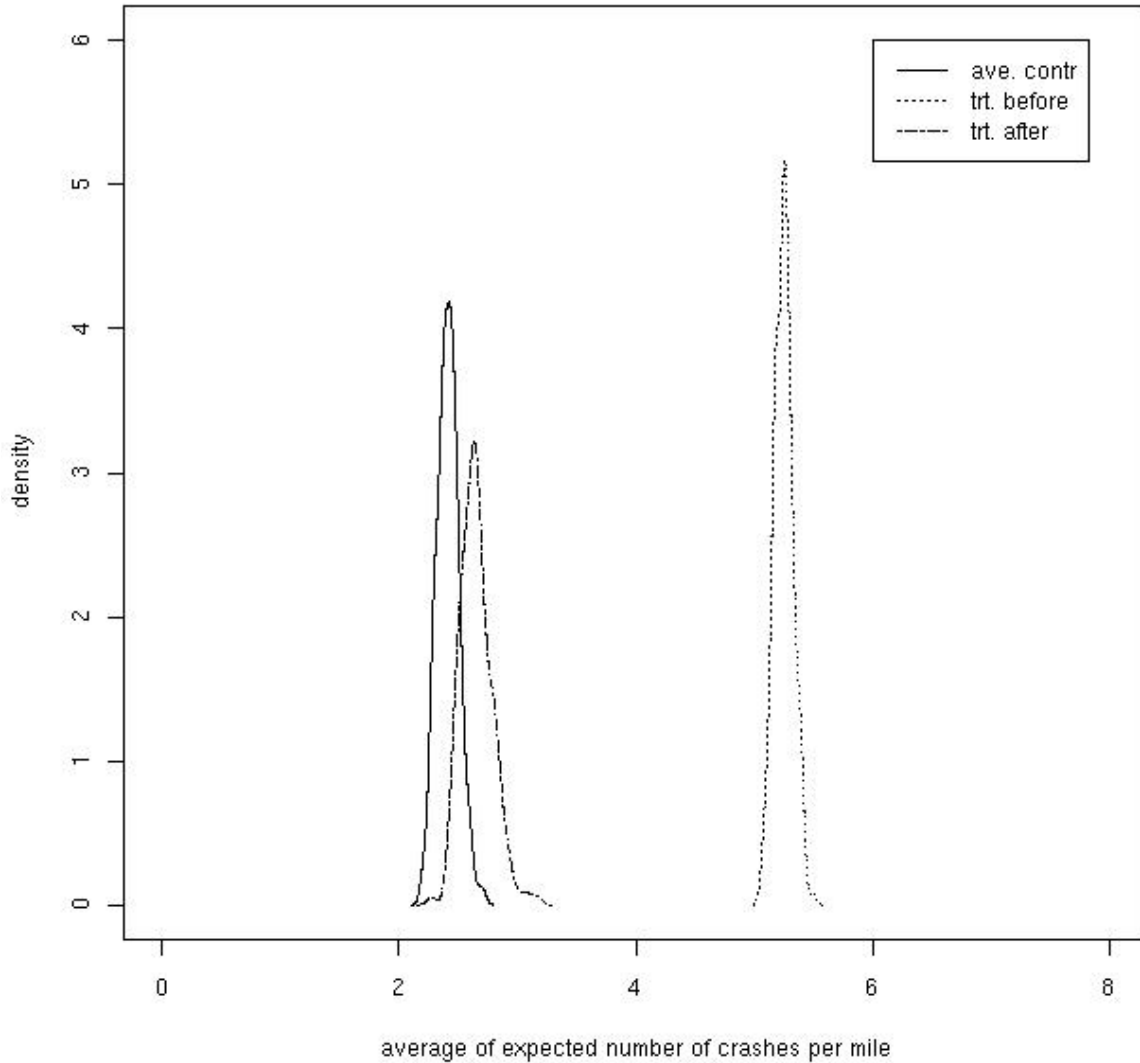


Figure 19. Posterior distributions of expected annual crash frequencies per mile for the sum data

The computed posterior distributions of the expected annual crash rate for the sum data, together with that of the expected crash rate of untreated sites and treated sites before the intervention, are provided in Table 48 and in Figure 20.

Table 46. Expected annual crash rate per mile per site during before and after for the sum data

Site	Before		After		Difference in Crash Rate	Percent Reduction in Crash Rate
	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)		
1	1.7 (1.6,1.8)	1.4 (1.2,1.6)	-0.3 (-0.5,-0.1)	17.6 (6.0,26.6)		
2	0.4 (0.3,0.6)	0.4 (0.3,0.5)	-0.1 (-0.2,0.01)	18.6 (3.5,32.2)		
3	2.7 (2.4,2.9)	2.5 (2.3,2.8)	-0.2 (-0.4,0.7)	6.3 (-2.5,13.2)		
4	0.6 (0.5,0.8)	0.5 (0.3,0.7)	-0.1 (-0.2,-0.03)	18.8 (5.5,28.9)		
5	0.3 (0.2,0.4)	0.3 (0.2,0.4)	-0.04 (-0.1,-0.01)	11.4 (2.3,20.2)		
6	0.3 (0.2,0.5)	0.3 (0.2,0.4)	-0.1 (-0.1,0.03)	13.7 (-9.8,27.4)		
7	0.1 (0.0,0.2)	0.1 (0.0,0.2)	0.02 (-0.1,0.01)	13.7 (-9.8,27.4)		
8	1.2 (1.1,1.3)	1.6 (1.5,1.8)	0.5 (0.4,0.5)	-38.4 (-47.5,-30.8)		
9	3.9 (3.6,4.2)	3.4 (3.1,3.8)	-0.5 (-0.8,-0.1)	11.4 (2.3,20.2)		
10	0.1 (0.0,0.1)	0.1 (0.0,0.1)	0.01 (-0.02,0.00)	14.4 (4.0,24.5)		
11	0.6 (0.5,0.7)	0.5 (0.4,0.6)	-0.1 (-0.2,0.03)	16.0 (4.7,24.2)		
12	0.6 (0.5,0.8)	0.5 (0.4,0.6)	-0.1 (-0.2,0.04)	17.6 (5.6,26.8)		
13	4.1 (3.8,4.4)	3.6 (3.3,4.0)	-0.5 (-0.9,-0.1)	11.5 (2.4,20.3)		
14	2.1 (1.9,2.3)	1.8 (1.6,2.0)	-0.3 (-0.5,-0.1)	14.5 (3.7,24.3)		
15	1.8 (1.7,2.0)	1.5 (1.3,1.8)	-0.3 (-0.5,-0.1)	16.1 (4.8,24.1)		
16	2.1 (1.8,2.2)	1.8 (1.6,2.0)	-0.3 (-0.6,0.06)	13.9 (-3.4,26.3)		
17	0.8 (0.6,1.0)	0.9 (0.6,1.1)	0.04 (0.0,0.1)	-4.6 (-13.0,2.7)		
18	1.2 (1.0,1.3)	1.0 (0.9,1.2)	-0.1 (-0.2,0.02)	11.4 (2.3,20.2)		

Table 47. Comparison of annual crash rate per mile per site for the sum data

Site	Before vs. Average Non-Treatment		After vs. Average Non-Treatment	
	Difference	% Reduction	Difference	% Reduction
	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)
1	0.7 (0.5,0.8)	-68.8 (-87.2,-51.3)	-1.0 (-1.3,-0.8)	42.3 (32.3,50.3)
2	-0.6 (-0.7,-0.4)	55.0 (38.2,68.1)	-2.0 (-2.3,-1.9)	84.9 (79.2,89.5)
3	1.7 (1.4,1.9)	-166.7 (-195.4,-136.1)	0.1 (-0.2,0.4)	-3.5 (-15.8,8.7)
4	-0.4 (-0.6,-0.2)	41.0 (22.2,54.3)	-1.9 (-2.2,-1.7)	80.1 (72.0,85.8)
5	-0.7 (-0.8,-0.6)	69.5 (57.5,77.9)	-2.1 (-2.3,-2.0)	88.8 (83.8,92.0)
6	-0.7 (-0.8,-0.5)	66.0 (55.5,77.1)	-2.1 (-2.3,-2.0)	87.9 (84.0,91.0)
7	-0.9 (-1.0,-0.7)	87.5 (74.8,95.4)	-2.3 (-2.5,-2.1)	95.6 (91.7,98.2)
8	0.2 (0.0,0.3)	-16.8 (-30.8,-3.0)	-0.8 (-1.0,-0.6)	33.0 (25.7,39.6)
9	2.9 (2.5,3.2)	-289.0 (-334.2,-241.3)	1.0 (0.7,1.4)	-42.7 (-61.0,-26.4)
10	-0.9 (-1.0,-0.8)	93.1 (88.4,96.7)	-2.4 (-2.5,-2.2)	97.5 (95.9,98.8)
11	-0.4 (-0.5,-0.3)	41.4 (27.7,52.5)	-1.9 (-2.1,-1.7)	79.6 (73.7,83.9)
12	-0.4 (-0.6,-0.2)	39.6 (22.1,53.9)	-1.9 (-2.1,-1.7)	79.3 (72.9,84.7)
13	3.1 (2.8,3.4)	-305.5 (-352.2,-263.5)	1.2 (0.9,1.6)	-48.7 (-68.7,-34.0)
14	1.1 (0.9,1.4)	-110.6 (-141.2,-86.8)	-0.6 (-0.9,-0.3)	25.4 (12.4,36.2)
15	0.8 (0.6,1.0)	-83.0 (-105.9,-58.6)	-0.9 (-1.2,-0.5)	36.2 (22.2,46.6)
16	1.1 (0.7,1.3)	-106.4 (-134.1,-71.0)	-0.6 (-0.9,-0.4)	26.7 (16.5,35.5)
17	-0.2 (-0.4,0.0)	18.8 (-3.3,38.3)	-1.6 (-1.8,-1.3)	64.8 (53.9,73.6)
18	0.2 (0.0,0.3)	-15.4 (-32.4,0.7)	-1.4 (-1.6,-1.2)	57.7 (50.7,64.3)

Table 48. Posterior means and credible sets of average expected annual crash rate per mile for the sum data

	Mean	2.50% quantile	97.50% quantile
Non-Treatment	1.00	0.93	1.08
Treatment before	1.36	1.30	1.41
Treatment after	1.23	1.13	1.36

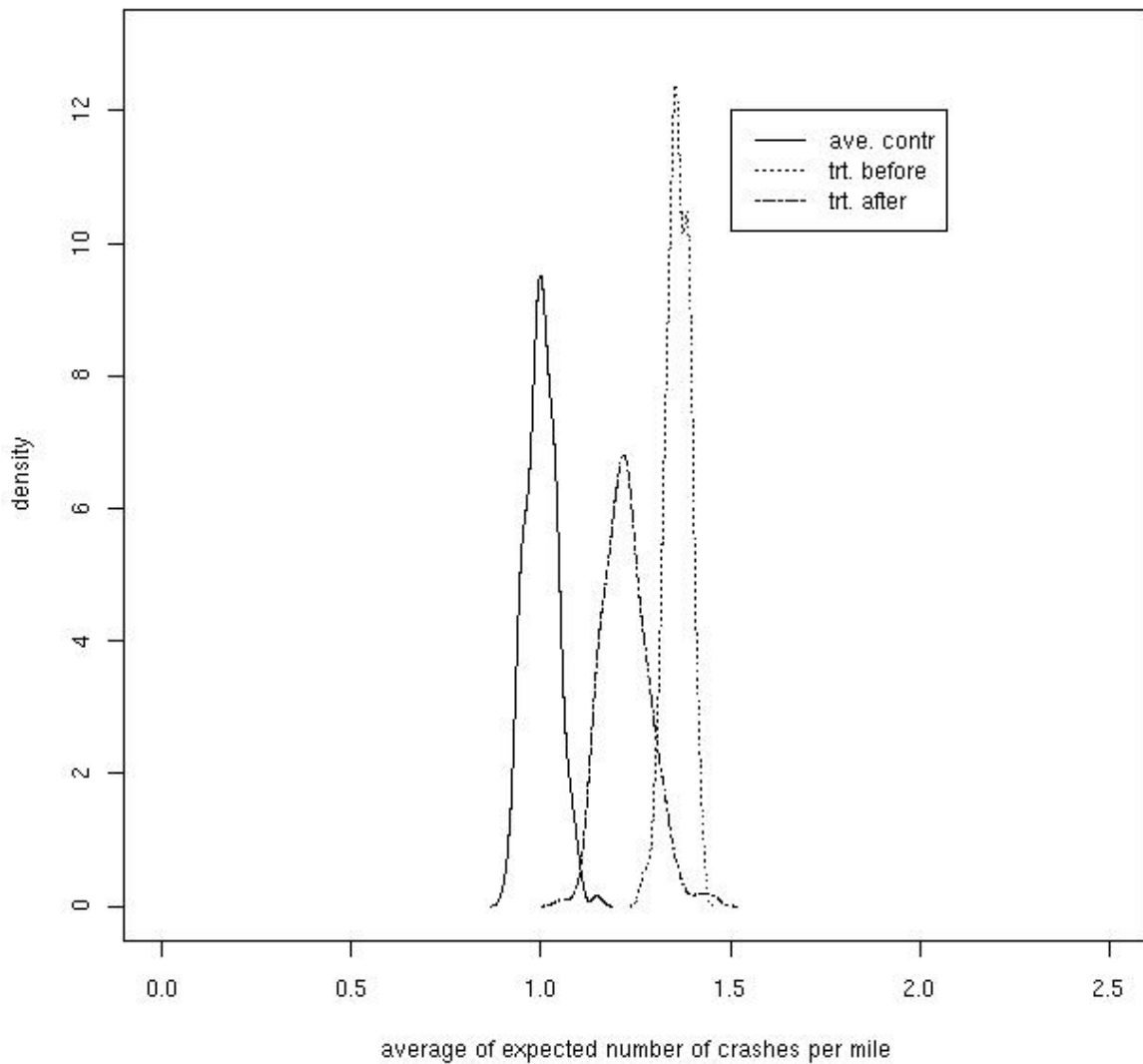


Figure 20. Posterior distributions of expected annual crash rates per mile for the sum data

When considering the accidents on both the main road and the bypass, the expected crash rates tend to decrease after the construction of the bypass

3.7 Conclusion and Discussion

The purpose of this study was to assess the effects of the construction of highway bypasses on the safety of citizenry in Iowa communities. This objective was accomplished by adopting a full Bayesian approach. A hierarchical Poisson model was fitted to the frequency of crashes involving citizens of 23 Iowa communities. The log monthly crash rate was modeled using a piecewise linear regression model with a change point. A random effect was added to the model to estimate the association between log monthly crash rate and explanatory variables. Treatment, time, interactions of treatment and time, and seasonal effects were included in the explanatory variables of the change point regression model. The priors used for all parameters in the model were proper but non-informative. All calculations were carried out using Markov chain Monte Carlo methods.

Data on the 23 sites in Iowa was obtained for the years between 1994 and 2005. Eighteen of the sites were bypassed sometime during the observed period while 5 sites were not bypassed and served as reference sites. At each site only the crashes involving local citizens were counted, and the expected crash frequencies and rates were calculated. The expected crash frequencies and rates were compared between the before and after period and between the treatment and non-treatment sites. In order to assess the effect of the intervention in town and on the bypass, the expected annual crash frequencies and rates were computed for the main road and for the sum of the main road and the bypass at all treated sites.

The estimated parameters and the corresponding credible sets suggest that the model is reasonable and fits the data well. The results for the road data suggest that the number of accidents per mile, after the construction of the bypass decreases at all sites except at sites 14 and 17, which are the only sites that experienced an increase in MADT after the intervention, as shown in Figures 21 and 22.

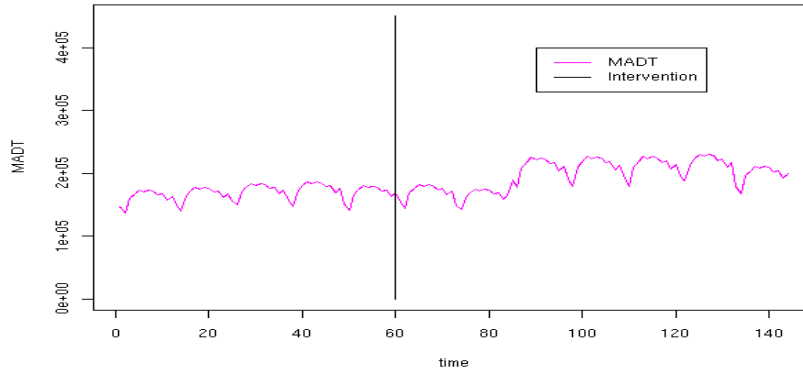


Figure 21. MADT on the main road at site 14

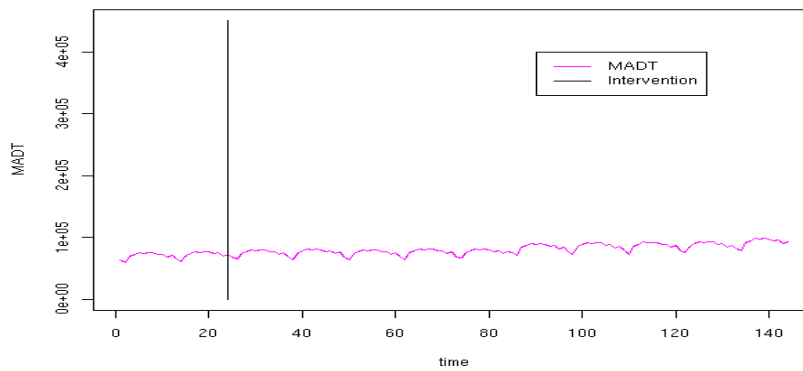


Figure 22. MADT on main road at site 17

When averaged over all treatment sites, the expected number of crashes per mile on the main road decreased after the construction of the bypass, becoming closer to that of the average of the untreated sites. The rate of crashes, however, increased at all sites on the main road, after the construction of the bypass.

When considering the overall effect of the construction of a bypass on the safety of local citizens, i.e. on the sum of the road and the bypass, only site 5 experienced an increase in accident frequency after the construction of the bypass. The MADT at site 5 was observed to significantly increase on the sum of the road and the bypass, as shown in Figure 23.

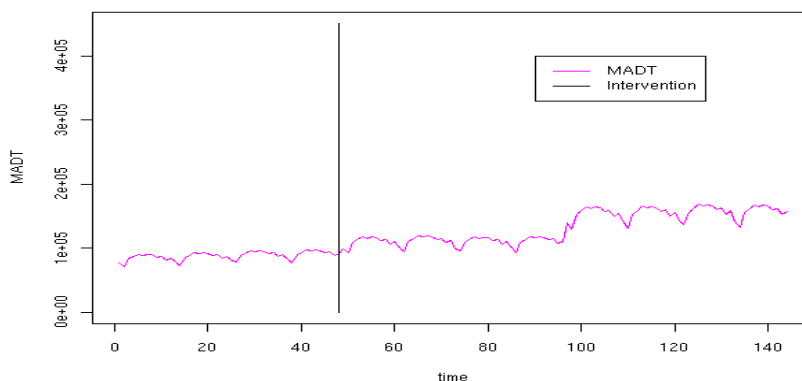


Figure 23. MADT on sum at site 5

When averaged over all treatment sites, the expected number of crashes per mile of the sum data was significantly reduced after the bypass construction, becoming only slightly higher than that of the average of the untreated sites. A similar pattern is observed when comparing the expected crash rates for the sum data.

The results suggest that the rate of local citizens involved in crashes increases on the main road after the construction of the bypass. The shift of long distance traffic to the bypass produces a reduction in traffic volume on the main road, and a decrease in congestion. Traffic speeds may thus increase. This increase in speed is suspected to affect the rates of local citizens involved in accidents. Furthermore, after the construction of the bypass the percent of traffic that carries local citizens on the main road increases dramatically. The probability that a local citizen will be involved in a crash is therefore higher.

3.8 References

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CHAPTER 4. FORECASTING EXPECTED CRASHES

Expected crash frequencies and rates for two selected years following the available data range have been forecasted for each season using the road and sum data. Forecasting crashes for a specific site and a specific month at times that exceed the study period can be difficult. Both the preliminary analysis and the Bayesian analysis described in Chapters 2 and 3 revealed seasonal effects on crash frequencies and rates; therefore, the forecasting has been carried out for each season. In order to gain a better idea of the future behavior of crashes at each site forecasting has been carried out one and three years after the last available year of data (2005).

The crashes are forecasted out of sample prediction hence there is no ADT information to insert in the model in order to carry out the prediction. The observed or estimated 2005 ADT values available in the dataset have been used instead.

The results described in Chapters 2 and 3 suggested that the slope of the log crash rate at sites that were bypassed is steeper after the intervention. This would suggest that the number of accidents in future years is expected to decrease faster at those sites where a bypass was constructed than at the sites that were not bypassed.

4.1 Forecasting Crash Frequency on the Main Road

The posterior predictive distributions of the expected annual crash frequencies per mile on the old road network of each site are computed in Tables 49 and 50. These tables show the predicted expected annual crash frequency per mile for each season during 2006 and 2008, providing the posterior means as well as the 95% credible sets.

Table 49. 2006 posterior distributions of expected number of crashes on the main road per mile

Site	Winter '06	Spring '06	Summer '06	Fall '06
	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)
1	0.46 (0.39,0.53)	0.40 (0.34,0.47)	0.45 (0.38,0.52)	0.46 (0.39,0.54)
2	0.28 (0.22,0.35)	0.25 (0.20,0.31)	0.27 (0.22,0.34)	0.28 (0.23,0.35)
3	0.20 (0.17,0.23)	0.17 (0.15,0.20)	0.19 (0.17,0.22)	0.20 (0.17,0.23)
4	0.10 (0.08,0.12)	0.09 (0.07,0.11)	0.10 (0.08,0.12)	0.10 (0.08,0.12)
5	0.28 (0.23,0.34)	0.25 (0.21,0.30)	0.28 (0.23,0.34)	0.28 (0.23,0.34)
6	0.05 (0.04,0.06)	0.04 (0.03,0.05)	0.05 (0.04,0.06)	0.05 (0.04,0.06)
7	0.04 (0.03,0.05)	0.03 (0.03,0.04)	0.04 (0.03,0.05)	0.04 (0.03,0.05)
8	0.23 (0.19,0.26)	0.20 (0.17,0.23)	0.22 (0.19,0.25)	0.23 (0.20,0.26)
9	0.56 (0.49,0.65)	0.50 (0.43,0.59)	0.55 (0.48,0.64)	0.57 (0.49,0.65)
10	0.12 (0.10,0.15)	0.11 (0.08,0.14)	0.12 (0.10,0.15)	0.13 (0.10,0.15)
11	0.15 (0.12,0.17)	0.13 (0.10,0.15)	0.14 (0.12,0.17)	0.14 (0.12,0.17)
12	0.33 (0.27,0.38)	0.29 (0.24,0.34)	0.32 (0.27,0.38)	0.33 (0.27,0.39)
13	0.97 (0.83,1.15)	0.86 (0.73,0.99)	0.95 (0.81,1.11)	0.98 (0.83,1.13)
14	1.32 (1.13,1.54)	1.17 (1.00,1.36)	1.25 (1.07,1.45)	1.35 (1.16,1.57)
15	0.34 (0.29,0.40)	0.30 (0.26,0.36)	0.33 (0.28,0.40)	0.34 (0.29,0.41)
16	0.31 (0.26,0.36)	0.27 (0.23,0.31)	0.30 (0.26,0.35)	0.31 (0.27,0.36)
17	0.25 (0.22,0.28)	0.22 (0.19,0.25)	0.24 (0.21,0.28)	0.25 (0.22,0.28)
18	0.24 (0.19,0.29)	0.21 (0.17,0.25)	0.23 (0.19,0.28)	0.24 (0.19,0.29)
19	0.10 (0.09,0.12)	0.09 (0.08,0.11)	0.10 (0.09,0.12)	0.10 (0.09,0.12)
20	0.68(0.34,1.18)	0.60 (0.30,1.05)	0.67 (0.34,1.16)	0.69 (0.35,1.19)
21	0.16 (0.13,0.21)	0.14 (0.11,0.18)	0.16 (0.13,0.20)	0.17 (0.13,0.21)
22	0.18 (0.17,0.20)	0.16 (0.15,0.18)	0.18 (0.16,0.20)	0.19 (0.17,0.21)
23	0.12 (0.10,0.15)	0.11 (0.09,0.13)	0.12 (0.10,0.14)	0.12 (0.10,0.15)
24	0.14 (0.12,0.15)	0.12 (0.11,0.14)	0.14 (0.12,0.15)	0.14 (0.12,0.16)
25	0.09 (0.08,0.11)	0.08 (0.07,0.09)	0.09 (0.07,0.11)	0.09 (0.08,0.11)

Table 50. 2008 posterior distributions of expected number of crashes per mile on the main road

Site	Winter '08	Spring '08	Summer '08	Fall '08
	Mean (2.5%,97.5%)	Mean 2.5%,97.5%)	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)
1	0.43 (0.37,0.51)	0.38 (0.32,0.45)	0.42 (0.36,0.50)	0.43 (0.37,0.51)
2	0.26 (0.21,0.33)	0.23 (0.18,0.29)	0.26 (0.21,0.32)	0.26 (0.21,0.33)
3	0.19 (0.16,0.22)	0.16 (0.14,0.19)	0.18 (0.15,0.21)	0.19 (0.16,0.22)
4	0.09 (0.08,0.11)	0.08 (0.07,0.10)	0.09 (.07,0.11)	0.09 (0.08,0.11)
5	0.26 (0.22,0.33)	0.23 (0.19,0.29)	0.26 (0.21,0.32)	0.26 (0.22,0.33)
6	0.05 (0.04,0.06)	0.04 (0.03,0.05)	0.04 (0.03,0.06)	0.05 (0.04,0.06)
7	0.04 (0.03,0.05)	0.03 (0.02,0.04)	0.04 (0.03,0.05)	0.04 (0.03,0.05)
8	0.21 (0.18,0.25)	0.19 (0.16,0.22)	0.21 (0.18,0.24)	0.21 (0.18,0.25)
9	0.53 (0.45,0.62)	0.47 (0.40,0.56)	0.52 (0.44,0.61)	0.53 (0.45,0.62)
10	0.12 (0.09,0.15)	0.10 (0.08,0.13)	0.11 (0.09,0.14)	0.12 (0.09,0.15)
11	0.14 (0.11,0.16)	0.12 (0.10,0.14)	0.13 (0.11,0.16)	0.14 (0.11,0.16)
12	0.31 (0.25,0.36)	0.27 (0.22,0.32)	0.30 (0.25,0.36)	0.31 (0.25,0.36)
13	0.92 (0.78,1.09)	0.81 (0.68,0.95)	0.90 (0.76,1.06)	0.92 (0.78,1.09)
14	1.24 (1.06,1.47)	1.10 (0.93,1.29)	1.17 (0.99,1.38)	1.24 (1.06,1.47)
15	0.32 (0.27,0.39)	0.28 (0.24,0.34)	0.31 (0.27,0.38)	0.32 (0.27,0.39)
16	0.29 (0.25,0.34)	0.26 (0.22,0.30)	0.28 (0.24,0.33)	0.29 (0.25,0.34)
17	0.23 (0.20,0.27)	0.20 (0.18,0.24)	0.23 (0.20,0.26)	0.23 (0.20,0.27)
18	0.22 (0.18,0.27)	0.20 (0.16,0.24)	0.22 (0.18,0.27)	0.22 (0.18,0.27)
19	0.10 (0.08,0.11)	0.09 (0.07,0.10)	0.10 (0.08,0.11)	0.10 (0.08,0.11)
20	0.64 (0.32,1.12)	0.57 (0.29,1.00)	0.63 (0.32,1.10)	0.64 (0.32,1.12)
21	0.16 (0.12,0.20)	0.14 (0.11,0.18)	0.16 (0.12,0.20)	0.16 (0.12,0.20)
22	0.18 (0.16,0.20)	0.16 (0.14,0.18)	0.18 (0.16,0.19)	0.18 (0.16,0.20)
23	0.12 (0.10,0.14)	0.10 (0.09,0.12)	0.12 (0.09,0.14)	0.12 (0.10,0.14)
24	0.14 (0.12,0.15)	0.12 (0.10,0.13)	0.13 (0.12,0.15)	0.14 (0.12,0.15)
25	0.09 (0.07,0.11)	0.08 (0.06,0.09)	0.09 (0.07,0.10)	0.09 (0.07,0.11)

4.2 Forecasting Crash Rate on the Main Road

The posterior predictive distributions of the expected annual crash rates per mile and at each site on the old road network before the intervention are computed in Tables 51 and 52. For each site the posterior mean and the 95% credible set are provided.

Table 51. 2006 posterior distributions of expected crash rates per mile on the main road

Site	Winter '06	Spring '06	Summer '06	Fall '06
	Mean (2.5%,97.5%)	Mean 2.5%,97.5%)	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)
1	0.94 (0.81,1.10)	0.41 (0.35,0.48)	0.66 (0.56,0.77)	0.80 (0.69,0.94)
2	0.62 (0.49,0.77)	0.29 (0.23,0.36)	0.45 (0.37,0.56)	0.47 (0.38,0.58)
3	0.26 (0.22,0.30)	0.21 (0.18,0.24)	0.32 (0.28,0.37)	0.52 (0.45,0.61)
4	0.12 (0.09,0.14)	0.13 (0.10,0.15)	0.17 (0.14,0.20)	0.26 (0.21,0.31)
5	0.44 (0.36,0.54)	0.41 (0.34,0.50)	0.46 (0.38,0.56)	0.70 (0.57,0.85)
6	0.06 (0.04,0.07)	0.07 (0.06,0.09)	0.13 (0.10,0.16)	0.09 (0.07,0.11)
7	0.05 (0.04,0.06)	0.06 (0.05,0.08)	0.10 (0.08,0.13)	0.06 (0.05,0.08)
8	0.42 (0.36,0.48)	0.34 (0.29,0.38)	0.54 (0.47,0.62)	0.29 (0.25,0.33)
9	1.09 (0.94,1.25)	1.34 (1.15,1.58)	0.99 (0.85,1.15)	0.63 (0.55,0.73)
10	0.17 (0.13,0.21)	0.28 (0.22,0.35)	0.18 (0.14,0.23)	0.21 (0.16,0.25)
11	0.23 (0.19,0.27)	0.31 (0.25,0.37)	0.18 (0.15,0.21)	0.26 (0.21,0.31)
12	0.73 (0.61,0.86)	0.52 (0.43,0.61)	0.36 (0.30,0.43)	0.48 (0.40,0.57)
13	2.29 (1.96,2.70)	1.29 (1.10,1.49)	1.60 (1.37,1.86)	0.95 (0.81,1.09)
14	1.75 (1.50,2.04)	1.46 (1.25,1.70)	2.18 (1.87,2.54)	1.41 (1.21,1.64)
15	0.84 (0.72,0.99)	0.35 (0.30,0.41)	0.49 (0.41,0.58)	0.35 (0.30,0.42)
16	0.42 (0.36,0.48)	0.46 (0.39,0.53)	0.29 (0.25,0.34)	0.58 (0.50,0.67)
17	0.20 (0.17,0.22)	0.38 (0.33,0.43)	0.25 (0.22,0.29)	0.45 (0.41,0.51)
18	0.31 (0.25,0.38)	0.30 (0.25,0.37)	0.24 (0.19,0.29)	0.43 (0.35,0.52)
19	0.17 (0.15,0.20)	0.09 (0.07,0.10)	0.19 (0.16,0.22)	0.11 (0.10,0.13)
20	1.06 (0.53,1.83)	0.63 (0.32,1.10)	1.22 (0.62,2.11)	0.71 (0.36,1.22)
21	0.19 (0.15,0.24)	0.15 (0.12,0.18)	0.29 (0.23,0.36)	0.19 (0.15,0.24)
22	0.22 (0.20,0.24)	0.31 (0.28,0.34)	0.20 (0.18,0.21)	0.22 (0.20,0.25)
23	0.17 (0.13,0.20)	0.19 (0.16,0.23)	0.12 (0.10,0.15)	0.18 (0.15,0.21)
24	0.17 (0.15,0.19)	0.21 (0.19,0.24)	0.16 (0.14,0.18)	0.23 (0.20,0.26)
25	0.19 (0.16,0.22)	0.09 (0.07,0.10)	0.11 (0.09,0.13)	0.15 (0.13,0.18)

Table 52. 2008 posterior distributions of expected crash rates per mile on the main road

Site	Winter '08	Spring '08	Summer '08	Fall '08
	Mean (2.5%,97.5%)	Mean 2.5%,97.5%)	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)
1	0.89 (0.75,1.04)	0.39 (0.33,0.46)	0.62 (0.52,0.73)	0.76 (0.64,0.89)
2	0.58 (0.46,0.73)	0.27 (0.21,0.34)	0.43 (0.34,0.54)	0.45 (0.35,0.56)
3	0.24 (0.20,0.29)	0.20 (0.17,0.23)	0.30 (0.26,0.35)	0.49 (0.42,0.58)
4	0.11 (0.09,0.13)	0.12 (0.10,0.15)	0.16 (0.13,0.20)	0.24 (0.20,0.30)
5	0.41 (0.34,0.51)	0.39 (0.32,0.48)	0.44 (0.36,0.54)	0.66 (0.54,0.80)
6	0.05 (0.04,0.07)	0.07 (0.05,0.08)	0.12 (0.09,0.15)	0.08 (0.06,0.10)
7	0.05 (0.03,0.06)	0.06 (0.04,0.07)	0.09 (0.07,0.12)	0.06 (0.04,0.07)
8	0.40 (0.34,0.46)	0.32 (0.27,0.37)	0.51 (0.43,0.59)	0.28 (0.24,0.32)
9	1.03 (0.87,1.19)	1.26 (1.07,1.50)	0.93 (0.79,1.10)	0.60 (0.51,0.69)
10	0.16 (0.12,0.20)	0.27 (0.20,0.33)	0.17 (0.13,0.22)	0.20 (0.15,0.24)
11	0.21 (0.17,0.25)	0.29 (0.23,0.35)	0.17 (0.14,0.20)	0.24 (0.20,0.29)
12	0.69 (0.57,0.82)	0.49 (0.40,0.58)	0.34 (0.28,0.41)	0.45 (0.37,0.55)
13	2.16 (1.83,2.57)	1.21 (1.02,1.42)	1.50 (1.27,1.77)	0.89 (0.75,1.04)
14	1.64 (1.40,1.94)	1.38 (1.16,1.62)	2.05 (1.73,2.42)	1.32 (1.13,1.56)
15	0.79 (0.67,0.95)	0.33 (0.28,0.39)	0.46 (0.39,0.55)	0.33 (0.28,0.40)
16	0.40 (0.34,0.46)	0.43 (0.37,0.50)	0.28 (0.24,0.32)	0.54 (0.46,0.63)
17	0.19 (0.16,0.21)	0.36 (0.31,0.41)	0.24 (0.21,0.27)	0.43 (0.38,0.49)
18	0.29 (0.24,0.36)	0.28 (0.23,0.35)	0.22 (0.18,0.27)	0.40 (0.32,0.49)
19	0.16 (0.14,0.19)	0.08 (0.07,0.10)	0.18 (0.15,0.21)	0.11 (0.09,0.12)
20	1.00 (0.50,1.73)	0.60 (0.30,1.04)	1.15 (0.58,1.99)	0.67 (0.33,1.15)
21	0.19 (0.15,0.24)	0.14 (0.11,0.18)	0.28 (0.22,0.35)	0.19 (0.15,0.24)
22	0.22 (0.20,0.24)	0.30 (0.27,0.34)	0.19 (0.17,0.21)	0.22 (0.20,0.24)
23	0.16 (0.13,0.19)	0.19 (0.15,0.23)	0.12 (0.10,0.14)	0.18 (0.14,0.21)
24	0.17 (0.14,0.19)	0.21 (0.18,0.24)	0.15 (0.13,0.17)	0.23 (0.20,0.25)
25	0.18 (0.15,0.22)	0.08 (0.07,0.10)	0.10 (0.09,0.12)	0.15 (0.12,0.18)

4.3 Forecasting Crash Frequency on the Sum

Tables 53 and 54 show for each site the predicted expected annual crash frequencies for each season during 2006 and 2008 on the sum, providing the posterior means as well as the 95% credible sets.

Table 53. 2006 posterior distributions of expected sum of number of crashes per mile

Site	Winter '06	Spring '06	Summer '06	Fall '06
	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)
1	0.26 (0.22,0.30)	0.22 (0.19,0.26)	0.25 (0.21,0.29)	0.26 (0.23,0.30)
2	0.14 (0.11,0.16)	0.12 (0.10,0.14)	0.13 (0.11,0.16)	0.14 (0.11,0.17)
3	0.11 (0.09,0.13)	0.10 (0.08,0.11)	0.11 (0.09,0.12)	0.11 (0.10,0.13)
4	0.05 (0.04,0.06)	0.04 (0.03,0.05)	0.05 (0.04,0.06)	0.05 (0.04,0.06)
5	0.10 (0.08,0.12)	0.09 (0.07,0.10)	0.09 (0.08,0.11)	0.10 (0.08,0.12)
6	0.05 (0.04,0.05)	0.04 (0.03,0.05)	0.04 (0.03,0.05)	0.05 (0.04,0.05)
7	0.03 (0.02,0.04)	0.03 (0.02,0.04)	0.03 (0.02,0.04)	0.03 (0.02,0.04)
8	0.18 (0.15,0.21)	0.16 (0.13,0.18)	0.17 (0.15,0.20)	0.18 (0.16,0.21)
9	0.23 (0.20,0.27)	0.20 (0.17,0.24)	0.22 (0.19,0.26)	0.23 (0.20,0.27)
10	0.06 (0.05,0.08)	0.06 (0.05,0.07)	0.06 (0.05,0.07)	0.06 (0.06,0.08)
11	0.08 (0.07,0.10)	0.07 (0.06,0.08)	0.08 (0.06,0.09)	0.08 (0.07,0.10)
12	0.16 (0.14,0.19)	0.14 (0.12,0.17)	0.15 (0.13,0.18)	0.17 (0.14,0.19)
13	0.49 (0.42,0.57)	0.42 (0.36,0.49)	0.46 (0.40,0.54)	0.49 (0.43,0.58)
14	0.67 (0.58,0.78)	0.59 (0.49,0.68)	0.62 (0.53,0.72)	0.69 (0.60,0.80)
15	0.17 (0.15,0.20)	0.15 (0.13,0.18)	0.17 (0.14,0.19)	0.18 (0.15,0.21)
16	0.16 (0.14,0.19)	0.14 (0.12,0.16)	0.15 (0.13,0.18)	0.16 (0.14,0.19)
17	0.09 (0.08,0.10)	0.08 (0.07,0.09)	0.09 (0.08,0.10)	0.09 (0.09,0.11)
18	0.19 (0.16,0.23)	0.17 (0.14,0.20)	0.18 (0.15,0.22)	0.20 (0.17,0.23)
19	0.05 (0.05,0.06)	0.05 (0.04,0.05)	0.05 (0.04,0.06)	0.05 (0.05,0.06)
20	0.34 (0.18,0.58)	0.29 (0.16,0.51)	0.32 (0.18,0.55)	0.34 (0.18,0.60)
21	0.17 (0.13,0.21)	0.14 (0.11,0.18)	0.16 (0.13,0.20)	0.17 (0.14,0.22)
22	0.18 (0.17,0.20)	0.16 (0.15,0.17)	0.18 (0.16,0.19)	0.19 (0.17,0.21)
23	0.12 (0.10,0.15)	0.10 (0.08,0.12)	0.12 (0.09,0.14)	0.12 (0.10,0.15)
24	0.14 (0.12,0.16)	0.12 (0.11,0.14)	0.13 (0.12,0.15)	0.14 (0.13,0.16)
25	0.09 (0.08,0.11)	0.08 (0.07,0.09)	0.09 (0.07,0.10)	0.09 (0.08,0.11)

Table 54. 2008 posterior distributions of expected sum of number of crashes per mile

Site	Winter '08	Spring '08	Summer '08	Fall '08
	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)
1	0.23 (0.19,0.27)	0.20 (0.17,0.23)	0.22 (0.18,0.26)	0.23 (0.20,0.27)
2	0.12 (0.10,0.15)	0.10 (0.08,0.13)	0.11 (0.09,0.14)	0.12 (0.10,0.15)
3	0.10 (0.08,0.12)	0.09 (0.07,0.10)	0.09 (0.08,0.11)	0.10 (0.09,0.12)
4	0.04 (0.03,0.05)	0.04 (0.03,0.05)	0.04 (0.03,0.05)	0.04 (0.03,0.05)
5	0.09 (0.07,0.11)	0.08 (0.06,0.09)	0.08 (0.07,0.10)	0.09 (0.07,0.11)
6	0.04 (0.03,0.05)	0.03 (0.03,0.04)	0.04 (0.03,0.05)	0.04 (0.03,0.05)
7	0.03 (0.02,0.04)	0.02 (0.02,0.03)	0.03 (0.02,0.03)	0.03 (0.02,0.04)
8	0.16 (0.14,0.18)	0.14 (0.12,0.16)	0.15 (0.13,0.17)	0.16 (0.14,0.19)
9	0.21 (0.17,0.24)	0.18 (0.15,0.21)	0.20 (0.17,0.23)	0.21 (0.18,0.24)
10	0.06 (0.05,0.07)	0.05 (0.04,0.06)	0.05 (0.04,0.06)	0.06 (0.05,0.07)
11	0.07 (0.06,0.09)	0.06 (0.05,0.07)	0.07 (0.06,0.08)	0.07 (0.06,0.09)
12	0.14 (0.12,0.17)	0.13 (0.10,0.15)	0.14 (0.11,0.16)	0.15 (0.12,0.17)
13	0.43 (0.37,0.51)	0.37 (0.31,0.44)	0.41 (0.35,0.49)	0.44 (0.37,0.52)
14	0.59 (0.50,0.70)	0.52 (0.43,0.61)	0.54 (0.46,0.65)	0.61 (0.52,0.72)
15	0.15 (0.13,0.18)	0.13 (0.11,0.16)	0.15 (0.12,0.17)	0.16 (0.13,0.18)
16	0.14 (0.12,0.17)	0.12 (0.11,0.15)	0.14 (0.12,0.16)	0.15 (0.12,0.17)
17	0.08 (0.07,0.09)	0.07 (0.06,0.08)	0.08 (0.07,0.09)	0.08 (0.08,0.09)
18	0.17 (0.14,0.20)	0.15 (0.12,0.18)	0.16 (0.14,0.20)	0.17 (0.15,0.21)
19	0.05 (0.04,0.06)	0.04 (0.03,0.05)	0.05 (0.04,0.05)	0.05 (0.04,0.06)
20	0.30 (0.16,0.51)	0.26 (0.14,0.45)	0.28 (0.16,0.49)	0.30 (0.16,0.53)
21	0.16 (0.13,0.20)	0.14 (0.11,0.18)	0.15 (0.12,0.20)	0.17 (0.13,0.21)
22	0.18 (0.16,0.20)	0.16 (0.14,0.17)	0.17 (0.16,0.19)	0.19 (0.17,0.21)
23	0.12 (0.10,0.14)	0.10 (0.08,0.12)	0.11 (0.09,0.13)	0.12 (0.10,0.15)
24	0.14 (0.12,0.15)	0.12 (0.10,0.13)	0.13 (0.12,0.15)	0.14 (0.12,0.16)
25	0.09 (0.07,0.10)	0.08 (0.06,0.09)	0.08 (0.07,0.10)	0.09 (0.08,0.11)

4.4 Forecasting Crash Rate on the Sum

Tables 55 to 56 show for each site the predicted expected annual crash rates for each season during 2006 and 2008 on the sum, providing the posterior means as well as the 95% credible sets.

Table 55. 2006 posterior distributions of expected sum of crash rates

Site	Winter '06	Spring '06	Summer '06	Fall '06
	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)
1	0.53 (0.45,0.62)	0.23 (0.20,0.27)	0.36 (0.31,0.42)	0.46 (0.39,0.53)
2	0.30 (0.24,0.36)	0.14 (0.11,0.16)	0.21 (0.17,0.26)	0.23 (0.19,0.28)
3	0.15 (0.12,0.17)	0.12 (0.10,0.14)	0.18 (0.15,0.21)	0.30 (0.26,0.35)
4	0.06 (0.05,0.07)	0.06 (0.05,0.07)	0.08 (0.07,0.10)	0.13 (0.10,0.15)
5	0.15 (0.13,0.18)	0.14 (0.12,0.17)	0.16 (0.13,0.19)	0.25 (0.21,0.30)
6	0.05 (0.04,0.06)	0.06 (0.05,0.08)	0.11 (0.09,0.14)	0.08 (0.07,0.10)
7	0.04 (0.03,0.05)	0.05 (0.04,0.06)	0.08 (0.06,0.10)	0.05 (0.04,0.06)
8	0.33 (0.29,0.38)	0.26 (0.23,0.30)	0.42 (0.36,0.48)	0.23 (0.20,0.27)
9	0.45 (0.38,0.52)	0.54 (0.46,0.63)	0.39 (0.34,0.46)	0.26 (0.23,0.30)
10	0.09 (0.07,0.10)	0.14 (0.12,0.17)	0.09 (0.08,0.11)	0.11 (0.09,0.13)
11	0.13 (0.10,0.15)	0.17 (0.14,0.20)	0.10 (0.08,0.11)	0.14 (0.12,0.17)
12	0.37 (0.31,0.43)	0.25 (0.21,0.30)	0.18 (0.15,0.21)	0.24 (0.20,0.28)
13	1.16 (0.99,1.35)	0.64 (0.54,0.74)	0.78 (0.67,0.91)	0.48 (0.41,0.56)
14	0.89 (0.77,1.04)	0.73 (0.62,0.85)	1.08 (0.93,1.26)	0.72 (0.62,0.84)
15	0.42 (0.36,0.50)	0.17 (0.15,0.20)	0.24 (0.21,0.28)	0.18 (0.16,0.21)
16	0.22 (0.19,0.26)	0.24 (0.20,0.28)	0.15 (0.13,0.17)	0.30 (0.26,0.36)
17	0.07 (0.07,0.08)	0.14 (0.13,0.16)	0.09 (0.09,0.10)	0.17 (0.16,0.19)
18	0.25 (0.22,0.30)	0.24 (0.20,0.29)	0.19 (0.16,0.22)	0.35 (0.30,0.42)
19	0.09 (0.08,0.10)	0.04 (0.04,0.05)	0.10 (0.08,0.11)	0.06 (0.05,0.07)
20	0.52 (0.28,0.90)	0.31 (0.16,0.53)	0.59 (0.32,1.01)	0.35 (0.19,0.62)
21	0.19 (0.15,0.24)	0.15 (0.12,0.19)	0.28 (0.23,0.36)	0.20 (0.16,0.25)
22	0.22 (0.20,0.24)	0.31 (0.28,0.33)	0.19 (0.17,0.21)	0.23 (0.21,0.25)
23	0.16 (0.13,0.20)	0.19 (0.15,0.22)	0.12 (0.10,0.14)	0.18 (0.15,0.22)
24	0.17 (0.15,0.19)	0.21 (0.19,0.24)	0.15 (0.14,0.17)	0.24 (0.21,0.27)
25	0.19 (0.16,0.22)	0.08 (0.07,0.10)	0.10 (0.09,0.12)	0.16 (0.13,0.18)

Table 56. 2008 posterior distributions of expected sum of crash rates

Site	Winter	Spring	Summer	Fall
	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)	Mean (2.5%,97.5%)
1	0.47 (0.40,0.55)	0.20 (0.17,0.24)	0.32 (0.27,0.38)	0.40 (0.35,0.47)
2	0.26 (0.21,0.32)	0.12 (0.10,0.15)	0.19 (0.15,0.23)	0.20 (0.17,0.25)
3	0.13 (0.11,0.15)	0.10 (0.09,0.12)	0.16 (0.13,0.18)	0.26 (0.22,0.31)
4	0.05 (0.04,0.06)	0.05 (0.04,0.07)	0.07 (0.06,0.09)	0.11 (0.09,0.14)
5	0.14 (0.11,0.16)	0.13 (0.10,0.15)	0.14 (0.12,0.17)	0.22 (0.18,0.26)
6	0.05 (0.04,0.06)	0.06 (0.05,0.07)	0.10 (0.08,0.12)	0.07 (0.06,0.09)
7	0.03 (0.03,0.04)	0.04 (0.03,0.05)	0.07 (0.05,0.09)	0.04 (0.03,0.06)
8	0.30 (0.25,0.34)	0.23 (0.20,0.27)	0.37 (0.32,0.43)	0.21 (0.18,0.24)
9	0.40 (0.33,0.47)	0.48 (0.41,0.57)	0.35 (0.30,0.41)	0.23 (0.20,0.27)
10	0.08 (0.07,0.09)	0.13 (0.11,0.15)	0.08 (0.07,0.10)	0.10 (0.08,0.11)
11	0.11 (0.09,0.13)	0.15 (0.12,0.18)	0.09 (0.07,0.10)	0.13 (0.10,0.15)
12	0.33 (0.27,0.38)	0.23 (0.19,0.27)	0.16 (0.13,0.18)	0.21 (0.18,0.25)
13	1.02 (0.87,1.20)	0.56 (0.47,0.67)	0.69 (0.59,0.82)	0.43 (0.36,0.50)
14	0.79 (0.67,0.93)	0.65 (0.54,0.76)	0.95 (0.81,1.13)	0.64 (0.55,0.75)
15	0.38 (0.32,0.45)	0.15 (0.13,0.18)	0.21 (0.18,0.25)	0.16 (0.14,0.19)
16	0.20 (0.16,0.23)	0.21 (0.18,0.25)	0.13 (0.11,0.15)	0.27 (0.23,0.32)
17	0.07 (0.06,0.07)	0.13 (0.11,0.14)	0.08 (0.07,0.09)	0.15 (0.14,0.17)
18	0.23 (0.19,0.27)	0.21 (0.18,0.26)	0.17 (0.14,0.20)	0.31 (0.26,0.38)
19	0.08 (0.07,0.09)	0.04 (0.03,0.05)	0.08 (0.07,0.10)	0.05 (0.04,0.06)
20	0.46 (0.25,0.79)	0.27 (0.15,0.47)	0.52 (0.28,0.89)	0.31 (0.17,0.54)
21	0.19 (0.15,0.24)	0.14 (0.11,0.18)	0.28 (0.22,0.35)	0.19 (0.15,0.25)
22	0.22 (0.20,0.24)	0.30 (0.27,0.33)	0.19 (0.17,0.21)	0.22 (0.20,0.25)
23	0.16 (0.13,0.19)	0.18 (0.15,0.22)	0.12 (0.09,0.14)	0.18 (0.14,0.21)
24	0.17 (0.15,0.19)	0.21 (0.18,0.23)	0.15 (0.13,0.17)	0.23 (0.20,0.26)
25	0.18 (0.15,0.22)	0.08 (0.07,0.10)	0.10 (0.08,0.12)	0.15 (0.13,0.18)

The results from the forecasting analysis show that the expected number of crashes per mile and the expected crash rates indeed tend to decrease faster in the bypassed sites than in the sites which were not bypassed. These results reiterate that the reduction in the expected number of crashes per mile has a steeper negative slope at bypassed sites and that intervention was effective at improving traffic safety by decreasing the number of accidents. Although crashes decrease over time at all sites, the construction of bypasses will continue to improve safety at a faster rate on those Iowa sites that received the intervention.

CHAPTER 5. GENERAL CONCLUSIONS AND RECOMMENDATIONS

5.1 Conclusions

Traffic safety-related problems have been researched for many years following various methodologies and statistical techniques. Due to their widespread understanding and ease of use, classical statistical methods have been widely used. However, the relatively recent inexpensive access to powerful computers and the development of advanced statistical techniques have led to for the application of Bayesian statistics traffic safety research.

This research adopted a Bayesian approach to assess the impacts of the construction of highway bypasses on the traffic safety of the combination of local and long distance travelers driving through the bypassed location, and the safety of the road travelers residing in the bypassed location. Additionally the impact on traffic safety has been assessed on the old road network consisting of the main road through town, and on the new road network consisting of the main road through town and the newly constructed bypass.

The study consisted of two parts. The first part analyzed monthly crash data for 25 sites in Iowa over a period between 1982 and 2005. Nineteen of the sites were bypassed during the study period while 6 sites were not bypassed. The un-bypassed sites served as reference sites. A preliminary analysis suggested the use of a hierarchical Poisson model fitted to the crash frequency observed at each site. The model took into account seasonal effects, treatment, time, and interactions for treatment and time. The association between monthly crash rate and explanatory variables was estimated with the use of a random effect included in the model. Proper but non-informative priors have been used for all parameters, and the calculations have been carried out using Markov Chain Monte Carlo methods.

The posterior means obtained were used to calculate the expected annual accident frequencies and rates at each study site. The expected annual accident frequencies and rates

were compared for the periods before and after the bypass construction. Subsequently the expected annual accident frequencies and rates at each site were compared to the average of the accident frequencies and rates of the reference sites. The estimated parameters and the results from the posterior predictions suggested that the model was reasonable and fitted the data well.

Moreover the results indicated that the construction of highway bypasses in Iowa appears to be associated with an increase in traffic safety by the reduction of the number of crashes both on the old and new road networks at least in the state of Iowa and on the type of roads considered in the study. The crash frequencies on average were reduced 50% on the old road network and 62% on the new road network. The crash rates on average were reduced 33% on the old road network and 59% on the new road network.

One concern in observational studies is sampling bias. If the sites chosen to receive a bypass had a worse safety record than those that did not receive a bypass, then the effect of the intervention on safety will be overestimated. Treated and untreated sites in this study were compared in terms of safety and other characteristics during the years preceding the intervention and it was found that the untreated sites appear to be safer on average than the treated sites. Anticipating that the Iowa DOT allocates its resources where the perceived is greatest, this bias is expected.

Because of the potential selection bias it is necessary to interpret the results cautiously. Sites 20-25 for the data including all crashes, and 19-23 for the citizens only data have been used as reference sites in this study with the understanding that the estimated positive impacts of the bypass on safety might have been overstated. Selection bias is difficult to overcome without the benefit of a designed experiment, where sites are randomly allocated to the intervention and control group. The hope of this study was to ameliorate somewhat the effects of selection bias by considering crash information over a period of at

least 12 years at each site for the citizens data and of at least 21 years for the comprehensive data.

In order to forecast the expected crashes for each of the 25 study sites, predictions were computed for each season of two selected years following the available data range: 2006 and 2008. The expected crash rates and expected number of crashes per mile during those years decrease more rapidly at bypassed sites than at reference sites.

The main objective of the second part of the study was to assess the safety of citizens of the bypassed communities and analyze data on 23 out of the 25 sites over the years between 1994 and 2005. The time range was dictated by the lack of information on driver's residence prior to 1994. Two of the original 25 sites were excluded from this part of the analysis due to the fact that in one site the bypass was built before 1994 and there were no accidents found involving local citizens in the other site. Five of the study sites were not bypassed and served as reference sites. For all 23 sites in this part of the study only the accidents involving residents of the sites were considered. The same approach and model used in the first part of the study was also employed here, and expected crash frequencies and rates were calculated from the posterior means obtained from the analysis.

The results of this second analysis also suggested that the model was a good fit for the data. The expected crash frequency on the old road network after the construction of the bypass decreased 38% on average. However, the crash rate increased 20% on average. On the new road network the average crash frequency decreased on average 47%. The average crash rate on the new road network decreased on average 10%. The increase in crash rate on the old road network may be attributed to many variables among which a reduction in traffic volume on the main road.

5.2 Recommendations

The results of this research are reassuring and suggest that they could be incorporated by the Iowa DOT in the decision process for selecting new bypass locations. Using available data for safety improvement locations a preliminary and Bayesian analysis similar to those implemented in this work can produce results for forecasting the expected decrease in crash rates at those sites.

In order to more precisely assess the cause of the increase in accidents involving local citizens on the old road network, more detailed data could be collected. First, traffic speeds could be surveyed on the main roads before and after the construction of a bypass. Second, observational data regarding driver behavior could also be collected at certain sites. These pieces of information, though labor-intensive, would aid in providing a more informed assessment of the cause of crash rate increase.

Additionally, study of crash and injury severity changes may add to this assessment. Even though crash rate may increase, if total crashes and severity of crashes and injuries have declined, it may be that the overall safety benefit remains positive.

This research has highlighted the impact of weather on crash frequencies and rates. Future reports should also collect information on road conditions and traffic volume by season. Road conditions may also need to be included in the police crash reports to help better understand if the increase of crashes in the colder seasons is due to an increase in traffic volume or to the road conditions. However, it is recognized that both these data collection efforts could prove labor-intensive.

More aspects of the impact of the construction of bypasses can be examined. This research was performed on road sections that extend for a few miles. Future research should investigate the crashes at the junction of the bypass and the road through town both at the point where the two roads split off and at the point where they tie back. This could also be done by segmenting the roads and looking at stretches of $\frac{1}{4}$ mile in length. It may also be of

interest to investigate the impact of the construction of bypasses in Iowa on injury crashes by isolating those types of crashes from the crash databases, although it is recognized that this may reduce the number of crashes to a point where analysis and interpretation are difficult.

An aspect that may improve before and after studies such as those described in this thesis, would be to define appropriate matching criteria and identify control sites to match each bypassed site. This approach would allow for further comparison of treatment and control sites.

APPENDIX A. MADT PLOTS

MADT plotted at all study sites (SID). The solid vertical line represents the intervention date.

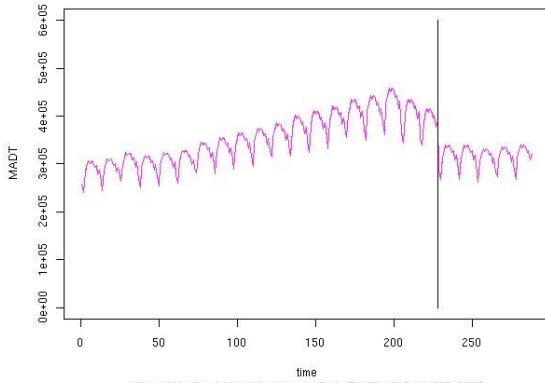


Figure 1A. Road Monthly Average Daily Traffic, SID-1,1982-2005

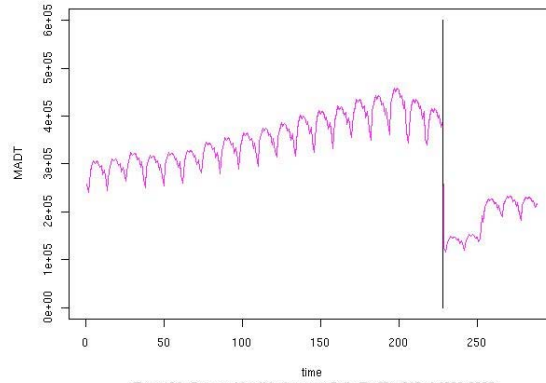


Figure 2A. Bypass Monthly Average Daily Traffic, SID-1,1982-2005

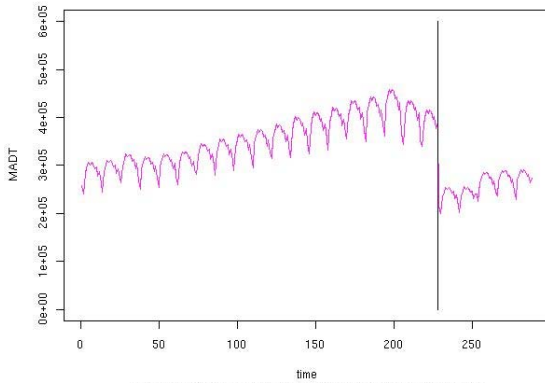


Figure 3A. Sum Monthly Average Daily Traffic, SID-1,1982-2005

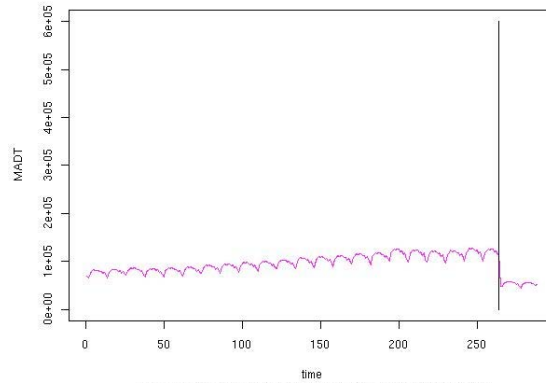


Figure 4A. Road Monthly Average Daily Traffic, SID-2,1982-2005

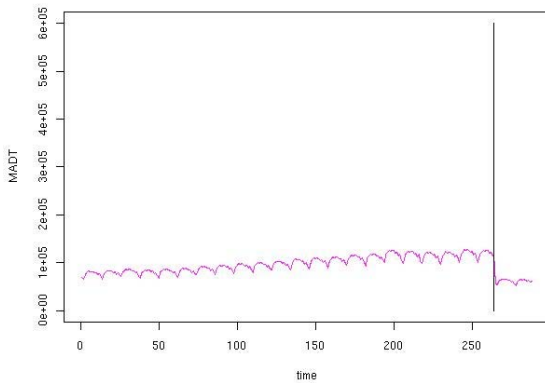


Figure 5A. Bypass Monthly Average Daily Traffic, SID-2,1982-2005

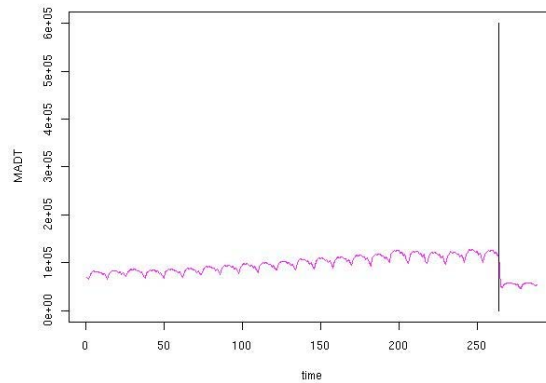


Figure 6A. Sum Monthly Average Daily Traffic, SID-2,1982-2005

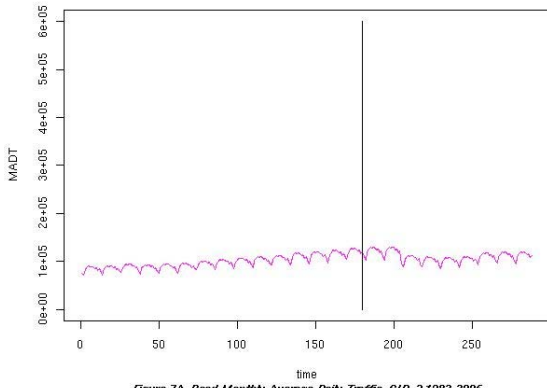


Figure 7A. Road Monthly Average Daily Traffic, SID-3,1982-2005

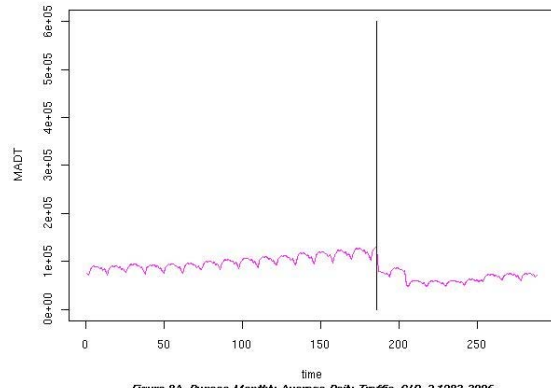


Figure 8A. Bypass Monthly Average Daily Traffic, SID-3,1982-2005

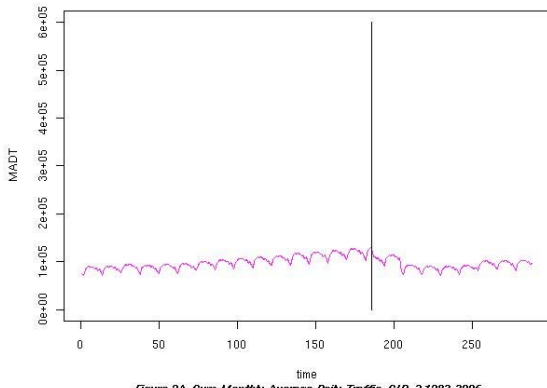


Figure 9A. Sum Monthly Average Daily Traffic, SID-3,1982-2005

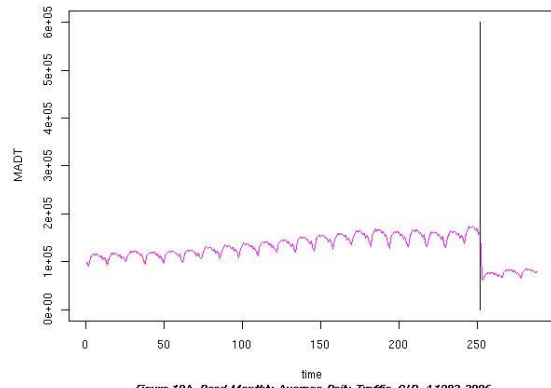


Figure 10A. Road Monthly Average Daily Traffic, SID-4,1982-2005

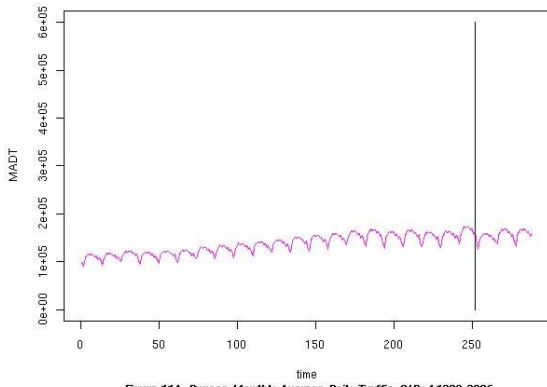


Figure 11A. Bypass Monthly Average Daily Traffic, SID-4,1982-2005

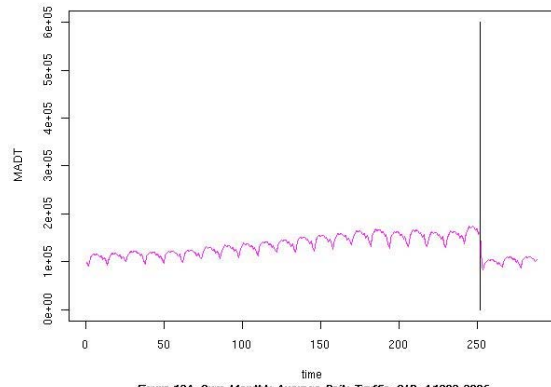


Figure 12A. Sum Monthly Average Daily Traffic, SID-4,1982-2005

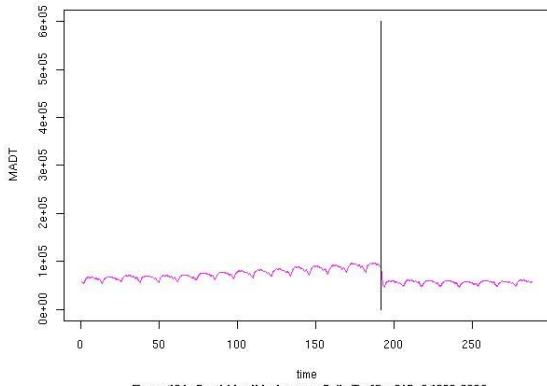


Figure 13A. Road Monthly Average Daily Traffic, SID-5,1982-2005

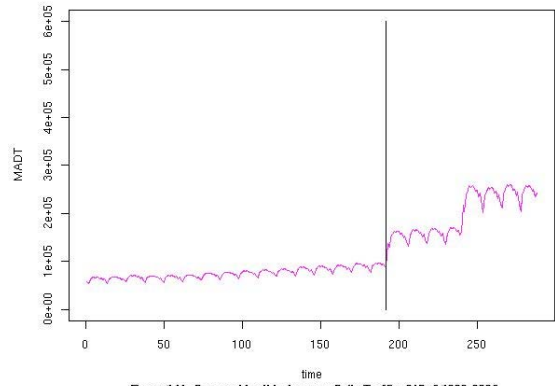


Figure 14A. Bypass Monthly Average Daily Traffic, SID-5,1982-2005

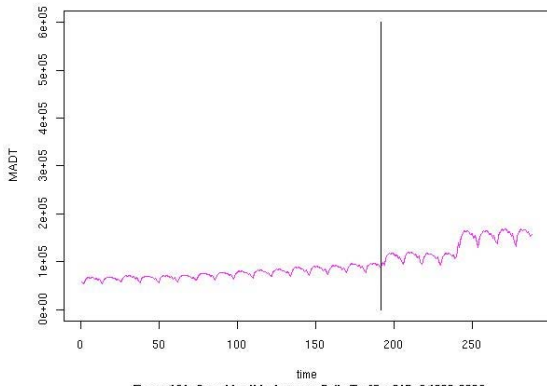


Figure 15A. Sum Monthly Average Daily Traffic, SID-5,1982-2005

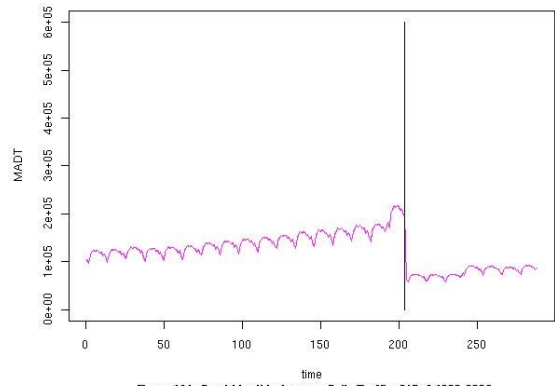


Figure 16A. Road Monthly Average Daily Traffic, SID-6,1982-2005

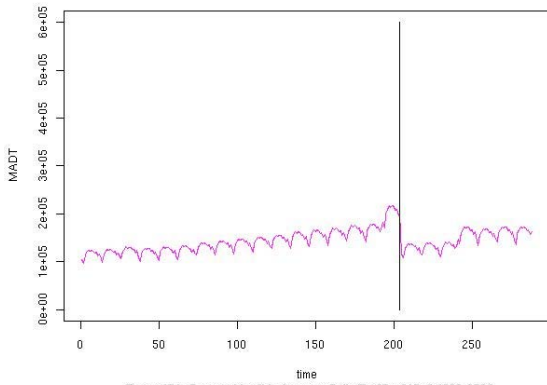


Figure 17A. Bypass Monthly Average Daily Traffic, SID-6,1982-2005

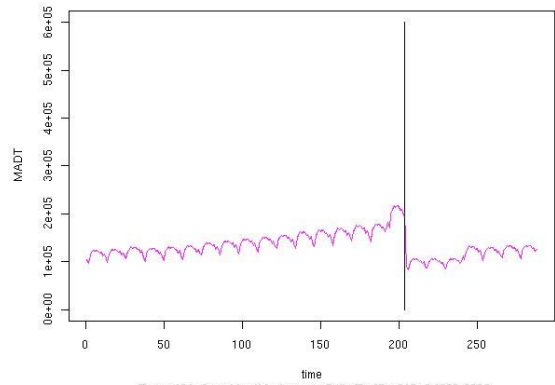


Figure 18A. Sum Monthly Average Daily Traffic, SID-6,1982-2005

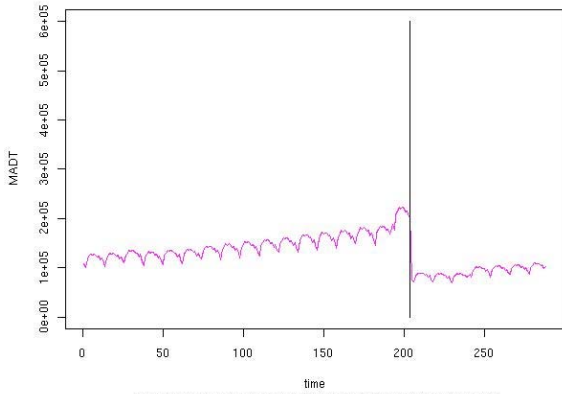


Figure 19A. Road Monthly Average Daily Traffic, SID-7,1982-2005

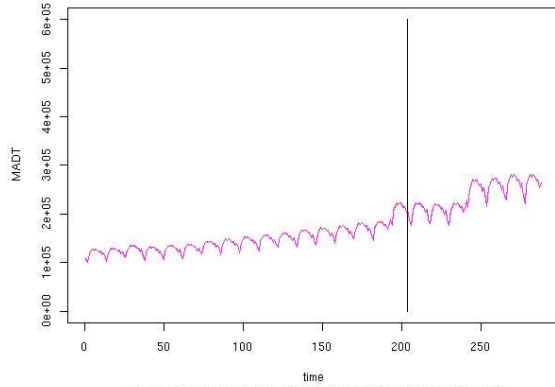


Figure 20A. Bypass Monthly Average Daily Traffic, SID-7,1982-2005

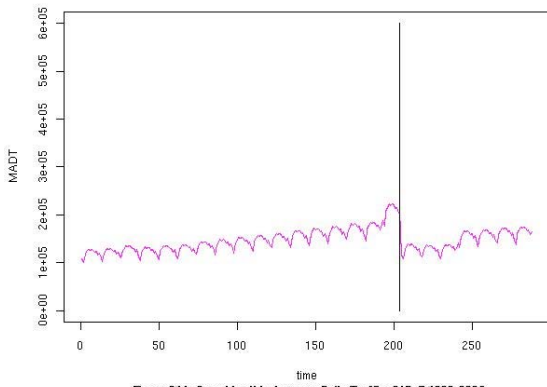


Figure 21A. Sum Monthly Average Daily Traffic, SID-7,1982-2005

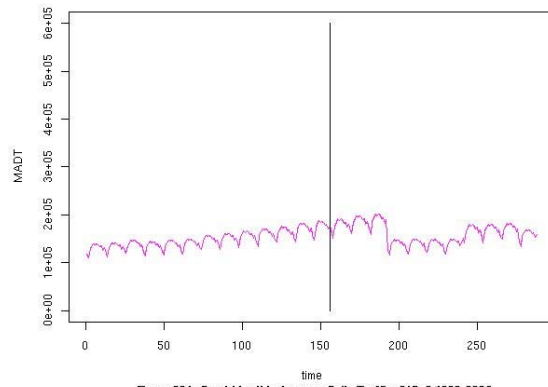


Figure 22A. Road Monthly Average Daily Traffic, SID-8,1982-2005

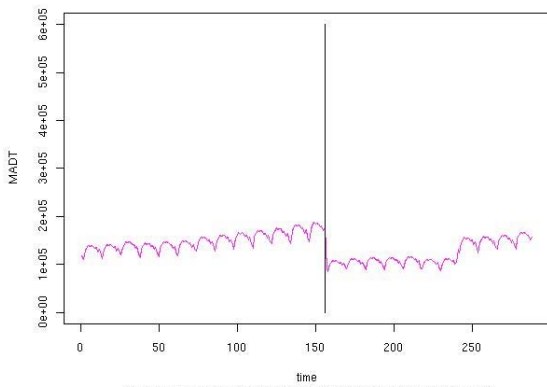


Figure 23A. Bypass Monthly Average Daily Traffic, SID-8,1982-2005

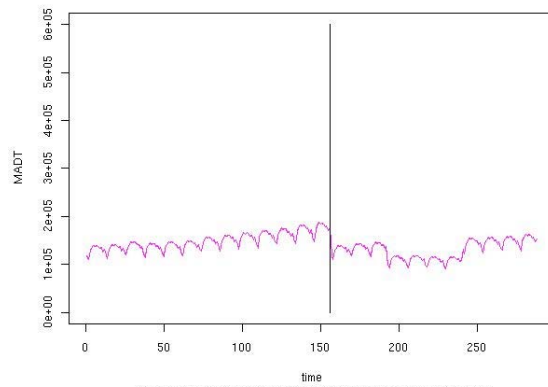


Figure 24A. Sum Monthly Average Daily Traffic, SID-8,1982-2005

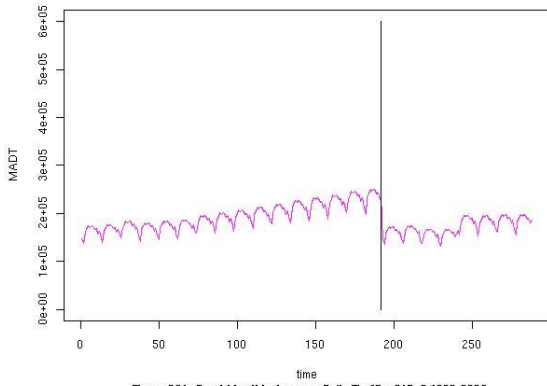


Figure 25A. Road Monthly Average Daily Traffic, SID-9,1982-2005

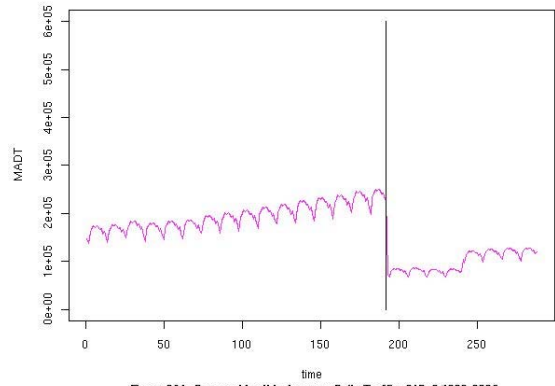


Figure 26A. Bypass Monthly Average Daily Traffic, SID-9,1982-2005

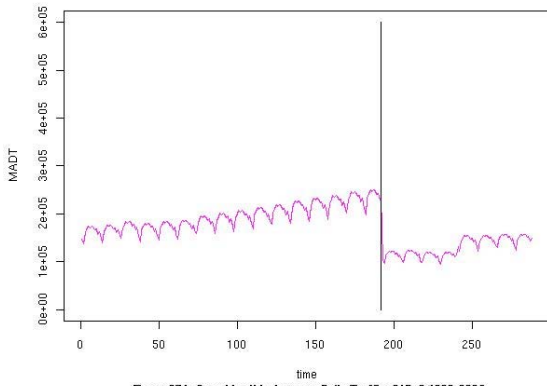


Figure 27A. Sum Monthly Average Daily Traffic, SID-9,1982-2005

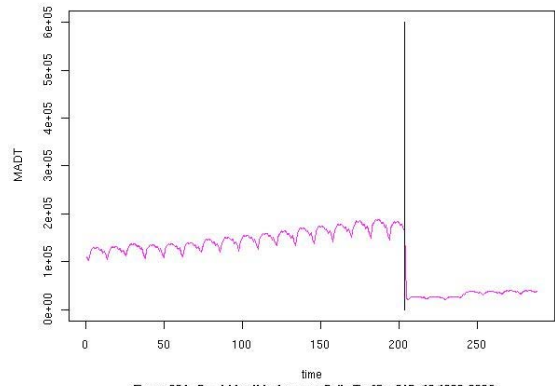


Figure 28A. Road Monthly Average Daily Traffic, SID-10,1982-2005

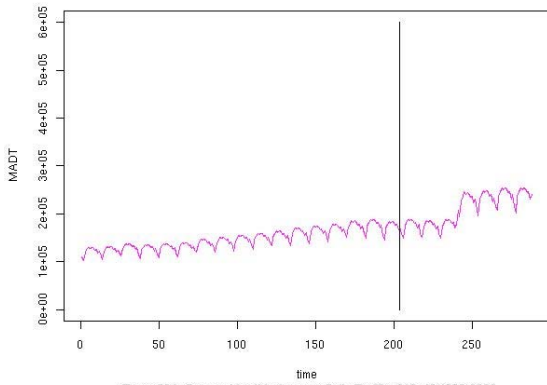


Figure 29A. Bypass Monthly Average Daily Traffic, SID-10,1982-2005

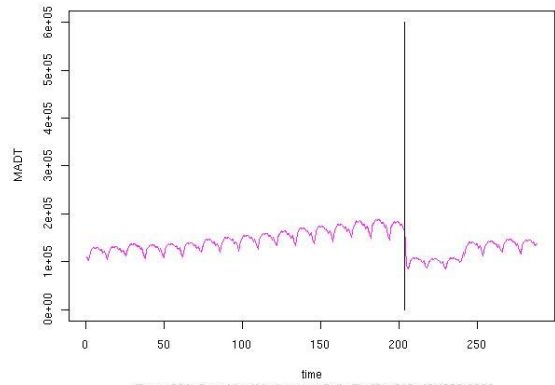


Figure 30A. Sum Monthly Average Daily Traffic, SID-10,1982-2005

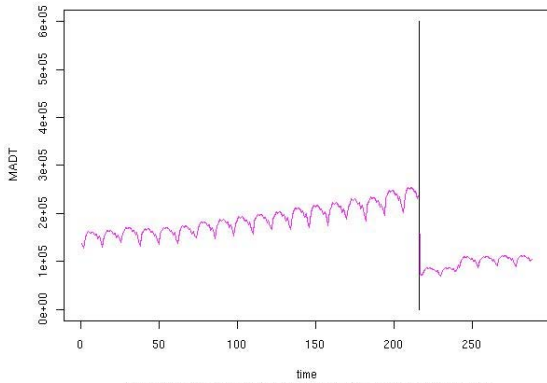


Figure 31A. Road Monthly Average Daily Traffic, SID=11,1982-2005

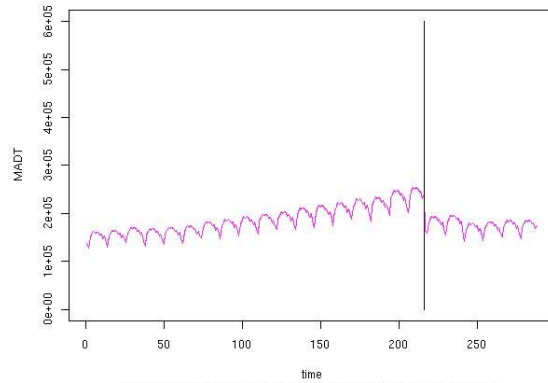


Figure 32A. Bypass Monthly Average Daily Traffic, SID=11,1982-2005

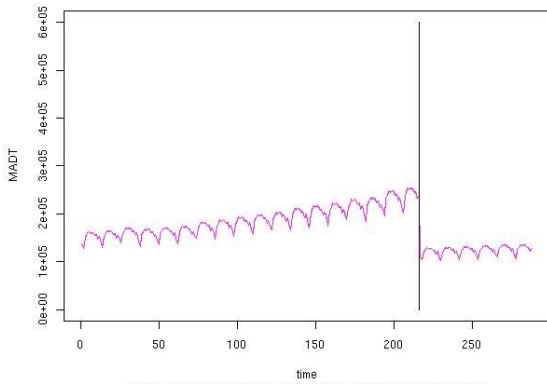


Figure 33A. Sum Monthly Average Daily Traffic, SID=11,1982-2005

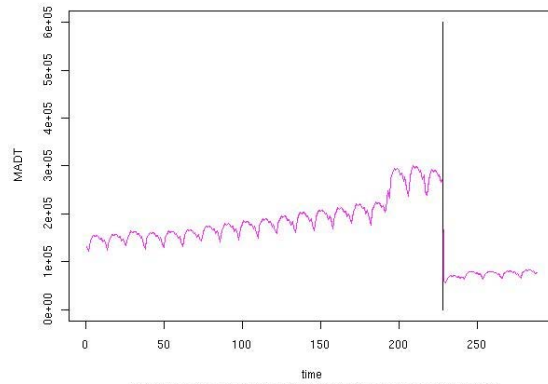


Figure 34A. Road Monthly Average Daily Traffic, SID=12,1982-2005

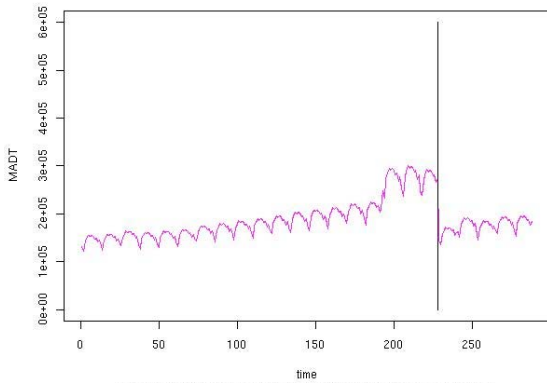


Figure 35A. Bypass Monthly Average Daily Traffic, SID=12,1982-2005

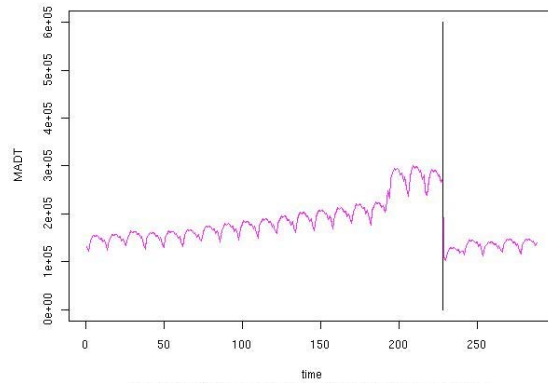


Figure 36A. Sum Monthly Average Daily Traffic, SID=12,1982-2005

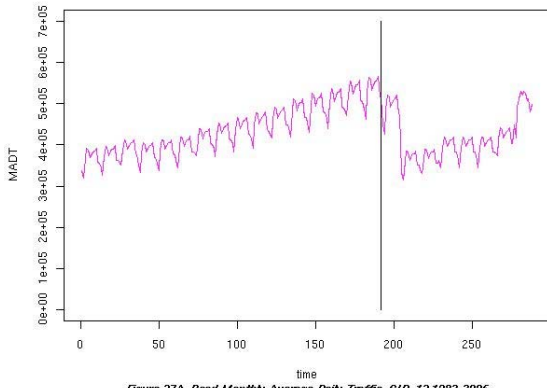


Figure 37A. Road Monthly Average Daily Traffic, SID-T3,1982-2005

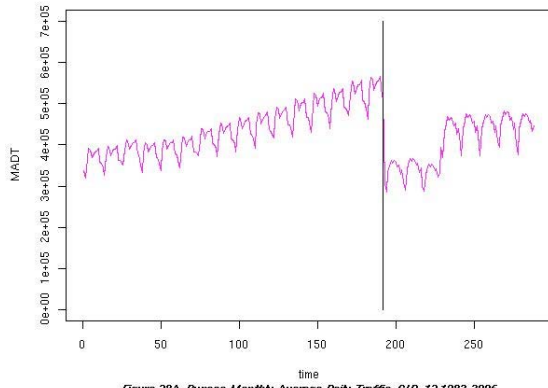


Figure 38A. Bypass Monthly Average Daily Traffic, SID-T3,1982-2005

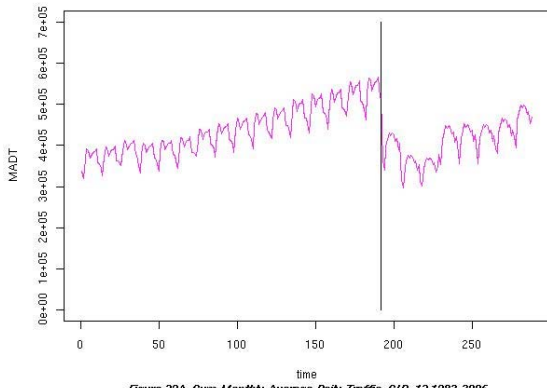


Figure 39A. Sum Monthly Average Daily Traffic, SID-T3,1982-2005

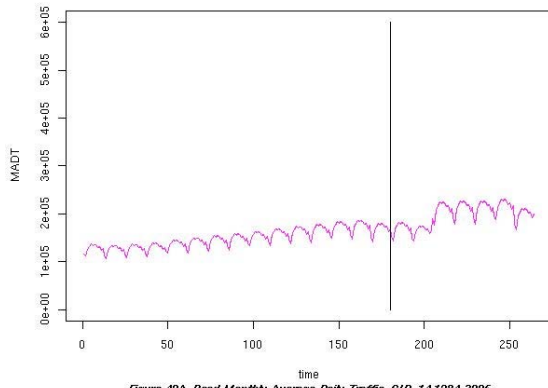


Figure 40A. Road Monthly Average Daily Traffic, SID-T4,1984-2005

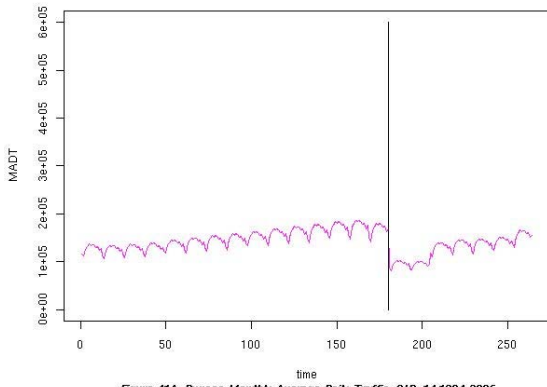


Figure 41A. Bypass Monthly Average Daily Traffic, SID-T4,1984-2005

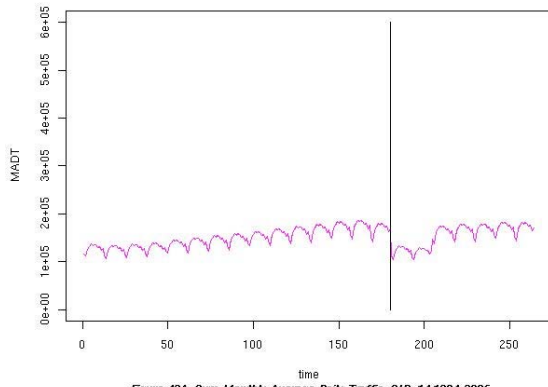


Figure 42A. Sum Monthly Average Daily Traffic, SID-T4,1984-2005

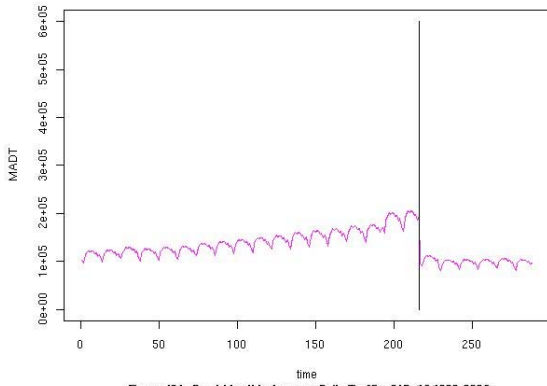


Figure 43A. Road Monthly Average Daily Traffic, SID=15,1982-2005

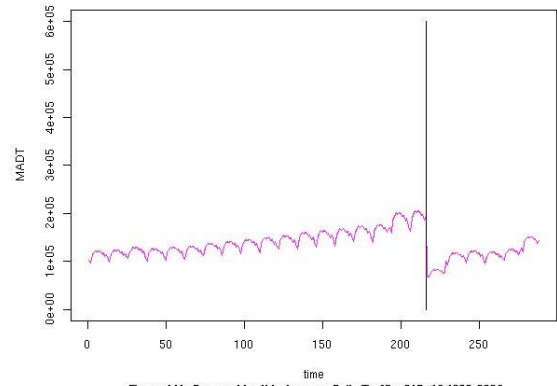


Figure 44A. Bypass Monthly Average Daily Traffic, SID=15,1982-2005

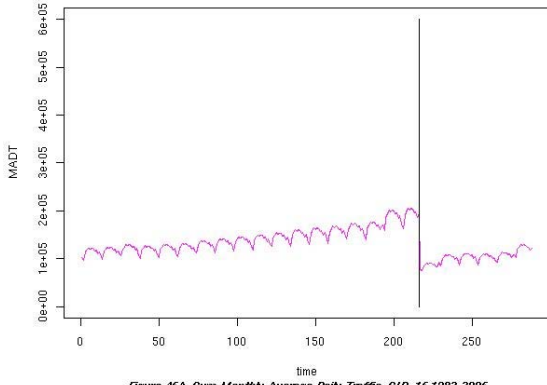


Figure 45A. Sum Monthly Average Daily Traffic, SID=15,1982-2005

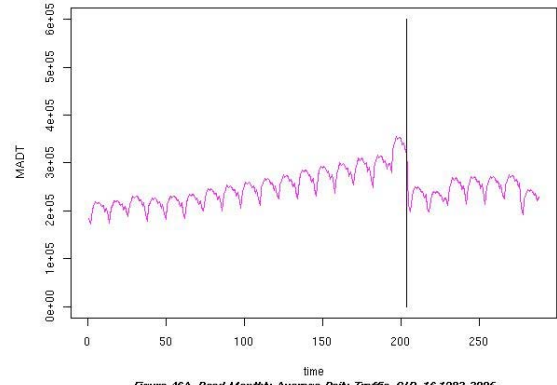


Figure 46A. Road Monthly Average Daily Traffic, SID=16,1982-2005

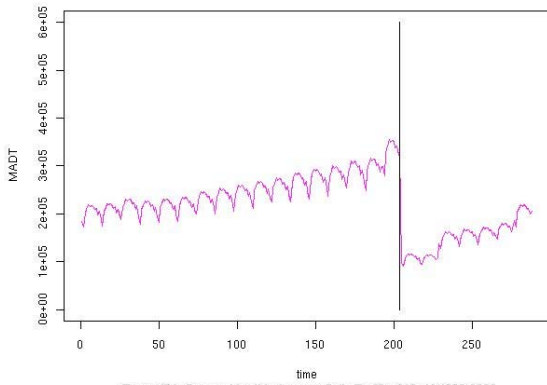


Figure 47A. Bypass Monthly Average Daily Traffic, SID=16,1982-2005

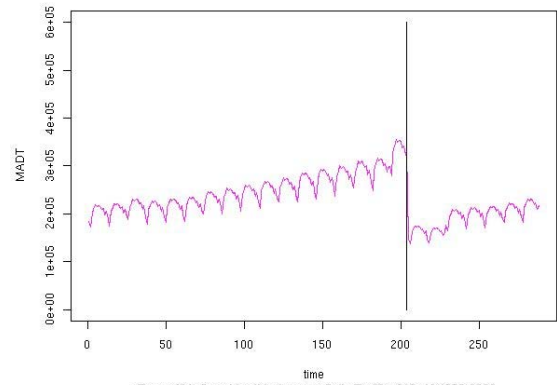


Figure 48A. Sum Monthly Average Daily Traffic, SID=16,1982-2005

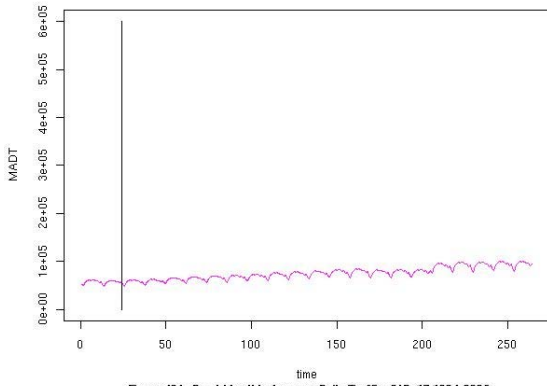


Figure 49A. Road Monthly Average Daily Traffic, SID=17,1984-2005

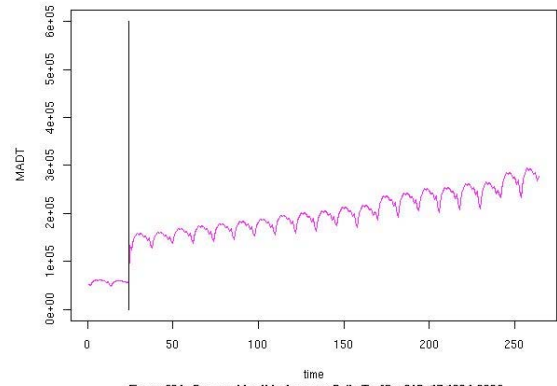


Figure 50A. Bypass Monthly Average Daily Traffic, SID=17,1984-2005

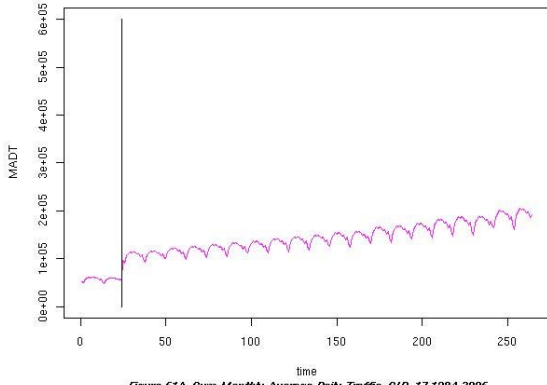


Figure 51A. Sum Monthly Average Daily Traffic, SID=17,1984-2005

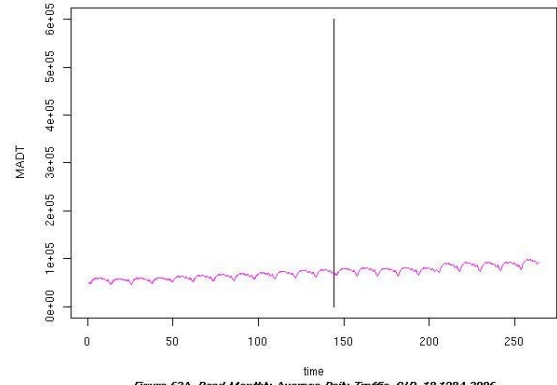


Figure 52A. Road Monthly Average Daily Traffic, SID=18,1984-2005

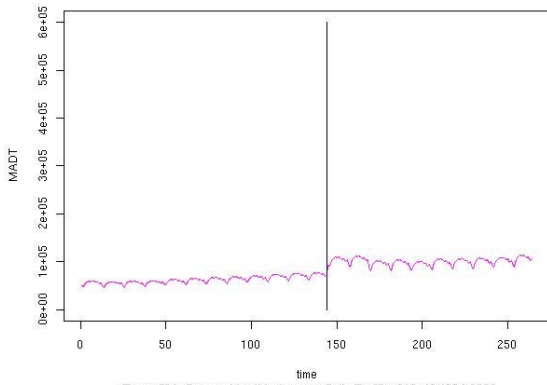


Figure 53A. Bypass Monthly Average Daily Traffic, SID=18,1984-2005

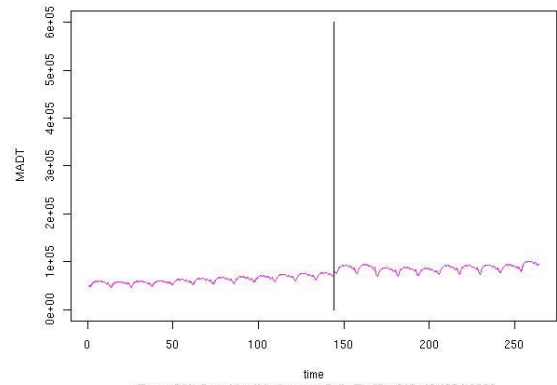


Figure 54A. Sum Monthly Average Daily Traffic, SID=18,1984-2005

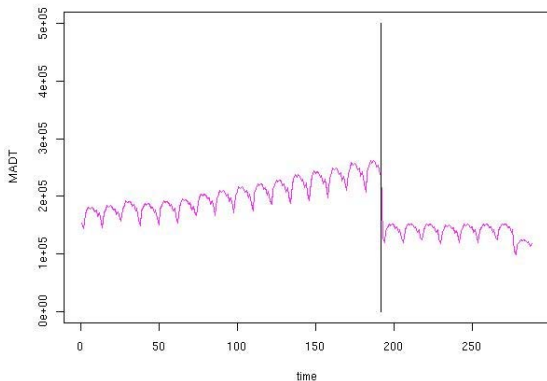


Figure 55A. Road Monthly Average Daily Traffic, SID-19,1982-2005

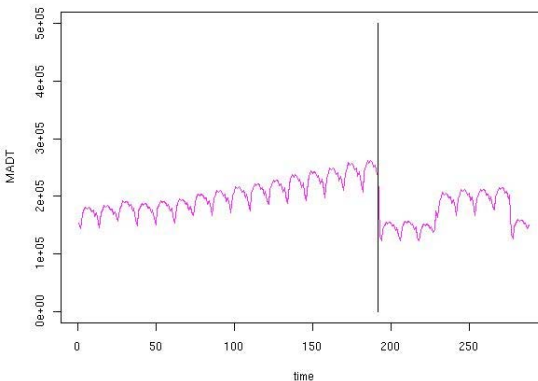


Figure 56A. Bypass Monthly Average Daily Traffic, SID-19,1982-2005

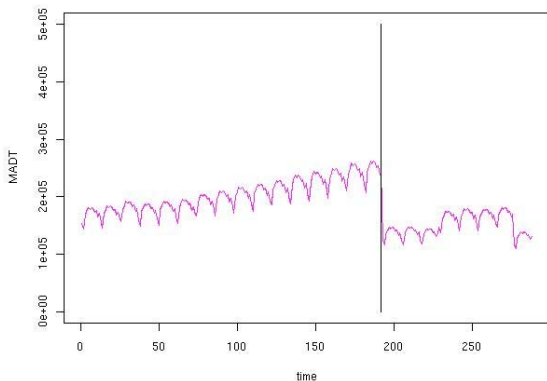


Figure 57A. Sum Monthly Average Daily Traffic, SID-19,1982-2005

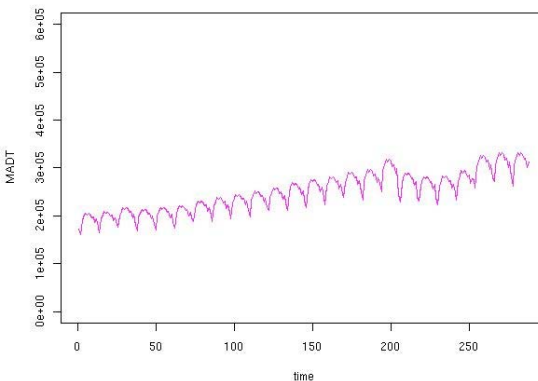


Figure 58A. Monthly Average Daily Traffic, SID-20,1982-2005

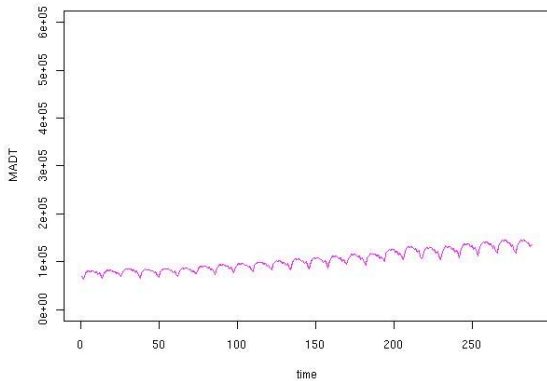


Figure 59A. Monthly Average Daily Traffic, SID-21,1982-2005

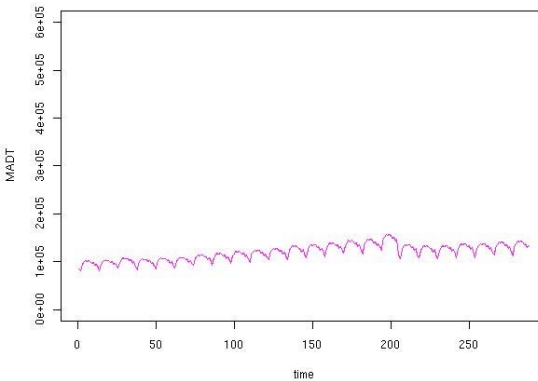


Figure 60A. Monthly Average Daily Traffic, SID-22,1982-2005

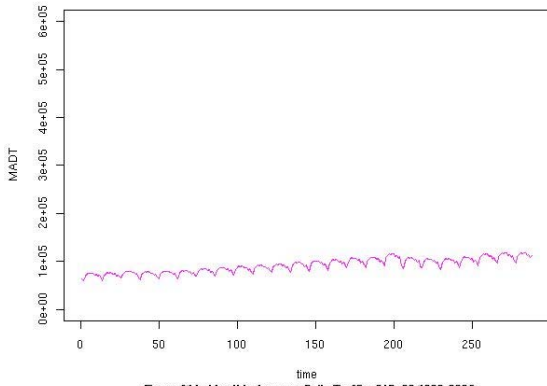


Figure 61A. Monthly Average Daily Traffic, SID-23,1982-2005

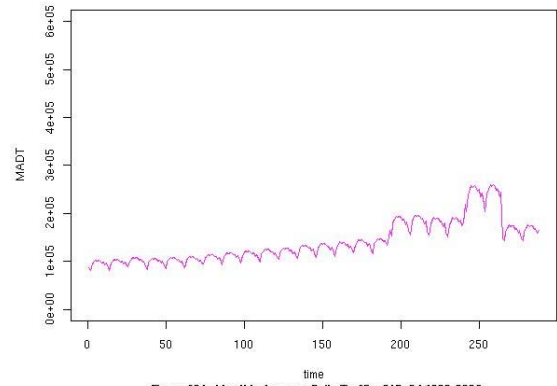


Figure 62A. Monthly Average Daily Traffic, SID-24,1982-2005

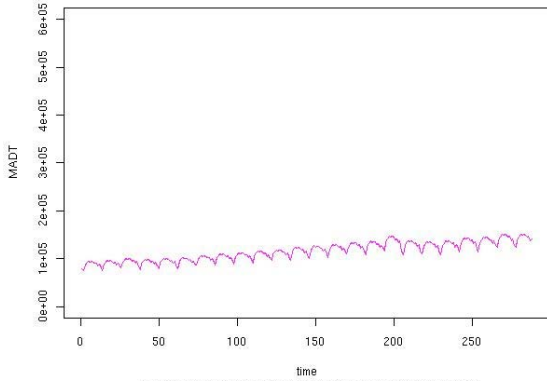


Figure 63A. Monthly Average Daily Traffic, SID-25,1982-2005

APPENDIX B. RAW DATA PLOTS

Road and Sum Data Monthly crashes per mile plotted at all study sites (SID). The solid vertical line represents the intervention date.

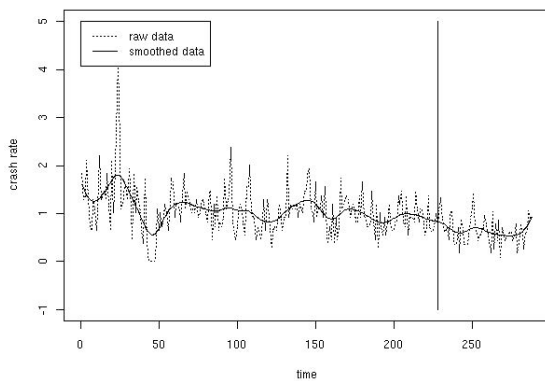


Figure 1B. Road monthly crashes per mile, SID-1, Sioux City

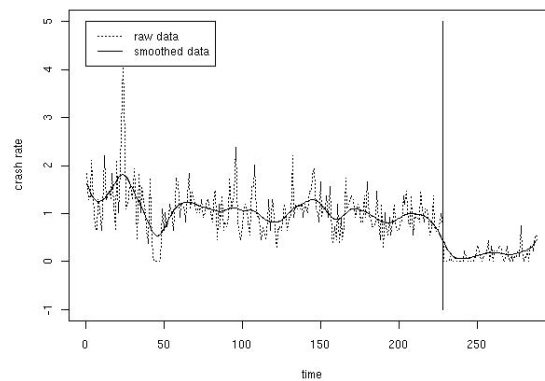


Figure 2B. Bypass monthly crashes per mile, SID-1, Sioux City

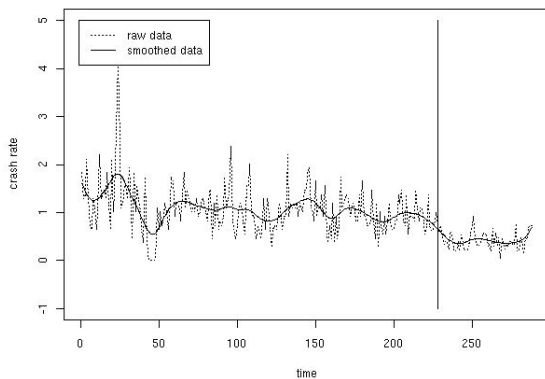


Figure 3B. Road + Bypass monthly crashes per mile, SID-1

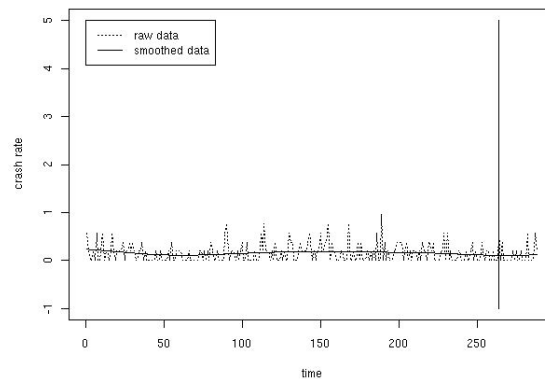


Figure 4B. Road monthly crashes per mile, SID-2, Alton

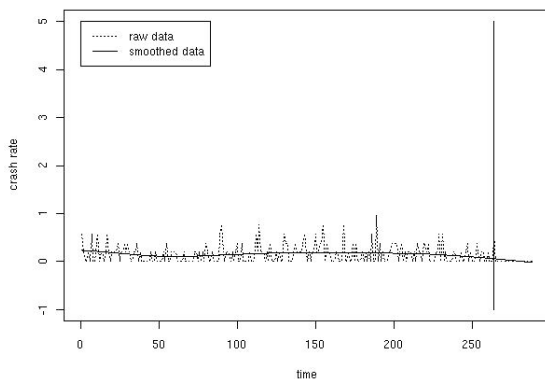


Figure 5B. Bypass monthly crashes per mile, SID-2, Alton

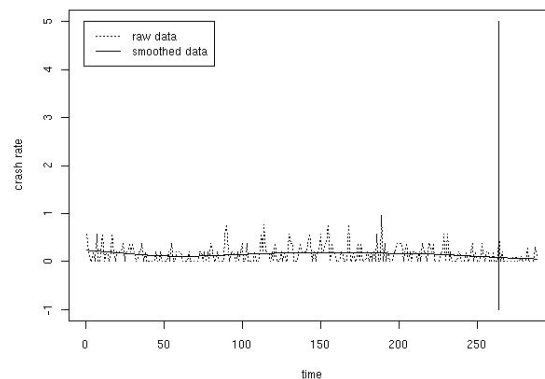


Figure 6B. Road + Bypass monthly crashes per mile, SID-2

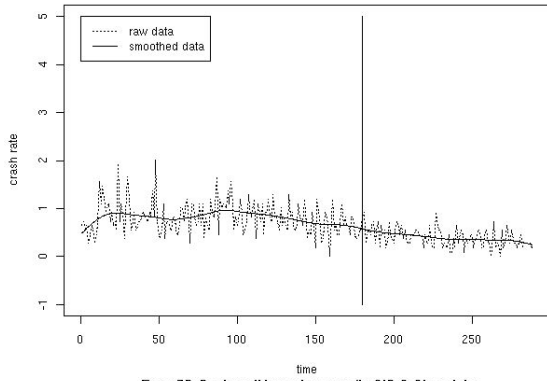


Figure 7B. Road monthly crashes per mile, SID-3, Storm Lake

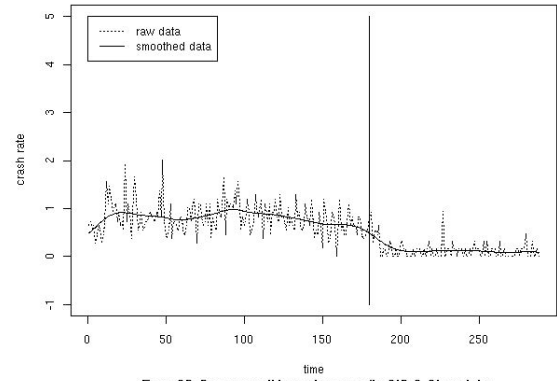


Figure 8B. Bypass monthly crashes per mile, SID-3, Storm Lake

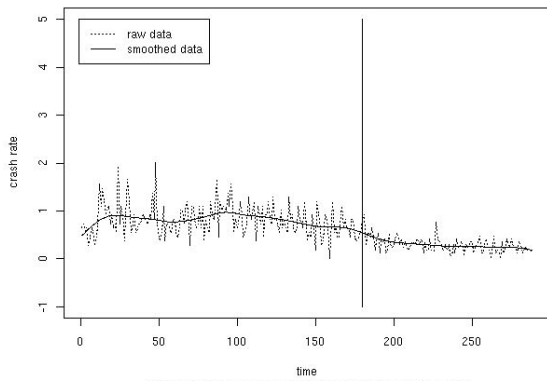


Figure 9B. Road + Bypass monthly crashes per mile, SID-3

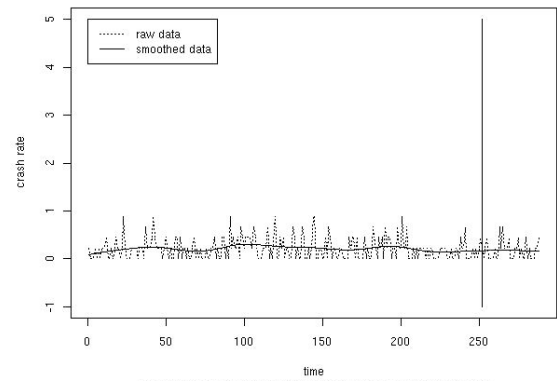


Figure 10B. Road monthly crashes per mile, SID-4, Pleasantville

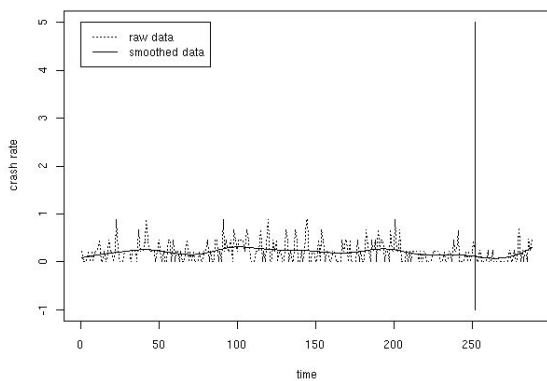


Figure 11B. Bypass monthly crashes per mile, SID-4, Pleasantville

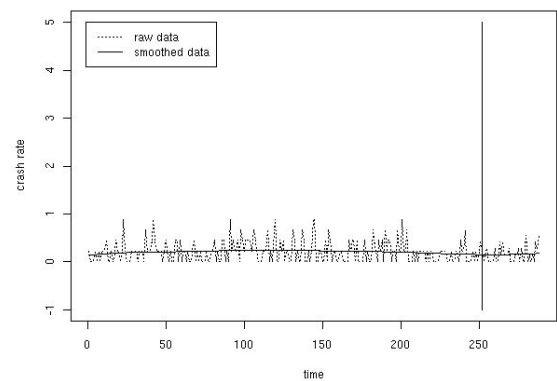


Figure 12B. Road + Bypass monthly crashes per mile, SID-4

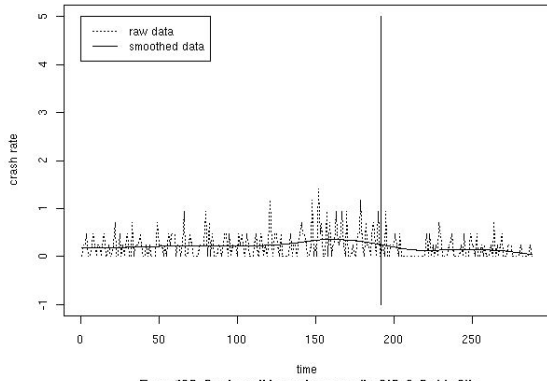


Figure 13B. Road monthly crashes per mile, SID-5, Prairie City

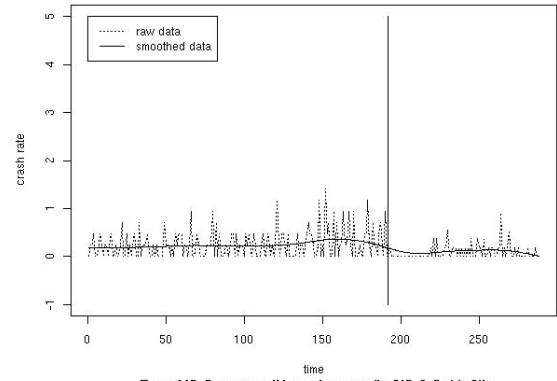


Figure 14B. Bypass monthly crashes per mile, SID-5, Prairie City

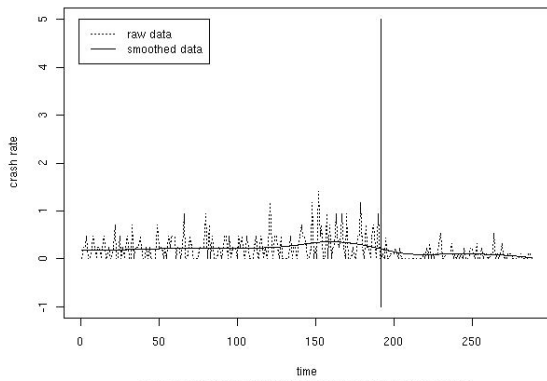


Figure 15B. Road + Bypass monthly crashes per mile, SID-5

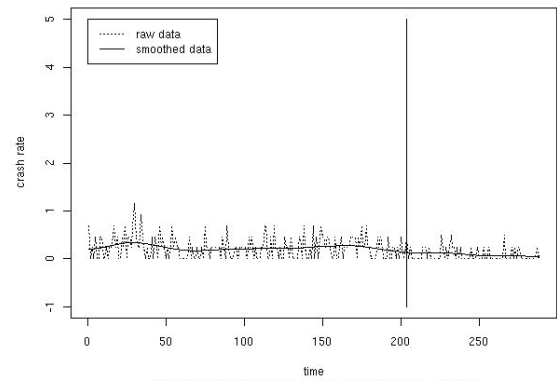


Figure 16B. Road monthly crashes per mile, SID-6, Monroe

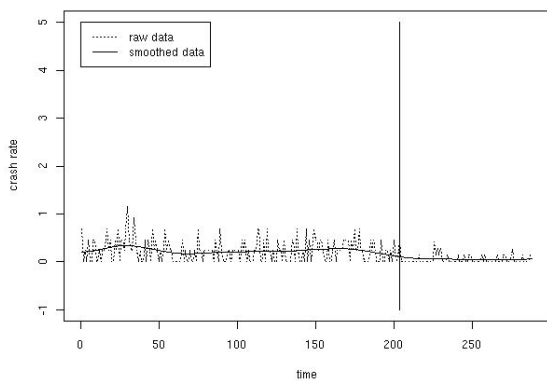


Figure 17B. Bypass monthly crashes per mile, SID-6, Monroe

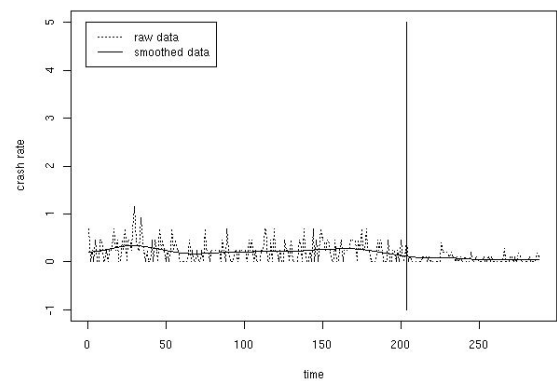


Figure 18B. Road + Bypass monthly crashes per mile, SID-6

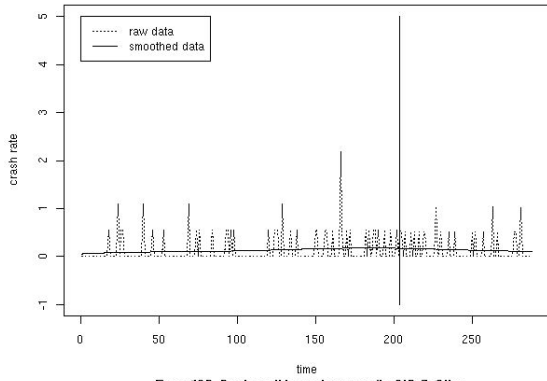


Figure 19B. Road monthly crashes per mile, SID-7, Otley

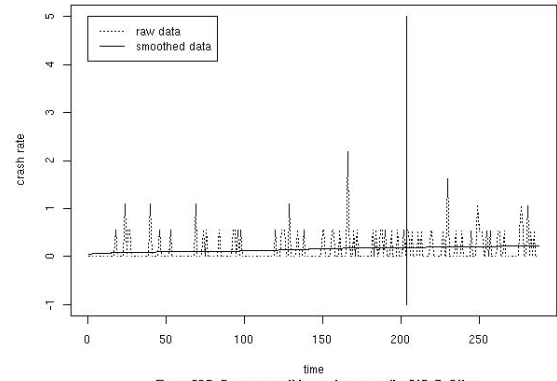


Figure 20B. Bypass monthly crashes per mile, SID-7, Otley

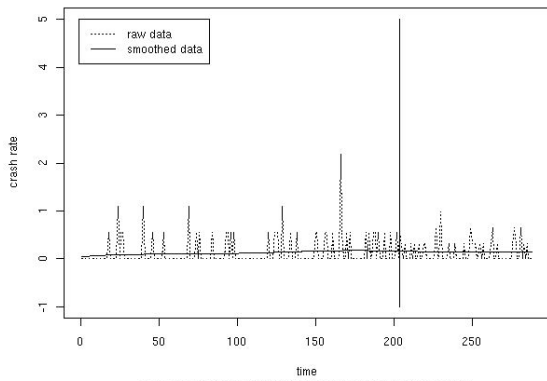


Figure 21B. Road + Bypass monthly crashes per mile, SID-7

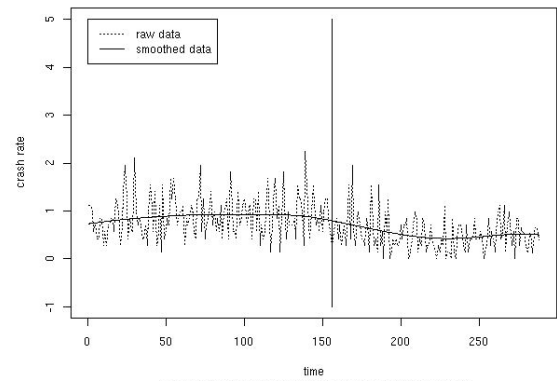


Figure 22B. Road monthly crashes per mile, SID-8, Pella

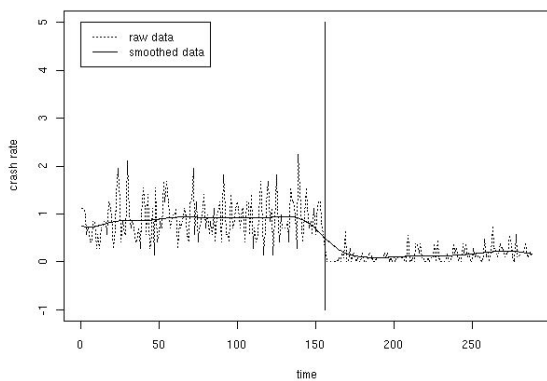


Figure 23B. Bypass monthly crashes per mile, SID-8, Pella

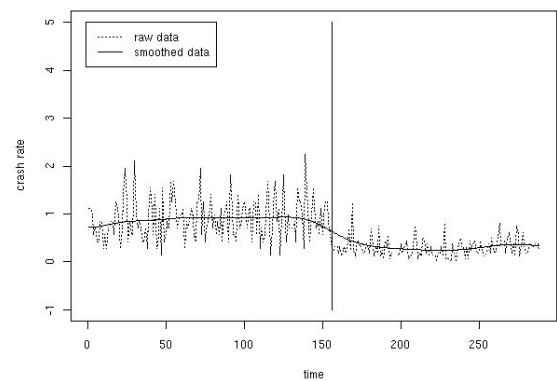


Figure 24B. Road + Bypass monthly crashes per mile, SID-8

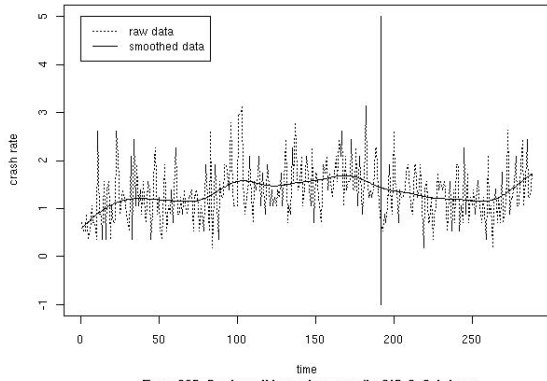


Figure 25B. Road monthly crashes per mile, SID-9, Oskaloosa

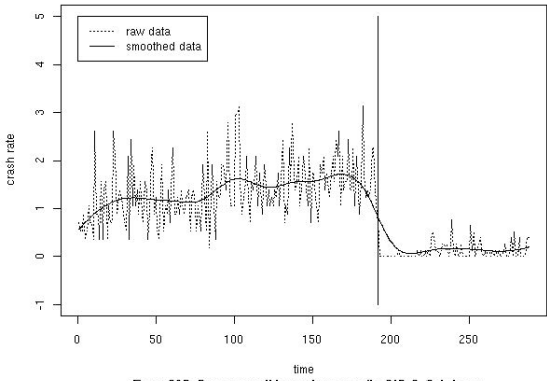


Figure 26B. Bypass monthly crashes per mile, SID-9, Oskaloosa

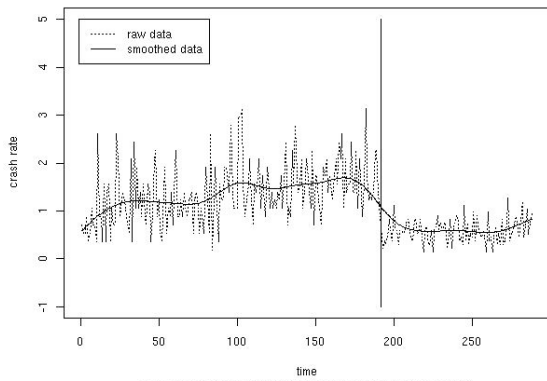


Figure 27B. Road + Bypass monthly crashes per mile, SID-9

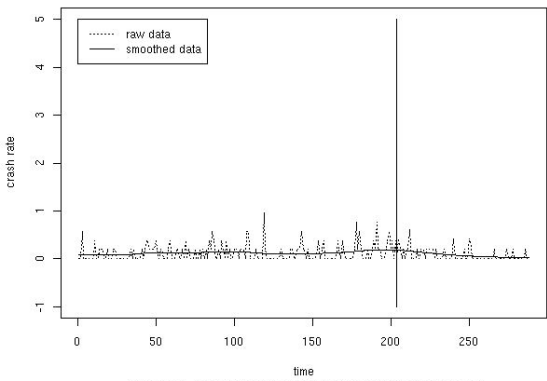


Figure 28B. Road monthly crashes per mile, SID-10, Swedesburg

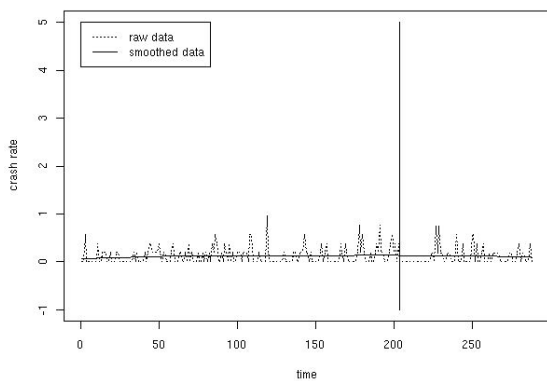


Figure 29B. Bypass monthly crashes per mile, SID-10, Swedesburg

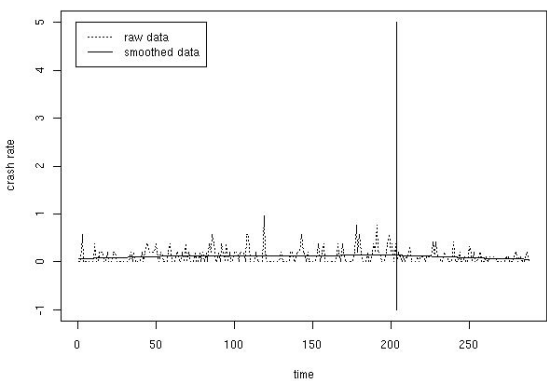


Figure 30B. Road + Bypass monthly crashes per mile, SID-10

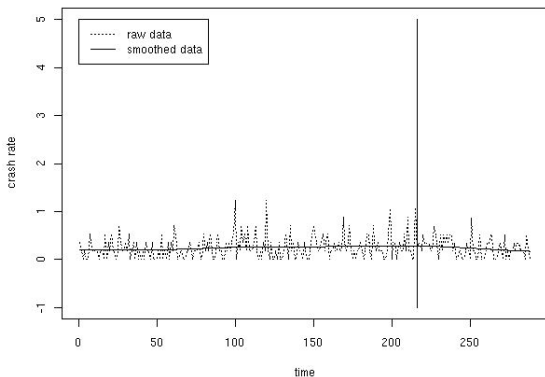


Figure 31B. Road monthly crashes per mile, SID-11, New London

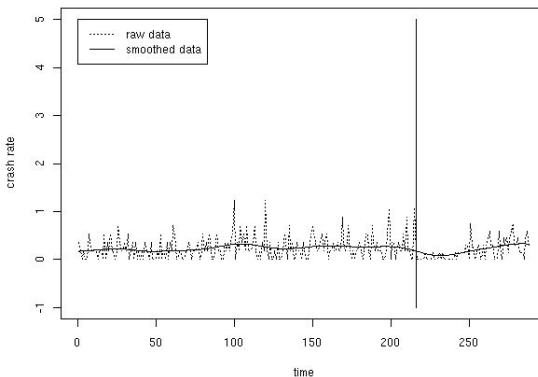


Figure 32B. Bypass monthly crashes per mile, SID-11, New London

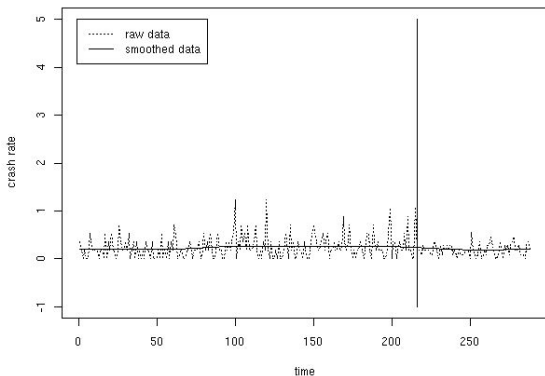


Figure 33B. Road + Bypass monthly crashes per mile, SID-11

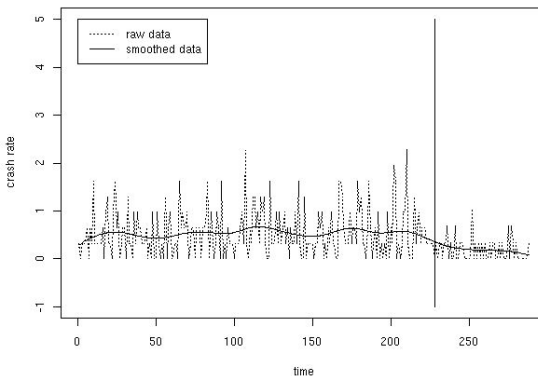


Figure 34B. Road monthly crashes per mile, SID-12, Blue Grass

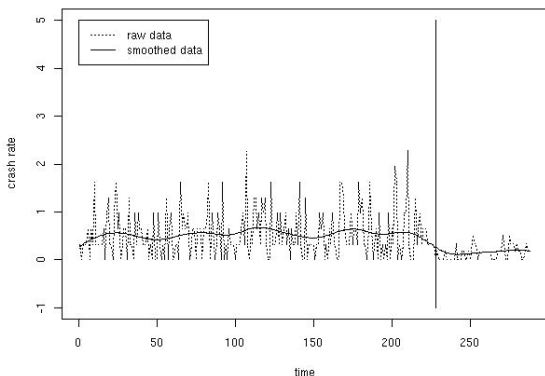


Figure 35B. Bypass monthly crashes per mile, SID-12, Blue Grass

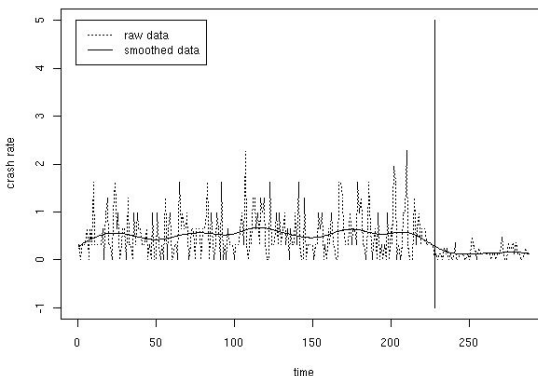


Figure 36B. Road + Bypass monthly crashes per mile, SID-12

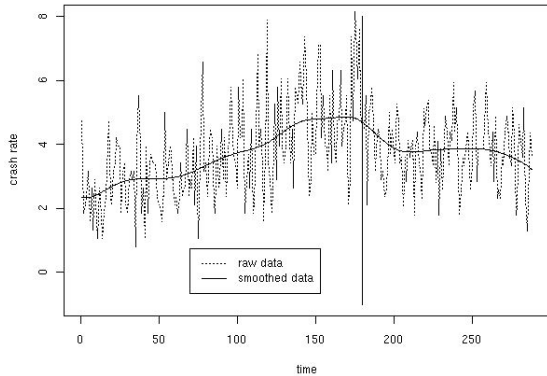


Figure 37B. Road monthly crashes per mile, SID-13, Marion

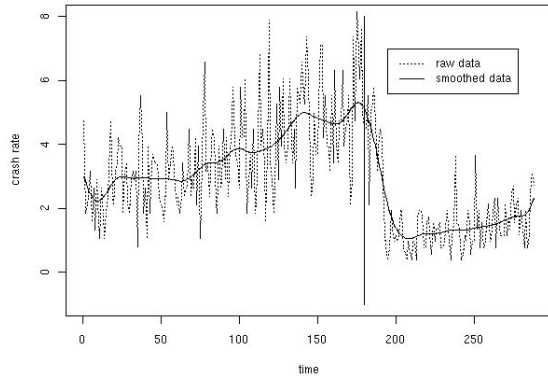


Figure 38B. Bypass monthly crashes per mile, SID-13, Marion

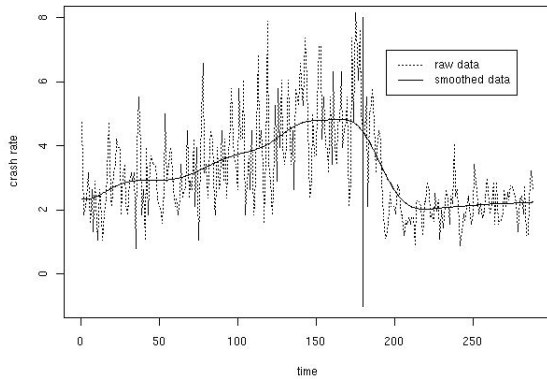


Figure 39B. Road + Bypass monthly crashes per mile, SID-13

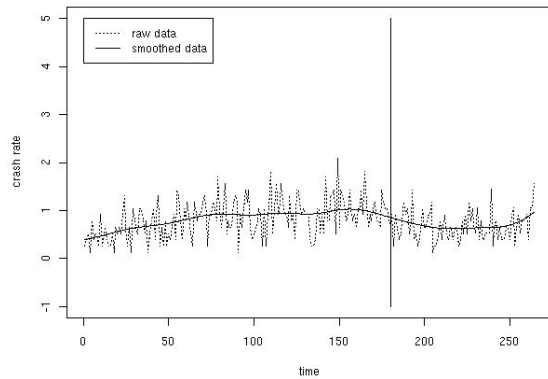


Figure 40B. Road monthly crashes per mile, SID-14, Waverly

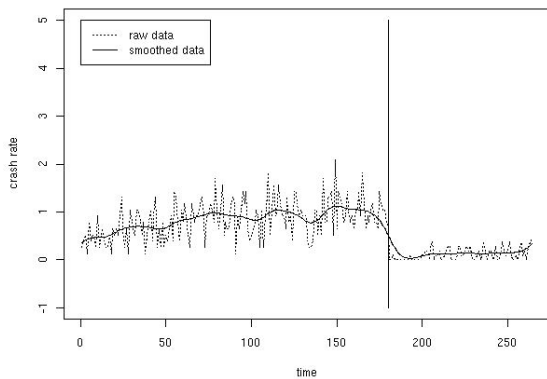


Figure 41B. Bypass monthly crashes per mile, SID-14, Waverly

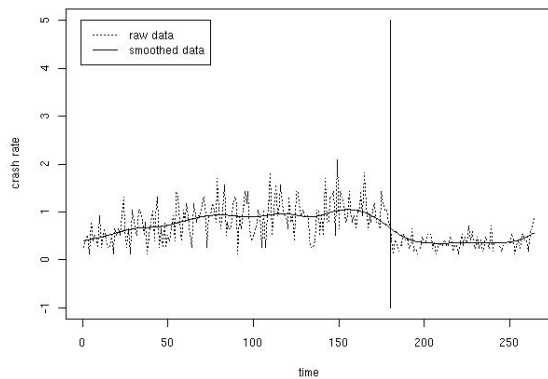


Figure 42B. Road + Bypass monthly crashes per mile, SID-14

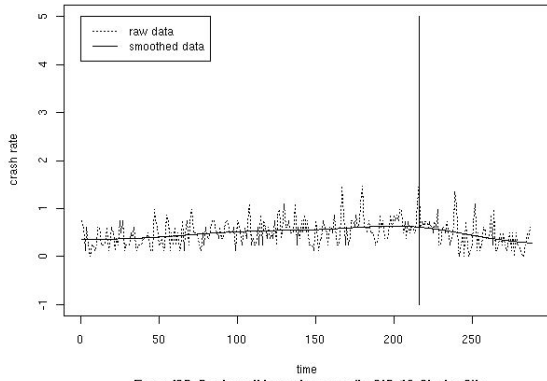


Figure 43B. Road monthly crashes per mile, SID-15, Charles City

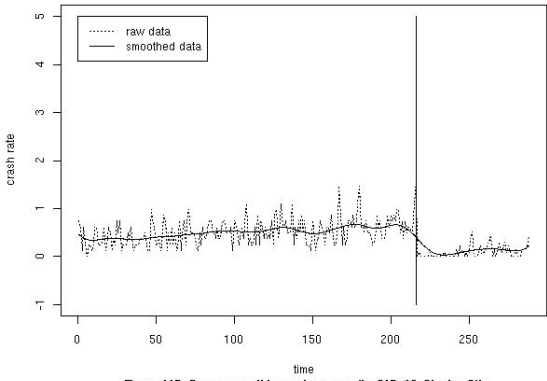


Figure 44B. Bypass monthly crashes per mile, SID-15, Charles City

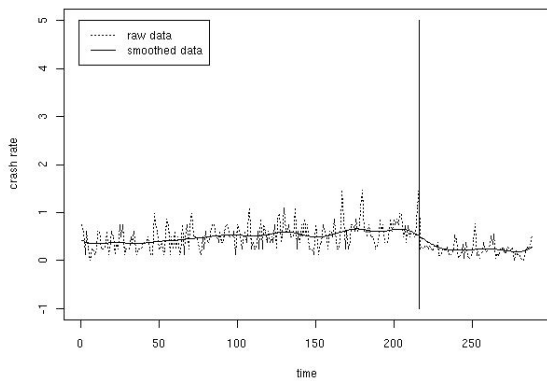


Figure 45B. Road + Bypass monthly crashes per mile, SID-15

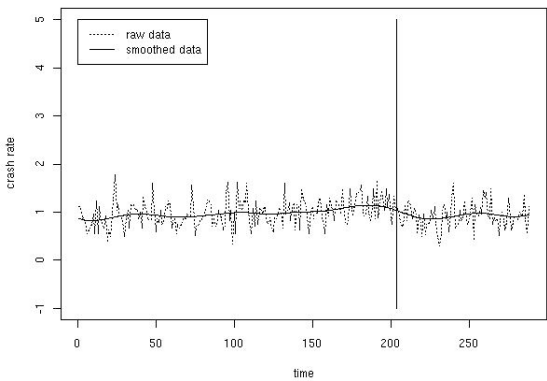


Figure 46B. Road monthly crashes per mile, SID-16, Ruckl

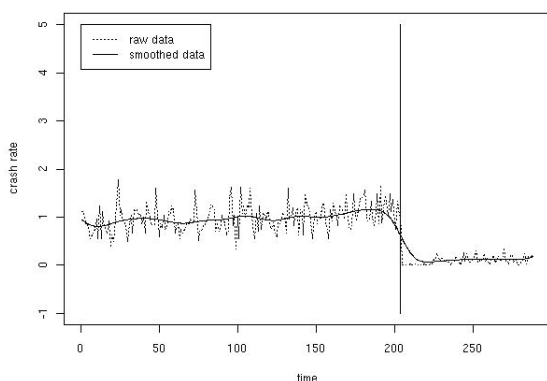


Figure 47B. Bypass monthly crashes per mile, SID-16, Ruckl

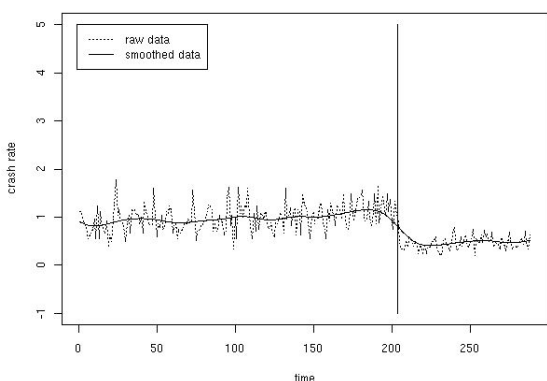


Figure 48B. Road + Bypass monthly crashes per mile, SID-16

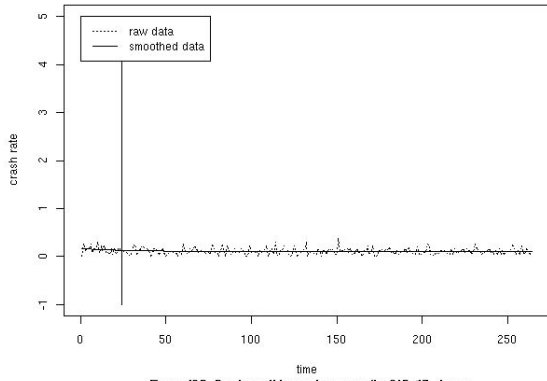


Figure 49B. Road monthly crashes per mile, SID-17, Jesup

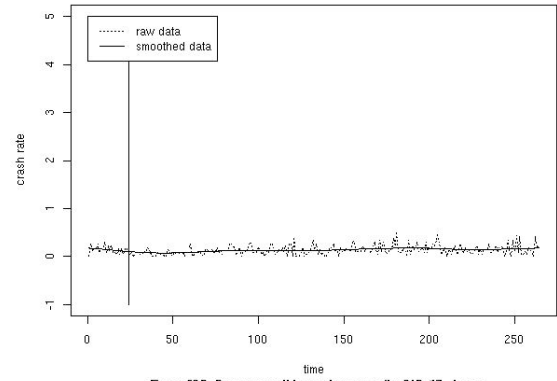


Figure 50B. Bypass monthly crashes per mile, SID-17, Jesup

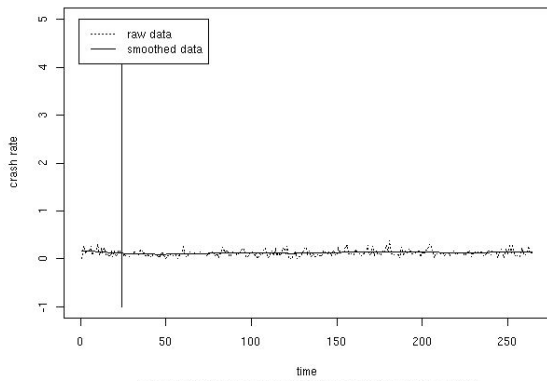


Figure 51B. Road + Bypass monthly crashes per mile, SID-17

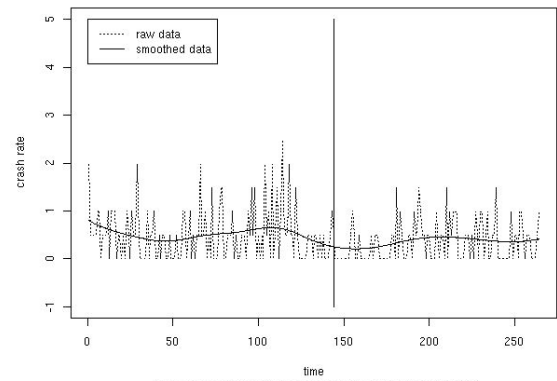


Figure 52B. Road monthly crashes per mile, SID-18, Denver

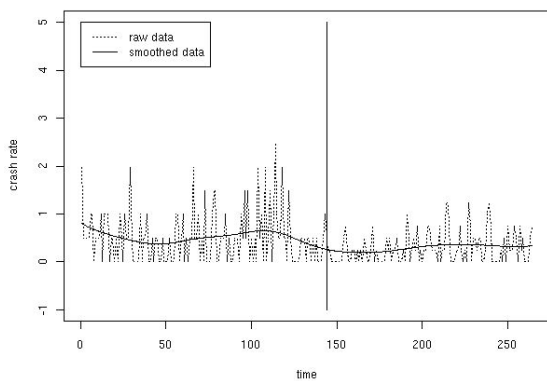


Figure 53B. Bypass monthly crashes per mile, SID-18, Denver

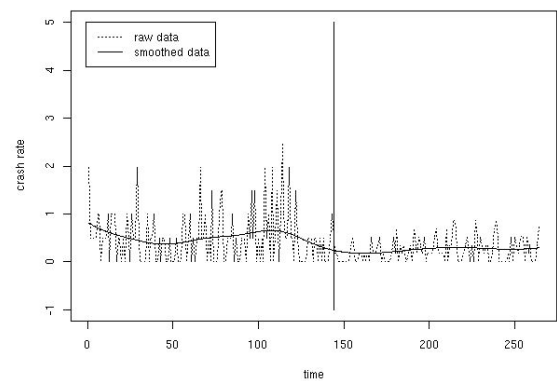


Figure 54B. Road + Bypass monthly crashes per mile, SID-18

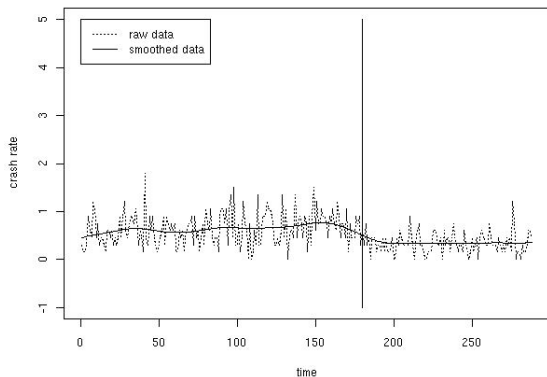


Figure 55B. Road monthly crashes per mile, SID-19, Marshalltown

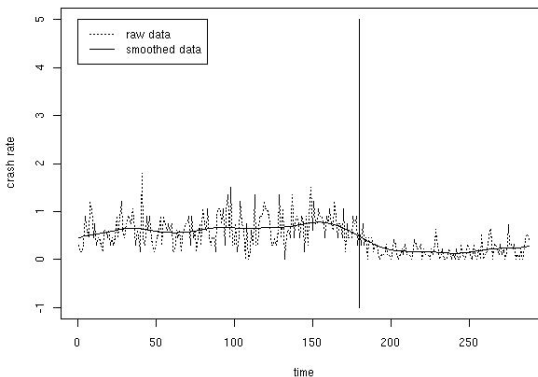


Figure 56B. Bypass monthly crashes per mile, SID-19, Marshalltown

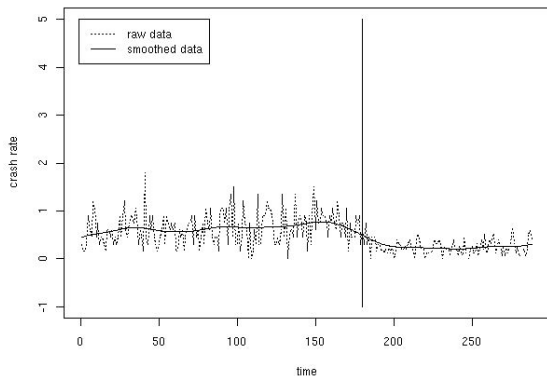


Figure 57B. Road + Bypass monthly crashes per mile, SID-19

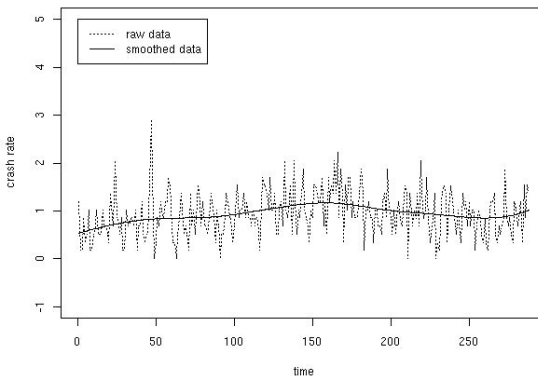


Figure 58B. Monthly crashes per mile, SID-20, Le Mars

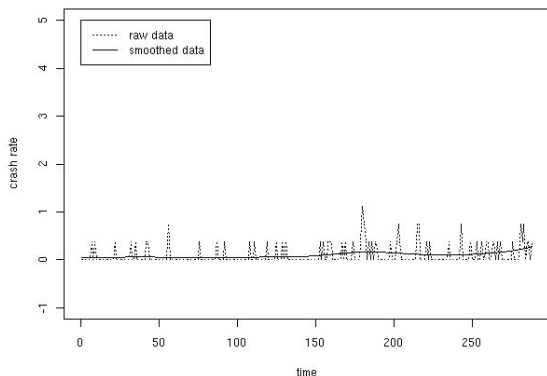


Figure 59B. Monthly crashes per mile, SID-21, Seney

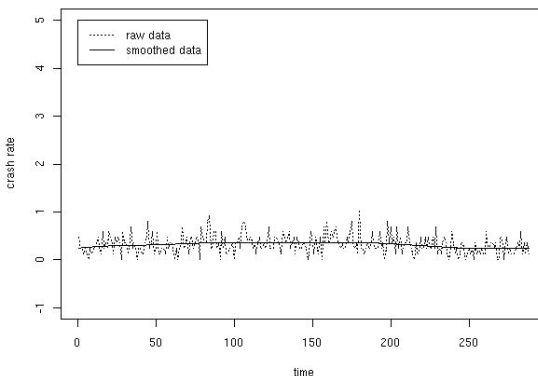


Figure 60B. Monthly crashes per mile, SID-22, Sheldon

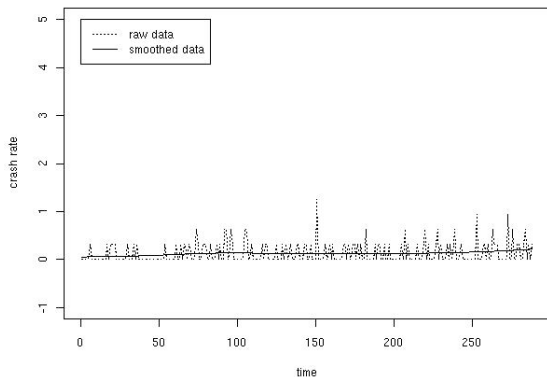


Figure 61B. Monthly crashes per mile, SID-23, Ashton

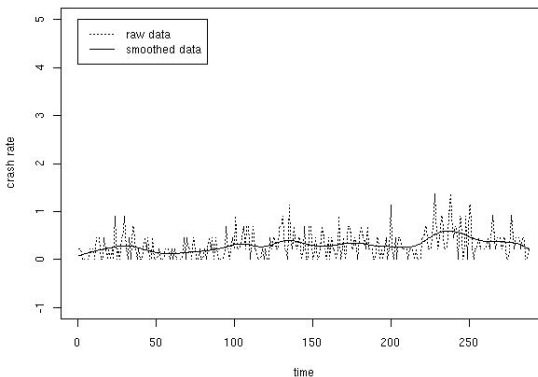


Figure 62B. Monthly crashes per mile, SID-24, Eckville

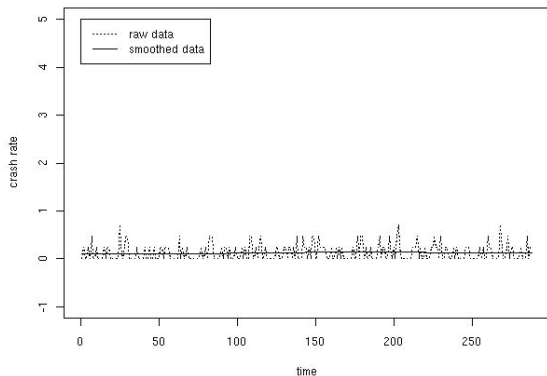


Figure 63B. Monthly crashes per mile, SID-25, Hospers

Road Citizenry Data and Sum Citizenry Data monthly crashes per mile plotted at all sites.

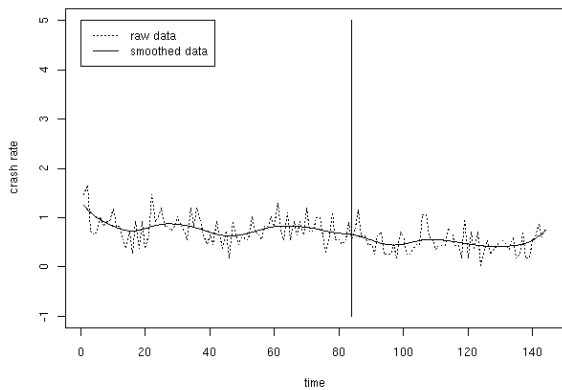


Figure 64B. Road monthly crashes per mile, SID-1, Sioux City

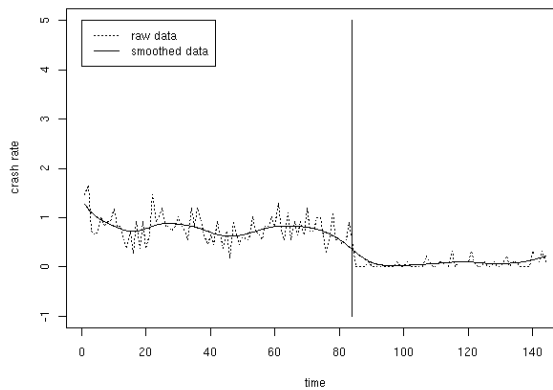


Figure 65B. Bypass monthly crashes per mile, SID-1, Sioux City

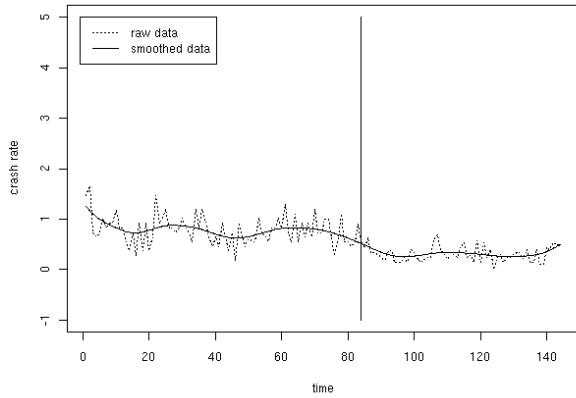


Figure 66B. Road + Bypass monthly crashes per mile, SID-1

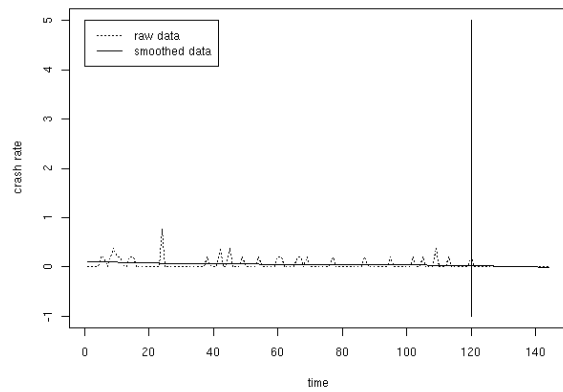


Figure 68B. Bypass monthly crashes per mile, SID-2, Alton

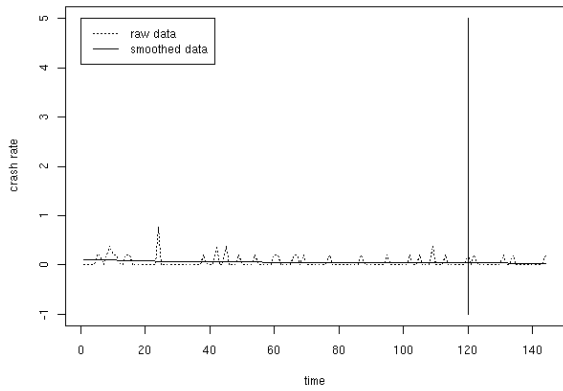


Figure 67B. Road monthly crashes per mile, SID-2, Alton

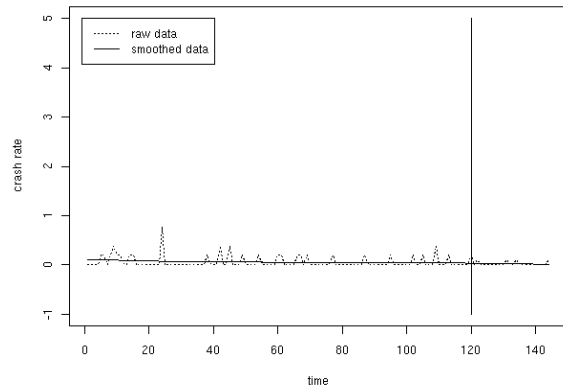


Figure 69B. Road + Bypass monthly crashes per mile, SID-2

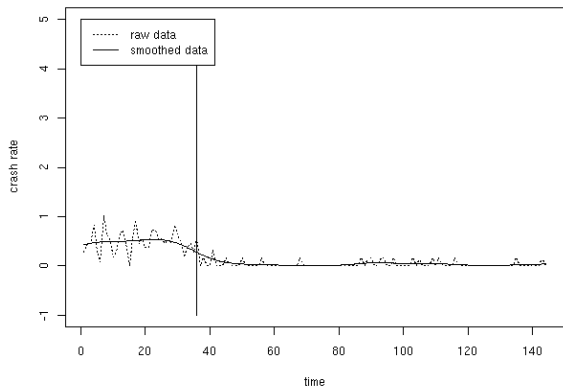


Figure 71B. Bypass monthly crashes per mile, SID-3, Storm Lake

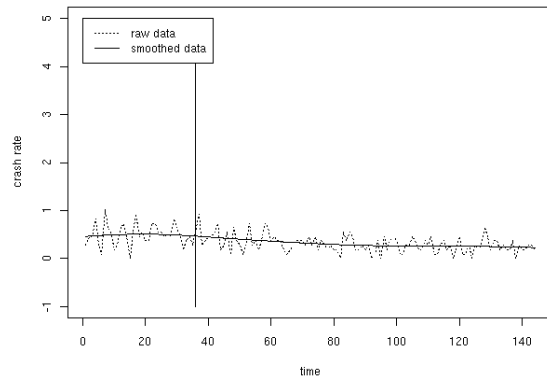


Figure 70B. Road monthly crashes per mile, SID-3, Storm Lake

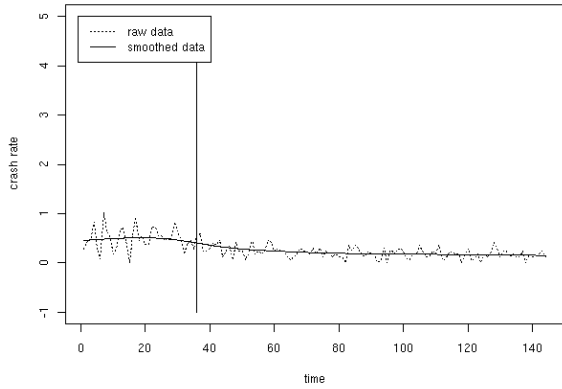


Figure 72B. Road + Bypass monthly crashes per mile, SID-3

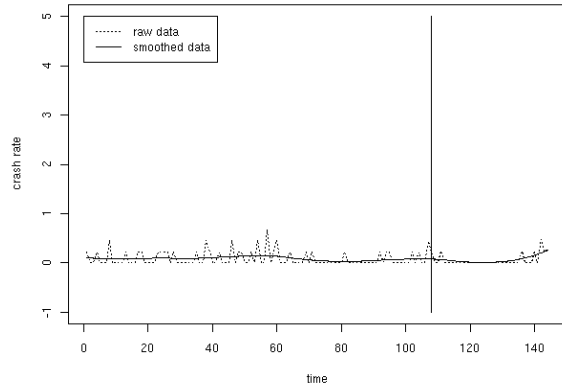


Figure 74B. Bypass monthly crashes per mile, SID-4, Pleasantville

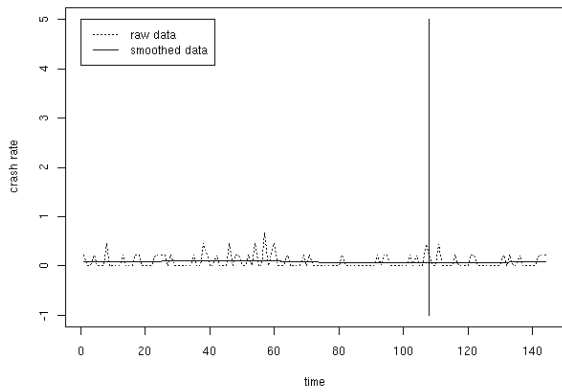


Figure 73B. Road monthly crashes per mile, SID-4, Pleasantville

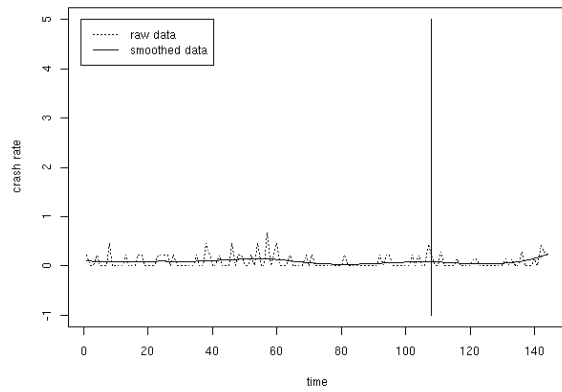


Figure 75B. Road + Bypass monthly crashes per mile, SID-4

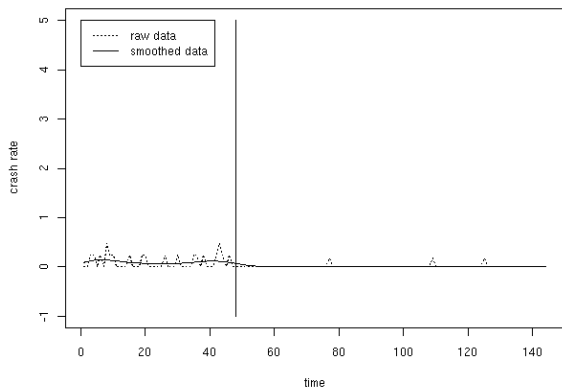


Figure 77B. Bypass monthly crashes per mile, SID-5, Prairie City

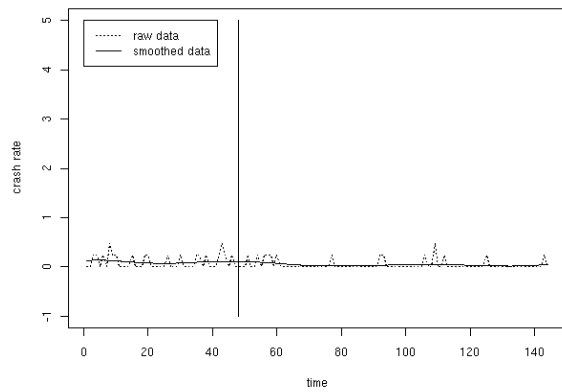


Figure 76B. Road monthly crashes per mile, SID-5, Prairie City

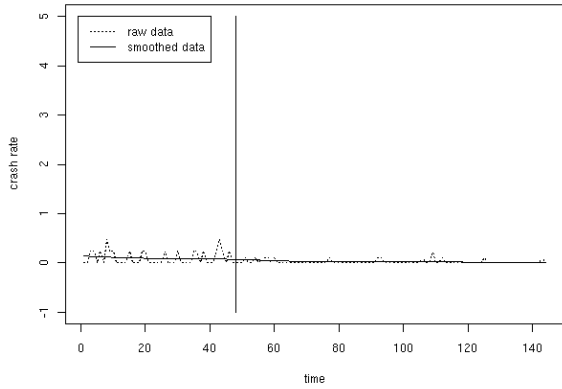


Figure 78B. Road + Bypass monthly crashes per mile, SID-5

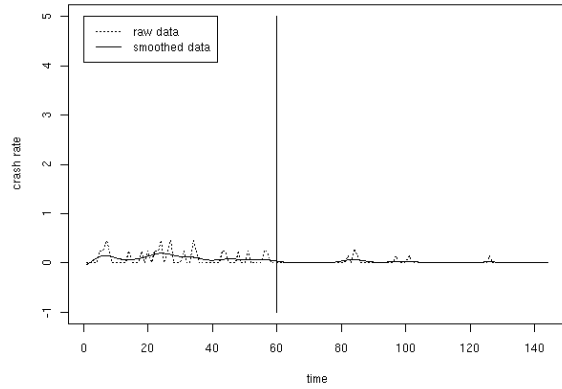


Figure 80B. Bypass monthly crashes per mile, SID-6, Monroe

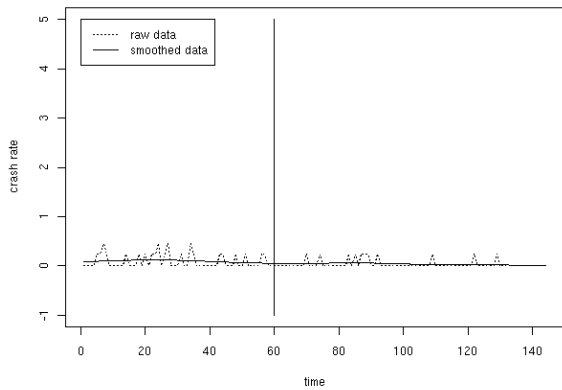


Figure 79B. Road monthly crashes per mile, SID-6, Monroe

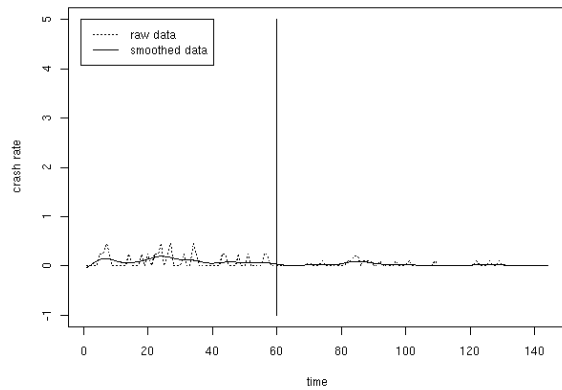


Figure 81B. Road + Bypass monthly crashes per mile, SID-6

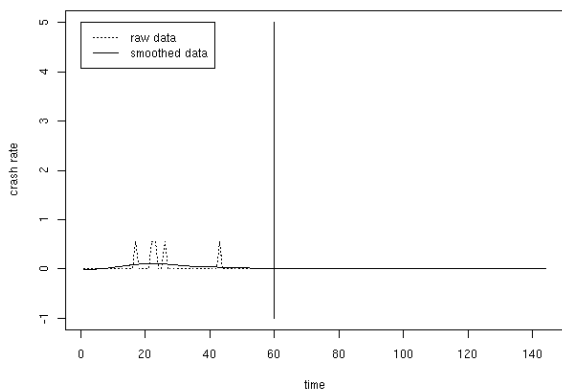


Figure 83B. Bypass monthly crashes per mile, SID-7, Otley

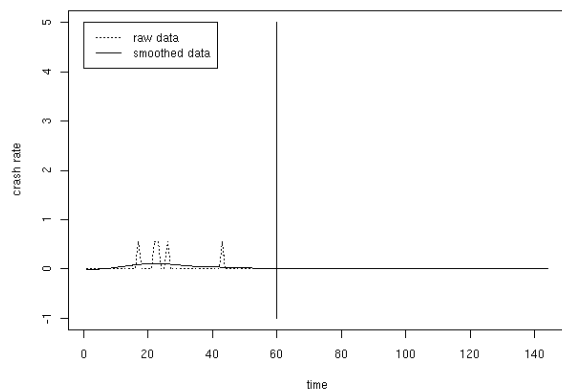


Figure 82B. Road monthly crashes per mile, SID-7, Otley

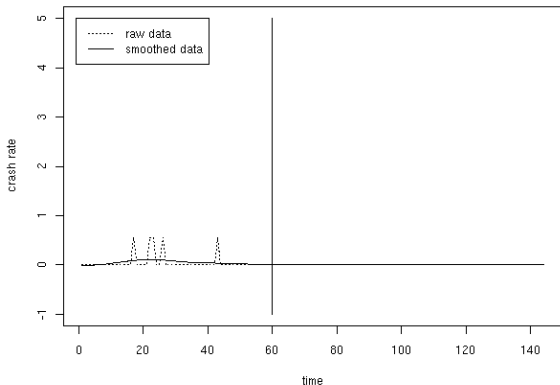


Figure 84B. Road + Bypass monthly crashes per mile, SID-7

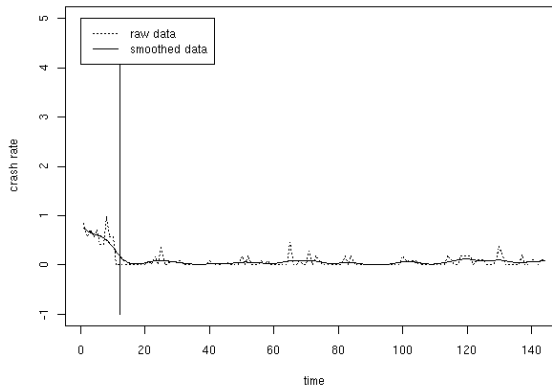


Figure 86B. Bypass monthly crashes per mile, SID-8, Pella

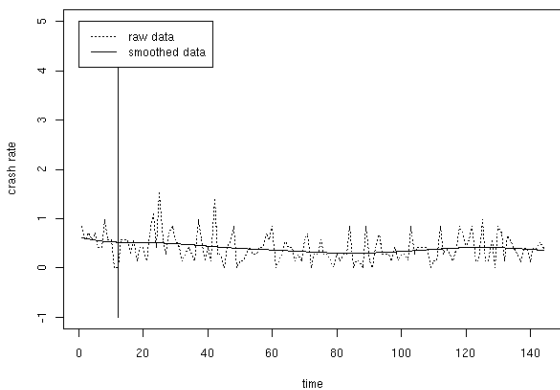


Figure 85B. Road monthly crashes per mile, SID-8, Pella

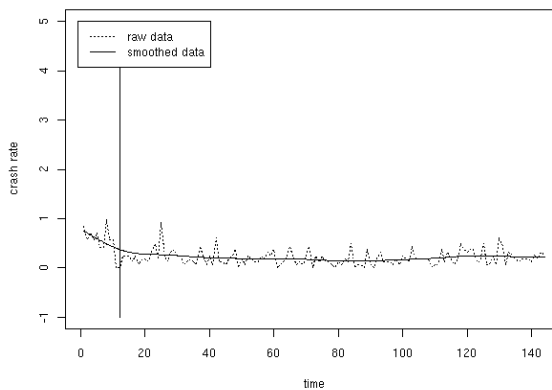


Figure 87B. Road + Bypass monthly crashes per mile, SID-8

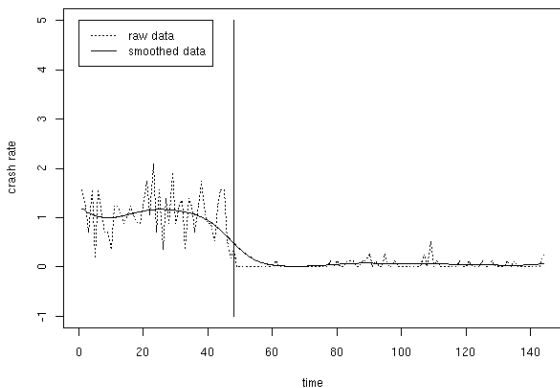


Figure 89B. Bypass monthly crashes per mile, SID-9, Oskaloosa

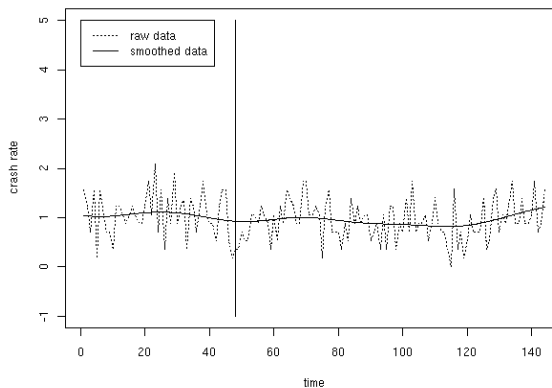


Figure 88B. Road monthly crashes per mile, SID-9, Oskaloosa

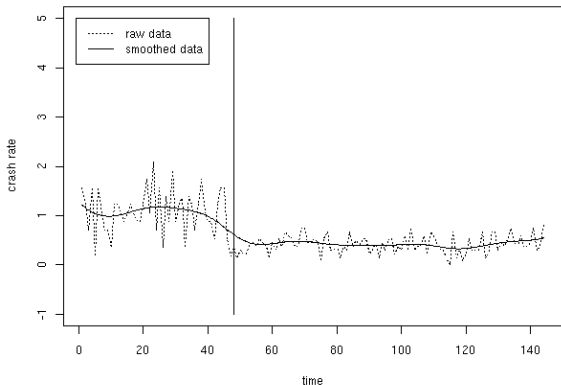


Figure 90B. Road + Bypass monthly crashes per mile, SID-9

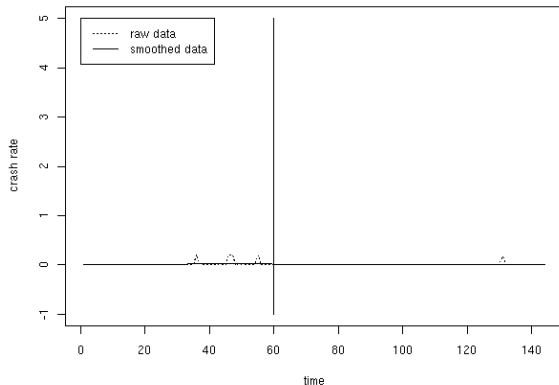


Figure 92B. Bypass monthly crashes per mile, SID-10, Swedesburg

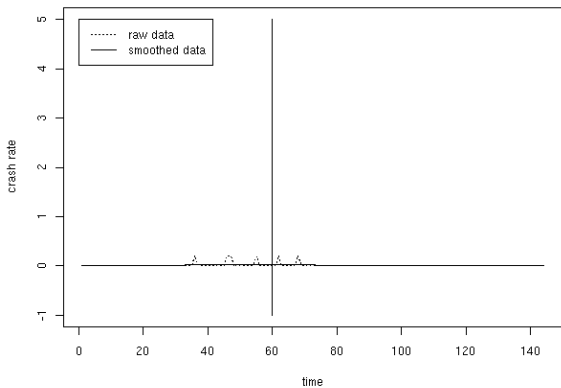


Figure 91B. Road monthly crashes per mile, SID-10, Swedesburg

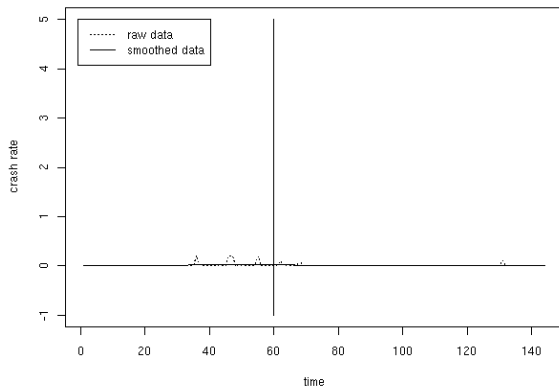


Figure 93B. Road + Bypass monthly crashes per mile, SID-10

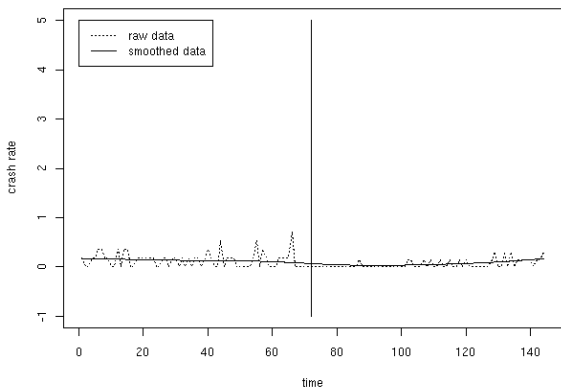


Figure 95B. Bypass monthly crashes per mile, SID-11, New London

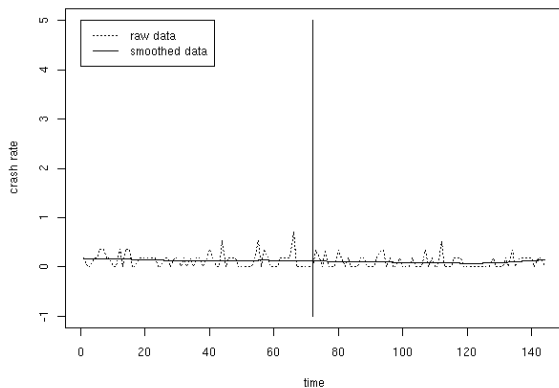


Figure 94B. Road monthly crashes per mile, SID-11, New London

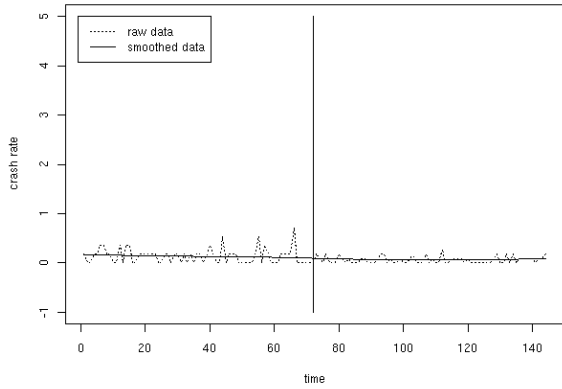


Figure 96B. Road + Bypass monthly crashes per mile, SID-11

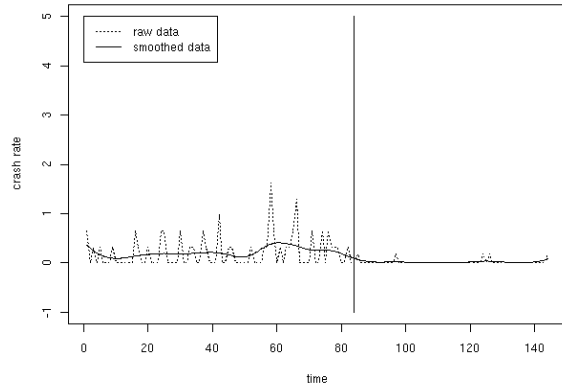


Figure 98B. Bypass monthly crashes per mile, SID-12, Blue Grass

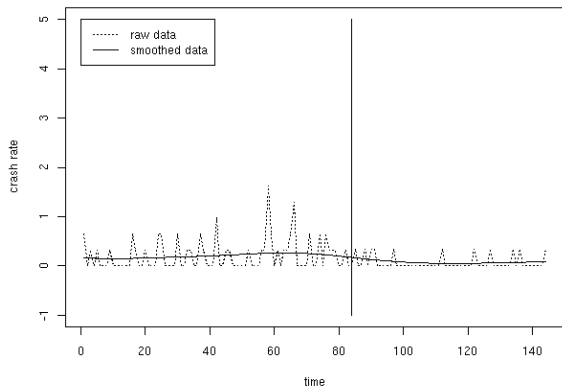


Figure 97B. Road monthly crashes per mile, SID-12, Blue Grass

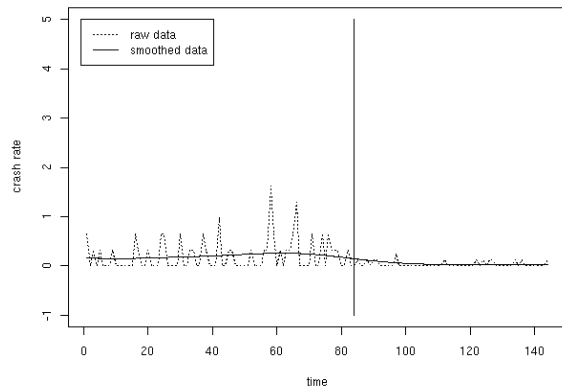


Figure 99B. Road + Bypass monthly crashes per mile, SID-12

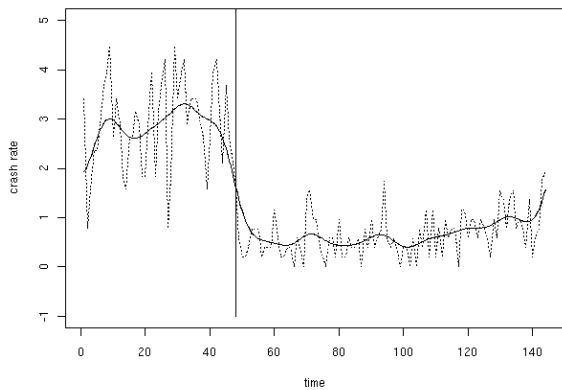


Figure 101B. Bypass monthly crashes per mile, SID-13, Marion

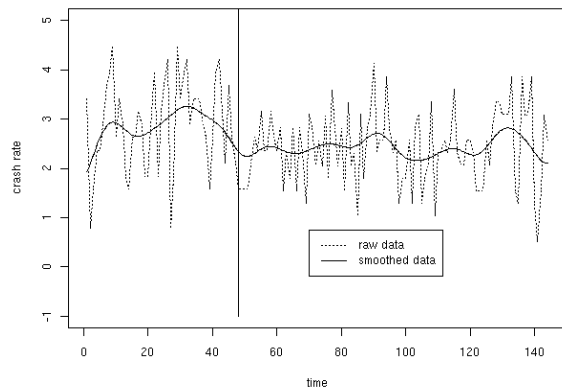


Figure 100B. Road monthly crashes per mile, SID-13, Marion

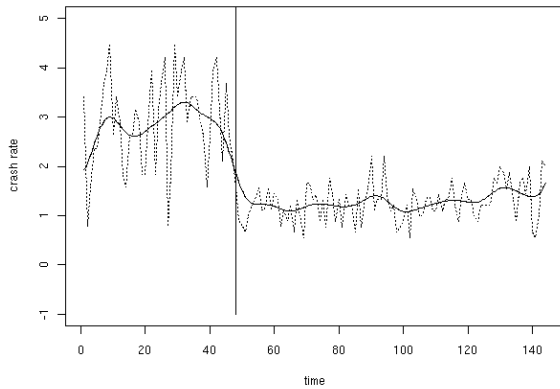


Figure 102B. Road + Bypass monthly crashes per mile, SID-T3

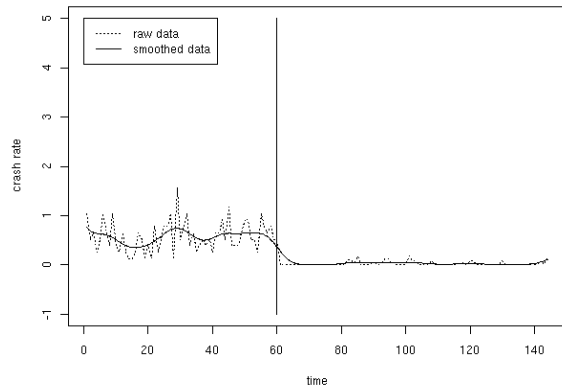


Figure 104B. Bypass monthly crashes per mile, SID-T4, Waverly

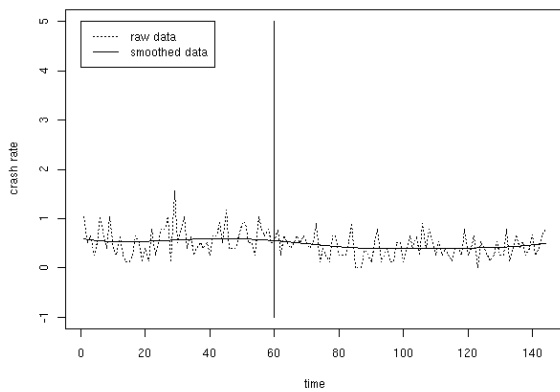


Figure 103B. Road monthly crashes per mile, SID-14, Waverly

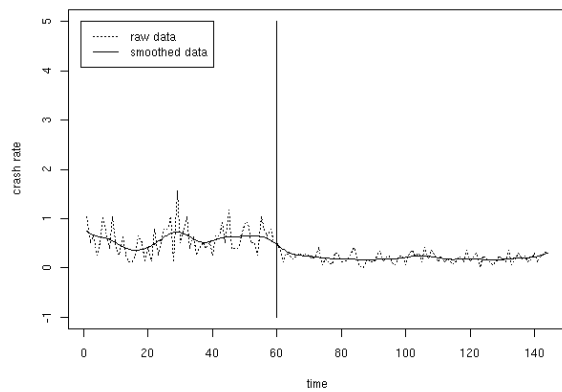


Figure 105B. Road + Bypass monthly crashes per mile, SID-14

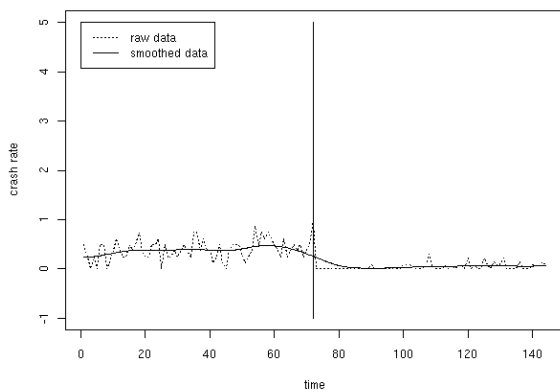


Figure 107B. Bypass monthly crashes per mile, SID-15, Charles City

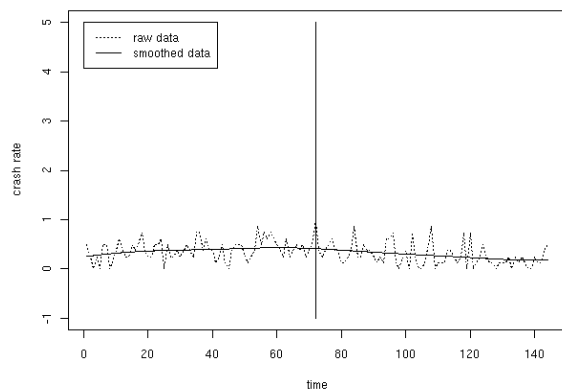


Figure 106B. Road monthly crashes per mile, SID-15, Charles City

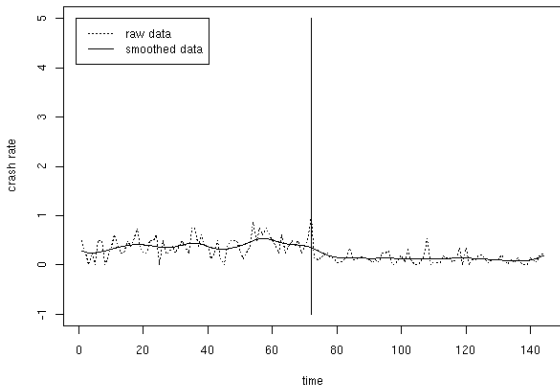


Figure 108B. Road + Bypass monthly crashes per mile, SID-15

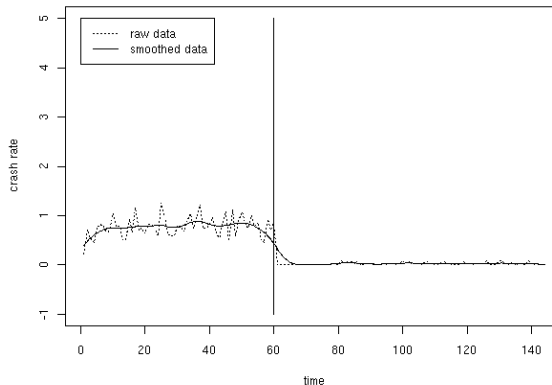


Figure 110B. Bypass monthly crashes per mile, SID-16, Road

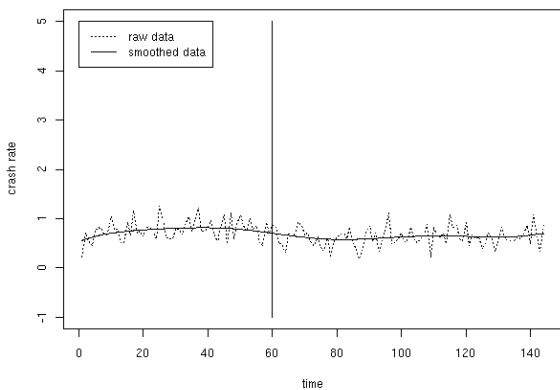


Figure 109B. Road monthly crashes per mile, SID-16, Road

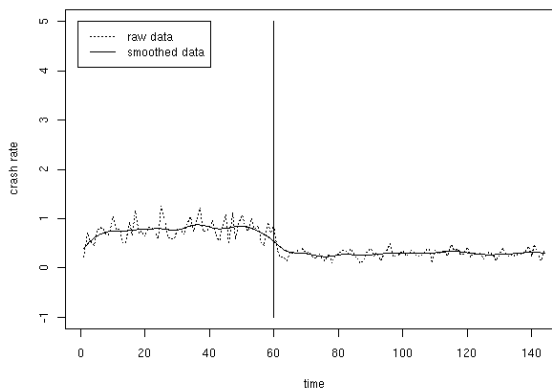


Figure 111B. Road + Bypass monthly crashes per mile, SID-16

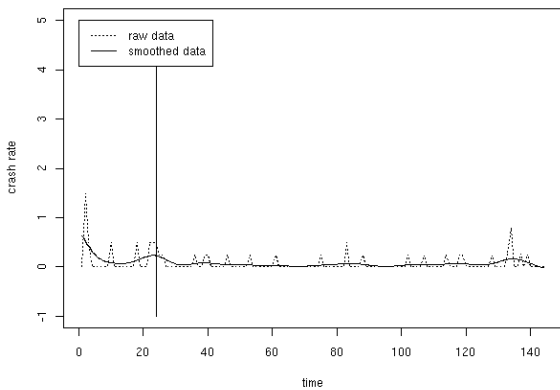


Figure 113B. Bypass monthly crashes per mile, SID-17, Denver

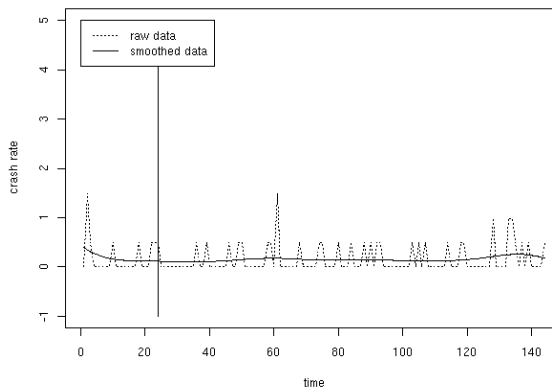


Figure 112B. Road monthly crashes per mile, SID-17, Denver

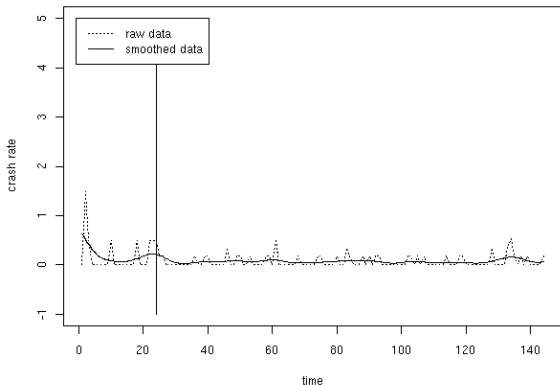


Figure 114B. Road + Bypass monthly crashes per mile, SID-17

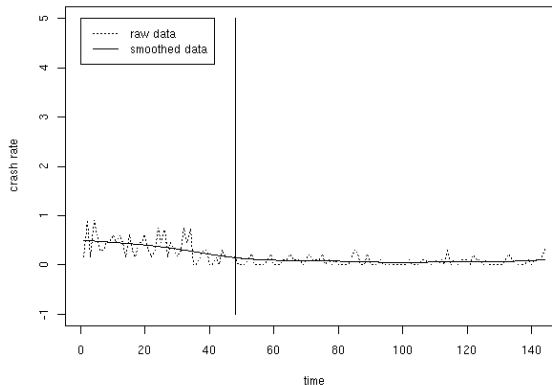


Figure 116B. Bypass monthly crashes per mile, SID-18, Marshalltown

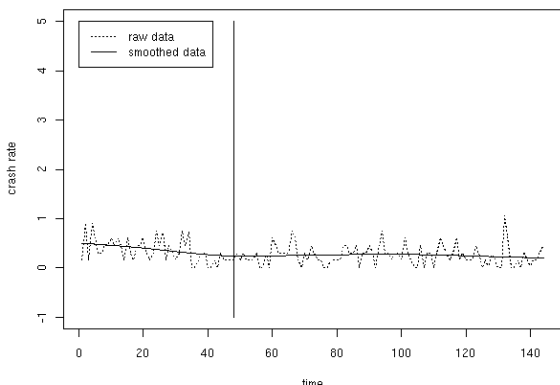


Figure 115B. Road monthly crashes per mile, SID-18, Marshalltown

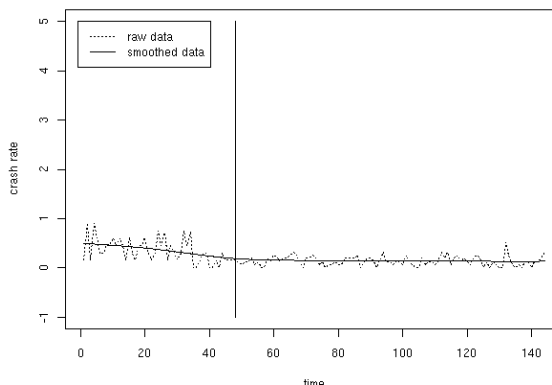


Figure 117B. Road + Bypass monthly crashes per mile, SID-18

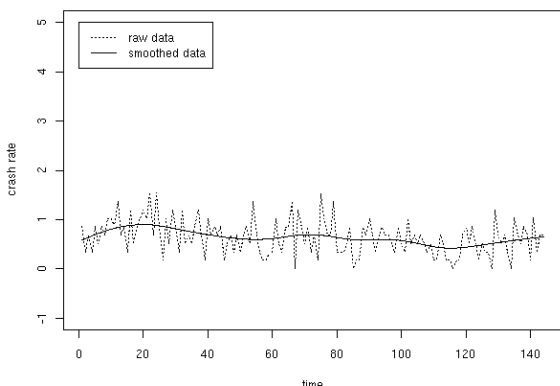


Figure 118B. Control monthly crashes per mile, SID-19, Le Mars

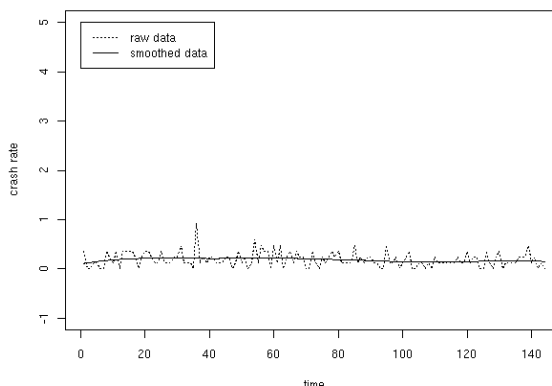


Figure 119B. Control monthly crashes per mile, SID-20, Sheldon

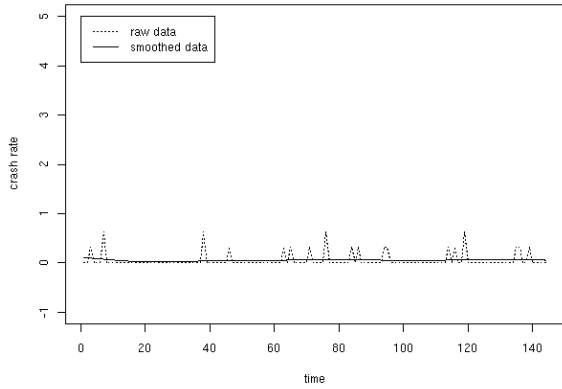


Figure 120B. Control monthly crashes per mile, SID-21, Ashton

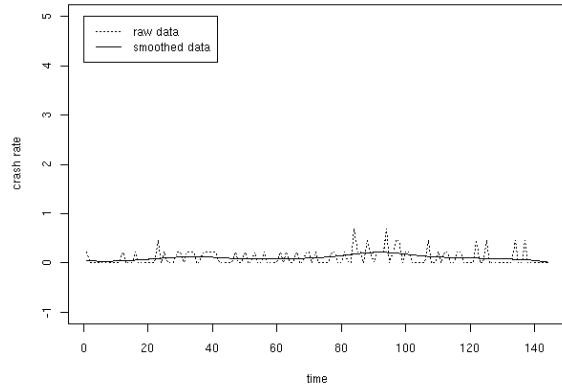


Figure 121B. Control monthly crashes per mile, SID-22, Eddyville

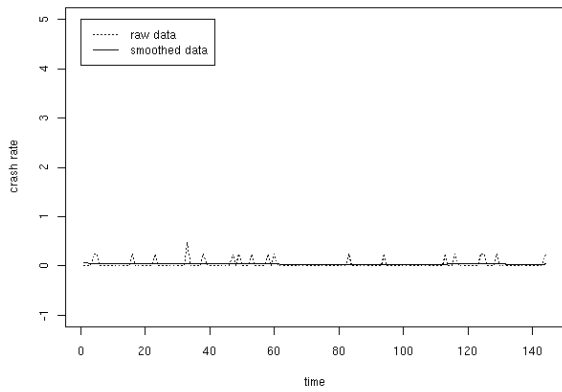


Figure 122B. Control monthly crashes per mile, SID-23, Hospers

APPENDIX C. R CODE

Data Preparation Code

```
#####Read file with original SID#####

###Replace "Bypass" with "Road" or "Sum" for Road and Sum datasets and "RoadCit" or "SumCit" for Road Citizen and Sum Citizen
Datasets.#####

Road<-read.table("~/Desktop/All Done Data/Road.txt", header=T)
Bypass<-read.table("~/Desktop/Original Data May 24 07/Bypass/BypassTemp.txt",header=T)
length(Bypass$ID)
Bypass$SID<-rep(0,1728)
Bypass$SID[Bypass$ID=="1"]=1
Bypass$SID[Bypass$ID=="4"]=2
Bypass$SID[Bypass$ID=="8"]=3
Bypass$SID[Bypass$ID=="10"]=4
Bypass$SID[Bypass$ID=="12"]=5
Bypass$SID[Bypass$ID=="13"]=6
Bypass$SID[Bypass$ID=="1313"]=7
Bypass$SID[Bypass$ID=="14"]=8
Bypass$SID[Bypass$ID=="15"]=9
Bypass$SID[Bypass$ID=="22"]=10
Bypass$SID[Bypass$ID=="24"]=11
Bypass$SID[Bypass$ID=="30"]=12
Bypass$SID[Bypass$ID=="37"]=13
Bypass$SID[Bypass$ID=="39"]=14
Bypass$SID[Bypass$ID=="40"]=15
Bypass$SID[Bypass$ID=="42"]=16
Bypass$SID[Bypass$ID=="52"]=17
Bypass$SID[Bypass$ID=="57"]=18
Bypass$SID[Bypass$ID=="68"]=19
Bypass$SID[Bypass$ID=="2"]=20
Bypass$SID[Bypass$ID=="3"]=21
Bypass$SID[Bypass$ID=="5"]=22
Bypass$SID[Bypass$ID=="6"]=23
Bypass$SID[Bypass$ID=="16"]=24
Bypass$SID[Bypass$ID=="62"]=25

write.table(Bypass, file = "~/Desktop/Original Data May 24 07/Bypass/Bypass_OLD_SID.csv", append = FALSE, sep = ",", col.names =
TRUE)

#####After Taking out all rows that are not After, sorting, and removing first 6 mos. in site 3#####

Bypass<-read.table("~/Desktop/Original Data May 24 07/Bypass/BypassOnly.txt",header=T)
Bypass$PERIOD<-rep("After",1722)
Bypass$CONTROL<-rep("N",1722)
Bypass$SEASON<-Bypass$MONTH
Bypass[Bypass[, "MONTH"]==12, "SEASON"]=1
Bypass[Bypass[, "MONTH"]==1, "SEASON"]=1
Bypass[Bypass[, "MONTH"]==2, "SEASON"]=1
Bypass[Bypass[, "MONTH"]==3, "SEASON"]=2
Bypass[Bypass[, "MONTH"]==4, "SEASON"]=2
Bypass[Bypass[, "MONTH"]==5, "SEASON"]=2
Bypass[Bypass[, "MONTH"]==6, "SEASON"]=3
Bypass[Bypass[, "MONTH"]==7, "SEASON"]=3
Bypass[Bypass[, "MONTH"]==8, "SEASON"]=3
Bypass[Bypass[, "MONTH"]==9, "SEASON"]=4
Bypass[Bypass[, "MONTH"]==10, "SEASON"]=4
Bypass[Bypass[, "MONTH"]==11, "SEASON"]=4

Bypass$CRT<-Bypass$CRASH_SITE/Bypass$LENGTH
Bypass$COMPLETE<-rep(0,1722)

#####Read in the file RoadCit #####
Bpass<-Road
```

```

Bpass[Bpass$SID=="1"&Bpass$PERIOD=="After",]=Bypass[Bypass$SID=="1"&Bypass$PERIOD=="After",]
Bpass[Bpass$SID=="2"&Bpass$PERIOD=="After",]=Bypass[Bypass$SID=="2"&Bypass$PERIOD=="After",]
Bpass[Bpass$SID=="3"&Bpass$PERIOD=="After",]=Bypass[Bypass$SID=="3"&Bypass$PERIOD=="After",]
Bpass[Bpass$SID=="4"&Bpass$PERIOD=="After",]=Bypass[Bypass$SID=="4"&Bypass$PERIOD=="After",]
Bpass[Bpass$SID=="5"&Bpass$PERIOD=="After",]=Bypass[Bypass$SID=="5"&Bypass$PERIOD=="After",]
Bpass[Bpass$SID=="6"&Bpass$PERIOD=="After",]=Bypass[Bypass$SID=="6"&Bypass$PERIOD=="After",]
Bpass[Bpass$SID=="7"&Bpass$PERIOD=="After",]=Bypass[Bypass$SID=="7"&Bypass$PERIOD=="After",]
Bpass[Bpass$SID=="8"&Bpass$PERIOD=="After",]=Bypass[Bypass$SID=="8"&Bypass$PERIOD=="After",]
Bpass[Bpass$SID=="9"&Bpass$PERIOD=="After",]=Bypass[Bypass$SID=="9"&Bypass$PERIOD=="After",]
Bpass[Bpass$SID=="10"&Bpass$PERIOD=="After",]=Bypass[Bypass$SID=="10"&Bypass$PERIOD=="After",]
Bpass[Bpass$SID=="11"&Bpass$PERIOD=="After",]=Bypass[Bypass$SID=="11"&Bypass$PERIOD=="After",]
Bpass[Bpass$SID=="12"&Bpass$PERIOD=="After",]=Bypass[Bypass$SID=="12"&Bypass$PERIOD=="After",]
Bpass[Bpass$SID=="13"&Bpass$PERIOD=="After",]=Bypass[Bypass$SID=="13"&Bypass$PERIOD=="After",]
Bpass[Bpass$SID=="14"&Bpass$PERIOD=="After",]=Bypass[Bypass$SID=="14"&Bypass$PERIOD=="After",]
Bpass[Bpass$SID=="15"&Bpass$PERIOD=="After",]=Bypass[Bypass$SID=="15"&Bypass$PERIOD=="After",]
Bpass[Bpass$SID=="16"&Bpass$PERIOD=="After",]=Bypass[Bypass$SID=="16"&Bypass$PERIOD=="After",]
Bpass[Bpass$SID=="17"&Bpass$PERIOD=="After",]=Bypass[Bypass$SID=="17"&Bypass$PERIOD=="After",]
Bpass[Bpass$SID=="18"&Bpass$PERIOD=="After",]=Bypass[Bypass$SID=="18"&Bypass$PERIOD=="After",]
Bpass[Bpass$SID=="19"&Bpass$PERIOD=="After",]=Bypass[Bypass$SID=="19"&Bypass$PERIOD=="After",]

```

```
unique(Road$COMPLETE)
```

```
write.table(Bpass, file = "~/Desktop/Original Data May 24 07/Bypass/Bypass.csv", append = FALSE, sep = ",", col.names = TRUE)
```

Code for Lengths

```
###Replace "Sum" with "Road" for Road and Sum datasets and "RoadCit" or "SumCit" for Road Citizen and Sum Citizen
Datasets.#####
```

```
Sum<-read.table("~/Desktop/All Done DATA/Sum.txt",header=T)
Road<-read.table("~/Desktop/All Done DATA/Road.txt",header=T)
Bypass<-read.table("~/Desktop/All Done DATA/Bypass.txt",header=T)
```

```

Site1After<-mean(Sum$LENGTH[which(Sum$SID=="1"&Sum$PERIOD=="After")])
Site2After<-mean(Sum$LENGTH[which(Sum$SID=="2"&Sum$PERIOD=="After")])
Site3After<-mean(Sum$LENGTH[which(Sum$SID=="3"&Sum$PERIOD=="After")])
Site4After<-mean(Sum$LENGTH[which(Sum$SID=="4"&Sum$PERIOD=="After")])
Site5After<-mean(Sum$LENGTH[which(Sum$SID=="5"&Sum$PERIOD=="After")])
Site6After<-mean(Sum$LENGTH[which(Sum$SID=="6"&Sum$PERIOD=="After")])
Site7After<-mean(Sum$LENGTH[which(Sum$SID=="7"&Sum$PERIOD=="After")])
Site8After<-mean(Sum$LENGTH[which(Sum$SID=="8"&Sum$PERIOD=="After")])
Site9After<-mean(Sum$LENGTH[which(Sum$SID=="9"&Sum$PERIOD=="After")])
Site10After<-mean(Sum$LENGTH[which(Sum$SID=="10"&Sum$PERIOD=="After")])
Site11After<-mean(Sum$LENGTH[which(Sum$SID=="11"&Sum$PERIOD=="After")])
Site12After<-mean(Sum$LENGTH[which(Sum$SID=="12"&Sum$PERIOD=="After")])
Site13After<-mean(Sum$LENGTH[which(Sum$SID=="13"&Sum$PERIOD=="After")])
Site14After<-mean(Sum$LENGTH[which(Sum$SID=="14"&Sum$PERIOD=="After")])
Site15After<-mean(Sum$LENGTH[which(Sum$SID=="15"&Sum$PERIOD=="After")])
Site16After<-mean(Sum$LENGTH[which(Sum$SID=="16"&Sum$PERIOD=="After")])
Site17After<-mean(Sum$LENGTH[which(Sum$SID=="17"&Sum$PERIOD=="After")])
Site18After<-mean(Sum$LENGTH[which(Sum$SID=="18"&Sum$PERIOD=="After")])
Site19After<-mean(Sum$LENGTH[which(Sum$SID=="19"&Sum$PERIOD=="After")])
Site20After<-mean(Sum$LENGTH[which(Sum$SID=="20"&Sum$PERIOD=="After")])
Site21After<-mean(Sum$LENGTH[which(Sum$SID=="21"&Sum$PERIOD=="After")])
Site22After<-mean(Sum$LENGTH[which(Sum$SID=="22"&Sum$PERIOD=="After")])
Site23After<-mean(Sum$LENGTH[which(Sum$SID=="23"&Sum$PERIOD=="After")])
Site24After<-mean(Sum$LENGTH[which(Sum$SID=="24"&Sum$PERIOD=="After")])
Site25After<-mean(Sum$LENGTH[which(Sum$SID=="25"&Sum$PERIOD=="After")])

```

```
SumLengths<-
```

```

rbind(Site1After,Site2After,Site3After,Site4After,Site5After,Site6After,Site7After,Site8After,Site9After,Site10After,Site11After,Site12After,
Site13After,Site14After,Site15After,Site16After,Site17After,Site18After,Site19After,Site20After,Site21After,Site22After,Site23After,Site
e24After,Site25After)

```

```
Road<-read.table("~/Desktop/All Done DATA/Road.txt",header=T)
```

```
Road1Before<-mean(Road$LENGTH[which(Road$SID=="1")])
```

```
Road2Before<-mean(Road$LENGTH[which(Road$SID=="2")])
```

```

Road3Before<-mean(Road$LENGTH[which(Road$SID=="3")])
Road4Before<-mean(Road$LENGTH[which(Road$SID=="4")])
Road5Before<-mean(Road$LENGTH[which(Road$SID=="5")])
Road6Before<-mean(Road$LENGTH[which(Road$SID=="6")])
Road7Before<-mean(Road$LENGTH[which(Road$SID=="7")])
Road8Before<-mean(Road$LENGTH[which(Road$SID=="8")])
Road9Before<-mean(Road$LENGTH[which(Road$SID=="9")])
Road10Before<-mean(Road$LENGTH[which(Road$SID=="10")])
Road11Before<-mean(Road$LENGTH[which(Road$SID=="11")])
Road12Before<-mean(Road$LENGTH[which(Road$SID=="12")])
Road13Before<-mean(Road$LENGTH[which(Road$SID=="13")])
Road14Before<-mean(Road$LENGTH[which(Road$SID=="14")])
Road15Before<-mean(Road$LENGTH[which(Road$SID=="15")])
Road16Before<-mean(Road$LENGTH[which(Road$SID=="16")])
Road17Before<-mean(Road$LENGTH[which(Road$SID=="17")])
Road18Before<-mean(Road$LENGTH[which(Road$SID=="18")])
Road19Before<-mean(Road$LENGTH[which(Road$SID=="19")])
Road20Before<-mean(Road$LENGTH[which(Road$SID=="20")])
Road21Before<-mean(Road$LENGTH[which(Road$SID=="21")])
Road22Before<-mean(Road$LENGTH[which(Road$SID=="22")])
Road23Before<-mean(Road$LENGTH[which(Road$SID=="23")])
Road24Before<-mean(Road$LENGTH[which(Road$SID=="24")])
Road25Before<-mean(Road$LENGTH[which(Road$SID=="25")])

```

```
ThruLengths<-
```

```

rbind(Road1Before,Road2Before,Road3Before,Road4Before,Road5Before,Road6Before,Road7Before,Road8Before,Road9Before,Road10
Before,Road11Before,Road12Before,Road13Before,Road14Before,Road15Before,Road16Before,Road17Before,Road18Before,Road19Before,
Road20Before,Road21Before,Road22Before,Road23Before,Road24Before,Road25Before)

```

```

Bypass1After<-mean(Bypass$LENGTH[which(Bypass$SID=="1"&Bypass$PERIOD=="After")])
Bypass2After<-mean(Bypass$LENGTH[which(Bypass$SID=="2"&Bypass$PERIOD=="After")])
Bypass3After<-mean(Bypass$LENGTH[which(Bypass$SID=="3"&Bypass$PERIOD=="After")])
Bypass4After<-mean(Bypass$LENGTH[which(Bypass$SID=="4"&Bypass$PERIOD=="After")])
Bypass5After<-mean(Bypass$LENGTH[which(Bypass$SID=="5"&Bypass$PERIOD=="After")])
Bypass6After<-mean(Bypass$LENGTH[which(Bypass$SID=="6"&Bypass$PERIOD=="After")])
Bypass7After<-mean(Bypass$LENGTH[which(Bypass$SID=="7"&Bypass$PERIOD=="After")])
Bypass8After<-mean(Bypass$LENGTH[which(Bypass$SID=="8"&Bypass$PERIOD=="After")])
Bypass9After<-mean(Bypass$LENGTH[which(Bypass$SID=="9"&Bypass$PERIOD=="After")])
Bypass10After<-mean(Bypass$LENGTH[which(Bypass$SID=="10"&Bypass$PERIOD=="After")])
Bypass11After<-mean(Bypass$LENGTH[which(Bypass$SID=="11"&Bypass$PERIOD=="After")])
Bypass12After<-mean(Bypass$LENGTH[which(Bypass$SID=="12"&Bypass$PERIOD=="After")])
Bypass13After<-mean(Bypass$LENGTH[which(Bypass$SID=="13"&Bypass$PERIOD=="After")])
Bypass14After<-mean(Bypass$LENGTH[which(Bypass$SID=="14"&Bypass$PERIOD=="After")])
Bypass15After<-mean(Bypass$LENGTH[which(Bypass$SID=="15"&Bypass$PERIOD=="After")])
Bypass16After<-mean(Bypass$LENGTH[which(Bypass$SID=="16"&Bypass$PERIOD=="After")])
Bypass17After<-mean(Bypass$LENGTH[which(Bypass$SID=="17"&Bypass$PERIOD=="After")])
Bypass18After<-mean(Bypass$LENGTH[which(Bypass$SID=="18"&Bypass$PERIOD=="After")])
Bypass19After<-mean(Bypass$LENGTH[which(Bypass$SID=="19"&Bypass$PERIOD=="After")])
Bypass20After<-mean(Bypass$LENGTH[which(Bypass$SID=="20"&Bypass$PERIOD=="After")])
Bypass21After<-mean(Bypass$LENGTH[which(Bypass$SID=="21"&Bypass$PERIOD=="After")])
Bypass22After<-mean(Bypass$LENGTH[which(Bypass$SID=="22"&Bypass$PERIOD=="After")])
Bypass23After<-mean(Bypass$LENGTH[which(Bypass$SID=="23"&Bypass$PERIOD=="After")])
Bypass24After<-mean(Bypass$LENGTH[which(Bypass$SID=="24"&Bypass$PERIOD=="After")])
Bypass25After<-mean(Bypass$LENGTH[which(Bypass$SID=="25"&Bypass$PERIOD=="After")])

```

```
BypassLengths<-
```

```

rbind(Bypass1After,Bypass2After,Bypass3After,Bypass4After,Bypass5After,Bypass6After,Bypass7After,Bypass8After,Bypass9After,Byp
ass10After,Bypass11After,Bypass12After,Bypass13After,Bypass14After,Bypass15After,Bypass16After,Bypass17After,Bypass18After,Byp
ass19After,Bypass20After,Bypass21After,Bypass22After,Bypass23After,Bypass24After,Bypass25After)

```

```
AllLengths<-cbind(ThruLengths,BypassLengths,SumLengths)
```

```
write.table(AllLengths,file=~"/Desktop/Result Tables/Lengths.csv", append=FALSE, sep="," ,col.names=TRUE)
```

Code for Raw Means

```
###Replace "Sum" with "Road" for Road and Sum datasets and "RoadCit" or "SumCit" for Road Citizen and Sum Citizen
```

Datasets.#####

```
Sum<-read.table("~/Desktop/All Done DATA/Sum.txt",header=T)
```

```
Site1Before<-mean(Sum$CRT[which(Sum$SID=="1"&Sum$PERIOD=="Before")])
Site1After<-mean(Sum$CRT[which(Sum$SID=="1"&Sum$PERIOD=="After")])
Site2Before<-mean(Sum$CRT[which(Sum$SID=="2"&Sum$PERIOD=="Before")])
Site2After<-mean(Sum$CRT[which(Sum$SID=="2"&Sum$PERIOD=="After")])
Site3Before<-mean(Sum$CRT[which(Sum$SID=="3"&Sum$PERIOD=="Before")])
Site3After<-mean(Sum$CRT[which(Sum$SID=="3"&Sum$PERIOD=="After")])
Site4Before<-mean(Sum$CRT[which(Sum$SID=="4"&Sum$PERIOD=="Before")])
Site4After<-mean(Sum$CRT[which(Sum$SID=="4"&Sum$PERIOD=="After")])
Site5Before<-mean(Sum$CRT[which(Sum$SID=="5"&Sum$PERIOD=="Before")])
Site5After<-mean(Sum$CRT[which(Sum$SID=="5"&Sum$PERIOD=="After")])
Site6Before<-mean(Sum$CRT[which(Sum$SID=="6"&Sum$PERIOD=="Before")])
Site6After<-mean(Sum$CRT[which(Sum$SID=="6"&Sum$PERIOD=="After")])
Site7Before<-mean(Sum$CRT[which(Sum$SID=="7"&Sum$PERIOD=="Before")])
Site7After<-mean(Sum$CRT[which(Sum$SID=="7"&Sum$PERIOD=="After")])
Site8Before<-mean(Sum$CRT[which(Sum$SID=="8"&Sum$PERIOD=="Before")])
Site8After<-mean(Sum$CRT[which(Sum$SID=="8"&Sum$PERIOD=="After")])
Site9Before<-mean(Sum$CRT[which(Sum$SID=="9"&Sum$PERIOD=="Before")])
Site9After<-mean(Sum$CRT[which(Sum$SID=="9"&Sum$PERIOD=="After")])
Site10Before<-mean(Sum$CRT[which(Sum$SID=="10"&Sum$PERIOD=="Before")])
Site10After<-mean(Sum$CRT[which(Sum$SID=="10"&Sum$PERIOD=="After")])
Site11Before<-mean(Sum$CRT[which(Sum$SID=="11"&Sum$PERIOD=="Before")])
Site11After<-mean(Sum$CRT[which(Sum$SID=="11"&Sum$PERIOD=="After")])
Site12Before<-mean(Sum$CRT[which(Sum$SID=="12"&Sum$PERIOD=="Before")])
Site12After<-mean(Sum$CRT[which(Sum$SID=="12"&Sum$PERIOD=="After")])
Site13Before<-mean(Sum$CRT[which(Sum$SID=="13"&Sum$PERIOD=="Before")])
Site13After<-mean(Sum$CRT[which(Sum$SID=="13"&Sum$PERIOD=="After")])
Site14Before<-mean(Sum$CRT[which(Sum$SID=="14"&Sum$PERIOD=="Before")])
Site14After<-mean(Sum$CRT[which(Sum$SID=="14"&Sum$PERIOD=="After")])
Site15Before<-mean(Sum$CRT[which(Sum$SID=="15"&Sum$PERIOD=="Before")])
Site15After<-mean(Sum$CRT[which(Sum$SID=="15"&Sum$PERIOD=="After")])
Site16Before<-mean(Sum$CRT[which(Sum$SID=="16"&Sum$PERIOD=="Before")])
Site16After<-mean(Sum$CRT[which(Sum$SID=="16"&Sum$PERIOD=="After")])
Site17Before<-mean(Sum$CRT[which(Sum$SID=="17"&Sum$PERIOD=="Before")])
Site17After<-mean(Sum$CRT[which(Sum$SID=="17"&Sum$PERIOD=="After")])
Site18Before<-mean(Sum$CRT[which(Sum$SID=="18"&Sum$PERIOD=="Before")])
Site18After<-mean(Sum$CRT[which(Sum$SID=="18"&Sum$PERIOD=="After")])
Site19Before<-mean(Sum$CRT[which(Sum$SID=="19"&Sum$PERIOD=="Before")])
Site19After<-mean(Sum$CRT[which(Sum$SID=="19"&Sum$PERIOD=="After")])
Site20Before<-mean(Sum$CRT[which(Sum$SID=="20"&Sum$PERIOD=="Before")])
Site20After<-mean(Sum$CRT[which(Sum$SID=="20"&Sum$PERIOD=="After")])
Site21Before<-mean(Sum$CRT[which(Sum$SID=="21"&Sum$PERIOD=="Before")])
Site21After<-mean(Sum$CRT[which(Sum$SID=="21"&Sum$PERIOD=="After")])
Site22Before<-mean(Sum$CRT[which(Sum$SID=="22"&Sum$PERIOD=="Before")])
Site22After<-mean(Sum$CRT[which(Sum$SID=="22"&Sum$PERIOD=="After")])
Site23Before<-mean(Sum$CRT[which(Sum$SID=="23"&Sum$PERIOD=="Before")])
Site23After<-mean(Sum$CRT[which(Sum$SID=="23"&Sum$PERIOD=="After")])
Site24Before<-mean(Sum$CRT[which(Sum$SID=="24"&Sum$PERIOD=="Before")])
Site24After<-mean(Sum$CRT[which(Sum$SID=="24"&Sum$PERIOD=="After")])
Site25Before<-mean(Sum$CRT[which(Sum$SID=="25"&Sum$PERIOD=="Before")])
Site25After<-mean(Sum$CRT[which(Sum$SID=="25"&Sum$PERIOD=="After")])
```

```
RoadBeforeMeans<-
```

```
rbind(Site1Before,Site2Before,Site3Before,Site4Before,Site5Before,Site6Before,Site7Before,Site8Before,Site9Before,Site10Before,Site11Before,Site12Before,Site13Before,Site14Before,Site15Before,Site16Before,Site17Before,Site18Before,Site19Before,Site20Before,Site21Before,Site22Before,Site23Before,Site24Before,Site25Before)
```

```
SumMeansAfter<-
```

```
rbind(Site1After,Site2After,Site3After,Site4After,Site5After,Site6After,Site7After,Site8After,Site9After,Site10After,Site11After,Site12After,Site13After,Site14After,Site15After,Site16After,Site17After,Site18After,Site19After,Site20After,Site21After,Site22After,Site23After,Site24After,Site25After)
```

```
AllRawMeans<-cbind(RawMeans,RawMeansAfter)
```

```
AllRawYearly<-AllRawMeans*12
```

```
RawDiff<-cbind(AllRawYearly[,2]-AllRawYearly[,1])
```

```

RawReduc<-100-100*(AllRawYearly[,2]/AllRawYearly[,1])
AllRaw<-cbind(AllRawYearly,RawDiff,RawReduc)
write.table(AllRaw,file="~/Desktop/Result Tables/Sum/RawFreqMeans.csv", append=FALSE, sep=",".col.names=TRUE)
Site13After<-mean(Road$CRT[which(Road$SID=="13"&Road$PERIOD=="After")])*12
Site13Before<-mean(Road$CRT[which(Road$SID=="13"&Road$PERIOD=="Before")])*12

```

Code for Raw Data Plots

```

Road<-read.table("~/Desktop/All Done DATA/Road.txt",header=T)
Sum<-read.table("~/Desktop/All Done DATA/Sum.txt",header=T)
Bypass<-read.table("~/Desktop/All Done DATA/Bypass.txt",header=T)
library(KernSmooth)

s1B<-c(rep(288,13),264,rep(288,2),rep(264,2),rep(288,7))
s1dB<-rep(0,25)
for (i in 1:25)
{yind<-sum(s1B[1:i])
s1dB[i]<-dpill((1:s1B[i]),(Bypass$CRT[((yind-s1B[i]+1):yind)]))}

s1R<-c(rep(288,13),264,rep(288,2),rep(264,2),rep(288,7))
s1dR<-rep(0,25)
for (i in 1:25)
{yind<-sum(s1R[1:i])
s1dR[i]<-dpill((1:s1R[i]),(Road$CRT[((yind-s1R[i]+1):yind)]))}

s1S<-c(rep(288,13),264,rep(288,2),rep(264,2),rep(288,7))
s1dS<-rep(0,25)
for (i in 1:25)
{yind<-sum(s1S[1:i])
s1dS[i]<-dpill((1:s1S[i]),(Sum$CRT[((yind-s1S[i]+1):yind)]))}

#1 Road
x<-1:288
y<- (Road$CRT)[which(Road$SID==1)]
sy<- locpoly(x,y,bandwidth=s1dR[1])
jpeg("~/Desktop/BeforePlots/1A.jpg",width=620,height=480)
#jpeg("~/Desktop/BeforePlots/1R.jpg",width=620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(228,228),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 1B. Road monthly crashes per mile, SID=1, Sioux City",font.sub=4)
dev.off()

#1 Bypass
y<- (Bypass$CRT)[which(Bypass$SID==1)]
sy<- locpoly(x,y,bandwidth=s1dB[1])
#jpeg("~/Desktop/AfterPlots/1.jpg",width=620,height=480)
jpeg("~/Desktop/BypassPlots/1B.jpg",width=620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(228,228),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 2B. Bypass monthly crashes per mile, SID=1, Sioux City",font.sub=4)
dev.off()

#1 Sum
y<- (Sum$CRT)[which(Sum$SID==1)]
sy<- locpoly(x,y,bandwidth=s1dS[1])
#jpeg("~/Desktop/SumPlots/1.jpg",width=620,height=480)
jpeg("~/Desktop/SumPlots/1S.jpg",width=620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(228,228),c(-1,5))

```

```

legend(-1.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 3B. Road + Bypass monthly crashes per mile, SID=1",font.sub=4)
dev.off()

#2 Road
x<-1:288
y<- (Road$CRT)[which(Road$SID==2)]
sy<- locpoly(x,y,bandwidth=sbdR[2])
#jpeg("~/Desktop/BeforePlots/2.jpg",width=620,height=480)
jpeg("~/Desktop/BeforePlots/2R.jpg",width=620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(264,264),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 4B. Road monthly crashes per mile, SID=2, Alton",font.sub=4)
dev.off()

#2 Bypass
y<- (Bypass$CRT)[which(Bypass$SID==2)]
sy<- locpoly(x,y,bandwidth=sbdB[2])
#jpeg("~/Desktop/AfterPlots/2.jpg",width=620,height=480)
jpeg("~/Desktop/BypassPlots/2B.jpg",width=620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(264,264),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 5B. Bypass monthly crashes per mile, SID=2, Alton",font.sub=4)
dev.off()

#2 Sum
y<- (Sum$CRT)[which(Sum$SID==2)]
sy<- locpoly(x,y,bandwidth=sbdS[2])
#jpeg("~/Desktop/SumPlots/2.jpg",width=620,height=480)
jpeg("~/Desktop/SumPlots/2S.jpg",width=620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(264,264),c(-1,5))
legend(-1.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 6B. Road + Bypass monthly crashes per mile, SID=2",font.sub=4)
dev.off()

#3 Road
x<-1:288
y<- (Road$CRT)[which(Road$SID==3)]
sy<- locpoly(x,y,bandwidth=sbdR[3])
#jpeg("~/Desktop/BeforePlots/3.jpg",width=620,height=480)
jpeg("~/Desktop/BeforePlots/3R.jpg",width = 620, height = 480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(180,180),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 7B. Road monthly crashes per mile, SID=3, Storm Lake",font.sub=4)
dev.off()

#3 Bypass
y<- (Bypass$CRT)[which(Bypass$SID==3)]
sy<- locpoly(x,y,bandwidth=sbdB[3])
#jpeg("~/Desktop/AfterPlots/3.jpg",width=620,height=480)
jpeg("~/Desktop/BypassPlots/3B.jpg",width = 620, height = 480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(180,180),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )

```



```
title(sub="Figure 8B. Bypass monthly crashes per mile, SID=3, Storm Lake",font.sub=4)
dev.off()
```

```
#3 Sum
y<- (Sum$CRT)[which(Sum$SID==3)]
sy<- locpoly(x,y,bandwidth=sbdS[3])
#jpeg("~/Desktop/SumPlots/3.jpg",width=620,height=480)
jpeg("~/Desktop/SumPlots/3S.jpg",width = 620,height = 480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(180,180),c(-1,5))
legend(-1,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 9B. Road + Bypass monthly crashes per mile, SID=3",font.sub=4)
dev.off()
```

```
#4 Road
x<-1:288
y<- (Road$CRT)[which(Road$SID==4)]
sy<- locpoly(x,y,bandwidth=sbdR[4])
#jpeg("~/Desktop/BeforePlots/4.jpg",width=620,height=480)
jpeg("~/Desktop/BeforePlots/4R.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(252,252),c(-1,5))
legend(0,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 10B. Road monthly crashes per mile, SID=4, Pleasantville",font.sub=4)
dev.off()
```

```
#4 Bypass
y<- (Bypass$CRT)[which(Bypass$SID==4)]
sy<- locpoly(x,y,bandwidth=sbdB[4])
#jpeg("~/Desktop/AfterPlots/4.jpg",width=620,height=480)
jpeg("~/Desktop/BypassPlots/4B.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(252,252),c(-1,5))
legend(0,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 11B. Bypass monthly crashes per mile, SID=4, Pleasantville",font.sub=4)
dev.off()
```

```
#4 Sum
y<- (Sum$CRT)[which(Sum$SID==4)]
sy<- locpoly(x,y,bandwidth=sbdS[4])
#jpeg("~/Desktop/SumPlots/4.jpg",width=620,height=480)
jpeg("~/Desktop/SumPlots/4S.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(252,252),c(-1,5))
legend(-1,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 12B. Road + Bypass monthly crashes per mile, SID=4",font.sub=4)
dev.off()
```

```
#5 Road
x<-1:288
y<- (Road$CRT)[which(Road$SID==5)]
sy<- locpoly(x,y,bandwidth=sbdR[5])
#jpeg("~/Desktop/BeforePlots/5.jpg",width=620,height=480)
jpeg("~/Desktop/BeforePlots/5R.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(192,192),c(-1,5))
legend(0,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 13B. Road monthly crashes per mile, SID=5, Prairie City",font.sub=4)
```

```

dev.off()

#5 Bypass
y<- (Bypass$CRT)[which(Bypass$SID==5)]
sy<- locpoly(x,y,bandwidth=sdbB[5])
#jpeg("~/Desktop/AfterPlots/5.jpg",width=620,height=480)
jpeg("~/Desktop/BypassPlots/5B.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(192,192),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 14B. Bypass monthly crashes per mile, SID=5, Prairie City",font.sub=4)
dev.off()

#5 Sum
y<- (Sum$CRT)[which(Sum$SID==5)]
sy<- locpoly(x,y,bandwidth=sdbS[5])
#jpeg("~/Desktop/SumPlots/5.jpg",width=620,height=480)
jpeg("~/Desktop/SumPlots/5S.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(192,192),c(-1,5))
legend(-1,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 15B. Road + Bypass monthly crashes per mile, SID=5",font.sub=4)
dev.off()

#6 Road
x<-1:288
y<- (Road$CRT)[which(Road$SID==6)]
sy<- locpoly(x,y,bandwidth=sdbR[6])
#jpeg("~/Desktop/BeforePlots/6.jpg",width=620,height=480)
jpeg("~/Desktop/BeforePlots/6R.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(204,204),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 16B. Road monthly crashes per mile, SID=6, Monroe",font.sub=4)
dev.off()

#6 Bypass
y<- (Bypass$CRT)[which(Bypass$SID==6)]
sy<- locpoly(x,y,bandwidth=sdbB[6])
#jpeg("~/Desktop/AfterPlots/6.jpg",width=620,height=480)
jpeg("~/Desktop/BypassPlots/6B.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(204,204),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 17B. Bypass monthly crashes per mile, SID=6, Monroe",font.sub=4)
dev.off()

#6 Sum
y<- (Sum$CRT)[which(Sum$SID==6)]
sy<- locpoly(x,y,bandwidth=sdbS[6])
#jpeg("~/Desktop/SumPlots/6.jpg",width=620,height=480)
jpeg("~/Desktop/SumPlots/6S.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(204,204),c(-1,5))
legend(-1,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 18B. Road + Bypass monthly crashes per mile, SID=6",font.sub=4)
dev.off()

```

```

#7 Road
x<-1:288
y<- (Road$CRT)[which(Road$SID==7)]
sy<- locpoly(x,y,bandwidth=sbdR[7])
#jpeg("~/Desktop/BeforePlots/7.jpg",width=620,height=480)
jpeg("~/Desktop/BeforePlots/7R.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(204,204),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 19B. Road monthly crashes per mile, SID=7, Otley",font.sub=4)
dev.off()

#7 Bypass
y<- (Bypass$CRT)[which(Bypass$SID==7)]
sy<- locpoly(x,y,bandwidth=sbdB[7])
#jpeg("~/Desktop/AfterPlots/7.jpg",width=620,height=480)
jpeg("~/Desktop/BypassPlots/7B.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(204,204),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 20B. Bypass monthly crashes per mile, SID=7, Otley",font.sub=4)
dev.off()

#7 Sum
y<- (Sum$CRT)[which(Sum$SID==7)]
sy<- locpoly(x,y,bandwidth=sbdS[7])
#jpeg("~/Desktop/SumPlots/7.jpg",width=620,height=480)
jpeg("~/Desktop/SumPlots/7S.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(204,204),c(-1,5))
legend(-1.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 21B. Road + Bypass monthly crashes per mile, SID=7",font.sub=4)
dev.off()

#8 Road
x<-1:288
y<- (Road$CRT)[which(Road$SID==8)]
sy<- locpoly(x,y,bandwidth=sbdR[8])
#jpeg("~/Desktop/BeforePlots/8.jpg",width=620,height=480)
jpeg("~/Desktop/BeforePlots/8R.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(156,156),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 22B. Road monthly crashes per mile, SID=8, Pella",font.sub=4)
dev.off()

#8 Bypass
y<- (Bypass$CRT)[which(Bypass$SID==8)]
sy<- locpoly(x,y,bandwidth=sbdB[8])
#jpeg("~/Desktop/AfterPlots/8.jpg",width=620,height=480)
jpeg("~/Desktop/BypassPlots/8B.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(156,156),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 23B. Bypass monthly crashes per mile, SID=8, Pella",font.sub=4)
dev.off()

#8 Sum

```

```

y<- (Sum$CRT)[which(Sum$SID==8)]
sy<- locpoly(x,y,bandwidth=sbdS[8])
#jpeg("~/Desktop/SumPlots/8.jpg",width=620,height=480)
jpeg("~/Desktop/SumPlots/8S.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(156,156),c(-1,5))
legend(-1,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 24B. Road + Bypass monthly crashes per mile, SID=8",font.sub=4)
dev.off()

#9 Road
x<-1:288
y<- (Road$CRT)[which(Road$SID==9)]
sy<- locpoly(x,y,bandwidth=sbdR[9])
#jpeg("~/Desktop/BeforePlots/9.jpg",width=620,height=480)
jpeg("~/Desktop/BeforePlots/9R.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(192,192),c(-1,5))
legend(0,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 25B. Road monthly crashes per mile, SID=9, Oskaloosa",font.sub=4)
dev.off()

#9 Bypass
y<- (Bypass$CRT)[which(Bypass$SID==9)]
sy<- locpoly(x,y,bandwidth=sbdB[9])
#jpeg("~/Desktop/AfterPlots/9.jpg",width=620,height=480)
jpeg("~/Desktop/BypassPlots/9B.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(192,192),c(-1,5))
legend(0,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 26B. Bypass monthly crashes per mile, SID=9, Oskaloosa",font.sub=4)
dev.off()

#9 Sum
y<- (Sum$CRT)[which(Sum$SID==9)]
sy<- locpoly(x,y,bandwidth=sbdS[9])
#jpeg("~/Desktop/SumPlots/9.jpg",width=620,height=480)
jpeg("~/Desktop/SumPlots/9S.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(192,192),c(-1,5))
legend(-1,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 27B. Road + Bypass monthly crashes per mile, SID=9",font.sub=4)
dev.off()

#10 Road
x<-1:288
y<- (Road$CRT)[which(Road$SID==10)]
sy<- locpoly(x,y,bandwidth=sbdR[10])
#jpeg("~/Desktop/BeforePlots/10.jpg",width=620,height=480)
jpeg("~/Desktop/BeforePlots/10R.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(204,204),c(-1,5))
legend(0,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 28B. Road monthly crashes per mile, SID=10, Swedesburg",font.sub=4)
dev.off()

#10 Bypass
y<- (Bypass$CRT)[which(Bypass$SID==10)]

```

```

sy<- locpoly(x,y,bandwidth=sbdB[10])
#jpeg("~/Desktop/AfterPlots/10.jpg",width=620,height=480)
jpeg("~/Desktop/BypassPlots/10B.jpg",width=620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(204,204),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 29B. Bypass monthly crashes per mile, SID=10, Swedesburg",font.sub=4)
dev.off()

#10 Sum
y<- (Sum$CRT)[which(Sum$SID==10)]
sy<- locpoly(x,y,bandwidth=sbdS[10])
#jpeg("~/Desktop/SumPlots/10.jpg",width=620,height=480)
jpeg("~/Desktop/SumPlots/10S.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(204,204),c(-1,5))
legend(-1,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 30B. Road + Bypass monthly crashes per mile, SID=10",font.sub=4)
dev.off()

#11 Road
x<-1:288
y<- (Road$CRT)[which(Road$SID==11)]
sy<- locpoly(x,y,bandwidth=sbdR[11])
#jpeg("~/Desktop/BeforePlots/11.jpg",width=620,height=480)
jpeg("~/Desktop/BeforePlots/11R.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(216,216),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 31B. Road monthly crashes per mile, SID=11, New London",font.sub=4)
dev.off()

#11 Bypass
y<- (Bypass$CRT)[which(Bypass$SID==11)]
sy<- locpoly(x,y,bandwidth=sbdB[11])
#jpeg("~/Desktop/AfterPlots/11.jpg",width=620,height=480)
jpeg("~/Desktop/BypassPlots/11B.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(216,216),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 32B. Bypass monthly crashes per mile, SID=11, New London",font.sub=4)
dev.off()

#11 Sum
y<- (Sum$CRT)[which(Sum$SID==11)]
sy<- locpoly(x,y,bandwidth=sbdS[11])
#jpeg("~/Desktop/SumPlots/11.jpg",width=620,height=480)
jpeg("~/Desktop/SumPlots/11S.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(216,216),c(-1,5))
legend(-1,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 33B. Road + Bypass monthly crashes per mile, SID=11",font.sub=4)
dev.off()

#12 Road
x<-1:288
y<- (Road$CRT)[which(Road$SID==12)]
sy<- locpoly(x,y,bandwidth=sbdR[12])

```

```

#jpeg("~/Desktop/BeforePlots/12.jpg",width=620,height=480)
jpeg("~/Desktop/BeforePlots/12R.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(228,228),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 34B. Road monthly crashes per mile, SID=12, Blue Grass",font.sub=4)
dev.off()

```

```

#12 Bypass
y<- (Bypass$CRT)[which(Bypass$SID==12)]
sy<- locpoly(x,y,bandwidth=sbdB[12])
#jpeg("~/Desktop/AfterPlots/12.jpg",width=620,height=480)
jpeg("~/Desktop/BypassPlots/12B.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(228,228),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 35B. Bypass monthly crashes per mile, SID=12, Blue Grass",font.sub=4)
dev.off()

```

```

#12 Sum
y<- (Sum$CRT)[which(Sum$SID==12)]
sy<- locpoly(x,y,bandwidth=sbdS[12])
#jpeg("~/Desktop/SumPlots/12.jpg",width=620,height=480)
jpeg("~/Desktop/SumPlots/12S.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(228,228),c(-1,5))
legend(-1.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 36B. Road + Bypass monthly crashes per mile, SID=12",font.sub=4)
dev.off()

```

```

#13 Road
x<-1:288
y<- (Road$CRT)[which(Road$SID==13)]
sy<- locpoly(x,y,bandwidth=sbdR[13])
#jpeg("~/Desktop/BeforePlots/13.jpg",width=620,height=480)
jpeg("~/Desktop/BeforePlots/13R.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,8))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(180,180),c(-1,8))
legend(70,0.75, legend = typ.names, lty =c(3,1) )
title(sub="Figure 37B. Road monthly crashes per mile, SID=13, Marion",font.sub=4)
dev.off()

```

```

#13 Bypass
y<- (Bypass$CRT)[which(Bypass$SID==13)]
sy<- locpoly(x,y,bandwidth=sbdB[13])
#jpeg("~/Desktop/AfterPlots/13.jpg",width=620,height=480)
jpeg("~/Desktop/BypassPlots/13B.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,8))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(180,180),c(-1,8))
legend(195,7, legend = typ.names, lty =c(3,1) )
title(sub="Figure 38B. Bypass monthly crashes per mile, SID=13, Marion",font.sub=4)
dev.off()

```

```

#13 Sum
y<- (Sum$CRT)[which(Sum$SID==13)]
sy<- locpoly(x,y,bandwidth=sbdS[13])
#jpeg("~/Desktop/SumPlots/13.jpg",width=620,height=480)
jpeg("~/Desktop/SumPlots/13S.jpg",width = 620,height=480)

```

```

plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,8))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(180,180),c(-1,8))
legend(195,7, legend = typ.names, lty =c(3,1) )
title(sub="Figure 39B. Road + Bypass monthly crashes per mile, SID=13",font.sub=4)
dev.off()

#14 Road
x<-1:264
y<- (Road$CRT)[which(Road$SID==14)]
sy<- locpoly(x,y,bandwidth=sbdR[14])
#jpeg("~/Desktop/BeforePlots/14.jpg",width=620,height=480)
jpeg("~/Desktop/BeforePlots/14R.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(180,180),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 40B. Road monthly crashes per mile, SID=14, Waverly",font.sub=4)
dev.off()

#14 Bypass
y<- (Bypass$CRT)[which(Bypass$SID==14)]
sy<- locpoly(x,y,bandwidth=sbdB[14])
#jpeg("~/Desktop/AfterPlots/14.jpg",width=620,height=480)
jpeg("~/Desktop/BypassPlots/14B.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(180,180),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 41B. Bypass monthly crashes per mile, SID=14, Waverly",font.sub=4)
dev.off()

#14 Sum
y<- (Sum$CRT)[which(Sum$SID==14)]
sy<- locpoly(x,y,bandwidth=sbdS[14])
#jpeg("~/Desktop/SumPlots/14.jpg",width=620,height=480)
jpeg("~/Desktop/SumPlots/14S.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(180,180),c(-1,5))
legend(-1,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 42B. Road + Bypass monthly crashes per mile, SID=14",font.sub=4)
dev.off()

#15 Road
x<-1:288
y<- (Road$CRT)[which(Road$SID==15)]
sy<- locpoly(x,y,bandwidth=sbdR[15])
#jpeg("~/Desktop/BeforePlots/15.jpg",width=620,height=480)
jpeg("~/Desktop/BeforePlots/15R.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(216,216),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 43B. Road monthly crashes per mile, SID=15, Charles City",font.sub=4)
dev.off()

#15 Bypass
y<- (Bypass$CRT)[which(Bypass$SID==15)]
sy<- locpoly(x,y,bandwidth=sbdB[15])
#jpeg("~/Desktop/AfterPlots/15.jpg",width=620,height=480)
jpeg("~/Desktop/BypassPlots/15B.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))

```

```

lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(216,216),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 44B. Bypass monthly crashes per mile, SID=15, Charles City",font.sub=4)
dev.off()

```

```

#15 Sum
y<- (Sum$CRT)[which(Sum$SID==15)]
sy<- locpoly(x,y,bandwidth=sbdS[15])
#jpeg("~/Desktop/SumPlots/15.jpg",width=620,height=480)
jpeg("~/Desktop/SumPlots/15S.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(216,216),c(-1,5))
legend(-1,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 45B. Road + Bypass monthly crashes per mile, SID=15",font.sub=4)
dev.off()

```

```

#16 Road
x<-1:288
y<- (Road$CRT)[which(Road$SID==16)]
sy<- locpoly(x,y,bandwidth=sbdR[16])
#jpeg("~/Desktop/BeforePlots/16.jpg",width=620,height=480)
jpeg("~/Desktop/BeforePlots/16R.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(204,204),c(-1,5))
legend(0,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 46B. Road monthly crashes per mile, SID=16, Rudd",font.sub=4)
dev.off()

```

```

#16 Bypass
y<- (Bypass$CRT)[which(Bypass$SID==16)]
sy<- locpoly(x,y,bandwidth=sbdB[16])
#jpeg("~/Desktop/AfterPlots/16.jpg",width=620,height=480)
jpeg("~/Desktop/BypassPlots/16B.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(204,204),c(-1,5))
legend(0,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 47B. Bypass monthly crashes per mile, SID=16, Rudd",font.sub=4)
dev.off()

```

```

#16 Sum
y<- (Sum$CRT)[which(Sum$SID==16)]
sy<- locpoly(x,y,bandwidth=sbdS[16])
#jpeg("~/Desktop/SumPlots/16.jpg",width=620,height=480)
jpeg("~/Desktop/SumPlots/16S.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(204,204),c(-1,5))
legend(-1,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 48B. Road + Bypass monthly crashes per mile, SID=16",font.sub=4)
dev.off()

```

```

#17 Road
x<-1:264
y<- (Road$CRT)[which(Road$SID==17)]
sy<- locpoly(x,y,bandwidth=sbdR[17])
#jpeg("~/Desktop/BeforePlots/17.jpg",width=620,height=480)
jpeg("~/Desktop/BeforePlots/17R.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)

```



```

typ.names <- c("raw data", "smoothed data")
lines(c(24,24),c(-1,5))
legend(0,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 49B. Road monthly crashes per mile, SID=17, Jesup",font.sub=4)
dev.off()

#17 Bypass
y<- (Bypass$CRT)[which(Bypass$SID==17)]
sy<- locpoly(x,y,bandwidth=sbdB[17])
#jpeg("~/Desktop/AfterPlots/17.jpg",width=620,height=480)
jpeg("~/Desktop/BypassPlots/17B.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(24,24),c(-1,5))
legend(0,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 50B. Bypass monthly crashes per mile, SID=17, Jesup",font.sub=4)
dev.off()

#17 Sum
y<- (Sum$CRT)[which(Sum$SID==17)]
sy<- locpoly(x,y,bandwidth=sbdS[17])
#jpeg("~/Desktop/SumPlots/17.jpg",width=620,height=480)
jpeg("~/Desktop/SumPlots/17S.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(24,24),c(-1,5))
legend(-1,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 51B. Road + Bypass monthly crashes per mile, SID=17",font.sub=4)
dev.off()

#18 Road
x<-1:264
y<- (Road$CRT)[which(Road$SID==18)]
sy<- locpoly(x,y,bandwidth=sbdR[18])
#jpeg("~/Desktop/BeforePlots/18.jpg",width=620,height=480)
jpeg("~/Desktop/BeforePlots/18R.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(144,144),c(-1,5))
legend(0,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 52B. Road monthly crashes per mile, SID=18, Denver",font.sub=4)
dev.off()

#18 Bypass
y<- (Bypass$CRT)[which(Bypass$SID==18)]
sy<- locpoly(x,y,bandwidth=sbdB[18])
#jpeg("~/Desktop/AfterPlots/18.jpg",width=620,height=480)
jpeg("~/Desktop/BypassPlots/18B.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(144,144),c(-1,5))
legend(0,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 53B. Bypass monthly crashes per mile, SID=18, Denver",font.sub=4)
dev.off()

#18 Sum
y<- (Sum$CRT)[which(Sum$SID==18)]
sy<- locpoly(x,y,bandwidth=sbdS[18])
#jpeg("~/Desktop/SumPlots/18.jpg",width=620,height=480)
jpeg("~/Desktop/SumPlots/18S.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(144,144),c(-1,5))

```

```

legend(-1.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 54B. Road + Bypass monthly crashes per mile, SID=18",font.sub=4)
dev.off()

#19 Road
x<-1:288
y<- (Road$CRT)[which(Road$SID==19)]
sy<- locpoly(x,y,bandwidth=sbdR[19])
#jpeg("~/Desktop/BeforePlots/19.jpg",width=620,height=480)
jpeg("~/Desktop/BeforePlots/19R.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(180,180),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 55B. Road monthly crashes per mile, SID=19, Marshalltown",font.sub=4)
dev.off()

#19 Bypass
y<- (Bypass$CRT)[which(Bypass$SID==19)]
sy<- locpoly(x,y,bandwidth=sbdB[19])
#jpeg("~/Desktop/AfterPlots/19.jpg",width=620,height=480)
jpeg("~/Desktop/BypassPlots/19B.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(180,180),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 56B. Bypass monthly crashes per mile, SID=19, Marshalltown",font.sub=4)
dev.off()

#19 Sum
y<- (Sum$CRT)[which(Sum$SID==19)]
sy<- locpoly(x,y,bandwidth=sbdS[19])
#jpeg("~/Desktop/SumPlots/19.jpg",width=620,height=480)
jpeg("~/Desktop/SumPlots/19S.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(180,180),c(-1,5))
legend(-1.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 57B. Road + Bypass monthly crashes per mile, SID=19",font.sub=4)
dev.off()

#20 Non-Treatment Raw Data
#20 Road
x<-1:288
y<- (Road$CRT)[which(Road$SID==20)]
sy<- locpoly(x,y,bandwidth=sbdR[20])
#jpeg("~/Desktop/BeforePlots/20.jpg",width=620,height=480)
jpeg("~/Desktop/BeforePlots/20C.jpg",width=620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 58B. Monthly crashes per mile, SID=20, Le Mars",font.sub=4)
dev.off()

#21 Road
x<-1:288
y<- (Road$CRT)[which(Road$SID==21)]
sy<- locpoly(x,y,bandwidth=sbdR[21])
#jpeg("~/Desktop/BeforePlots/21.jpg",width=620,height=480)
jpeg("~/Desktop/BeforePlots/21C.jpg",width=620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
legend(0.5, legend = typ.names, lty =c(3,1) )

```

```

title(sub="Figure 59B. Monthly crashes per mile, SID=21, Seney",font.sub=4)
dev.off()

#22 Road
x<-1:288
y<- (Road$CRT)[which(Road$SID==22)]
sy<- locpoly(x,y,bandwidth=sbdR[22])
#jpeg("~/Desktop/BeforePlots/22.jpg",width=620,height=480)
jpeg("~/Desktop/BeforePlots/22C.jpg",width=620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 60B. Monthly crashes per mile, SID=22, Sheldon",font.sub=4)
dev.off()

#23 Road
x<-1:288
y<- (Road$CRT)[which(Road$SID==23)]
sy<- locpoly(x,y,bandwidth=sbdR[23])
#jpeg("~/Desktop/BeforePlots/23.jpg",width=620,height=480)
jpeg("~/Desktop/BeforePlots/23C.jpg",width=620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 61B. Monthly crashes per mile, SID=23, Ashton",font.sub=4)
dev.off()

#24 Road
x<-1:288
y<- (Road$CRT)[which(Road$SID==24)]
sy<- locpoly(x,y,bandwidth=sbdR[24])
#jpeg("~/Desktop/BeforePlots/24.jpg",width=620,height=480)
jpeg("~/Desktop/BeforePlots/24C.jpg",width=620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 62B. Monthly crashes per mile, SID=24, Eddyville",font.sub=4)
dev.off()

#25 Road
x<-1:288
y<- (Road$CRT)[which(Road$SID==25)]
sy<- locpoly(x,y,bandwidth=sbdR[25])
#jpeg("~/Desktop/BeforePlots/25.jpg",width=620,height=480)
jpeg("~/Desktop/BeforePlots/25C.jpg",width=620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 63B. Monthly crashes per mile, SID=25, Hospers", font.sub=4)
dev.off()

```

MADT Plots

###Replace "Road" with "Sum" for Road and Sum datasets and "RoadCit" or "SumCit" for Road Citizen and Sum Citizen Datasets.#####

```

Road<-read.table("~/Desktop/All Done DATA/Road.txt",header=T)
x<-1:288

#1
z<-Road$MADT[which(Road$SID==1)]
jpeg("~/Desktop/MADT/MADT1B.jpg",width=620,height=480)
plot(x,z,type="l",col=6, xlab="time",ylab="MADT",ylim=c(0,600000))
title(sub="Figure 1A. Road Monthly Average Daily Traffic, SID=1,1982-2005",font.sub=4)

```

```

lines(c(228,228),c(0,600000))
dev.off()

#2
z<-Road$MADT[which(Road$SID==2)]
jpeg("~/Desktop/MADT/MADT2B.jpg",width=620,height=480)
plot(x.z.type="l",col=6, xlab="time",ylab="MADT",ylim=c(0,600000))
title(sub="Figure 4A. Road Monthly Average Daily Traffic, SID=2,1982-2005",font.sub=4)
lines(c(264,264),c(0,600000))
dev.off()

#3
z<-Road$MADT[which(Road$SID==3)]
jpeg("~/Desktop/MADT/MADT3B.jpg",width=620,height=480)
plot(x.z.type="l",col=6, xlab="time",ylab="MADT",ylim=c(0,600000))
title(sub="Figure 7A. Road Monthly Average Daily Traffic, SID=3,1982-2005",font.sub=4)
lines(c(186,186),c(0,600000))
dev.off()

#4
z<-Road$MADT[which(Road$SID==4)]
jpeg("~/Desktop/MADT/MADT4B.jpg",width=620,height=480)
plot(x.z.type="l",col=6, xlab="time",ylab="MADT",ylim=c(0,600000))
title(sub="Figure 10A. Road Monthly Average Daily Traffic, SID=4,1982-2005",font.sub=4)
lines(c(252,252),c(0,600000))
dev.off()

#5
z<-Road$MADT[which(Road$SID==5)]
jpeg("~/Desktop/MADT/MADT5B.jpg",width=620,height=480)
plot(x.z.type="l",col=6, xlab="time",ylab="MADT",ylim=c(0,600000))
title(sub="Figure 13A. Road Monthly Average Daily Traffic, SID=5,1982-2005",font.sub=4)
lines(c(192,192),c(0,600000))
dev.off()

#6
z<-Road$MADT[which(Road$SID==6)]
jpeg("~/Desktop/MADT/MADT6B.jpg",width=620,height=480)
plot(x.z.type="l",col=6, xlab="time",ylab="MADT",ylim=c(0,600000))
title(sub="Figure 16A. Road Monthly Average Daily Traffic, SID=6,1982-2005",font.sub=4)
lines(c(204,204),c(0,600000))
dev.off()

#7
z<-Road$MADT[which(Road$SID==7)]
jpeg("~/Desktop/MADT/MADT7B.jpg",width=620,height=480)
plot(x.z.type="l",col=6, xlab="time",ylab="MADT",ylim=c(0,600000))
title(sub="Figure 19A. Road Monthly Average Daily Traffic, SID=7,1982-2005",font.sub=4)
lines(c(204,204),c(0,600000))
dev.off()

#8
z<-Road$MADT[which(Road$SID==8)]
jpeg("~/Desktop/MADT/MADT8B.jpg",width=620,height=480)
plot(x.z.type="l",col=6, xlab="time",ylab="MADT",ylim=c(0,600000))
title(sub="Figure 22A. Road Monthly Average Daily Traffic, SID=8,1982-2005",font.sub=4)
lines(c(156,156),c(0,600000))
dev.off()

#9
z<-Road$MADT[which(Road$SID==9)]
jpeg("~/Desktop/MADT/MADT9B.jpg",width=620,height=480)
plot(x.z.type="l",col=6, xlab="time",ylab="MADT",ylim=c(0,600000))
title(sub="Figure 25A. Road Monthly Average Daily Traffic, SID=9,1982-2005",font.sub=4)
lines(c(192,192),c(0,600000))
dev.off()

#10
z<-Road$MADT[which(Road$SID==10)]
jpeg("~/Desktop/MADT/MADT10B.jpg",width=620,height=480)

```

```

plot(x.z,type="l",col=6, xlab="time",ylab="MADT",ylim=c(0,600000))
title(sub="Figure 28A. Road Monthly Average Daily Traffic, SID=10,1982-2005",font.sub=4)
lines(c(204,204),c(0,600000))
dev.off()

#11
z<-Road$MADT[which(Road$SID==11)]
jpeg("~/Desktop/MADT/MADT11B.jpg",width=620,height=480)
plot(x.z,type="l",col=6, xlab="time",ylab="MADT",ylim=c(0,600000))
title(sub="Figure 31A. Road Monthly Average Daily Traffic, SID=11,1982-2005",font.sub=4)
lines(c(216,216),c(0,600000))
dev.off()

#12
z<-Road$MADT[which(Road$SID==12)]
jpeg("~/Desktop/MADT/MADT12B.jpg",width=620,height=480)
plot(x.z,type="l",col=6, xlab="time",ylab="MADT",ylim=c(0,600000))
title(sub="Figure 34A. Road Monthly Average Daily Traffic, SID=12,1982-2005",font.sub=4)
lines(c(228,228),c(0,600000))
dev.off()

#13
z<-Road$MADT[which(Road$SID==13)]
jpeg("~/Desktop/MADT/MADT13B.jpg",width=620,height=480)
plot(x.z,type="l",col=6, xlab="time",ylab="MADT",ylim=c(0,700000))
title(sub="Figure 37A. Road Monthly Average Daily Traffic, SID=13,1982-2005",font.sub=4)
lines(c(192,192),c(0,700000))
dev.off()

#14
x<-1:264
z<-Road$MADT[which(Road$SID==14)]
jpeg("~/Desktop/MADT/MADT14B.jpg",width=620,height=480)
plot(x.z,type="l",col=6, xlab="time",ylab="MADT",ylim=c(0,600000))
title(sub="Figure 40A. Road Monthly Average Daily Traffic, SID=14,1984-2005",font.sub=4)
lines(c(180,180),c(0,600000))
dev.off()

x<-1:288
#15
z<-Road$MADT[which(Road$SID==15)]
jpeg("~/Desktop/MADT/MADT15B.jpg",width=620,height=480)
plot(x.z,type="l",col=6, xlab="time",ylab="MADT",ylim=c(0,600000))
title(sub="Figure 43A. Road Monthly Average Daily Traffic, SID=15,1982-2005",font.sub=4)
lines(c(216,216),c(0,600000))
dev.off()

#16
z<-Road$MADT[which(Road$SID==16)]
jpeg("~/Desktop/MADT/MADT16B.jpg",width=620,height=480)
plot(x.z,type="l",col=6, xlab="time",ylab="MADT",ylim=c(0,600000))
title(sub="Figure 46A. Road Monthly Average Daily Traffic, SID=16,1982-2005",font.sub=4)
lines(c(204,204),c(0,600000))
dev.off()

#17
x<-1:264
z<-Road$MADT[which(Road$SID==17)]
jpeg("~/Desktop/MADT/MADT17B.jpg",width=620,height=480)
plot(x.z,type="l",col=6, xlab="time",ylab="MADT",ylim=c(0,600000))
title(sub="Figure 49A. Road Monthly Average Daily Traffic, SID=17,1984-2005",font.sub=4)
lines(c(24,24),c(0,600000))
dev.off()

#18
x<-1:264
z<-Road$MADT[which(Road$SID==18)]
jpeg("~/Desktop/MADT/MADT18B.jpg",width=620,height=480)

```

```

plot(x.z,type="l",col=6, xlab="time",ylab="MADT",ylim=c(0,600000))
title(sub="Figure 52A. Road Monthly Average Daily Traffic, SID=18,1984-2005",font.sub=4)
lines(c(144,144),c(0,600000))
dev.off()

#19
x<-1:288
#19
z<-Road$MADT[which(Road$SID==19)]
jpeg("~/Desktop/MADT/MADT19B.jpg",width=620,height=480)
plot(x.z,type="l",col=6, xlab="time",ylab="MADT",ylim=c(0,500000))
title(sub="Figure 55A. Road Monthly Average Daily Traffic, SID=19,1982-2005",font.sub=4)
lines(c(192,192),c(0,500000))
dev.off()

#20
z<-Road$MADT[which(Road$SID==20)]
jpeg("~/Desktop/MADT/Road/MADT20.jpg",width=620,height=480)
plot(x.z,type="l",col=6, xlab="time",ylab="MADT",ylim=c(0,600000))
title(sub="Figure 58A. Monthly Average Daily Traffic, SID=20,1982-2005",font.sub=4)
#lines(c(288,288),c(0,600000))
dev.off()

#21
z<-Road$MADT[which(Road$SID==21)]
jpeg("~/Desktop/MADT/Road/MADT21.jpg",width=620,height=480)
plot(x.z,type="l",col=6, xlab="time",ylab="MADT",ylim=c(0,600000))
title(sub="Figure 59A. Monthly Average Daily Traffic, SID=21,1982-2005",font.sub=4)
#lines(c(288,288),c(0,600000))
dev.off()

#22
z<-Road$MADT[which(Road$SID==22)]
jpeg("~/Desktop/MADT/Road/MADT22.jpg",width=620,height=480)
plot(x.z,type="l",col=6, xlab="time",ylab="MADT",ylim=c(0,600000))
title(sub="Figure 60A. Monthly Average Daily Traffic, SID=22,1982-2005",font.sub=4)
#lines(c(288,288),c(0,600000))
dev.off()

#23
z<-Road$MADT[which(Road$SID==23)]
jpeg("~/Desktop/MADT/Road/MADT23.jpg",width=620,height=480)
plot(x.z,type="l",col=6, xlab="time",ylab="MADT",ylim=c(0,600000))
title(sub="Figure 61A. Monthly Average Daily Traffic, SID=23,1982-2005",font.sub=4)
#lines(c(288,288),c(0,600000))
dev.off()

#24
z<-Road$MADT[which(Road$SID==24)]
jpeg("~/Desktop/MADT/Road/MADT24.jpg",width=620,height=480)
plot(x.z,type="l",col=6, xlab="time",ylab="MADT",ylim=c(0,600000))
title(sub="Figure 62A. Monthly Average Daily Traffic, SID=24,1982-2005",font.sub=4)
#lines(c(288,288),c(0,600000))
dev.off()

#25
z<-Road$MADT[which(Road$SID==25)]
jpeg("~/Desktop/MADT/Road/MADT25.jpg",width=620,height=480)
plot(x.z,type="l",col=6, xlab="time",ylab="MADT",ylim=c(0,600000))
title(sub="Figure 63A. Monthly Average Daily Traffic, SID=25,1982-2005",font.sub=4)
#lines(c(288,288),c(0,600000))
dev.off()

```

Combined smoothed data plots

```

Road<-read.table("~/Desktop/All Done DATA/Road.txt",header=T)
Sum<-read.table("~/Desktop/All Done DATA/Sum.txt",header=T)

```

```

Bypass<-read.table("~/Desktop/All Done DATA/Bypass.txt",header=T)
library(KernSmooth)

slB<-c(rep(288,13),264,rep(288,2),rep(264,2),rep(288,7))
sdbB<-rep(0,25)
for (i in 1:25)
{ yind<-sum(slB[1:i])
sdbB[i]<-dpill((1:slB[i]),(Bypass$CRT[((yind-slB[i]+1):yind)]))}

slR<-c(rep(288,13),264,rep(288,2),rep(264,2),rep(288,7))
sdbR<-rep(0,25)
for (i in 1:25)
{ yind<-sum(slR[1:i])
sdbR[i]<-dpill((1:slR[i]),(Road$CRT[((yind-slR[i]+1):yind)]))}

slS<-c(rep(288,13),264,rep(288,2),rep(264,2),rep(288,7))
sdbS<-rep(0,25)
for (i in 1:25)
{ yind<-sum(slS[1:i])
sdbS[i]<-dpill((1:slS[i]),(Sum$CRT[((yind-slS[i]+1):yind)]))}

#1
x<-1:288
y<- (Sum$CRT)[which(Sum$SID==1)]
sy<- locpoly(x,y,bandwidth=sdbS[1])
#jpeg("~/Desktop/All-In-One/1.jpg",width=620,height=480)
jpeg("~/Desktop/All In One/1.jpg",width=620,height=480)
plot(sy$x,sy$y,type="l",col=4, xlab="Time (# of months)",ylab="Crash Rate",ylim=c(-1,5))
typ.names <- c("Road", "Bypass", "Sum", "Intervention")
legend(0.5, legend = typ.names,lty=c(1,1,1,3) , col =c(6,5,4,1) )
y<-(Bypass$CRT)[which(Bypass$SID==1)]
sy<-locpoly(x,y,bandwidth=sdbB[1])
lines(sy$x,sy$y,col=5)
y<-(Road$CRT)[which(Road$SID==1)]
sy<-locpoly(x,y,bandwidth=sdbR[1])
lines(sy$x,sy$y,col=6)
lines(c(228,228),c(-1,5),lty=3)
title(sub="1C Monthly crashes per mile, SID=1, Sioux City",font.sub=4)
dev.off()

#2
y<- (Sum$CRT)[which(Sum$SID==2)]
sy<- locpoly(x,y,bandwidth=sdbS[2])
#jpeg("~/Desktop/All-In-One/2.jpg",width=620,height=480)
jpeg("~/Desktop/All In One/2.jpg",width=620,height=480)
plot(sy$x,sy$y,type="l",col=4, xlab="Time (# of months)",ylab="Crash Rate",ylim=c(-1,5))
typ.names <- c("Road", "Bypass", "Sum", "Intervention")
legend(0.5, legend = typ.names,lty=c(1,1,1,3), col =c(6,5,4,1) )
y<-(Bypass$CRT)[which(Bypass$SID==2)]
sy<-locpoly(x,y,bandwidth=sdbB[2])
lines(sy$x,sy$y,col=5)
y<-(Road$CRT)[which(Road$SID==2)]
sy<-locpoly(x,y,bandwidth=sdbR[2])
lines(sy$x,sy$y,col=6)
lines(c(264,264),c(-1,20),lty=3)
title(sub="2C Monthly crashes per mile, SID=2, Alton",font.sub=4)
dev.off()

#3
x<-1:288
y<- (Sum$CRT)[which(Sum$SID==3)]
sy<- locpoly(x,y,bandwidth=sdbS[3])
#jpeg("~/Desktop/All-In-One/3.jpg",width=620,height=480)
jpeg("~/Desktop/All In One/3.jpg",width=620,height=480)
plot(sy$x,sy$y,type="l",col=4, xlab="Time (# of months)",ylab="Crash Rate",ylim=c(-1,5))
typ.names <- c("Road", "Bypass", "Sum", "Intervention")
legend(0.5, legend = typ.names, lty=c(1,1,1,3),col =c(6,5,4,1) )
y<-(Bypass$CRT)[which(Bypass$SID==3)]

```

```

sy<-locpoly(x,y,bandwidth=sdbB[3])
lines(sy$x,sy$y,col=5)
y<-(Road$CRT)[which(Road$SID==3)]
sy<-locpoly(x,y,bandwidth=sdbR[3])
lines(sy$x,sy$y,col=6)
lines(c(180,180),c(-1,5),lty=3)
title(sub="3C Monthly crashes per mile, SID=3, Storm Lake",font.sub=4)
dev.off()

#4
x<-1:288
y<-(Sum$CRT)[which(Sum$SID==4)]
sy<-locpoly(x,y,bandwidth=sdbS[4])
#jpeg("~/Desktop/All-In-One/4.jpg",width=620,height=480)
jpeg("~/Desktop/All In One/4.jpg",width=620,height=480)
plot(sy$x,sy$y,type="l",col=4,xlab="Time (# of months)",ylab="Crash Rate",ylim=c(-1,5))
typ.names <- c("Road", "Bypass", "Sum", "Intervention")
legend(0,5, legend = typ.names,lty=c(1,1,1,3), col =c(6,5,4,1) )
y<-(Bypass$CRT)[which(Bypass$SID==4)]
sy<-locpoly(x,y,bandwidth=sdbB[4])
lines(sy$x,sy$y,col=5)
y<-(Road$CRT)[which(Road$SID==4)]
sy<-locpoly(x,y,bandwidth=sdbR[4])
lines(sy$x,sy$y,col=6)
lines(c(252,252),c(-1,5),lty=3)
title(sub="4C Monthly crashes per mile, SID=4, Pleasantville",font.sub=4)
dev.off()

#5
x<-1:288
y<-(Sum$CRT)[which(Sum$SID==5)]
sy<-locpoly(x,y,bandwidth=sdbS[5])
#jpeg("~/Desktop/All-In-One/5.jpg",width=620,height=480)
jpeg("~/Desktop/All In One/5.jpg",width=620,height=480)
plot(sy$x,sy$y,type="l",col=4,xlab="Time (# of months)",ylab="Crash Rate",ylim=c(-1,5))
typ.names <- c("Road", "Bypass", "Sum", "Intervention")
legend(0,5, legend = typ.names,lty=c(1,1,1,3), col =c(6,5,4,1) )
y<-(Bypass$CRT)[which(Bypass$SID==5)]
sy<-locpoly(x,y,bandwidth=sdbB[5])
lines(sy$x,sy$y,col=5)
y<-(Road$CRT)[which(Road$SID==5)]
sy<-locpoly(x,y,bandwidth=sdbR[5])
lines(sy$x,sy$y,col=6)
lines(c(192,192),c(-1,5),lty=3)
title(sub="5C Monthly crashes per mile, SID=5, Prairie City",font.sub=4)
dev.off()

#6
x<-1:288
y<-(Sum$CRT)[which(Sum$SID==6)]
sy<-locpoly(x,y,bandwidth=sdbS[6])
#jpeg("~/Desktop/All-In-One/6.jpg",width=620,height=480)
jpeg("~/Desktop/All In One/6.jpg",width=620,height=480)
plot(sy$x,sy$y,type="l",col=4,xlab="Time (# of months)",ylab="Crash Rate",ylim=c(-1,5))
typ.names <- c("Road", "Bypass", "Sum", "Intervention")
legend(0,5, legend = typ.names,lty=c(1,1,1,3),col =c(6,5,4,1) )
y<-(Bypass$CRT)[which(Bypass$SID==6)]
sy<-locpoly(x,y,bandwidth=sdbB[6])
lines(sy$x,sy$y,col=5)
y<-(Road$CRT)[which(Road$SID==6)]
sy<-locpoly(x,y,bandwidth=sdbR[6])
lines(sy$x,sy$y,col=6)
lines(c(204,204),c(-1,5),lty=3)
title(sub="6C Monthly crashes per mile, SID=6, Monroe",font.sub=4)
dev.off()

#7
x<-1:288

```



```

y<- (Sum$CRT)[which(Sum$SID==7)]
sy<- locpoly(x,y,bandwidth=sbdS[7])
#jpeg("~/Desktop/All-In-One/7.jpg",width=620,height=480)
jpeg("~/Desktop/All In One/7.jpg",width=620,height=480)
plot(sy$x,sy$y,type="l",col=4, xlab="Time (# of months)",ylab="Crash Rate",ylim=c(-1,5))
typ.names <- c("Road", "Bypass", "Sum", "Intervention")
legend(0.5, legend = typ.names, lty=c(1,1,1,3),col =c(6,5,4,1) )
y<-(Bypass$CRT)[which(Bypass$SID==7)]
sy<-locpoly(x,y,bandwidth=sbdB[7])
lines(sy$x,sy$y,col=5)
y<-(Road$CRT)[which(Road$SID==7)]
sy<-locpoly(x,y,bandwidth=sbdR[7])
lines(sy$x,sy$y,col=6)
lines(c(204,204),c(-1,5), lty=3)
title(sub="7C Monthly crashes per mile, SID=7, Otley",font.sub=4)
dev.off()

#8
x<-1:288
y<- (Sum$CRT)[which(Sum$SID==8)]
sy<- locpoly(x,y,bandwidth=sbdS[8])
#jpeg("~/Desktop/All-In-One/8.jpg",width=620,height=480)
jpeg("~/Desktop/All In One/8.jpg",width=620,height=480)
plot(sy$x,sy$y,type="l",col=4, xlab="Time (# of months)",ylab="Crash Rate",ylim=c(-1,5))
typ.names <- c("Road", "Bypass", "Sum", "Intervention")
legend(0.5, legend = typ.names,lty=c(1,1,1,3), col =c(6,5,4,1) )
y<-(Bypass$CRT)[which(Bypass$SID==8)]
sy<-locpoly(x,y,bandwidth=sbdB[8])
lines(sy$x,sy$y,col=5)
y<-(Road$CRT)[which(Road$SID==8)]
sy<-locpoly(x,y,bandwidth=sbdR[8])
lines(sy$x,sy$y,col=6)
lines(c(156,156),c(-1,5), lty=3)
title(sub="8C Monthly crashes per mile, SID=8, Pella",font.sub=4)
dev.off()

#9
x<-1:288
y<- (Sum$CRT)[which(Sum$SID==9)]
sy<- locpoly(x,y,bandwidth=sbdS[9])
#jpeg("~/Desktop/All-In-One/9.jpg",width=620,height=480)
jpeg("~/Desktop/All In One/9.jpg",width=620,height=480)
plot(sy$x,sy$y,type="l",col=4, xlab="Time (# of months)",ylab="Crash Rate",ylim=c(-1,5))
typ.names <- c("Road", "Bypass", "Sum", "Intervention")
legend(0.5, legend = typ.names,lty=c(1,1,1,3), col =c(6,5,4,1) )
y<-(Bypass$CRT)[which(Bypass$SID==9)]
sy<-locpoly(x,y,bandwidth=sbdB[9])
lines(sy$x,sy$y,col=5)
y<-(Road$CRT)[which(Road$SID==9)]
sy<-locpoly(x,y,bandwidth=sbdR[9])
lines(sy$x,sy$y,col=6)
lines(c(192,192),c(-1,5), lty=3)
title(sub="9C Monthly crashes per mile, SID=9, Oskaloosa",font.sub=4)
dev.off()

#10
x<-1:288
y<- (Sum$CRT)[which(Sum$SID==10)]
sy<- locpoly(x,y,bandwidth=sbdS[10])
#jpeg("~/Desktop/All-In-One/10.jpg",width=620,height=480)
jpeg("~/Desktop/All In One/10.jpg",width=620,height=480)
plot(sy$x,sy$y,type="l",col=4, xlab="Time (# of months)",ylab="Crash Rate",ylim=c(-1,5))
typ.names <- c("Road", "Bypass", "Sum", "Intervention")
legend(0.5, legend = typ.names, lty=c(1,1,1,3),col =c(6,5,4,1) )
y<-(Bypass$CRT)[which(Bypass$SID==10)]
sy<-locpoly(x,y,bandwidth=sbdB[10])
lines(sy$x,sy$y,col=5)
y<-(Road$CRT)[which(Road$SID==10)]

```

```

sy<-locpoly(x,y,bandwidth=sbdR[10])
lines(sy$x,sy$y,col=6)
lines(c(204,204),c(-1.5), lty=3)
title(sub="10C Monthly crashes per mile, SID=10, Swedsburg",font.sub=4)
dev.off()

#11
x<-1:288
y<- (Sum$CRT)[which(Sum$SID==11)]
sy<- locpoly(x,y,bandwidth=sbdS[11])
#jpeg("~/Desktop/All-In-One/11.jpg",width=620,height=480)
jpeg("~/Desktop/All In One/11.jpg",width=620,height=480)
plot(sy$x,sy$y,type="l",col=4, xlab="Time (# of months)",ylab="Crash Rate",ylim=c(-1,5))
typ.names <- c("Road", "Bypass", "Sum", "Intervention")
legend(0.5, legend = typ.names,lty=c(1,1,1,3), col =c(6,5,4,1) )
y<-(Bypass$CRT)[which(Bypass$SID==11)]
sy<-locpoly(x,y,bandwidth=sbdB[11])
lines(sy$x,sy$y,col=5)
y<-(Road$CRT)[which(Road$SID==11)]
sy<-locpoly(x,y,bandwidth=sbdR[11])
lines(sy$x,sy$y,col=6)
lines(c(216,216),c(-1.5), lty=3)
title(sub="11C Monthly crashes per mile, SID=11, New London",font.sub=4)
dev.off()

#12
x<-1:288
y<- (Sum$CRT)[which(Sum$SID==12)]
sy<- locpoly(x,y,bandwidth=sbdS[12])
#jpeg("~/Desktop/All-In-One/12.jpg",width=620,height=480)
jpeg("~/Desktop/All In One/12.jpg",width=620,height=480)
plot(sy$x,sy$y,type="l",col=4, xlab="Time (# of months)",ylab="Crash Rate",ylim=c(-1,5))
typ.names <- c("Road", "Bypass", "Sum", "Intervention")
legend(0.5, legend = typ.names,lty=c(1,1,1,3), col =c(6,5,4,1) )
y<-(Bypass$CRT)[which(Bypass$SID==12)]
sy<-locpoly(x,y,bandwidth=sbdB[12])
lines(sy$x,sy$y,col=5)
y<-(Road$CRT)[which(Road$SID==12)]
sy<-locpoly(x,y,bandwidth=sbdR[12])
lines(sy$x,sy$y,col=6)
lines(c(228,228),c(-1.5), lty=3)
title(sub="12C Monthly crashes per mile, SID=12, Blue Grass",font.sub=4)
dev.off()

#13
x<-1:288
y<- (Sum$CRT)[which(Sum$SID==13)]
sy<- locpoly(x,y,bandwidth=sbdS[13])
#jpeg("~/Desktop/All-In-One/13.jpg",width=620,height=480)
jpeg("~/Desktop/All In One/13.jpg",width=620,height=480)
plot(sy$x,sy$y,type="l",col=4, xlab="Time (# of months)",ylab="Crash Rate",ylim=c(-1,5.5))
typ.names <- c("Road", "Bypass", "Sum", "Intervention")
legend(0.2, legend = typ.names,lty=c(1,1,1,3), col =c(6,5,4,1) )
y<-(Bypass$CRT)[which(Bypass$SID==13)]
sy<-locpoly(x,y,bandwidth=sbdB[13])
lines(sy$x,sy$y,col=5)
y<-(Road$CRT)[which(Road$SID==13)]
sy<-locpoly(x,y,bandwidth=sbdR[13])
lines(sy$x,sy$y,col=6)
lines(c(192,192),c(-1.6), lty=3)
title(sub="13C Monthly crashes per mile, SID=13, Marion",font.sub=4)
dev.off()

#14
x<-1:264
y<- (Sum$CRT)[which(Sum$SID==14)]
sy<- locpoly(x,y,bandwidth=sbdS[14])
#jpeg("~/Desktop/All-In-One/14.jpg",width=620,height=480)

```

```

jpeg("~/Desktop/All In One/14.jpg",width=620,height=480)
plot(sy$x,sy$y,type="l",col=4, xlab="Time (# of months)",ylab="Crash Rate",ylim=c(-1,5))
typ.names <- c("Road", "Bypass", "Sum", "Intervention")
legend(0.5, legend = typ.names, lty=c(1,1,1,3), col =c(6,5,4,1) )
y<-(Bypass$CRT)[which(Bypass$SID==14)]
sy<-locpoly(x,y,bandwidth=sdbB[14])
lines(sy$x,sy$y,col=5)
y<-(Road$CRT)[which(Road$SID==14)]
sy<-locpoly(x,y,bandwidth=sbdR[14])
lines(sy$x,sy$y,col=6)
lines(c(180,180),c(-1,5),lty=3)
title(sub="14C Monthly crashes per mile, SID=14, Waverly",font.sub=4)
dev.off()

#15
x<-1:288
y<- (Sum$CRT)[which(Sum$SID==15)]
sy<- locpoly(x,y,bandwidth=sbdS[15])
#jpeg("~/Desktop/All-In-One/15.jpg",width=620,height=480)
jpeg("~/Desktop/All In One/15.jpg",width=620,height=480)
plot(sy$x,sy$y,type="l",col=4, xlab="Time (# of months)",ylab="Crash Rate",ylim=c(-1,5))
typ.names <- c("Road", "Bypass", "Sum", "Intervention")
legend(0.5, legend = typ.names,lty=c(1,1,1,3), col =c(6,5,4,1) )
y<-(Bypass$CRT)[which(Bypass$SID==15)]
sy<-locpoly(x,y,bandwidth=sdbB[15])
lines(sy$x,sy$y,col=5)
y<-(Road$CRT)[which(Road$SID==15)]
sy<-locpoly(x,y,bandwidth=sbdR[15])
lines(sy$x,sy$y,col=6)
lines(c(216,216),c(-1,5), lty=3)
title(sub="15C Monthly crashes per mile, SID=15, Charles City",font.sub=4)
dev.off()

#16
x<-1:288
y<- (Sum$CRT)[which(Sum$SID==16)]
sy<- locpoly(x,y,bandwidth=sbdS[16])
#jpeg("~/Desktop/All-In-One/16.jpg",width=620,height=480)
jpeg("~/Desktop/All In One/16.jpg",width=620,height=480)
plot(sy$x,sy$y,type="l",col=4, xlab="Time (# of months)",ylab="Crash Rate",ylim=c(-1,5))
typ.names <- c("Road", "Bypass", "Sum", "Intervention")
legend(0.5, legend = typ.names, lty=c(1,1,1,3),col =c(6,5,4,1) )
y<-(Bypass$CRT)[which(Bypass$SID==16)]
sy<-locpoly(x,y,bandwidth=sdbB[16])
lines(sy$x,sy$y,col=5)
y<-(Road$CRT)[which(Road$SID==16)]
sy<-locpoly(x,y,bandwidth=sbdR[16])
lines(sy$x,sy$y,col=6)
lines(c(204,204),c(-1,5), lty=3)
title(sub="16C Monthly crashes per mile, SID=16, Rudd",font.sub=4)
dev.off()

#17
x<-1:264
y<- (Sum$CRT)[which(Sum$SID==17)]
sy<- locpoly(x,y,bandwidth=sbdS[17])
#jpeg("~/Desktop/All-In-One/17.jpg",width=620,height=480)
jpeg("~/Desktop/All In One/17.jpg",width=620,height=480)
plot(sy$x,sy$y,type="l",col=4, xlab="Time (# of months)",ylab="Crash Rate",ylim=c(-1,5))
typ.names <- c("Road", "Bypass", "Sum", "Intervention")
legend(150,5, legend = typ.names, lty=c(1,1,1,3),col =c(6,5,4,1) )
y<-(Bypass$CRT)[which(Bypass$SID==17)]
sy<-locpoly(x,y,bandwidth=sdbB[17])
lines(sy$x,sy$y,col=5)
y<-(Road$CRT)[which(Road$SID==17)]
sy<-locpoly(x,y,bandwidth=sbdR[17])
lines(sy$x,sy$y,col=6)
lines(c(24,24),c(-1,5), lty=3)

```

```

title(sub="17C Monthly crashes per mile, SID=17, Jesup",font.sub=4)
dev.off()

#18
x<-1:264
y<- (Sum$CRT)[which(Sum$SID==18)]
sy<- locpoly(x,y,bandwidth=sbdS[18])
#jpeg("~/Desktop/All-In-One/18.jpg",width=620,height=480)
jpeg("~/Desktop/All In One/18.jpg",width=620,height=480)
plot(sy$x,sy$y,type="l",col=4, xlab="Time (# of months)",ylab="Crash Rate",ylim=c(-1,5))
typ.names <- c("Road", "Bypass", "Sum", "Intervention")
legend(0,5, legend = typ.names, lty=c(1,1,1,3),col =c(6,5,4,1) )
y<-(Bypass$CRT)[which(Bypass$SID==18)]
sy<-locpoly(x,y,bandwidth=sbdB[18])
lines(sy$x,sy$y,col=5)
y<-(Road$CRT)[which(Road$SID==18)]
sy<-locpoly(x,y,bandwidth=sbdR[18])
lines(sy$x,sy$y,col=6)
lines(c(144,144),c(-1,5), lty=3)
title(sub="18C Monthly crashes per mile, SID=18, Denver",font.sub=4)
dev.off()

#19
x<-1:288
y<- (Sum$CRT)[which(Sum$SID==19)]
sy<- locpoly(x,y,bandwidth=sbdS[19])
#jpeg("~/Desktop/All-In-One/19.jpg",width=620,height=480)
jpeg("~/Desktop/All In One/19.jpg",width=620,height=480)
plot(sy$x,sy$y,type="l",col=4, xlab="Time (# of months)",ylab="Crash Rate",ylim=c(-1,5))
typ.names <- c("Road", "Bypass", "Sum", "Intervention")
legend(0,5, legend = typ.names,lty=c(1,1,1,3), col =c(6,5,4,1) )
y<-(Bypass$CRT)[which(Bypass$SID==19)]
sy<-locpoly(x,y,bandwidth=sbdB[19])
lines(sy$x,sy$y,col=5)
y<-(Road$CRT)[which(Road$SID==19)]
sy<-locpoly(x,y,bandwidth=sbdR[19])
lines(sy$x,sy$y,col=6)
lines(c(192,192),c(-1,5), lty=3)
title(sub="19C Monthly crashes per mile, SID=19, Marshalltown",font.sub=4)
dev.off()

#20
x<-1:288
y<-(Road$CRT)[which(Road$SID==20)]
sy<-locpoly(x,y,bandwidth=sbdR[20])
#jpeg("~/Desktop/All-In-One/20.jpg",width=620,height=480)
jpeg("~/Desktop/All In One/20.jpg",width=620,height=480)
plot(sy$x,sy$y,type="l",col=6, xlab="Time (# of months)",ylab="Crash Rate",ylim=c(-1,5))
typ.names <- c("Control Road")
legend(0,5, legend = typ.names, lty=1, col =6 )
title(sub="20C Monthly crashes per mile, SID=20, Le Mars",font.sub=4)
dev.off()

#21
x<-1:288
y<-(Road$CRT)[which(Road$SID==21)]
sy<-locpoly(x,y,bandwidth=sbdR[21])
#jpeg("~/Desktop/All-In-One/21.jpg",width=620,height=480)
jpeg("~/Desktop/All In One/21.jpg",width=620,height=480)
plot(sy$x,sy$y,type="l",col=6, xlab="Time (# of months)",ylab="Crash Rate",ylim=c(-1,5))
typ.names <- c("Control Road")
legend(0,5, legend = typ.names, lty=1, col =6 )
title(sub="21C Monthly crashes per mile, SID=21, Seney",font.sub=4)
dev.off()

#22
x<-1:288
y<-(Road$CRT)[which(Road$SID==22)]

```

```

sy<-locpoly(x,y,bandwidth=sbdR[22])
#jpeg("~/Desktop/All-In-One/22.jpg",width=620,height=480)
jpeg("~/Desktop/All In One/22.jpg",width=620,height=480)
plot(sy$x,sy$y,type="l",col=6, xlab="Time (# of months)",ylab="Crash Rate",ylim=c(-1,5))
typ.names <- c("Control Road")
legend(0.5, legend = typ.names, lty=1, col =6 )
title(sub="22C Monthly crashes per mile, SID=22, Sheldon",font.sub=4)
dev.off()

#23
x<-1:288
y<-(Road$CRT)[which(Road$SID==23)]
sy<-locpoly(x,y,bandwidth=sbdR[23])
#jpeg("~/Desktop/All-In-One/23.jpg",width=620,height=480)
jpeg("~/Desktop/All In One/23.jpg",width=620,height=480)
plot(sy$x,sy$y,type="l",col=6, xlab="Time (# of months)",ylab="Crash Rate",ylim=c(-1,5))
typ.names <- c("Control Road")
legend(0.5, legend = typ.names, lty=1, col =6 )
title(sub="23C Monthly crashes per mile, SID=23, Ashton",font.sub=4)
dev.off()

#24
x<-1:288
y<-(Road$CRT)[which(Road$SID==24)]
sy<-locpoly(x,y,bandwidth=sbdR[24])
#jpeg("~/Desktop/All-In-One/24.jpg",width=620,height=480)
jpeg("~/Desktop/All In One/24.jpg",width=620,height=480)
plot(sy$x,sy$y,type="l",col=6, xlab="Time (# of months)",ylab="Crash Rate",ylim=c(-1,5))
typ.names <- c("Control Road")
legend(0.5, legend = typ.names, lty=1, col =6 )
title(sub="24C Monthly crashes per mile, SID=24, Eddyville",font.sub=4)
dev.off()

#25
x<-1:288
y<-(Road$CRT)[which(Road$SID==25)]
sy<-locpoly(x,y,bandwidth=sbdR[25])
#jpeg("~/Desktop/All-In-One/25.jpg",width=620,height=480)
jpeg("~/Desktop/All In One/25.jpg",width=620,height=480)
plot(sy$x,sy$y,type="l",col=6, xlab="Time (# of months)",ylab="Crash Rate",ylim=c(-1,5))
typ.names <- c("Control Road")
legend(0.5, legend = typ.names, lty=1, col =6 )
title(sub="25C Monthly crashes per mile, SID=25, Hosper", font.sub=4)
dev.off()

```

Road and Sum Analysis Code

```

#####READ ROAD DATA#####
mydata<-read.table("~/Desktop/All Done DATA/Road.txt",header=T)
mydatap1<-read.table("~/Desktop/WBOUTPUT/Road/20000-100-5001-6-5000/CODACHAIN1.txt",header=F)
mydatap2<-read.table("~/Desktop/WBOUTPUT/Road/20000-100-5001-6-5000/CODACHAIN2.txt",header=F)
betac2<-betac1<-matrix(0,2500,9)
id2<-id1<-matrix(0,2500,25)
#####Skip to *#####

#####READ SUM DATA#####
mydata<-read.table("~/Desktop/All Done DATA/Sum.txt",header=T)
mydatap1<-read.table("~/Desktop/WBOUTPUT/Sum/20000-100-5001-6-5000/CODACHAIN1.txt",header=F)
mydatap2<-read.table("~/Desktop/WBOUTPUT/Sum/20000-100-5001-6-5000/CODACHAIN2.txt",header=F)
betac2<-betac1<-matrix(0,2500,9)
id2<-id1<-matrix(0,2500,25)

##### ** SAME CODE USED FOR ROAD AND SUM DATA ANALYSIS#####

#####CHAIN1#####
for (i in 1:8) {betac1[,i]<-mydatap1[(((i-1)*2500+1):(i*2500)),2]}
for (i in 1:25) {id1[,i]<- mydatap1[(((i-1+8)*2500+1):((i+8)*2500)),2]}

```

```

taubwc1<-1/(sqrt(mydatap1[(85001:87500),2]))
for (i in 1:2500) {betac1[i,9]<-rnorm(1,0,taubwc1[i])}
#####CHAIN2#####
for (i in 1:8) {betac2[,i]<-mydatap2[((i-1)*2500+1):(i*2500),2]}
for (i in 1:25) {id2[,i]<- mydatap2[((i-1+8)*2500+1):(i+8)*2500),2]}
taubwc2<-1/(sqrt(mydatap2[(85001:87500),2]))
for (i in 1:2500) {betac2[i,9]<-rnorm(1,0,taubwc2[i])}
#####200 ITERATIONS#####
betaci<-matrix(0,200,9)
id2i<-id1i<-matrix(0,100,25)
for (i in 1:100)
{betaci[i,]<-betac1[(i*25),]
betaci[(i+100),]<-betac2[(i*25),]
id1i[i,]<-id1[(i*25),]
id2i[i,]<-id2[(i*25),]}
#####READ Xi's#####
#####SOME SITES NOT 288 OBS#####
#####THOSE SITES, SOME MU'S NOT USE!#####
trtIND<-volSite<-lengSite<-SSITE<-rep(0,7200)
COMPTSITE<-c(228,264,180,252,192,204,204,156,192,204,216,228,180,180,216,216,24,144,180,288,288,288,288,288,288)
SSITE0<-rep(c(rep(1,2),rep(2,3),rep(3,3),rep(4,3),1),594)
SSITE[-c(4009:4032,4873:4896,5161:5184)]<-SSITE0
lengSite0<-mydata$LENGTH
lengSite[-c(4009:4032,4873:4896,5161:5184)]<-lengSite0
volSite0<-mydata$MADT
volSite[-c(4009:4032,4873:4896,5161:5184)]<-volSite0
volSite<-volSite/1000
trtIND0<-c(rep(1,5400),rep(0,1728))
trtIND[-c(4009:4032,4873:4896,5161:5184)]<-trtIND0
#####DRAW NEW MU'S (per MILE)#####
#####TIME PERIOD SAME AS OLD DATA#####
#coef<-matrix(0,200,9)
rmumatrix<-matrix(0,25,(200*288))
for (i in 1:25)
{betaci[,9]<-c(id1i[,i],id2i[,i])
CTi<-COMPTSITE[i]
#LSi<-lengSite[i]
VSi<-volSite[((i-1)*288+1):(i*288)]
trtINDi<-trtIND[((i-1)*288+1):(i*288)]
SSITEi<-SSITE[((i-1)*288+1):(i*288)]
for (j in 1:288)
{#VLij<-VSi[j]/LSi[j]
tpINDi<-((j-CTi)>0)*1
coef<-matrix(rep(c(1,trtINDi[j],j,trtINDi[j]*j, trtINDi[j]*j*tpINDi, cos(2*pi/4*SSITEi[j]), cos(2*pi/4*2*SSITEi[j]),
sin(2*pi/4*SSITEi[j]),1),200),200,9,byrow=T)
rmumatrix[i,((j-1)*200+1):(j*200)]<-VSi[j]*exp(apply((coef*betaci),1,sum))
}
}
#####For treatment, calculate annual crashes#####
lyr<-c(rep(24,13),22,rep(24,2),rep(22,2),rep(24,7))
#ysets<-matrix(0,25,(200*24))
y3<-matrix(0,3,24)
y2p<-matrix(0,25,(200*2))
COMPYR<-ceiling((COMPTSITE)/12)
for (i in 1:19)
{ lyri<-lyr[i]
rmumatrixi<-matrix(rmumatrix[i,],288,200,byrow=T)
COMPi<-COMPTSITE[i]
ym<-c(floor(COMPi/12),(COMPi%%12))
if (ym[2]!=0)
{ybeforei<-matrix(0,(ym[1]+1)*12,200)
yafteri<-matrix(0,(lyri-ym[1])*12,200)
ybeforei[(1:(ym[1]*12)),]<-rmumatrixi[(1:(ym[1]*12)),] #Other than CompYr
yafteri[-(1:12),]<-rmumatrixi[ ((ym[1]+1)*12+1):(lyri*12)),] #Other than CompYr
ybeforei[((ym[1]*12+1):(ym[1]+1)*12),]<-
matrix(rep(apply(rmumatrixi(((ym[1]*12+1):(COMPi)),),2,sum)/ym[2]),12),12,200,byrow=T)
#CompYr
yafteri[1:12,]<-matrix(rep(apply(rmumatrixi(((COMPi+1):(ym[1]+1)*12)),),2,sum)/(12-ym[2]),12),12,200,byrow=T)
}
}

```

```

#CompYr
y2p[i,(1:200)]<-apply(ybeforei,2,sum)/(ym[1]+1)
y2p[i,(201:400)]<-apply(yafteri,2,sum)/(lyri-ym[1])
} else { #COMPLETE AT THE END OF A YEAR?
ybeforei<-matrix(0,(ym[1])*12,200)
yafteri<-matrix(0,(lyri-ym[1])*12,200)
ybeforei[,]<-rmatrix(1:(ym[1]*12),)
yafteri[,]<-rmatrix(1:(lyri-ym[1])*12,200)
y2p[i,(1:200)]<-apply(ybeforei,2,sum)/(ym[1])
y2p[i,(201:400)]<-apply(yafteri,2,sum)/(lyri-ym[1])
} }
#####For control, calculate annual crashes#####
for (i in 20:25)
{ COMPi<-COMPTSITE[i]
ym<-c(floor(COMPi/12),(COMPi%%12))
rmatrix<-matrix(rmatrix[i,],288,200,byrow=T)
ybeforei<-rmatrix(1:(ym[1]*12),)
y2p[i,(1:200)]<-apply(ybeforei,2,sum)/(ym[1])
y2p[i,(201:400)]<-0
}
#####Table 9 a: means and quintiles for treatment and control#####
mean19<-matrix(0,19,6)
for (i in 1:19)
{mean19[i,(1:3)]<-c(mean(y2p[i,(1:200)]),quantile(y2p[i,(1:200)],c(0.025,0.975)))
mean19[i,(4:6)]<-c(mean(y2p[i,(201:400)]),quantile(y2p[i,(201:400)],c(0.025,0.975)))}
mean6<-matrix(0,6,6)
for (i in 1:6)
{mean6[i,(1:3)]<-c(mean(y2p[(19+i),(1:200)]),quantile(y2p[(19+i),(1:200)],c(0.025,0.975)))
mean6[i,(4:6)]<-c(mean(y2p[(19+i),(201:400)]),quantile(y2p[(19+i),(201:400)],c(0.025,0.975)))}

#write.table(mean19, file = "~/Desktop/Result Tables/Road/table9aTMT.csv", append = FALSE, sep = ",", col.names = TRUE)
#write.table(mean6, file = "~/Desktop/Result Tables/Road/table9aControl.csv", append = FALSE, sep = ",", col.names = TRUE)

#####Table 9 b: diff and reduction for trt. before vs. trt. #####
z19<-d19<-matrix(0,19,3)
dy19<-y2p[(1:19),(201:400)]-y2p[(1:19),(1:200)] # Annal Difference: After-Before
zy19<-100*(1-(y2p[(1:19),(201:400)]/y2p[(1:19),(1:200)])) # Annal Reduction 100*(1-After/Before)
for (i in 1:19)
{d19[i,(1:3)]<- c(mean(dy19[i,]),quantile(dy19[i,],c(0.025,0.975)))
z19[i,(1:3)]<- c(mean(zy19[i,]),quantile(zy19[i,],c(0.025,0.975)))}

#write.table(d19, file = "~/Desktop/Result Tables/Road/table9bDifference.csv", append = FALSE, sep = ",", col.names = TRUE)
#write.table(z19, file = "~/Desktop/Result Tables/Road/table9bReduction.csv", append = FALSE, sep = ",", col.names = TRUE)

#####Table 9 c: diff and reduction for trt. before vs. avg. ctrl. #####
avctrlm<-matrix(rep(apply(y2p[20:25,1:200],2,sum)/6,19)
,19,200,byrow=T)
zb19<-db19<-matrix(0,19,3)
dby19<-y2p[(1:19),(1:200)]-avctrlm[(1:19),(1:200)] # Annal Difference: Before-Ctrl
zby19<-100*(1-(y2p[(1:19),(1:200)]/avctrlm[(1:19),(1:200)])) # Annal Reduction 100*(1-(Bef/Ctrl))
for (i in 1:19)
{db19[i,(1:3)]<- c(mean(dby19[i,]),quantile(dby19[i,],c(0.025,0.975)))
zb19[i,(1:3)]<- c(mean(zby19[i,]),quantile(zby19[i,],c(0.025,0.975)))}

#write.table(db19, file = "~/Desktop/Result Tables/Road/table9cDifference.csv", append = FALSE, sep = ",", col.names = TRUE)
#write.table(zb19, file = "~/Desktop/Result Tables/Road/table9cReduction.csv", append = FALSE, sep = ",", col.names = TRUE)

#####Table 9 d: diff and reduction for trt. after vs. avg. ctrl. #####
avctrlm<-matrix(rep(apply(y2p[20:25,1:200],2,sum)/6,19)
,19,200,byrow=T)
za19<-da19<-matrix(0,19,3)
day19<-y2p[(1:19),(201:400)]-avctrlm[(1:19),(1:200)] # Annal Difference After-Ctrl
zay19<-100*(1-(y2p[(1:19),(201:400)]/avctrlm[(1:19),(1:200)])) # Annal Reduction: 100*(1-After/Ctrl)
for (i in 1:19)
{da19[i,(1:3)]<- c(mean(day19[i,]),quantile(day19[i,],c(0.025,0.975)))
za19[i,(1:3)]<- c(mean(zay19[i,]),quantile(zay19[i,],c(0.025,0.975)))}

#write.table(da19, file = "~/Desktop/Result Tables/Road/table9dDifference.csv", append = FALSE, sep = ",", col.names = TRUE)

```

```
#write.table(za19, file = "~/Desktop/Result Tables/Road/table9dReduction.csv", append = FALSE, sep = ",", col.names = TRUE)
```

```
#####Table 10#####
```

```
avybeforec<- avybeforef<-avyaftert<-rep(0,200)
avybeforef<-apply(y2p[(1:19),(1:200)],2,sum)/19      #Before, Treatment
avybeforec<-apply(y2p[(20:25),(1:200)],2,sum)/6      #Before, Control
avyaftert<-apply(y2p[(1:19),(201:400)],2,sum)/19     #After, Treatment
Controls<-c(mean(avybeforec),quantile(avybeforec,c(0.025,0.975)))
TrtBefore<-c(mean(avybeforef),quantile(avybeforef,c(0.025,0.975)))
TrtAfter<-c(mean(avyaftert),quantile(avyaftert,c(0.025,0.975)))
Table10<-rbind(Controls,TrtBefore,TrtAfter)
```

```
#write.table(Table10, file = "~/Desktop/Result Tables/Road/table10.csv", append = FALSE, sep = ",", col.names = TRUE)
```

```
#####Figure 5a#####
```

```
#jpeg("~/Desktop/Result Tables/Road/Figure5a.jpg",width=640,height=640)
par(mfrow=c(2,1))
plot(density(avybeforec)$x,density(avybeforec)$y,xlim=c(0,10),ylim=c(0,8),type='l',xlab='average of expected number of crashes per mile',ylab='density')
lines(density(avybeforef)$x,density(avybeforef)$y,lty=3)
title('post. dsn. of ave. diff. btw. ave. contr. & trt. before')
typ.names <- c("ave. contr", "trt. before")
legend(0.8, legend = typ.names, lty =c(1,3) )
plot(density(avybeforec)$x,density(avybeforec)$y,xlim=c(0,10),ylim=c(0,8),type='l',xlab='average of expected number of crashes per mile',ylab='density')
lines(density(avyaftert)$x,density(avyaftert)$y,lty=3)
title('post. dsn. of ave. diff. btw. ave. contr & for trt. after')
typ.names <- c("ave. contr", "trt. after")
legend(0.8, legend = typ.names, lty =c(1,3) )
dev.off()
```

```
#####Figure 5b#####
```

```
#jpeg("~/Desktop/Result Tables/Road/Figure5b.jpg",width=640,height=640)
par(mfrow=c(1,1))
plot(density(avybeforec)$x,density(avybeforec)$y,xlim=c(0,10),ylim=c(0,5.5),type='l',xlab='average of expected number of crashes per mile',ylab='density')
lines(density(avybeforef)$x,density(avybeforef)$y,lty=3)
lines(density(avyaftert)$x,density(avyaftert)$y,lty=6)
#title('post. dsn. of non-trt., trt. before and trt. after')
typ.names <- c("ave. non-trt.", "trt. before", "trt. after" )
legend(0.5,5, legend = typ.names, lty =c(1,3,6) )
dev.off()
```

```
#####FOR SAME AADT#####
```

```
ADT1<-rep(0,7200)
ADT0<-rep(apply(matrix(mydata$MADT,594,12,byrow=T),1,sum),each=12)/1000000
ADT1[-c(4009:4032,4873:4896,5161:5184)]<-ADT0
ADT2<-matrix(rep(ADT1,each=200),25,(200*288),byrow=T)
y2pav<-matrix(0,25,(200*2))
#lyr<-c(rep(24,13),22,rep(24,2),rep(22,2),rep(24,7))
#ysets<-matrix(0,25,(200*24))
#y3<-matrix(0,3,24)
#COMPYR<-ceiling((COMPTSITE)/12)
for (i in 1:19)
{ lyr<-lyr[i]
  rmumatrixi<-matrix(rmumatrix[i,],288,200,byrow=T)
  COMPi<-COMPTSITE[i]
  ym<-c(floor(COMPi/12),(COMPi%%12))
  if (ym[2]!=0)
  { ADTbei<-matrix(ADT2[i,(1:(ym[1]+1*12*200))],(ym[1]+1)*12,200,byrow=T)
    ADTafi<-matrix(ADT2[i,((ym[1]*12*200+1):(lyri*12*200))],(lyri-ym[1])*12,200,byrow=T)
    ybeforei<-matrix(0,(ym[1]+1)*12,200)
    yafteri<-matrix(0,(lyri-ym[1])*12,200)
    ybeforei[(1:(ym[1]*12)),]<-rmumatrixi[(1:(ym[1]*12)),] #Other than CompYr
    yafteri[-(1:12),]<-rmumatrixi[ ((ym[1]+1)*12+1):(lyri*12),] #Other than CompYr
    ybeforei[(ym[1]*12+1):(ym[1]+1)*12),]<-
    matrix(rep((apply(rmumatrixi[((ym[1]*12+1):(COMPi)],2,sum)/ym[2]),12),12,200,byrow=T)
    #CompYr
```



```

  yafteri[1:12]<-matrix(rep((apply(rmumatrixi[((COMPi+1):((ym[1]+1)*12)),],2,sum))/(12-ym[2]),12),12,200,byrow=T)
#CompYr
  ybeforeiav<-ybeforei/ADTbei
  yafteriav<-yafteri/ADTafi
  y2pav[i,(1:200)]<-apply(ybeforeiav,2,sum)/(ym[1]+1)
  y2pav[i,(201:400)]<-apply(yafteriav,2,sum)/(lyri-ym[1])
} else { #COMPLETE AT THE END OF A YEAR?
  ybeforei<-matrix(0,(ym[1])*12,200)
  yafteri<-matrix(0,(lyri-ym[1])*12,200)
  ybeforei[,]<-rmumatrixi[(1:(ym[1]*12)),]
  yafteri[,]<-rmumatrixi[(((ym[1])*12+1):(lyri*12)),]
  ADTbei<-matrix(ADT2[i,(1:(ym[1]*12*200))],(ym[1])*12,200,byrow=T)
  ADTafi<-matrix(ADT2[i,((ym[1]*12*200+1):(lyri*12*200))],(lyri-ym[1])*12,200,byrow=T)
  ybeforeiav<-ybeforei/ADTbei
  yafteriav<-yafteri/ADTafi
  y2pav[i,(1:200)]<-apply(ybeforeiav,2,sum)/(ym[1]+1)
  y2pav[i,(201:400)]<-apply(yafteriav,2,sum)/(lyri-ym[1])
} }
#####For control, calculate annual crashes#####
for (i in 20:25)
{ COMPi<-COMPSITE[i]
  ym<-c(floor(COMPi/12),(COMPi%12))
  rmumatrixi<-matrix(rmumatrix[i,],288,200,byrow=T)
  ybeforei<-rmumatrixi[(1:(ym[1]*12)),]
  ADTbei<-matrix(ADT2[i,(1:(ym[1]*12*200))],(ym[1])*12,200,byrow=T)
  ybeforeiav<-ybeforei/ADTbei
  yafteriav<-yafteri/ADTafi
  y2pav[i,(1:200)]<-apply(ybeforeiav,2,sum)/(ym[1])
  y2pav[i,(201:400)]<-0
}
#####Table 9 a: means and quintiles for treatment and control#####
mean19av<-matrix(0,19,6)
for (i in 1:19)
{ mean19av[i,(1:3)]<-c(mean(y2pav[i,(1:200)]),quantile(y2pav[i,(1:200)],c(0.025,0.975)))
  mean19av[i,(4:6)]<-c(mean(y2pav[i,(201:400)]),quantile(y2pav[i,(201:400)],c(0.025,0.975)))
}
mean6av<-matrix(0,6,6)
for (i in 1:6)
{ mean6av[i,(1:3)]<-c(mean(y2pav[(19+i),(1:200)]),quantile(y2pav[(19+i),(1:200)],c(0.025,0.975)))
  mean6av[i,(4:6)]<-c(mean(y2pav[(19+i),(201:400)]),quantile(y2pav[(19+i),(201:400)],c(0.025,0.975)))
}

#write.table(mean19av, file = "~/Desktop/Result Tables/Road/SAMEAADT/table9aTMT.csv", append = FALSE, sep = ",", col.names =
TRUE)
#write.table(mean6av, file = "~/Desktop/Result Tables/Road/SAMEAADT/table9aControl.csv", append = FALSE, sep = ",", col.names =
TRUE)

#####Table 9 b: diff and reduction for trt. before vs. trt. #####
z19av<-d19av<-matrix(0,19,3)
dy19av<-y2pav[(1:19),(201:400)]-y2pav[(1:19),(1:200)] # Annal Diff: After-Before
zy19av<-100-100*(y2pav[(1:19),(201:400)]/y2pav[(1:19),(1:200)]) # Annal Reduc 100*(1-Aft/Bef)
for (i in 1:19)
{ d19av[i,(1:3)]<- c(mean(dy19av[i,]),quantile(dy19av[i,],c(0.025,0.975)))
  z19av[i,(1:3)]<- c(mean(zy19av[i,]),quantile(zy19av[i,],c(0.025,0.975)))
}

#write.table(d19av, file = "~/Desktop/Result Tables/Road/SAMEAADT/table9bDifference.csv", append = FALSE, sep = ",", col.names =
TRUE)
#write.table(z19av, file = "~/Desktop/Result Tables/Road/SAMEAADT/table9bReduction.csv", append = FALSE, sep = ",", col.names =
TRUE)

#####Table 9 c: diff and reduction for trt. before vs. avg. ctrl. #####
avctrlmav<-matrix(rep(apply(y2pav[20:25,1:200],2,sum)/6,19),19,200,byrow=T)
zb19av<-db19av<-matrix(0,19,3)
dby19av<-y2pav[(1:19),(1:200)]-avctrlmav[(1:19),(1:200)] # Annal Diff: Before-Ctrl
zby19av<-100-100*(y2pav[(1:19),(1:200)]/avctrlmav[(1:19),(1:200)]) # Annal Reduc 100*(1-Before/Ctrl)
for (i in 1:19)
{ db19av[i,(1:3)]<- c(mean(dby19av[i,]),quantile(dby19av[i,],c(0.025,0.975)))
  zb19av[i,(1:3)]<- c(mean(zby19av[i,]),quantile(zby19av[i,],c(0.025,0.975)))
}

```

```
#write.table(db19av, file = "~/Desktop/Result Tables/Road/SAMEAADT/table9cDifference.csv", append = FALSE, sep = ",", col.names = TRUE)
#write.table(zb19av, file = "~/Desktop/Result Tables/Road/SAMEAADT/table9cReduction.csv", append = FALSE, sep = ",", col.names = TRUE)
```

```
#####Table 9 d: diff and reduction for trt. after vs. avg. ctrl. #####
avctrlmav<-matrix(rep(apply(y2p[20:25,1:200],2,sum)/6,19)
,19,200,byrow=T)
za19av<-da19av<-matrix(0,19,3)
day19av<-y2pav[(1:19),(201:400)]-avctrlmav[(1:19),(1:200)] # Annal Diff: After-Ctrl
zay19av<-100-100*(y2pav[(1:19),(201:400)]/avctrlmav[(1:19),(1:200)]) # Ann. Redu 100*(1-After/Ctrl)
for (i in 1:19)
{da19av[i,(1:3)]<- c(mean(day19av[i,]),quantile(day19av[i,],c(0.025,0.975)))
za19av[i,(1:3)]<- c(mean(zay19av[i,]),quantile(zay19av[i,],c(0.025,0.975)))}
```

```
#write.table(da19av, file = "~/Desktop/Result Tables/Road/SAMEAADT/table9dDifference.csv", append = FALSE, sep = ",", col.names = TRUE)
#write.table(za19av, file = "~/Desktop/Result Tables/Road/SAMEAADT/table9dReduction.csv", append = FALSE, sep = ",", col.names = TRUE)
```

```
#####Table 10#####
avybeforecav<- avybeforetav<-avyaftertav<-rep(0,200)
avybeforetav<-apply(y2pav[(1:19),(1:200)],2,sum)/19 #Before, Treatment
avybeforecav<-apply(y2pav[(20:25),(1:200)],2,sum)/6 #Before, Control
avyaftertav<-apply(y2pav[(1:19),(201:400)],2,sum)/19 #After, Treatment
controls<-c(mean(avybeforecav),quantile(avybeforecav,c(0.025,0.975)))
tmtbefore<-c(mean(avybeforetav),quantile(avybeforetav,c(0.025,0.975)))
tmtafter<-c(mean(avyaftertav),quantile(avyaftertav,c(0.025,0.975)))
```

```
table10<-rbind(controls,tmtbefore,tmtafter)
#write.table(table10, file = "~/Desktop/Result Tables/Road/SAMEAADT/table10.csv", append = FALSE, sep = ",", col.names = TRUE)
```

```
#####Figure 5a#####
#jpeg("~/Desktop/Result Tables/Road/SAMEAADT/Figure5a.jpg",width=640,height=640)
par(mfrow=c(2,1))
plot(density(avybeforecav)$x,density(avybeforecav)$y,xlim=c(0,6),ylim=c(0,10),type='l',xlab='average of expected crash rate',ylab='density')
lines(density(avybeforetav)$x,density(avybeforetav)$y,lty=3)
title('post. dsn. of ave. diff. btw. ave. contr. & trt. before')
typ.names <- c("ave. non-trt.", "trt. before")
legend(0,10, legend = typ.names, lty =c(1,3) )
plot(density(avybeforecav)$x,density(avybeforecav)$y,xlim=c(0,6),ylim=c(0,10),type='l',xlab='average of expected number of crashes per mile',ylab='density')
lines(density(avyaftertav)$x,density(avyaftertav)$y,lty=3)
#title('post. dsn. of ave. diff. btw. ave. contr & for trt. after')
typ.names <- c("ave. non-trt.", "trt. after")
legend(0,10, legend = typ.names, lty =c(1,3) )
dev.off()
```

```
#####Figure 5b#####
#jpeg("~/Desktop/Result Tables/Road/SAMEAADT/Figure5b.jpg",width=640,height=640)
par(mfrow=c(1,1))
plot(density(avybeforecav)$x,density(avybeforecav)$y,xlim=c(0,5),ylim=c(0,10),type='l',xlab='average of expected crash rate',ylab='density')
lines(density(avybeforetav)$x,density(avybeforetav)$y,lty=3)
lines(density(avyaftertav)$x,density(avyaftertav)$y,lty=6)
#title('post. dsn. of ave. contr., trt. before and trt. after')
typ.names <- c("ave. non-trt.", "trt. before","trt. after" )
legend(0,10, legend = typ.names, lty =c(1,3,6) )
dev.off()
```

Predictions Code For all Datasets

```
#####REAL PREDICTION FOR 2005#####
#####DRAW NEW MU'S (per MILE)#####
#####TIME PERIOD SAME AS OLD DATA#####
#coef<-matrix(0,200,9)
```

```

rmumatrix<-matrix(0,25,(200*12))
for (i in 1:25)
{betaci[9]<-c(id1i[i],id2i[i])
CTi<-COMPTSITE[i]
#LSi<-lengSite[i]
VSi<-volSite[((i-1)*276+1):(i*288)]
trtINDi<-trtIND[((i-1)*276+1):(i*288)] #taking ADT and stuff from 2005
SSITEi<-SSITE[((i-1)*276+1):(i*288)]
for (j in 277:288) # now Expected for 277-288=2005
{#VLij<-VSi[j]/LSi[j]
tpINDi<-((j-CTi)>0)*1
coef<-matrix(rep(c(1,trtINDi[j-276],j,trtINDi[j-276]*j, trtINDi[j-276]*j*tpINDi, cos(2*pi/4*SSITEi[j-276]), cos(2*pi/4*2*SSITEi[j-276]), sin(2*pi/4*SSITEi[j-276]),1),200),200,9,byrow=T)
rmumatrix[i,(((j-1-276)*200+1):(j-276)*200)]<-VSi[j-276]*exp(apply((coef*betaci),1,sum))
}
}
rmumatrix4<-matrix(0,25,(200*4))
# Winter
rmumatrix4[,1:200]<-(rmumatrix[,1:200]+rmumatrix[,201:400]+rmumatrix[,2201:2400])/3
#Spring
rmumatrix4[,201:400]<-(rmumatrix[,401:600]+rmumatrix[,601:800]+rmumatrix[,801:1000])/3
#Summer
rmumatrix4[,401:600]<-(rmumatrix[,1001:1200]+rmumatrix[,1201:1400]+rmumatrix[,1401:1600])/3
#Fall
rmumatrix4[,601:800]<-(rmumatrix[,1601:1800]+rmumatrix[,1801:2000]+rmumatrix[,2001:2200])/3
y4s<-matrix(0,25,12)
for (i in 1:25)
{rmumatrixxi<-matrix(rmumatrix4[i,],4,200,byrow=T)
y4s[i,c(1,4,7,10)]<-apply(rmumatrixxi,1,mean)
for (j in 1:4) { y4s[i,((j-1)*3+(2:3))]<-quantile(rmumatrixxi[j,],c(0.025,0.975))}
}

write.table(y4s, file = "~/Desktop/Result Tables/Prediction2005.csv", append = FALSE, sep = ",", col.names = TRUE)

#####Predictions for 2008#####

rmumatrix<-matrix(0,25,(200*12))
for (i in 1:25)
{betaci[9]<-c(id1i[i],id2i[i])
CTi<-COMPTSITE[i]
#LSi<-lengSite[i]
VSi<-volSite[((i-1)*276+1):(i*288)]
trtINDi<-trtIND[((i-1)*276+1):(i*288)]
SSITEi<-SSITE[((i-1)*276+1):(i*288)]
for (j in 313:324)
{#VLij<-VSi[j]/LSi[j]
tpINDi<-((j-CTi)>0)*1
coef<-matrix(rep(c(1,trtINDi[j-312],j,trtINDi[j-312]*j, trtINDi[j-312]*j*tpINDi, cos(2*pi/4*SSITEi[j-312]), cos(2*pi/4*2*SSITEi[j-312]), sin(2*pi/4*SSITEi[j-312]),1),200),200,9,byrow=T)
rmumatrix[i,(((j-1-312)*200+1):(j-312)*200)]<-VSi[j-312]*exp(apply((coef*betaci),1,sum))
}
}
rmumatrix4<-matrix(0,25,(200*4))
# Winter
rmumatrix4[,1:200]<-(rmumatrix[,1:200]+rmumatrix[,201:400]+rmumatrix[,2201:2400])/3
#Spring
rmumatrix4[,201:400]<-(rmumatrix[,401:600]+rmumatrix[,601:800]+rmumatrix[,801:1000])/3
#Summer
rmumatrix4[,401:600]<-(rmumatrix[,1001:1200]+rmumatrix[,1201:1400]+rmumatrix[,1401:1600])/3
#Fall
rmumatrix4[,601:800]<-(rmumatrix[,1601:1800]+rmumatrix[,1801:2000]+rmumatrix[,2001:2200])/3
y4s<-matrix(0,25,12)
for (i in 1:25)
{rmumatrixxi<-matrix(rmumatrix4[i,],4,200,byrow=T)
y4s[i,c(1,4,7,10)]<-apply(rmumatrixxi,1,mean)
for (j in 1:4) { y4s[i,((j-1)*3+(2:3))]<-quantile(rmumatrixxi[j,],c(0.025,0.975))}
}

```

```
write.table(y4s, file = "~/Desktop/Result Tables/Prediction2008.csv", append = FALSE, sep = ",", col.names = TRUE)
```

```
#####FOR SAME AADT Prediction 2005#####
ADT1<-rep(0,7200)
ADT0<-rep(apply(matrix(mydata$MADT,594,12,byrow=T),1,sum),each=12)/1000000
ADT1[-c(4009:4032,4873:4896,5161:5184)]<-ADT0
ADT2<-matrix(rep(ADT1,each=200),25,(200*288),byrow=T)
rmumatrix<-matrix(0,25,(200*12))
for (i in 1:25)
{betaci[,9]<-c(id1[i],id2[i])
CTi<-COMPTSITE[i]
#LSi<-lengSite[i]
VSi<-volSite[((i-1)*276+1):(i*288)]
trtINDi<-trtIND[((i-1)*276+1):(i*288)]
SSITEi<-SSITE[((i-1)*276+1):(i*288)]
ADT2i<-ADT2[((i-1)*276+1):(i*288)]
for (j in 289:300)
{#VLij<-VSi[j]/LSi[j]
tpINDi<-((j-CTi)>0)*1
coef<-matrix(rep(c(1,trtINDi[j-288],j,trtINDi[j-288]*j, trtINDi[j-288]*j*tpINDi, cos(2*pi/4*SSITEi[j-288]), cos(2*pi/4*2*SSITEi[j-288]), sin(2*pi/4*SSITEi[j-288]),1),200),200,9,byrow=T)
rmumatrix[i,(((j-1-288)*200+1):(j-288)*200)]<-VSi[j-288]*exp(apply((coef*betaci),1,sum))*ADT2i[j-288]
}
}
rmumatrix4av<-matrix(0,25,(200*4))
# Winter
rmumatrix4av[,1:200]<-(rmumatrix[,1:200]+rmumatrix[,201:400]+rmumatrix[,2201:2400])/3
#Spring
rmumatrix4av[,201:400]<-(rmumatrix[,401:600]+rmumatrix[,601:800]+rmumatrix[,801:1000])/3
#Summer
rmumatrix4av[,401:600]<-(rmumatrix[,1001:1200]+rmumatrix[,1201:1400]+rmumatrix[,1401:1600])/3
#Fall
rmumatrix4av[,601:800]<-(rmumatrix[,1601:1800]+rmumatrix[,1801:2000]+rmumatrix[,2001:2200])/3
y4sav<-matrix(0,25,12)
for (i in 1:25)
{rmumatrixxi<-matrix(rmumatrix4av[i,],4,200,byrow=T)
y4sav[i,c(1,4,7,10)]<-apply(rmumatrixxi,1,mean)
for (j in 1:4) { y4sav[i,((j-1)*3+(2:3))]<-quantile(rmumatrixxi[j,],c(0.025,0.975))}
}
}
```

```
write.table(y4sav, file = "~/Desktop/Result Tables/SAMEAADT/RatePrediction2005.csv", append = FALSE, sep = ",", col.names = TRUE)
```

```
#####FOR SAME AADT Prediction 2008#####
ADT1<-rep(0,7200)
ADT0<-rep(apply(matrix(mydata$MADT,594,12,byrow=T),1,sum),each=12)/1000000
ADT1[-c(4009:4032,4873:4896,5161:5184)]<-ADT0
ADT2<-matrix(rep(ADT1,each=200),25,(200*288),byrow=T)
rmumatrix<-matrix(0,25,(200*12))
for (i in 1:25)
{betaci[,9]<-c(id1[i],id2[i])
CTi<-COMPTSITE[i]
#LSi<-lengSite[i]
VSi<-volSite[((i-1)*276+1):(i*288)]
trtINDi<-trtIND[((i-1)*276+1):(i*288)]
SSITEi<-SSITE[((i-1)*276+1):(i*288)]
ADT2i<-ADT2[((i-1)*276+1):(i*288)]
for (j in 313:324)
{#VLij<-VSi[j]/LSi[j]
tpINDi<-((j-CTi)>0)*1
coef<-matrix(rep(c(1,trtINDi[j-288],j,trtINDi[j-312]*j, trtINDi[j-312]*j*tpINDi, cos(2*pi/4*SSITEi[j-312]), cos(2*pi/4*2*SSITEi[j-312]), sin(2*pi/4*SSITEi[j-312]),1),200),200,9,byrow=T)
rmumatrix[i,(((j-1-312)*200+1):(j-312)*200)]<-VSi[j-312]*exp(apply((coef*betaci),1,sum))*ADT2i[j-312]
}
}
rmumatrix4av<-matrix(0,25,(200*4))
# Winter
rmumatrix4av[,1:200]<-(rmumatrix[,1:200]+rmumatrix[,201:400]+rmumatrix[,2201:2400])/3
#Spring
```

```

rmumatrix4av[,201:400]<-(rmumatrix[,401:600]+rmumatrix[,601:800]+rmumatrix[,801:1000])/3
#Summer
rmumatrix4av[,401:600]<-(rmumatrix[,1001:1200]+rmumatrix[,1201:1400]+rmumatrix[,1401:1600])/3
#Fall
rmumatrix4av[,601:800]<-(rmumatrix[,1601:1800]+rmumatrix[,1801:2000]+rmumatrix[,2001:2200])/3
y4sav<-matrix(0,25,12)
for (i in 1:25)
{rmumatrixi<-matrix(rmumatrix4av[i,],4,200,byrow=T)
y4sav[i,c(1,4,7,10)]<-apply(rmumatrixi,1,mean)
for (j in 1:4) { y4sav[i,(j-1)*3+(2:3)]<-quantile(rmumatrixi[j,],c(0.025,0.975))}
}

write.table(y4sav, file = "~/Desktop/Result Tables/SAMEAADT/RatePrediction2008.csv", append = FALSE, sep = ",", col.names = TRUE)

```

Citizenry Raw Data plots Code

```

Road<-read.table("~/Desktop/All Done DATA/RoadCit.txt",header=T)
Sum<-read.table("~/Desktop/All Done DATA/SumCit.txt",header=T)
Bypass<-read.table("~/Desktop/All Done DATA/BypassCit.txt",header=T)
library(KernSmooth)

slB<-slR<-slS<-rep(144,23)
sbdB<-sbdR<-sbdS<-rep(0,23)

for (i in 1:23)
{yind<-sum(slB[1:i])
sbdB[i]<-dpill((1:slB[i]),(Bypass$CART[[(yind-slB[i]+1):yind]]))}

for (i in 1:23)
{yind<-sum(slR[1:i])
sbdR[i]<-dpill((1:slR[i]),(Road$CART[[(yind-slR[i]+1):yind]]))}

for (i in 1:23)
{yind<-sum(slS[1:i])
sbdS[i]<-dpill((1:slS[i]),(Sum$CART[[(yind-slS[i]+1):yind]]))}

x<-1:144
#1 Road For Paper
y<- (Road$CART)[which(Road$SID==1)]
sy<- locpoly(x,y,bandwidth=sbdR[1])
png("~/Desktop/CitBeforePlots/1HighRes.png",width=620,height=480, res=200000)
#jpeg("~/Desktop/CitBeforePlots/1R.jpg",width=620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,3))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(84,84),c(-1,3))
legend(0,3, legend = typ.names, lty =c(3,1) )
title("Road monthly crashes per mile involving local citizens", sub="SID=1, Sioux City",font.sub=4)
dev.off()

#1 Bypass for paper
y<- (Bypass$CART)[which(Bypass$SID==1)]
sy<- locpoly(x,y,bandwidth=sbdB[1])
#jpeg("~/Desktop/AfterPlots/1.jpg",width=620,height=480)
jpeg("~/Desktop/CitBypassPlots/1BPaper.jpg",width=620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,3))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(84,84),c(-1,3))
legend(0,3, legend = typ.names, lty =c(3,1) )
title("Bypass monthly crashes per mile involving local citizens", sub="SID=1, Sioux City",font.sub=4)
dev.off()

#1 Sum for paper
y<- (Sum$CART)[which(Sum$SID==1)]
sy<- locpoly(x,y,bandwidth=sbdS[1])

```

```

#jpeg("~/Desktop/CitSumPlots/1.jpg",width=620,height=480)
png("~/Desktop/CitSumPlots/1SPaper.png",width=620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,3))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(84,84),c(-1,3))
legend(-1,3, legend = typ.names, lty =c(3,1) )
title("Road + Bypass monthly crashes per mile involving local citizens", sub="SID=1, Sioux City",font.sub=4)
dev.off()

```

```

#1 Road
y<- (Road$CRT)[which(Road$SID==1)]
sy<- locpoly(x,y,bandwidth=sbdR[1])
jpeg("~/Desktop/CitBeforePlots/1.jpg",width=620,height=480)
#jpeg("~/Desktop/CitBeforePlots/1R.jpg",width=620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(84,84),c(-1,5))
legend(0,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 1B. Road monthly crashes per mile, SID=1, Sioux City",font.sub=4)
dev.off()

```

```

#1 Bypass
y<- (Bypass$CRT)[which(Bypass$SID==1)]
sy<- locpoly(x,y,bandwidth=sbdB[1])
#jpeg("~/Desktop/AfterPlots/1.jpg",width=620,height=480)
jpeg("~/Desktop/CitBypassPlots/1B.jpg",width=620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(84,84),c(-1,5))
legend(0,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 2B. Bypass monthly crashes per mile, SID=1, Sioux City",font.sub=4)
dev.off()

```

```

#1 Sum
y<- (Sum$CRT)[which(Sum$SID==1)]
sy<- locpoly(x,y,bandwidth=sbdS[1])
#jpeg("~/Desktop/CitSumPlots/1.jpg",width=620,height=480)
jpeg("~/Desktop/CitSumPlots/1S.jpg",width=620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(84,84),c(-1,5))
legend(-1,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 3B. Road + Bypass monthly crashes per mile, SID=1",font.sub=4)
dev.off()

```

```

#2 Road
y<- (Road$CRT)[which(Road$SID==2)]
sy<- locpoly(x,y,bandwidth=sbdR[2])
#jpeg("~/Desktop/CitBeforePlots/2.jpg",width=620,height=480)
jpeg("~/Desktop/CitBeforePlots/2R.jpg",width=620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(120,120),c(-1,5))
legend(0,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 4B. Road monthly crashes per mile, SID=2, Alton",font.sub=4)
dev.off()

```

```

#2 Bypass
y<- (Bypass$CRT)[which(Bypass$SID==2)]
sy<- locpoly(x,y,bandwidth=sbdB[2])
#jpeg("~/Desktop/AfterPlots/2.jpg",width=620,height=480)
jpeg("~/Desktop/CitBypassPlots/2B.jpg",width=620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))

```

```

lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(120,120),c(-1.5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 5B. Bypass monthly crashes per mile, SID=2, Alton",font.sub=4)
dev.off()

#2 Sum
y<- (Sum$CRT)[which(Sum$SID==2)]
sy<- locpoly(x,y,bandwidth=sbdS[2])
#jpeg("~/Desktop/CitSumPlots/2.jpg",width=620,height=480)
jpeg("~/Desktop/CitSumPlots/2S.jpg",width=620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(120,120),c(-1.5))
legend(-1.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 6B. Road + Bypass monthly crashes per mile, SID=2",font.sub=4)
dev.off()

#3 Road
y<- (Road$CRT)[which(Road$SID==3)]
sy<- locpoly(x,y,bandwidth=sbdR[3])
#jpeg("~/Desktop/CitBeforePlots/3.jpg",width=620,height=480)
jpeg("~/Desktop/CitBeforePlots/3R.jpg",width = 620, height = 480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(36,36),c(-1.5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 7B. Road monthly crashes per mile, SID=3, Storm Lake",font.sub=4)
dev.off()

#3 Bypass
y<- (Bypass$CRT)[which(Bypass$SID==3)]
sy<- locpoly(x,y,bandwidth=sbdB[3])
#jpeg("~/Desktop/AfterPlots/3.jpg",width=620,height=480)
jpeg("~/Desktop/CitBypassPlots/3B.jpg",width = 620, height = 480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(36,36),c(-1.5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 8B. Bypass monthly crashes per mile, SID=3, Storm Lake",font.sub=4)
dev.off()

#3 Sum
y<- (Sum$CRT)[which(Sum$SID==3)]
sy<- locpoly(x,y,bandwidth=sbdS[3])
#jpeg("~/Desktop/CitSumPlots/3.jpg",width=620,height=480)
jpeg("~/Desktop/CitSumPlots/3S.jpg",width = 620, height = 480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(36,36),c(-1.5))
legend(-1.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 9B. Road + Bypass monthly crashes per mile, SID=3",font.sub=4)
dev.off()

#4 Road
y<- (Road$CRT)[which(Road$SID==4)]
sy<- locpoly(x,y,bandwidth=sbdR[4])
#jpeg("~/Desktop/CitBeforePlots/4.jpg",width=620,height=480)
jpeg("~/Desktop/CitBeforePlots/4R.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(108,108),c(-1.5))

```

```

legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 10B. Road monthly crashes per mile, SID=4, Pleasantville",font.sub=4)
dev.off()

```

```

#4 Bypass
y<- (Bypass$CRT)[which(Bypass$SID==4)]
sy<- locpoly(x,y,bandwidth=sbdB[4])
#jpeg("~/Desktop/AfterPlots/4.jpg",width=620,height=480)
jpeg("~/Desktop/CitBypassPlots/4B.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(108,108),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 11B. Bypass monthly crashes per mile, SID=4, Pleasantville",font.sub=4)
dev.off()

```

```

#4 Sum
y<- (Sum$CRT)[which(Sum$SID==4)]
sy<- locpoly(x,y,bandwidth=sbdS[4])
#jpeg("~/Desktop/CitSumPlots/4.jpg",width=620,height=480)
jpeg("~/Desktop/CitSumPlots/4S.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(108,108),c(-1,5))
legend(-1.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 12B. Road + Bypass monthly crashes per mile, SID=4",font.sub=4)
dev.off()

```

```

#5 Road
y<- (Road$CRT)[which(Road$SID==5)]
sy<- locpoly(x,y,bandwidth=sbdR[5])
#jpeg("~/Desktop/CitBeforePlots/5.jpg",width=620,height=480)
jpeg("~/Desktop/CitBeforePlots/5R.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(48,48),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 13B. Road monthly crashes per mile, SID=5, Prairie City",font.sub=4)
dev.off()

```

```

#5 Bypass
y<- (Bypass$CRT)[which(Bypass$SID==5)]
sy<- locpoly(x,y,bandwidth=sbdB[5])
#jpeg("~/Desktop/AfterPlots/5.jpg",width=620,height=480)
jpeg("~/Desktop/CitBypassPlots/5B.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(48,48),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 14B. Bypass monthly crashes per mile, SID=5, Prairie City",font.sub=4)
dev.off()

```

```

#5 Sum
y<- (Sum$CRT)[which(Sum$SID==5)]
sy<- locpoly(x,y,bandwidth=sbdS[5])
#jpeg("~/Desktop/CitSumPlots/5.jpg",width=620,height=480)
jpeg("~/Desktop/CitSumPlots/5S.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(48,48),c(-1,5))
legend(-1.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 15B. Road + Bypass monthly crashes per mile, SID=5",font.sub=4)
dev.off()

```



```

#6 Road
y<- (Road$CRT)[which(Road$SID==6)]
sy<- locpoly(x,y,bandwidth=sbdR[6])
#jpeg("~/Desktop/CitBeforePlots/6.jpg",width=620,height=480)
jpeg("~/Desktop/CitBeforePlots/6R.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(60,60),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 16B. Road monthly crashes per mile, SID=6, Monroe",font.sub=4)
dev.off()

#6 Bypass
y<- (Bypass$CRT)[which(Bypass$SID==6)]
sy<- locpoly(x,y,bandwidth=sbdB[6])
#jpeg("~/Desktop/AfterPlots/6.jpg",width=620,height=480)
jpeg("~/Desktop/CitBypassPlots/6B.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(60,60),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 17B. Bypass monthly crashes per mile, SID=6, Monroe",font.sub=4)
dev.off()

#6 Sum
y<- (Sum$CRT)[which(Sum$SID==6)]
sy<- locpoly(x,y,bandwidth=sbdS[6])
#jpeg("~/Desktop/CitSumPlots/6.jpg",width=620,height=480)
jpeg("~/Desktop/CitSumPlots/6S.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(60,60),c(-1,5))
legend(-1.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 18B. Road + Bypass monthly crashes per mile, SID=6",font.sub=4)
dev.off()

#7 Road
y<- (Road$CRT)[which(Road$SID==7)]
sy<- locpoly(x,y,bandwidth=sbdR[7])
#jpeg("~/Desktop/CitBeforePlots/7.jpg",width=620,height=480)
jpeg("~/Desktop/CitBeforePlots/7R.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(60,60),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 19B. Road monthly crashes per mile, SID=7, Otley",font.sub=4)
dev.off()

#7 Bypass
y<- (Bypass$CRT)[which(Bypass$SID==7)]
sy<- locpoly(x,y,bandwidth=sbdB[7])
#jpeg("~/Desktop/AfterPlots/7.jpg",width=620,height=480)
jpeg("~/Desktop/CitBypassPlots/7B.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(60,60),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 20B. Bypass monthly crashes per mile, SID=7, Otley",font.sub=4)
dev.off()

#7 Sum
y<- (Sum$CRT)[which(Sum$SID==7)]

```

```

sy<- locpoly(x,y,bandwidth=sbdS[7])
#jpeg("~/Desktop/CitSumPlots/7.jpg",width=620,height=480)
jpeg("~/Desktop/CitSumPlots/7S.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(60,60),c(-1,5))
legend(-1,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 21B. Road + Bypass monthly crashes per mile, SID=7",font.sub=4)
dev.off()

#8 Road
y<- (Road$CART)[which(Road$SID==8)]
sy<- locpoly(x,y,bandwidth=sbdR[8])
#jpeg("~/Desktop/CitBeforePlots/8.jpg",width=620,height=480)
jpeg("~/Desktop/CitBeforePlots/8R.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(12,12),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 22B. Road monthly crashes per mile, SID=8, Pella",font.sub=4)
dev.off()

#8 Bypass
y<- (Bypass$CART)[which(Bypass$SID==8)]
sy<- locpoly(x,y,bandwidth=sbdB[8])
#jpeg("~/Desktop/AfterPlots/8.jpg",width=620,height=480)
jpeg("~/Desktop/CitBypassPlots/8B.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(12,12),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 23B. Bypass monthly crashes per mile, SID=8, Pella",font.sub=4)
dev.off()

#8 Sum
y<- (Sum$CART)[which(Sum$SID==8)]
sy<- locpoly(x,y,bandwidth=sbdS[8])
#jpeg("~/Desktop/CitSumPlots/8.jpg",width=620,height=480)
jpeg("~/Desktop/CitSumPlots/8S.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(12,12),c(-1,5))
legend(-1,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 24B. Road + Bypass monthly crashes per mile, SID=8",font.sub=4)
dev.off()

#9 Road
y<- (Road$CART)[which(Road$SID==9)]
sy<- locpoly(x,y,bandwidth=sbdR[9])
#jpeg("~/Desktop/CitBeforePlots/9.jpg",width=620,height=480)
jpeg("~/Desktop/CitBeforePlots/9R.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(48,48),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 25B. Road monthly crashes per mile, SID=9, Oskaloosa",font.sub=4)
dev.off()

#9 Bypass
y<- (Bypass$CART)[which(Bypass$SID==9)]
sy<- locpoly(x,y,bandwidth=sbdB[9])
#jpeg("~/Desktop/AfterPlots/9.jpg",width=620,height=480)
jpeg("~/Desktop/CitBypassPlots/9B.jpg",width = 620,height=480)

```

```

plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(48,48),c(-1,5))
legend(0,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 26B. Bypass monthly crashes per mile, SID=9, Oskaloosa",font.sub=4)
dev.off()

#9 Sum
y<- (Sum$CART)[which(Sum$SID==9)]
sy<- locpoly(x,y,bandwidth=sbdS[9])
#jpeg("~/Desktop/CitSumPlots/9.jpg",width=620,height=480)
jpeg("~/Desktop/CitSumPlots/9S.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(48,48),c(-1,5))
legend(-1,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 27B. Road + Bypass monthly crashes per mile, SID=9",font.sub=4)
dev.off()

#10 Road
y<- (Road$CART)[which(Road$SID==10)]
sy<- locpoly(x,y,bandwidth=sbdR[10])
#jpeg("~/Desktop/CitBeforePlots/10.jpg",width=620,height=480)
jpeg("~/Desktop/CitBeforePlots/10R.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(60,60),c(-1,5))
legend(0,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 28B. Road monthly crashes per mile, SID=10, Swedesburg",font.sub=4)
dev.off()

#10 Bypass
y<- (Bypass$CART)[which(Bypass$SID==10)]
sy<- locpoly(x,y,bandwidth=sbdB[10])
#jpeg("~/Desktop/AfterPlots/10.jpg",width=620,height=480)
jpeg("~/Desktop/CitBypassPlots/10B.jpg",width=620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(60,60),c(-1,5))
legend(0,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 29B. Bypass monthly crashes per mile, SID=10, Swedesburg",font.sub=4)
dev.off()

#10 Sum
y<- (Sum$CART)[which(Sum$SID==10)]
sy<- locpoly(x,y,bandwidth=sbdS[10])
#jpeg("~/Desktop/CitSumPlots/10.jpg",width=620,height=480)
jpeg("~/Desktop/CitSumPlots/10S.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(60,60),c(-1,5))
legend(-1,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 30B. Road + Bypass monthly crashes per mile, SID=10",font.sub=4)
dev.off()

#11 Road
y<- (Road$CART)[which(Road$SID==11)]
sy<- locpoly(x,y,bandwidth=sbdR[11])
#jpeg("~/Desktop/CitBeforePlots/11.jpg",width=620,height=480)
jpeg("~/Desktop/CitBeforePlots/11R.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")

```

```

lines(c(72,72),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 31B. Road monthly crashes per mile, SID=11, New London",font.sub=4)
dev.off()

#11 Bypass
y<- (Bypass$CRT)[which(Bypass$SID==11)]
sy<- locpoly(x,y,bandwidth=sbdB[11])
#jpeg("~/Desktop/AfterPlots/11.jpg",width=620,height=480)
jpeg("~/Desktop/CitBypassPlots/11B.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(72,72),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 32B. Bypass monthly crashes per mile, SID=11, New London",font.sub=4)
dev.off()

#11 Sum
y<- (Sum$CRT)[which(Sum$SID==11)]
sy<- locpoly(x,y,bandwidth=sbdS[11])
#jpeg("~/Desktop/CitSumPlots/11.jpg",width=620,height=480)
jpeg("~/Desktop/CitSumPlots/11S.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(72,72),c(-1,5))
legend(-1,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 33B. Road + Bypass monthly crashes per mile, SID=11",font.sub=4)
dev.off()

#12 Road
y<- (Road$CRT)[which(Road$SID==12)]
sy<- locpoly(x,y,bandwidth=sbdR[12])
#jpeg("~/Desktop/CitBeforePlots/12.jpg",width=620,height=480)
jpeg("~/Desktop/CitBeforePlots/12R.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(84,84),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 34B. Road monthly crashes per mile, SID=12, Blue Grass",font.sub=4)
dev.off()

#12 Bypass
y<- (Bypass$CRT)[which(Bypass$SID==12)]
sy<- locpoly(x,y,bandwidth=sbdB[12])
#jpeg("~/Desktop/AfterPlots/12.jpg",width=620,height=480)
jpeg("~/Desktop/CitBypassPlots/12B.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(84,84),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 35B. Bypass monthly crashes per mile, SID=12, Blue Grass",font.sub=4)
dev.off()

#12 Sum
y<- (Sum$CRT)[which(Sum$SID==12)]
sy<- locpoly(x,y,bandwidth=sbdS[12])
#jpeg("~/Desktop/CitSumPlots/12.jpg",width=620,height=480)
jpeg("~/Desktop/CitSumPlots/12S.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(84,84),c(-1,5))
legend(-1,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 36B. Road + Bypass monthly crashes per mile, SID=12",font.sub=4)

```

```

dev.off()

#13 Road
y<- (Road$CRT)[which(Road$SID==13)]
sy<- locpoly(x,y,bandwidth=sbdR[13])
#jpeg("~/Desktop/CitBeforePlots/13.jpg",width=620,height=480)
jpeg("~/Desktop/CitBeforePlots/13R.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(48,48),c(-1,8))
legend(70,0.75, legend = typ.names, lty =c(3,1) )
title(sub="Figure 37B. Road monthly crashes per mile, SID=13, Marion",font.sub=4)
dev.off()

#13 Bypass
y<- (Bypass$CRT)[which(Bypass$SID==13)]
sy<- locpoly(x,y,bandwidth=sbdB[13])
#jpeg("~/Desktop/AfterPlots/13.jpg",width=620,height=480)
jpeg("~/Desktop/CitBypassPlots/13B.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(48,48),c(-1,8))
legend(195,7, legend = typ.names, lty =c(3,1) )
title(sub="Figure 38B. Bypass monthly crashes per mile, SID=13, Marion",font.sub=4)
dev.off()

#13 Sum
y<- (Sum$CRT)[which(Sum$SID==13)]
sy<- locpoly(x,y,bandwidth=sbdS[13])
#jpeg("~/Desktop/CitSumPlots/13.jpg",width=620,height=480)
jpeg("~/Desktop/CitSumPlots/13S.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(48,48),c(-1,8))
legend(195,1.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 39B. Road + Bypass monthly crashes per mile, SID=13",font.sub=4)
dev.off()

#14 Road
y<- (Road$CRT)[which(Road$SID==14)]
sy<- locpoly(x,y,bandwidth=sbdR[14])
#jpeg("~/Desktop/CitBeforePlots/14.jpg",width=620,height=480)
jpeg("~/Desktop/CitBeforePlots/14R.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(60,60),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 40B. Road monthly crashes per mile, SID=14, Waverly",font.sub=4)
dev.off()

#14 Bypass
y<- (Bypass$CRT)[which(Bypass$SID==14)]
sy<- locpoly(x,y,bandwidth=sbdB[14])
#jpeg("~/Desktop/AfterPlots/14.jpg",width=620,height=480)
jpeg("~/Desktop/CitBypassPlots/14B.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(60,60),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 41B. Bypass monthly crashes per mile, SID=14, Waverly",font.sub=4)
dev.off()

#14 Sum

```

```

y<- (Sum$CRT)[which(Sum$SID==14)]
sy<- locpoly(x,y,bandwidth=sbdS[14])
#jpeg("~/Desktop/CitSumPlots/14.jpg",width=620,height=480)
jpeg("~/Desktop/CitSumPlots/14S.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(60,60),c(-1,5))
legend(-1,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 42B. Road + Bypass monthly crashes per mile, SID=14",font.sub=4)
dev.off()

#15 Road
y<- (Road$CRT)[which(Road$SID==15)]
sy<- locpoly(x,y,bandwidth=sbdR[15])
#jpeg("~/Desktop/CitBeforePlots/15.jpg",width=620,height=480)
jpeg("~/Desktop/CitBeforePlots/15R.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(72,72),c(-1,5))
legend(0,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 43B. Road monthly crashes per mile, SID=15, Charles City",font.sub=4)
dev.off()

#15 Bypass
y<- (Bypass$CRT)[which(Bypass$SID==15)]
sy<- locpoly(x,y,bandwidth=sbdB[15])
#jpeg("~/Desktop/AfterPlots/15.jpg",width=620,height=480)
jpeg("~/Desktop/CitBypassPlots/15B.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(72,72),c(-1,5))
legend(0,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 44B. Bypass monthly crashes per mile, SID=15, Charles City",font.sub=4)
dev.off()

#15 Sum
y<- (Sum$CRT)[which(Sum$SID==15)]
sy<- locpoly(x,y,bandwidth=sbdS[15])
#jpeg("~/Desktop/CitSumPlots/15.jpg",width=620,height=480)
jpeg("~/Desktop/CitSumPlots/15S.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(72,72),c(-1,5))
legend(-1,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 45B. Road + Bypass monthly crashes per mile, SID=15",font.sub=4)
dev.off()

#16 Road
y<- (Road$CRT)[which(Road$SID==16)]
sy<- locpoly(x,y,bandwidth=sbdR[16])
#jpeg("~/Desktop/CitBeforePlots/16.jpg",width=620,height=480)
jpeg("~/Desktop/CitBeforePlots/16R.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(60,60),c(-1,5))
legend(0,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 46B. Road monthly crashes per mile, SID=16, Rudd",font.sub=4)
dev.off()

#16 Bypass
y<- (Bypass$CRT)[which(Bypass$SID==16)]
sy<- locpoly(x,y,bandwidth=sbdB[16])
#jpeg("~/Desktop/AfterPlots/16.jpg",width=620,height=480)

```

```

jpeg("~/Desktop/CitBypassPlots/16B.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(60,60),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 47B. Bypass monthly crashes per mile, SID=16, Rudd",font.sub=4)
dev.off()

```

```

#16 Sum
y<- (Sum$CRT)[which(Sum$SID==16)]
sy<- locpoly(x,y,bandwidth=sbdS[16])
#jpeg("~/Desktop/CitSumPlots/16.jpg",width=620,height=480)
jpeg("~/Desktop/CitSumPlots/16S.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(60,60),c(-1,5))
legend(-1,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 48B. Road + Bypass monthly crashes per mile, SID=16",font.sub=4)
dev.off()

```

```

#17 Road
y<- (Road$CRT)[which(Road$SID==17)]
sy<- locpoly(x,y,bandwidth=sbdR[17])
#jpeg("~/Desktop/CitBeforePlots/17.jpg",width=620,height=480)
jpeg("~/Desktop/CitBeforePlots/17R.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(24,24),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 49B. Road monthly crashes per mile, SID=17, Denver",font.sub=4)
dev.off()

```

```

#17 Bypass
y<- (Bypass$CRT)[which(Bypass$SID==17)]
sy<- locpoly(x,y,bandwidth=sbdB[17])
#jpeg("~/Desktop/AfterPlots/17.jpg",width=620,height=480)
jpeg("~/Desktop/CitBypassPlots/17B.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(24,24),c(-1,5))
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 50B. Bypass monthly crashes per mile, SID=17, Denver",font.sub=4)
dev.off()

```

```

#17 Sum
y<- (Sum$CRT)[which(Sum$SID==17)]
sy<- locpoly(x,y,bandwidth=sbdS[17])
#jpeg("~/Desktop/CitSumPlots/17.jpg",width=620,height=480)
jpeg("~/Desktop/CitSumPlots/17S.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(24,24),c(-1,5))
legend(-1,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 51B. Road + Bypass monthly crashes per mile, SID=17",font.sub=4)
dev.off()

```

```

#18 Road
y<- (Road$CRT)[which(Road$SID==18)]
sy<- locpoly(x,y,bandwidth=sbdR[18])
#jpeg("~/Desktop/CitBeforePlots/18.jpg",width=620,height=480)
jpeg("~/Desktop/CitBeforePlots/18R.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)

```

```

typ.names <- c("raw data", "smoothed data")
lines(c(48,48),c(-1,5))
legend(0,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 52B. Road monthly crashes per mile, SID=18, Marshalltown",font.sub=4)
dev.off()

#18 Bypass
y<- (Bypass$CRT)[which(Bypass$SID==18)]
sy<- locpoly(x,y,bandwidth=sbdB[18])
#jpeg("~/Desktop/AfterPlots/18.jpg",width=620,height=480)
jpeg("~/Desktop/CitBypassPlots/18B.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(48,48),c(-1,5))
legend(0,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 53B. Bypass monthly crashes per mile, SID=18, Marshalltown",font.sub=4)
dev.off()

#18 Sum
y<- (Sum$CRT)[which(Sum$SID==18)]
sy<- locpoly(x,y,bandwidth=sbdS[18])
#jpeg("~/Desktop/CitSumPlots/18.jpg",width=620,height=480)
jpeg("~/Desktop/CitSumPlots/18S.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
lines(c(48,48),c(-1,5))
legend(-1,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 54B. Road + Bypass monthly crashes per mile, SID=18",font.sub=4)
dev.off()

#NON TREATMENT
#19
y<- (Road$CRT)[which(Road$SID==19)]
sy<- locpoly(x,y,bandwidth=sbdR[19])
#jpeg("~/Desktop/CitBeforePlots/19.jpg",width=620,height=480)
jpeg("~/Desktop/CitBeforePlots/19C.jpg",width = 620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
#lines(c(180,180),c(-1,5))
legend(0,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 55B. Control monthly crashes per mile, SID=19, Le Mars",font.sub=4)
dev.off()

#20 Road
y<- (Road$CRT)[which(Road$SID==20)]
sy<- locpoly(x,y,bandwidth=sbdR[20])
#jpeg("~/Desktop/CitBeforePlots/20.jpg",width=620,height=480)
jpeg("~/Desktop/CitBeforePlots/20C.jpg",width=620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
legend(0,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 56B. Control monthly crashes per mile, SID=20, Sheldon",font.sub=4)
dev.off()

#21 Road
y<- (Road$CRT)[which(Road$SID==21)]
sy<- locpoly(x,y,bandwidth=sbdR[21])
#jpeg("~/Desktop/CitBeforePlots/21.jpg",width=620,height=480)
jpeg("~/Desktop/CitBeforePlots/21C.jpg",width=620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
legend(0,5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 57B. Control monthly crashes per mile, SID=21, Ashton",font.sub=4)

```



```

dev.off()

#22 Road
y<- (Road$CRT)[which(Road$SID==22)]
sy<- locpoly(x,y,bandwidth=sbdR[22])
#jpeg("~/Desktop/CitBeforePlots/22.jpg",width=620,height=480)
jpeg("~/Desktop/CitBeforePlots/22C.jpg",width=620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 58B. Control monthly crashes per mile, SID=22, Eddyville",font.sub=4)
dev.off()

#23 Road
y<- (Road$CRT)[which(Road$SID==23)]
sy<- locpoly(x,y,bandwidth=sbdR[23])
#jpeg("~/Desktop/CitBeforePlots/23.jpg",width=620,height=480)
jpeg("~/Desktop/CitBeforePlots/23C.jpg",width=620,height=480)
plot(x,y,type="l",lty=3, xlab="time",ylab="crash rate",ylim=c(-1,5))
lines(sy$x,sy$y)
typ.names <- c("raw data", "smoothed data")
legend(0.5, legend = typ.names, lty =c(3,1) )
title(sub="Figure 59B. Control monthly crashes per mile, SID=23, Hospers",font.sub=4)
dev.off()

```

Road Citizenry and Sum Citizenry Analysis

```

#####READ DATA#####
#mydata<-read.table("C:/Documents and Settings/TEMP.IASTATE.001/Desktop/ANALYSIS/Sum/SumAnalysis.txt",header=T)
mydata<-read.table("~/Desktop/All Done DATA/RoadCit.txt",header=T)
#mydatap1<-read.table("C:/Documents and Settings/TEMP.IASTATE.001/Desktop/WBOUTPUT/SUM/20000-100-5001-6-5000/CODACHAIN1.txt",header=F)
#mydatap2<-read.table("C:/Documents and Settings/TEMP.IASTATE.001/Desktop/WBOUTPUT/SUM/20000-100-5001-6-5000/CODACHAIN2.txt",header=F)
mydatap1<-read.table("~/Desktop/WBOUTPUT_CIT/Road/20000-100-5001-6-5000/CODACHAIN1.txt",header=F)
mydatap2<-read.table("~/Desktop/WBOUTPUT_CIT/RoadAnal/Road/20000-100-5001-6-5000/CODACHAIN2.txt",header=F)
betac2<-betac1<-matrix(0,2500,9)
id2<-id1<-matrix(0,2500,23) #23 sites
#####Skip to **#####

#####READ DATA#####
#mydata<-read.table("C:/Documents and Settings/TEMP.IASTATE.001/Desktop/ANALYSIS/Sum/SumAnalysis.txt",header=T)
mydata<-read.table("~/Desktop/All Done DATA/SumCit.txt",header=T)
#mydatap1<-read.table("C:/Documents and Settings/TEMP.IASTATE.001/Desktop/WBOUTPUT/SUM/20000-100-5001-6-5000/CODACHAIN1.txt",header=F)
#mydatap2<-read.table("C:/Documents and Settings/TEMP.IASTATE.001/Desktop/WBOUTPUT/SUM/20000-100-5001-6-5000/CODACHAIN2.txt",header=F)
mydatap1<-read.table("~/Desktop/WBOUTPUT_CIT/Sum/20000-100-5001-6-5000/CODACHAIN1.txt",header=F)
mydatap2<-read.table("~/Desktop/WBOUTPUT_CIT/SUM/20000-100-5001-6-5000/CODACHAIN2.txt",header=F)
betac2<-betac1<-matrix(0,2500,9)
id2<-id1<-matrix(0,2500,23) #23 sites

##### ** Same code used for Road Citizenry and Sum Citizenry #####
#####CHAIN1#####
for (i in 1:8) {betac1[,i]<-mydatap1[(((i-1)*2500+1):(i*2500)),2]}
for (i in 1:23) {id1[,i]<- mydatap1[(((i-1+8)*2500+1):((i+8)*2500)),2]} #23 sites
taubwc1<-1/(sqrt(mydatap1[(80001:82500),2]))
for (i in 1:2500) {betac1[i,9]<-rnorm(1,0,taubwc1[i])}
#####CHAIN2#####
for (i in 1:8) {betac2[,i]<-mydatap2[(((i-1)*2500+1):(i*2500)),2]}
for (i in 1:23) {id2[,i]<- mydatap2[(((i-1+8)*2500+1):((i+8)*2500)),2]} #23 sites
taubwc2<-1/(sqrt(mydatap2[(80001:82500),2]))
for (i in 1:2500) {betac2[i,9]<-rnorm(1,0,taubwc2[i])}
#####200 ITERATIONS#####
betaci<-matrix(0,200,9)

```

```

id2i<-id1i<-matrix(0,100,23) #23 sites
for (i in 1:100)
{ betaci[i,]<-betac1[(i*23),]
  betaci[(i+100),]<-betac2[(i*23),]
  id1i[i,]<-id1[(i*23),]
  id2i[i,]<-id2[(i*23),]}
#####READ Xi's#####
#####SOME SITES NOT 288 OBS#####
#####THOSE SITES, SOME MU'S NOT USE!#####
trtIND<-volSite<-lengSite<-SSITE<-rep(0,3312) #144*23=3312
COMPTSITE<-c(84,120,36,108,48,60,60,12,48,60,72,84,48,60,72,60,24,48,144,144,144,144) #compl dates
SSITE0<-rep(c(rep(1,2),rep(2,3),rep(3,3),rep(4,3),1),276) #seasons in 12 mos*276=3312
#SSITE[-c(4009:4032,4873:4896,5161:5184)]<-SSITE0
SSITE<-SSITE0
lengSite0<-mydata$LENGTH
#lengSite[-c(4009:4032,4873:4896,5161:5184)]<-lengSite0
lengSite<-lengSite0
volSite0<-mydata$MADT
#volSite[-c(4009:4032,4873:4896,5161:5184)]<-volSite0
volSite<-volSite0
volSite<-volSite/1000
trtIND0<-c(rep(1,2592),rep(0,720)) #trt: 144*18=2592 contr: 144*5=720
#trtIND[-c(4009:4032,4873:4896,5161:5184)]<-trtIND0
trtIND<-trtIND0
#####DRAW NEW MU'S (per MILE)#####
#####TIME PERIOD SAME AS OLD DATA#####
#coef<-matrix(0,200,9)
rmumatrix<-matrix(0,23,(200*144)) #23 sites, 144 mos
for (i in 1:23)
{ betaci[,9]<-c(id1i[,i],id2i[,i])
  CTi<-COMPTSITE[i]
  #LSi<-lengSite[i]
  VSi<-volSite[((i-1)*144+1):(i*144)]
  trtINDi<-trtIND[((i-1)*144+1):(i*144)]
  SSITEi<-SSITE[((i-1)*144+1):(i*144)]
  for (j in 1:144)
  { #VLij<-VSi[j]/LSi[j]
    tpINDi<-((j-CTi)>0)*1
    coef<-matrix(rep(c(1,trtINDi[j],j,trtINDi[j]*j, trtINDi[j]*j*tpINDi, cos(2*pi/4*SSITEi[j]), cos(2*pi/4*2*SSITEi[j]),
    sin(2*pi/4*SSITEi[j]),1),200),200,9,byrow=T)
    rmumatrix[i,(((j-1)*200+1):(j*200))<-VSi[j]*exp(apply((coef*betaci),1,sum))
  }
}
#####For treatment, calculate annual crashes#####
lyr<-rep(12,23) #12 yrs of data, 23 sites
#lyr<-c(rep(24,13),22,rep(24,2),rep(22,2),rep(24,7))
#ysets<-matrix(0,25,(200*24))
y3<-matrix(0,3,12) #12 yrs of data
y2p<-matrix(0,23,(200*2)) #23 total sites
COMPYR<-ceiling((COMPTSITE)/12)
for (i in 1:18) #18 trt sites
{ lyri<-lyr[i]
  rmumatrixi<-matrix(rmumatrix[i,],144,200,byrow=T)
  COMPi<-COMPTSITE[i]
  ym<-c(floor(COMPi/12),(COMPi%%12))
  if (ym[2]!=0)
  { ybeforei<-matrix(0,(ym[1]+1)*12,200)
    yafteri<-matrix(0,(lyri-ym[1])*12,200)
    ybeforei[1:(ym[1]*12),]<-rmumatrixi[1:(ym[1]*12),] #Other than CompYr
    yafteri[-1:12,]<-rmumatrixi[ ((ym[1]+1)*12+1):(lyri*12),] #Other than CompYr
    ybeforei[((ym[1]*12+1):(ym[1]+1)*12),]<-
    matrix(rep((apply(rmumatrixi[((ym[1]*12+1):(COMPi)),2,sum)/ym[2]),12),12,200,byrow=T)
  }
  #CompYr
  yafteri[1:12,]<-matrix(rep((apply(rmumatrixi[((COMPi+1):(ym[1]+1)*12),2,sum))/(12-ym[2]),12),12,200,byrow=T)
  #CompYr
  y2p[i,(1:200)]<-apply(ybeforei,2,sum)/(ym[1]+1)
  y2p[i,(201:400)]<-apply(yafteri,2,sum)/(lyri-ym[1])
} else { #COMPLETE AT THE END OF A YEAR?

```

```

ybeforei<-matrix(0,(ym[1])*12,200)
yafteri<-matrix(0,(lyri-ym[1])*12,200)
ybeforei[,]<-rmumatrixi[(1:(ym[1]*12)),]
yafteri[,]<-rmumatrixi[(((ym[1])*12+1):(lyri*12)),]
y2p[i,(1:200)]<-apply(ybeforei,2,sum)/(ym[1])
y2p[i,(201:400)]<-apply(yafteri,2,sum)/(lyri-ym[1])
} }
#####For control, calculate annual crashes#####
for (i in 19:23) # 5 ctrl sites
{ COMPI<-COMPTSITE[i]
  ym<-c(floor(COMPI/12),(COMPI%%12))
  rmumatrixi<-matrix(rmumatrix[i,],144,200,byrow=T)
  ybeforei<-rmumatrixi[(1:(ym[1]*12)),]
  y2p[i,(1:200)]<-apply(ybeforei,2,sum)/(ym[1])
  y2p[i,(201:400)]<-0
}
#####Table 9 a: means and quintiles for treatment and control#####
mean18<-matrix(0,18,6)
for (i in 1:18)
{ mean18[i,(1:3)]<-c(mean(y2p[i,(1:200)]),quantile(y2p[i,(1:200)],c(0.025,0.975)))
  mean18[i,(4:6)]<-c(mean(y2p[i,(201:400)]),quantile(y2p[i,(201:400)],c(0.025,0.975)))}
mean5<-matrix(0,5,6)
for (i in 1:5)
{ mean5[i,(1:3)]<-c(mean(y2p[(18+i),(1:200)]),quantile(y2p[(18+i),(1:200)],c(0.025,0.975)))
  mean5[i,(4:6)]<-c(mean(y2p[(18+i),(201:400)]),quantile(y2p[(18+i),(201:400)],c(0.025,0.975)))}

#write.table(mean18, file = "~/Desktop/Result Tables/Citizenry/Road/table9aTMT.csv", append = FALSE, sep = ",", col.names = TRUE)
#write.table(mean5, file = "~/Desktop/Result Tables/Citizenry/Road/table9aControl.csv", append = FALSE, sep = ",", col.names = TRUE)

#####Table 9 b: diff and reduction for trt. before vs. trt. #####
z18<-d18<-matrix(0,18,3) # 18 trt sites
dy18<-y2p[(1:18),(201:400)]-y2p[(1:18),(1:200)] # Annal Difference: After-Before
zy18<-100*(1-(y2p[(1:18),(201:400)]/y2p[(1:18),(1:200)])) # Annal Reduction 100*(1-After/Before)
for (i in 1:18)
{ d18[i,(1:3)]<- c(mean(dy18[i,]),quantile(dy18[i,],c(0.025,0.975)))
  z18[i,(1:3)]<- c(mean(zy18[i,]),quantile(zy18[i,],c(0.025,0.975)))}

#write.table(d18, file = "~/Desktop/Result Tables/Citizenry/Road/table9bDifference.csv", append = FALSE, sep = ",", col.names = TRUE)
#write.table(z18, file = "~/Desktop/Result Tables/Citizenry/Road/table9bReduction.csv", append = FALSE, sep = ",", col.names = TRUE)

#####Table 9 c: diff and reduction for trt. before vs. avg. ctrl. #####
avctrlm<-matrix(rep(apply(y2p[19:23,1:200],2,sum)/5,18) #19:23 ctrls
,18,200,byrow=T)
zb18<-db18<-matrix(0,18,3)
dby18<-y2p[(1:18),(1:200)]-avctrlm[(1:18),(1:200)] # Annal Difference: Before-Ctrl
zby18<-100*(1-(y2p[(1:18),(1:200)]/avctrlm[(1:18),(1:200)])) # Annal Reduction 100*(1-(Bef/Ctrl))
for (i in 1:18)
{ db18[i,(1:3)]<- c(mean(dby18[i,]),quantile(dby18[i,],c(0.025,0.975)))
  zb18[i,(1:3)]<- c(mean(zby18[i,]),quantile(zby18[i,],c(0.025,0.975)))}

#write.table(db18, file = "~/Desktop/Result Tables/Citizenry/Road/table9cDifference.csv", append = FALSE, sep = ",", col.names = TRUE)
#write.table(zb18, file = "~/Desktop/Result Tables/Citizenry/Road/table9cReduction.csv", append = FALSE, sep = ",", col.names = TRUE)

#####Table 9 d: diff and reduction for trt. after vs. avg. ctrl. #####
avctrlm<-matrix(rep(apply(y2p[19:23,1:200],2,sum)/5,18) # 19:23 ctrls
,18,200,byrow=T)
za18<-da18<-matrix(0,18,3)
day18<-y2p[(1:18),(201:400)]-avctrlm[(1:18),(1:200)] # Annal Difference After-Ctrl
zay18<-100*(1-(y2p[(1:18),(201:400)]/avctrlm[(1:18),(1:200)])) # Annal Reduction: 100*(1-After/Ctrl)
for (i in 1:18)
{ da18[i,(1:3)]<- c(mean(day18[i,]),quantile(day18[i,],c(0.025,0.975)))
  za18[i,(1:3)]<- c(mean(zay18[i,]),quantile(zay18[i,],c(0.025,0.975)))}

#write.table(da18, file = "~/Desktop/Result Tables/Citizenry/Road/table9dDifference.csv", append = FALSE, sep = ",", col.names = TRUE)
#write.table(za18, file = "~/Desktop/Result Tables/Citizenry/Road/table9dReduction.csv", append = FALSE, sep = ",", col.names = TRUE)

#####Table 10#####
avybeforec<- avybeforet<-avyaftert<-rep(0,200)

```

```

avybeforec<-apply(y2p[(1:18),(1:200)],2,sum)/18          # 18 Before, Treatment
avybeforec<-apply(y2p[(19:23),(1:200)],2,sum)/5         # 5 Before, Control
avyafterc<-apply(y2p[(1:18),(201:400)],2,sum)/18        # 18 After, Treatment
Controls<-c(mean(avybeforec),quantile(avybeforec,c(0.025,0.975)))
TrtBefore<-c(mean(avybeforet),quantile(avybeforet,c(0.025,0.975)))
TrtAfter<-c(mean(avyafterc),quantile(avyafterc,c(0.025,0.975)))
Table10<-rbind(Controls,TrtBefore,TrtAfter)

#write.table(Table10, file = "~/Desktop/Result Tables/Citizenry/Road/table10.csv", append = FALSE, sep = ",", col.names = TRUE)

#####Figure 5a#####
#jpeg("~/Desktop/Result Tables/Citizenry/Road/Figure5a.jpg",width=640,height=640)
par(mfrow=c(2,1))
plot(density(avybeforec)$x,density(avybeforec)$y,xlim=c(0,8),ylim=c(0,6),type='l',xlab='average of expected number of crashes per mile',ylab='density')
lines(density(avybeforet)$x,density(avybeforet)$y,lty=3)
title('post. dsn. of ave. diff. btw. ave. contr. & trt. before')
typ.names <- c("ave. contr", "trt. before")
legend(6.2,6, legend = typ.names, lty =c(1,3) )
plot(density(avybeforec)$x,density(avybeforec)$y,xlim=c(0,8),ylim=c(0,6),type='l',xlab='average of expected number of crashes per mile',ylab='density')
lines(density(avyafterc)$x,density(avyafterc)$y,lty=3)
title('post. dsn. of ave. diff. btw. ave. contr & for trt. after')
typ.names <- c("ave. contr", "trt. after")
legend(6.2,6, legend = typ.names, lty =c(1,3) )
dev.off()

#####Figure 5b#####
#jpeg("~/Desktop/Result Tables/Citizenry/Road/Figure5b.jpg",width=640,height=640)
par(mfrow=c(1,1))
plot(density(avybeforec)$x,density(avybeforec)$y,xlim=c(0,8),ylim=c(0,6),type='l',xlab='average of expected number of crashes per mile',ylab='density')
lines(density(avybeforet)$x,density(avybeforet)$y,lty=3)
lines(density(avyafterc)$x,density(avyafterc)$y,lty=6)
title('post. dsn. of ave. contr., trt. before and trt. after')
typ.names <- c("ave. contr", "trt. before", "trt. after" )
legend(5.5,6, legend = typ.names, lty =c(1,3,6) )
dev.off()

#####FOR SAME AADT#####
ADT1<-rep(0,3312)
ADT0<-rep(apply(matrix(mydata$MADT,276,12,byrow=T),1,sum),each=12)/1000000
ADT1<-ADT0 #ADT1[-c(4009:4032,4873:4896,5161:5184)]<-ADT0
ADT2<-matrix(rep(ADT1,each=200),23,(200*144),byrow=T)
y2pav<-matrix(0,23,(200*2))
#lyr<-c(rep(24,13),22,rep(24,2),rep(22,2),rep(24,7))
#ysets<-matrix(0,25,(200*24))
#y3<-matrix(0,3,24)
#COMPTPYR<-ceiling((COMPTSITE)/12)
for (i in 1:18)
{ lyri<-lyr[i]
  rmumatrixi<-matrix(rmumatrix[i,],144,200,byrow=T)
  COMPi<-COMPTSITE[i]
  ym<-c(floor(COMPi/12),(COMPi%%12))
  if (ym[2]!=0)
  { ADTbei<-matrix(ADT2[i,(1:(ym[1]+1)*12*200)],(ym[1]+1)*12,200,byrow=T)
    ADTafi<-matrix(ADT2[i,((ym[1]*12*200+1):(lyri*12*200))],(lyri-ym[1])*12,200,byrow=T)
    ybeforei<-matrix(0,(ym[1]+1)*12,200)
    yafteri<-matrix(0,(lyri-ym[1])*12,200)
    ybeforei[(1:(ym[1]*12)),]<-rmumatrixi[(1:(ym[1]*12)),] #Other than CompYr
    yafteri[-(1:12),]<-rmumatrixi[ ((ym[1]+1)*12+1):(lyri*12),] #Other than CompYr
    ybeforei[((ym[1]*12+1):(ym[1]+1)*12),]<-
    matrix(rep((apply(rmumatrixi[((ym[1]*12+1):(COMPi)],2,sum)/ym[2]),12),12,200,byrow=T)
    #CompYr
    yafteri[1:12,]<-matrix(rep((apply(rmumatrixi[((COMPi+1):(ym[1]+1)*12),],2,sum))/(12-ym[2]),12),12,200,byrow=T)
    #CompYr
    ybeforeiav<-ybeforei/ADTbei
    yafteriav<-yafteri/ADTafi
  }
}

```

```

y2pav[i,(1:200)]<-apply(ybeforeiav,2,sum)/(ym[1]+1)
y2pav[i,(201:400)]<-apply(yafteriaav,2,sum)/(lyri-ym[1])
} else { #COMPLETE AT THE END OF A YEAR?
ybeforei<-matrix(0,(ym[1])*12,200)
yafteri<-matrix(0,(lyri-ym[1])*12,200)
ybeforei[,]<-rmumatrixi[(1:(ym[1]*12)),]
yafteri[,]<-rmumatrixi[(((ym[1])*12+1):(lyri*12)),]
ADTbei<-matrix(ADT2[i,(1:(ym[1])*12*200)],(ym[1])*12,200,byrow=T)
ADTafi<-matrix(ADT2[i,((ym[1]*12*200+1):(lyri*12*200))],(lyri-ym[1])*12,200,byrow=T)
ybeforeiav<-ybeforei/ADTbei
yafteriav<-yafteri/ADTafi
y2pav[i,(1:200)]<-apply(ybeforeiav,2,sum)/(ym[1]+1)
y2pav[i,(201:400)]<-apply(yafteriaav,2,sum)/(lyri-ym[1])
} }
#####For control, calculate annual crashes#####
for (i in 19:23)
{ COMPi<-COMPSITE[i]
ym<-c(floor(COMP/12),(COMP%%12))
rmumatrixi<-matrix(rmumatrix[i,],144,200,byrow=T)
ybeforei<-rmumatrixi[(1:(ym[1]*12)),]
ADTbei<-matrix(ADT2[i,(1:(ym[1])*12*200)],(ym[1])*12,200,byrow=T)
ybeforeiav<-ybeforei/ADTbei
yafteriav<-yafteri/ADTafi
y2pav[i,(1:200)]<-apply(ybeforeiav,2,sum)/(ym[1])
y2pav[i,(201:400)]<-0
}
#####Table 9 a: means and quintiles for treatment and control#####
mean18av<-matrix(0,18,6)
for (i in 1:18)
{ mean18av[i,(1:3)]<-c(mean(y2pav[i,(1:200)]),quantile(y2pav[i,(1:200)],c(0.025,0.975)))
mean18av[i,(4:6)]<-c(mean(y2pav[i,(201:400)]),quantile(y2pav[i,(201:400)],c(0.025,0.975)))
mean5av<-matrix(0,6,6)
for (i in 1:5)
{ mean5av[i,(1:3)]<-c(mean(y2pav[(18+i),(1:200)]),quantile(y2pav[(18+i),(1:200)],c(0.025,0.975)))
mean5av[i,(4:6)]<-c(mean(y2pav[(18+i),(201:400)]),quantile(y2pav[(18+i),(201:400)],c(0.025,0.975)))
}
write.table(mean18av, file = "~/Desktop/Result Tables/Citizenry/Road/SAME AADT/table9aTMT.csv", append = FALSE, sep = ",",
col.names = TRUE)
write.table(mean5av, file = "~/Desktop/Result Tables/Citizenry/Road/SAME AADT/table9aControl.csv", append = FALSE, sep = ",",
col.names = TRUE)

#####Table 9 b: diff and reduction for trt. before vs. trt. #####
z18av<-d18av<-matrix(0,18,3)
dy18av<-y2pav[(1:18),(201:400)]-y2pav[(1:18),(1:200)] # Annal Diff: After-Before
zy18av<-100-100*(y2pav[(1:18),(201:400)]/y2pav[(1:18),(1:200)]) # Annal Reduc 100*(1-Aft/Bef)
for (i in 1:18)
{ d18av[i,(1:3)]<- c(mean(dy18av[i,]),quantile(dy18av[i,],c(0.025,0.975)))
z18av[i,(1:3)]<- c(mean(zy18av[i,]),quantile(zy18av[i,],c(0.025,0.975)))
}
write.table(d18av, file = "~/Desktop/Result Tables/Citizenry/Road/SAME AADT/table9bDifference.csv", append = FALSE, sep = ",",
col.names = TRUE)
write.table(z18av, file = "~/Desktop/Result Tables/Citizenry/Road/SAME AADT/table9bReduction.csv", append = FALSE, sep = ",",
col.names = TRUE)

#####Table 9 c: diff and reduction for trt. before vs. avg. ctrl. #####
avctrlmav<-matrix(rep(apply(y2pav[19:23,1:200],2,sum)/5,18)
,18,200,byrow=T)
zb18av<-db18av<-matrix(0,18,3)
dby18av<-y2pav[(1:18),(1:200)]-avctrlmav[(1:18),(1:200)] # Annal Diff: Before-Ctrl
zby18av<-100-100*(y2pav[(1:18),(1:200)]/avctrlmav[(1:18),(1:200)]) # Annal Reduc 100*(1-Before/Ctrl)
for (i in 1:18)
{ db18av[i,(1:3)]<- c(mean(dby18av[i,]),quantile(dby18av[i,],c(0.025,0.975)))
zb18av[i,(1:3)]<- c(mean(zby18av[i,]),quantile(zby18av[i,],c(0.025,0.975)))
}
write.table(db18av, file = "~/Desktop/Result Tables/Citizenry/Road/SAME AADT/table9cDifference.csv", append = FALSE, sep = ",",
col.names = TRUE)
write.table(zb18av, file = "~/Desktop/Result Tables/Citizenry/Road/SAME AADT/table9cReduction.csv", append = FALSE, sep = ",",
col.names = TRUE)

```

```
#####Table 9 d: diff and reduction for trt. after vs. avg. ctrl. #####
avctrlmav<-matrix(rep(apply(y2p[19:23,1:200],2,sum)/5,18)
,18,200,byrow=T)
za18av<-da18av<-matrix(0,18,3)
day18av<-y2pav[(1:18),(201:400)]-avctrlmav[(1:18),(1:200)] # Annal Diff: After-Ctrl
zay18av<-100-100*(y2pav[(1:18),(201:400)]/avctrlmav[(1:18),(1:200)]) # Ann. Redu 100*(1-After/Ctrl)
for (i in 1:18)
{da18av[i,(1:3)]<- c(mean(day18av[i,]),quantile(day18av[i,],c(0.025,0.975)))
za18av[i,(1:3)]<- c(mean(zay18av[i,]),quantile(zay18av[i,],c(0.025,0.975)))}

write.table(da18av, file = "~/Desktop/Result Tables/Citizenry/Road/SAME AADT/table9dDifference.csv", append = FALSE, sep = ",",
col.names = TRUE)
write.table(za18av, file = "~/Desktop/Result Tables/Citizenry/Road/SAME AADT/table9dReduction.csv", append = FALSE, sep = ",",
col.names = TRUE)

#####Table 10#####
avybeforecav<- avybeforetav<-avyaftertav<-rep(0,200)
avybeforetav<-apply(y2pav[(1:18),(1:200)],2,sum)/18 #Before, Treatment
avybeforecav<-apply(y2pav[(19:23),(1:200)],2,sum)/5 #Before, Control
avyaftertav<-apply(y2pav[(1:18),(201:400)],2,sum)/18 #After, Treatment
controls<-c(mean(avybeforecav),quantile(avybeforecav,c(0.025,0.975)))
tmtbefore<-c(mean(avybeforetav),quantile(avybeforetav,c(0.025,0.975)))
tmtafter<-c(mean(avyaftertav),quantile(avyaftertav,c(0.025,0.975)))

table10<-rbind(controls,tmtbefore,tmtafter)
write.table(table10, file = "~/Desktop/Result Tables/Citizenry/Road/SAME AADT/table10.csv", append = FALSE, sep = ",", col.names =
TRUE)

#####Figure 5a#####
jpeg("~/Desktop/Result Tables/Citizenry/Road/SAME AADT/Figure5a.jpg",width=640,height=640)
par(mfrow=c(2,1))
plot(density(avybeforecav)$x,density(avybeforecav)$y,xlim=c(0,3),ylim=c(0,12),type='l',xlab='average of expected number of crashes per
mile',ylab='density')
lines(density(avybeforetav)$x,density(avybeforetav)$y,lty=3)
title('post. dsn. of ave. diff. btw. ave. contr. & trt. before')
typ.names <- c("ave. contr", "trt. before")
legend(2,10, legend = typ.names, lty =c(1,3) )
plot(density(avybeforecav)$x,density(avybeforecav)$y,xlim=c(0,3),ylim=c(0,12),type='l',xlab='average of expected number of crashes per
mile',ylab='density')
lines(density(avyaftertav)$x,density(avyaftertav)$y,lty=3)
title('post. dsn. of ave. diff. btw. ave. contr & for trt. after')
typ.names <- c("ave. contr", "trt. after")
legend(2,10, legend = typ.names, lty =c(1,3) )
dev.off()

#####Figure 5b#####
jpeg("~/Desktop/Result Tables/Citizenry/Road/SAME AADT/Figure5b.jpg",width=640,height=640)
par(mfrow=c(1,1))
plot(density(avybeforecav)$x,density(avybeforecav)$y,xlim=c(0,3),ylim=c(0,12),type='l',xlab='average of expected number of crashes per
mile',ylab='density')
lines(density(avybeforetav)$x,density(avybeforetav)$y,lty=3)
lines(density(avyaftertav)$x,density(avyaftertav)$y,lty=6)
title('post. dsn. of ave. contr., trt. before and trt. after')
typ.names <- c("ave. contr", "trt. before", "trt. after" )
legend(2,10, legend = typ.names, lty =c(1,3,6) )
dev.off()
```


APPENDIX E. ROAD DATA

SID	LENGTH	YEAR	CRASH_SITE	MADT	MONTH	PERIOD	CONTROL	SEASON	CRT	COMPLETE
1	10.9	1982	20	258552.56	1	BEFORE	N	1	1.834862385	228
1	10.9	1982	14	241380.36	2	BEFORE	N	1	1.284403670	228
1	10.9	1982	15	283523.48	3	BEFORE	N	2	1.376146789	228
1	10.9	1982	23	295327.51	4	BEFORE	N	2	2.110091743	228
1	10.9	1982	14	306500.82	5	BEFORE	N	2	1.284403670	228
1	10.9	1982	8	301362.68	6	BEFORE	N	3	0.733944954	228
1	10.9	1982	7	306015.2	7	BEFORE	N	3	0.642201835	228
1	10.9	1982	14	303229.3	8	BEFORE	N	3	1.284403670	228
1	10.9	1982	12	292656.21	9	BEFORE	N	4	1.100917431	228
1	10.9	1982	7	296149.52	10	BEFORE	N	4	0.642201835	228
1	10.9	1982	12	278087.71	11	BEFORE	N	4	1.100917431	228
1	10.9	1982	24	288047.39	12	BEFORE	N	1	2.201834862	228
1	10.9	1983	14	262834.37	1	BEFORE	N	1	1.284403670	228
1	10.9	1983	15	245377.79	2	BEFORE	N	1	1.376146789	228
1	10.9	1983	16	288218.83	3	BEFORE	N	2	1.467889908	228
1	10.9	1983	14	300218.35	4	BEFORE	N	2	1.284403670	228
1	10.9	1983	20	311576.69	5	BEFORE	N	2	1.834862385	228
1	10.9	1983	13	306353.46	6	BEFORE	N	3	1.192660550	228
1	10.9	1983	7	311083.03	7	BEFORE	N	3	0.642201835	228
1	10.9	1983	23	308250.99	8	BEFORE	N	3	2.110091743	228
1	10.9	1983	11	297502.8	9	BEFORE	N	4	1.009174312	228
1	10.9	1983	21	301053.96	10	BEFORE	N	4	1.926605505	228
1	10.9	1983	30	282693.04	11	BEFORE	N	4	2.752293578	228
1	10.9	1983	45	292817.66	12	BEFORE	N	1	4.128440367	228
1	10.9	1984	27	273089.19	1	BEFORE	N	1	2.477064220	228
1	10.9	1984	12	264056.93	2	BEFORE	N	1	1.100917431	228
1	10.9	1984	13	299464.06	3	BEFORE	N	2	1.192660550	228
1	10.9	1984	17	311931.75	4	BEFORE	N	2	1.559633028	228
1	10.9	1984	17	323733.26	5	BEFORE	N	2	1.559633028	228
1	10.9	1984	14	318306.23	6	BEFORE	N	3	1.284403670	228
1	10.9	1984	21	323220.34	7	BEFORE	N	3	1.926605505	228
1	10.9	1984	12	320277.8	8	BEFORE	N	3	1.100917431	228
1	10.9	1984	5	309110.26	9	BEFORE	N	4	0.458715596	228
1	10.9	1984	20	312799.97	10	BEFORE	N	4	1.834862385	228
1	10.9	1984	11	293722.67	11	BEFORE	N	4	1.009174312	228
1	10.9	1984	17	304242.31	12	BEFORE	N	1	1.559633028	228
1	10.9	1985	14	268059.96	1	BEFORE	N	1	1.284403670	228
1	10.9	1985	11	250256.31	2	BEFORE	N	1	1.009174312	228
1	10.9	1985	7	293949.11	3	BEFORE	N	2	0.642201835	228
1	10.9	1985	4	306187.19	4	BEFORE	N	2	0.366972477	228
1	10.9	1985	19	317771.36	5	BEFORE	N	2	1.743119266	228
1	10.9	1985	10	312444.28	6	BEFORE	N	3	0.917431193	228
1	10.9	1985	1	317267.88	7	BEFORE	N	3	0.091743119	228
1	10.9	1985	0	314379.54	8	BEFORE	N	3	0.000000000	228
1	10.9	1985	0	303417.66	9	BEFORE	N	4	0.000000000	228
1	10.9	1985	0	307039.42	10	BEFORE	N	4	0.000000000	228
1	10.9	1985	0	288313.45	11	BEFORE	N	4	0.000000000	228
1	10.9	1985	0	298639.36	12	BEFORE	N	1	0.000000000	228
1	10.9	1986	12	273089.19	1	BEFORE	N	1	1.100917431	228
1	10.9	1986	7	254951.52	2	BEFORE	N	1	0.642201835	228
1	10.9	1986	11	299464.06	3	BEFORE	N	2	1.009174312	228
1	10.9	1986	8	311931.75	4	BEFORE	N	2	0.733944954	228
1	10.9	1986	10	323733.26	5	BEFORE	N	2	0.917431193	228
1	10.9	1986	13	318306.23	6	BEFORE	N	3	1.192660550	228
1	10.9	1986	11	323220.34	7	BEFORE	N	3	1.009174312	228
1	10.9	1986	7	320277.8	8	BEFORE	N	3	0.642201835	228
1	10.9	1986	14	309110.26	9	BEFORE	N	4	1.284403670	228
1	10.9	1986	19	312799.97	10	BEFORE	N	4	1.743119266	228
1	10.9	1986	18	293722.67	11	BEFORE	N	4	1.651376147	228
1	10.9	1986	10	304242.31	12	BEFORE	N	1	0.917431193	228
1	10.9	1987	13	277662.37	1	BEFORE	N	1	1.192660550	228
1	10.9	1987	13	259220.97	2	BEFORE	N	1	1.192660550	228
1	10.9	1987	12	304478.92	3	BEFORE	N	2	1.100917431	228
1	10.9	1987	9	317155.39	4	BEFORE	N	2	0.825688073	228

1	10.9	1987	15	329154.53 5	BEFORE N	2	1.376146789	228
1	10.9	1987	20	323636.62 6	BEFORE N	3	1.834862385	228
1	10.9	1987	12	328633.02 7	BEFORE N	3	1.100917431	228
1	10.9	1987	16	325641.2 8	BEFORE N	3	1.467889908	228
1	10.9	1987	14	314286.65 9	BEFORE N	4	1.284403670	228
1	10.9	1987	13	318038.15 10	BEFORE N	4	1.192660550	228
1	10.9	1987	11	298641.38 11	BEFORE N	4	1.009174312	228
1	10.9	1987	13	309337.18 12	BEFORE N	1	1.192660550	228
1	10.9	1988	11	291128.55 1	BEFORE N	1	1.009174312	228
1	10.9	1988	14	281499.65 2	BEFORE N	1	1.284403670	228
1	10.9	1988	10	319245.66 3	BEFORE N	2	0.917431193	228
1	10.9	1988	10	332536.92 4	BEFORE N	2	0.917431193	228
1	10.9	1988	13	345117.99 5	BEFORE N	2	1.192660550	228
1	10.9	1988	14	339332.48 6	BEFORE N	3	1.284403670	228
1	10.9	1988	13	344571.19 7	BEFORE N	3	1.192660550	228
1	10.9	1988	11	341434.28 8	BEFORE N	3	1.009174312	228
1	10.9	1988	9	329529.05 9	BEFORE N	4	0.825688073	228
1	10.9	1988	16	333462.49 10	BEFORE N	4	1.467889908	228
1	10.9	1988	16	313125.01 11	BEFORE N	4	1.467889908	228
1	10.9	1988	5	324339.54 12	BEFORE N	1	0.458715596	228
1	10.9	1989	13	300129.23 1	BEFORE N	1	1.192660550	228
1	10.9	1989	8	280195.65 2	BEFORE N	1	0.733944954	228
1	10.9	1989	15	329115.62 3	BEFORE N	2	1.376146789	228
1	10.9	1989	7	342817.8 4	BEFORE N	2	0.642201835	228
1	10.9	1989	9	355787.84 5	BEFORE N	2	0.825688073	228
1	10.9	1989	8	349823.46 6	BEFORE N	3	0.733944954	228
1	10.9	1989	10	355224.13 7	BEFORE N	3	0.917431193	228
1	10.9	1989	19	351990.23 8	BEFORE N	3	1.743119266	228
1	10.9	1989	12	339716.94 9	BEFORE N	4	1.100917431	228
1	10.9	1989	14	343771.99 10	BEFORE N	4	1.284403670	228
1	10.9	1989	15	322805.74 11	BEFORE N	4	1.376146789	228
1	10.9	1989	26	334366.99 12	BEFORE N	1	2.385321101	228
1	10.9	1990	9	308876.55 1	BEFORE N	1	0.825688073	228
1	10.9	1990	7	288362 2	BEFORE N	1	0.642201835	228
1	10.9	1990	5	338707.75 3	BEFORE N	2	0.458715596	228
1	10.9	1990	8	352809.28 4	BEFORE N	2	0.733944954	228
1	10.9	1990	11	366157.33 5	BEFORE N	2	1.009174312	228
1	10.9	1990	13	360019.12 6	BEFORE N	3	1.192660550	228
1	10.9	1990	12	365577.2 7	BEFORE N	3	1.100917431	228
1	10.9	1990	9	362249.05 8	BEFORE N	3	0.825688073	228
1	10.9	1990	6	349618.04 9	BEFORE N	4	0.550458716	228
1	10.9	1990	17	353791.28 10	BEFORE N	4	1.559633028	228
1	10.9	1990	17	332213.97 11	BEFORE N	4	1.559633028	228
1	10.9	1990	22	344112.17 12	BEFORE N	1	2.018348624	228
1	10.9	1991	11	316702.26 1	BEFORE N	1	1.009174312	228
1	10.9	1991	10	295667.95 2	BEFORE N	1	0.917431193	228
1	10.9	1991	10	347289.26 3	BEFORE N	2	0.917431193	228
1	10.9	1991	5	361748.08 4	BEFORE N	2	0.458715596	228
1	10.9	1991	8	375434.31 5	BEFORE N	2	0.733944954	228
1	10.9	1991	7	369140.58 6	BEFORE N	3	0.642201835	228
1	10.9	1991	5	374839.48 7	BEFORE N	3	0.458715596	228
1	10.9	1991	9	371427.01 8	BEFORE N	3	0.825688073	228
1	10.9	1991	14	358475.98 9	BEFORE N	4	1.284403670	228
1	10.9	1991	7	362754.95 10	BEFORE N	4	0.642201835	228
1	10.9	1991	14	340630.96 11	BEFORE N	4	1.284403670	228
1	10.9	1991	13	352830.61 12	BEFORE N	1	1.192660550	228
1	10.9	1992	7	325490.75 1	BEFORE N	1	0.642201835	228
1	10.9	1992	3	314725.34 2	BEFORE N	1	0.275229358	228
1	10.9	1992	7	356926.54 3	BEFORE N	2	0.642201835	228
1	10.9	1992	8	371786.59 4	BEFORE N	2	0.733944954	228
1	10.9	1992	7	385852.62 5	BEFORE N	2	0.642201835	228
1	10.9	1992	9	379384.24 6	BEFORE N	3	0.825688073	228
1	10.9	1992	13	385241.28 7	BEFORE N	3	1.192660550	228
1	10.9	1992	10	381734.11 8	BEFORE N	3	0.917431193	228
1	10.9	1992	7	368423.69 9	BEFORE N	4	0.642201835	228
1	10.9	1992	10	372821.4 10	BEFORE N	4	0.917431193	228
1	10.9	1992	10	350083.47 11	BEFORE N	4	0.917431193	228
1	10.9	1992	24	362621.66 12	BEFORE N	1	2.201834862	228

1	10.9	1993	10	338624.39 1	BEFORE N	1	0.917431193	228
1	10.9	1993	13	316134.09 2	BEFORE N	1	1.192660550	228
1	10.9	1993	12	371328.63 3	BEFORE N	2	1.100917431	228
1	10.9	1993	13	386788.28 4	BEFORE N	2	1.192660550	228
1	10.9	1993	12	401421.88 5	BEFORE N	2	1.100917431	228
1	10.9	1993	13	394692.5 6	BEFORE N	3	1.192660550	228
1	10.9	1993	10	400785.87 7	BEFORE N	3	0.917431193	228
1	10.9	1993	13	397137.19 8	BEFORE N	3	1.192660550	228
1	10.9	1993	12	383289.69 9	BEFORE N	4	1.100917431	228
1	10.9	1993	11	387864.85 10	BEFORE N	4	1.009174312	228
1	10.9	1993	16	364209.43 11	BEFORE N	4	1.467889908	228
1	10.9	1993	16	377253.55 12	BEFORE N	1	1.467889908	228
1	10.9	1994	20	347197.52 1	BEFORE N	1	1.834862385	228
1	10.9	1994	21	324137.82 2	BEFORE N	1	1.926605505	228
1	10.9	1994	12	380729.75 3	BEFORE N	2	1.100917431	228
1	10.9	1994	12	396580.8 4	BEFORE N	2	1.100917431	228
1	10.9	1994	9	411584.88 5	BEFORE N	2	0.825688073	228
1	10.9	1994	18	404685.13 6	BEFORE N	3	1.651376147	228
1	10.9	1994	10	410932.77 7	BEFORE N	3	0.917431193	228
1	10.9	1994	12	407191.72 8	BEFORE N	3	1.100917431	228
1	10.9	1994	12	392993.64 9	BEFORE N	4	1.100917431	228
1	10.9	1994	15	397684.63 10	BEFORE N	4	1.376146789	228
1	10.9	1994	10	373430.31 11	BEFORE N	4	0.917431193	228
1	10.9	1994	17	386804.67 12	BEFORE N	1	1.559633028	228
1	10.9	1995	6	355463.45 1	BEFORE N	1	0.550458716	228
1	10.9	1995	4	331854.76 2	BEFORE N	1	0.366972477	228
1	10.9	1995	8	389794 3	BEFORE N	2	0.733944954	228
1	10.9	1995	5	406022.43 4	BEFORE N	2	0.458715596	228
1	10.9	1995	13	421383.72 5	BEFORE N	2	1.192660550	228
1	10.9	1995	4	414319.7 6	BEFORE N	3	0.366972477	228
1	10.9	1995	10	420716.08 7	BEFORE N	3	0.917431193	228
1	10.9	1995	5	416885.96 8	BEFORE N	3	0.458715596	228
1	10.9	1995	8	402349.86 9	BEFORE N	4	0.733944954	228
1	10.9	1995	19	407152.53 10	BEFORE N	4	1.743119266	228
1	10.9	1995	12	382320.78 11	BEFORE N	4	1.100917431	228
1	10.9	1995	13	396013.55 12	BEFORE N	1	1.192660550	228
1	10.9	1996	14	367837.01 1	BEFORE N	1	1.284403670	228
1	10.9	1996	15	355671.02 2	BEFORE N	1	1.376146789	228
1	10.9	1996	14	403362.59 3	BEFORE N	2	1.284403670	228
1	10.9	1996	10	420155.92 4	BEFORE N	2	0.917431193	228
1	10.9	1996	11	436051.94 5	BEFORE N	2	1.009174312	228
1	10.9	1996	13	428742.02 6	BEFORE N	3	1.192660550	228
1	10.9	1996	11	435361.06 7	BEFORE N	3	1.009174312	228
1	10.9	1996	9	431397.62 8	BEFORE N	3	0.825688073	228
1	10.9	1996	9	416355.52 9	BEFORE N	4	0.825688073	228
1	10.9	1996	15	421325.37 10	BEFORE N	4	1.376146789	228
1	10.9	1996	10	395629.23 11	BEFORE N	4	0.917431193	228
1	10.9	1996	18	409798.65 12	BEFORE N	1	1.651376147	228
1	10.9	1997	10	373708.67 1	BEFORE N	1	0.917431193	228
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2	5.22	1993	1	105588.75	6	BEFORE	N	3	0.191570881	264
2	5.22	1993	1	107218.85	7	BEFORE	N	3	0.191570881	264
2	5.22	1993	1	106242.75	8	BEFORE	N	3	0.191570881	264
2	5.22	1993	1	102538.25	9	BEFORE	N	4	0.191570881	264
2	5.22	1993	2	103762.2	10	BEFORE	N	4	0.383141762	264
2	5.22	1993	3	97433.87	11	BEFORE	N	4	0.574712644	264
2	5.22	1993	1	100923.45	12	BEFORE	N	1	0.191570881	264
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2	5.22	1994	1	86713.85	2	BEFORE	N	1	0.191570881	264
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2	5.22	1994	1	110107.82	5	BEFORE	N	2	0.191570881	264
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2	5.22	1994	2	105134.26	9	BEFORE	N	4	0.383141762	264
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2	5.22	1994	4	99900.65	11	BEFORE	N	4	0.766283525	264
2	5.22	1994	0	103478.58	12	BEFORE	N	1	0.000000000	264
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2	5.2	2004	0	57723.33	5	AFTER	N	2	0.000000000	264
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3	10.9	1982	6	83019.09	3	BEFORE	N	2	0.550458716	180
3	10.9	1982	7	86475.45	4	BEFORE	N	2	0.642201835	180
3	10.9	1982	3	89747.13	5	BEFORE	N	2	0.275229358	180
3	10.9	1982	5	88242.62	6	BEFORE	N	3	0.458715596	180
3	10.9	1982	7	89604.93	7	BEFORE	N	3	0.642201835	180
3	10.9	1982	6	88789.19	8	BEFORE	N	3	0.550458716	180
3	10.9	1982	3	85693.26	9	BEFORE	N	4	0.275229358	180
3	10.9	1982	5	86716.14	10	BEFORE	N	4	0.458715596	180
3	10.9	1982	8	81427.43	11	BEFORE	N	4	0.733944954	180
3	10.9	1982	17	84343.74	12	BEFORE	N	1	1.559633028	180
3	10.9	1983	12	76961.07	1	BEFORE	N	1	1.100917431	180
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3	10.9	1983	13	84393.94	3	BEFORE	N	2	1.192660550	180
3	10.9	1983	10	87907.54	4	BEFORE	N	2	0.917431193	180
3	10.9	1983	11	91233.4	5	BEFORE	N	2	1.009174312	180
3	10.9	1983	12	89703.98	6	BEFORE	N	3	1.100917431	180
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3	10.9	1983	7	87112.4	9	BEFORE	N	4	0.642201835	180
3	10.9	1983	8	88152.22	10	BEFORE	N	4	0.733944954	180
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3	10.9	1984	8	79963.8	1	BEFORE	N	1	0.733944954	180
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3	10.9	1984	10	87686.68	3	BEFORE	N	2	0.917431193	180
3	10.9	1984	4	91337.37	4	BEFORE	N	2	0.366972477	180
3	10.9	1984	10	94792.99	5	BEFORE	N	2	0.917431193	180
3	10.9	1984	18	93203.89	6	BEFORE	N	3	1.651376147	180
3	10.9	1984	13	94642.8	7	BEFORE	N	3	1.192660550	180
3	10.9	1984	6	93781.19	8	BEFORE	N	3	0.550458716	180

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3	10.9	1985	9	84421.65	11	BEFORE	N	4	0.825688073	180
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3	10.9	1986	4	87686.68	3	BEFORE	N	2	0.366972477	180
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3	10.9	1986	12	94792.99	5	BEFORE	N	2	1.100917431	180
3	10.9	1986	4	93203.89	6	BEFORE	N	3	0.366972477	180
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3	10.9	1987	5	75903.02	2	BEFORE	N	1	0.458715596	180
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3	10.9	1987	13	95351.66	8	BEFORE	N	3	1.192660550	180
3	10.9	1987	7	92026.91	9	BEFORE	N	4	0.642201835	180
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3	10.9	1987	12	90577.65	12	BEFORE	N	1	1.100917431	180
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3	10.9	1988	12	97370.81	4	BEFORE	N	2	1.100917431	180
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3	10.9	1988	4	100894.59	7	BEFORE	N	3	0.366972477	180
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3	10.9	1988	13	91686.77	11	BEFORE	N	4	1.192660550	180
3	10.9	1988	10	94970.52	12	BEFORE	N	1	0.917431193	180
3	10.9	1989	9	87881.45	1	BEFORE	N	1	0.825688073	180
3	10.9	1989	11	82044.66	2	BEFORE	N	1	1.009174312	180
3	10.9	1989	18	96369.01	3	BEFORE	N	2	1.651376147	180
3	10.9	1989	5	100381.18	4	BEFORE	N	2	0.458715596	180
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5	4.24	1983	2	63162.31	3	BEFORE	N	2	0.471698113	192
5	4.24	1983	0	65791.97	4	BEFORE	N	2	0.000000000	192
5	4.24	1983	0	68281.12	5	BEFORE	N	2	0.000000000	192
5	4.24	1983	1	67136.46	6	BEFORE	N	3	0.235849057	192
5	4.24	1983	0	68172.93	7	BEFORE	N	3	0.000000000	192
5	4.24	1983	0	67552.3	8	BEFORE	N	3	0.000000000	192
5	4.24	1983	1	65196.87	9	BEFORE	N	4	0.235849057	192
5	4.24	1983	3	65975.09	10	BEFORE	N	4	0.707547170	192
5	4.24	1983	0	61951.35	11	BEFORE	N	4	0.000000000	192
5	4.24	1983	0	64170.13	12	BEFORE	N	1	0.000000000	192
5	4.24	1984	2	59846.69	1	BEFORE	N	1	0.471698113	192
5	4.24	1984	0	57867.3	2	BEFORE	N	1	0.000000000	192
5	4.24	1984	1	65626.67	3	BEFORE	N	2	0.235849057	192
5	4.24	1984	0	68358.93	4	BEFORE	N	2	0.000000000	192
5	4.24	1984	1	70945.19	5	BEFORE	N	2	0.235849057	192
5	4.24	1984	2	69755.88	6	BEFORE	N	3	0.471698113	192
5	4.24	1984	0	70832.79	7	BEFORE	N	3	0.000000000	192
5	4.24	1984	0	70187.94	8	BEFORE	N	3	0.000000000	192
5	4.24	1984	3	67740.6	9	BEFORE	N	4	0.707547170	192
5	4.24	1984	0	68549.19	10	BEFORE	N	4	0.000000000	192
5	4.24	1984	1	64368.46	11	BEFORE	N	4	0.235849057	192
5	4.24	1984	1	66673.81	12	BEFORE	N	1	0.235849057	192
5	4.24	1985	1	58744.55	1	BEFORE	N	1	0.235849057	192
5	4.24	1985	2	54842.94	2	BEFORE	N	1	0.471698113	192
5	4.24	1985	1	64418.08	3	BEFORE	N	2	0.235849057	192
5	4.24	1985	0	67100.02	4	BEFORE	N	2	0.000000000	192
5	4.24	1985	0	69638.66	5	BEFORE	N	2	0.000000000	192
5	4.24	1985	1	68471.25	6	BEFORE	N	3	0.235849057	192
5	4.24	1985	0	69528.32	7	BEFORE	N	3	0.000000000	192
5	4.24	1985	1	68895.35	8	BEFORE	N	3	0.235849057	192
5	4.24	1985	0	66493.09	9	BEFORE	N	4	0.000000000	192
5	4.24	1985	0	67286.79	10	BEFORE	N	4	0.000000000	192
5	4.24	1985	0	63183.05	11	BEFORE	N	4	0.000000000	192
5	4.24	1985	0	65445.94	12	BEFORE	N	1	0.000000000	192
5	4.24	1986	3	59846.69	1	BEFORE	N	1	0.707547170	192
5	4.24	1986	1	55871.88	2	BEFORE	N	1	0.235849057	192
5	4.24	1986	1	65626.67	3	BEFORE	N	2	0.235849057	192
5	4.24	1986	1	68358.93	4	BEFORE	N	2	0.235849057	192
5	4.24	1986	0	70945.19	5	BEFORE	N	2	0.000000000	192
5	4.24	1986	1	69755.88	6	BEFORE	N	3	0.235849057	192
5	4.24	1986	0	70832.79	7	BEFORE	N	3	0.000000000	192
5	4.24	1986	2	70187.94	8	BEFORE	N	3	0.471698113	192
5	4.24	1986	1	67740.6	9	BEFORE	N	4	0.235849057	192
5	4.24	1986	2	68549.19	10	BEFORE	N	4	0.471698113	192
5	4.24	1986	2	64368.46	11	BEFORE	N	4	0.471698113	192
5	4.24	1986	2	66673.81	12	BEFORE	N	1	0.471698113	192
5	4.24	1987	0	60848.89	1	BEFORE	N	1	0.000000000	192
5	4.24	1987	1	56807.51	2	BEFORE	N	1	0.235849057	192
5	4.24	1987	1	66725.66	3	BEFORE	N	2	0.235849057	192
5	4.24	1987	0	69503.67	4	BEFORE	N	2	0.000000000	192
5	4.24	1987	1	72133.25	5	BEFORE	N	2	0.235849057	192
5	4.24	1987	4	70924.02	6	BEFORE	N	3	0.943396226	192
5	4.24	1987	0	72018.96	7	BEFORE	N	3	0.000000000	192
5	4.24	1987	0	71363.31	8	BEFORE	N	3	0.000000000	192

5	4.24	1987	1	68875	9	BEFORE	N	4	0.235849057	192
5	4.24	1987	2	69697.13	10	BEFORE	N	4	0.471698113	192
5	4.24	1987	1	65446.38	11	BEFORE	N	4	0.235849057	192
5	4.24	1987	0	67790.34	12	BEFORE	N	1	0.000000000	192
5	4.24	1988	0	63799.97	1	BEFORE	N	1	0.000000000	192
5	4.24	1988	0	61689.82	2	BEFORE	N	1	0.000000000	192
5	4.24	1988	0	69961.75	3	BEFORE	N	2	0.000000000	192
5	4.24	1988	1	72874.49	4	BEFORE	N	2	0.235849057	192
5	4.24	1988	1	75631.59	5	BEFORE	N	2	0.235849057	192
5	4.24	1988	1	74363.72	6	BEFORE	N	3	0.235849057	192
5	4.24	1988	1	75511.76	7	BEFORE	N	3	0.235849057	192
5	4.24	1988	4	74824.32	8	BEFORE	N	3	0.943396226	192
5	4.24	1988	0	72215.32	9	BEFORE	N	4	0.000000000	192
5	4.24	1988	3	73077.33	10	BEFORE	N	4	0.707547170	192
5	4.24	1988	0	68620.43	11	BEFORE	N	4	0.000000000	192
5	4.24	1988	2	71078.06	12	BEFORE	N	1	0.471698113	192
5	4.24	1989	0	65772.44	1	BEFORE	N	1	0.000000000	192
5	4.24	1989	0	61404.05	2	BEFORE	N	1	0.000000000	192
5	4.24	1989	0	72124.72	3	BEFORE	N	2	0.000000000	192
5	4.24	1989	1	75127.51	4	BEFORE	N	2	0.235849057	192
5	4.24	1989	1	77969.86	5	BEFORE	N	2	0.235849057	192
5	4.24	1989	0	76662.78	6	BEFORE	N	3	0.000000000	192
5	4.24	1989	1	77846.32	7	BEFORE	N	3	0.235849057	192
5	4.24	1989	2	77137.63	8	BEFORE	N	3	0.471698113	192
5	4.24	1989	2	74447.97	9	BEFORE	N	4	0.471698113	192
5	4.24	1989	0	75336.62	10	BEFORE	N	4	0.000000000	192
5	4.24	1989	2	70741.93	11	BEFORE	N	4	0.471698113	192
5	4.24	1989	0	73275.54	12	BEFORE	N	1	0.000000000	192
5	4.24	1990	1	67689.39	1	BEFORE	N	1	0.235849057	192
5	4.24	1990	1	63193.69	2	BEFORE	N	1	0.235849057	192
5	4.24	1990	1	74226.81	3	BEFORE	N	2	0.235849057	192
5	4.24	1990	0	77317.12	4	BEFORE	N	2	0.000000000	192
5	4.24	1990	2	80242.3	5	BEFORE	N	2	0.471698113	192
5	4.24	1990	1	78897.13	6	BEFORE	N	3	0.235849057	192
5	4.24	1990	2	80115.17	7	BEFORE	N	3	0.471698113	192
5	4.24	1990	1	79385.82	8	BEFORE	N	3	0.235849057	192
5	4.24	1990	0	76617.77	9	BEFORE	N	4	0.000000000	192
5	4.24	1990	2	77532.32	10	BEFORE	N	4	0.471698113	192
5	4.24	1990	1	72803.72	11	BEFORE	N	4	0.235849057	192
5	4.24	1990	0	75411.17	12	BEFORE	N	1	0.000000000	192
5	4.24	1991	0	69404.37	1	BEFORE	N	1	0.000000000	192
5	4.24	1991	0	64794.76	2	BEFORE	N	1	0.000000000	192
5	4.24	1991	1	76107.42	3	BEFORE	N	2	0.235849057	192
5	4.24	1991	2	79276.03	4	BEFORE	N	2	0.471698113	192
5	4.24	1991	0	82275.33	5	BEFORE	N	2	0.000000000	192
5	4.24	1991	0	80896.07	6	BEFORE	N	3	0.000000000	192
5	4.24	1991	2	82144.97	7	BEFORE	N	3	0.471698113	192
5	4.24	1991	1	81397.14	8	BEFORE	N	3	0.235849057	192
5	4.24	1991	0	78558.96	9	BEFORE	N	4	0.000000000	192
5	4.24	1991	1	79496.68	10	BEFORE	N	4	0.235849057	192
5	4.24	1991	0	74648.27	11	BEFORE	N	4	0.000000000	192
5	4.24	1991	1	77321.79	12	BEFORE	N	1	0.235849057	192
5	4.24	1992	5	71330.34	1	BEFORE	N	1	1.179245283	192
5	4.24	1992	1	68971.13	2	BEFORE	N	1	0.235849057	192
5	4.24	1992	0	78219.4	3	BEFORE	N	2	0.000000000	192
5	4.24	1992	2	81475.94	4	BEFORE	N	2	0.471698113	192
5	4.24	1992	2	84558.47	5	BEFORE	N	2	0.471698113	192
5	4.24	1992	1	83140.94	6	BEFORE	N	3	0.235849057	192
5	4.24	1992	0	84424.49	7	BEFORE	N	3	0.000000000	192
5	4.24	1992	2	83655.91	8	BEFORE	N	3	0.471698113	192
5	4.24	1992	0	80738.97	9	BEFORE	N	4	0.000000000	192
5	4.24	1992	0	81702.72	10	BEFORE	N	4	0.000000000	192
5	4.24	1992	0	76719.76	11	BEFORE	N	4	0.000000000	192
5	4.24	1992	0	79467.47	12	BEFORE	N	1	0.000000000	192
5	4.24	1993	0	74208.54	1	BEFORE	N	1	0.000000000	192
5	4.24	1993	2	69279.86	2	BEFORE	N	1	0.471698113	192
5	4.24	1993	0	81375.58	3	BEFORE	N	2	0.000000000	192
5	4.24	1993	1	84763.52	4	BEFORE	N	2	0.235849057	192

5	4.24	1993	1	87970.43	5	BEFORE	N	2	0.235849057	192
5	4.24	1993	0	86495.7	6	BEFORE	N	3	0.000000000	192
5	4.24	1993	1	87831.05	7	BEFORE	N	3	0.235849057	192
5	4.24	1993	2	87031.45	8	BEFORE	N	3	0.471698113	192
5	4.24	1993	3	83996.81	9	BEFORE	N	4	0.707547170	192
5	4.24	1993	2	84999.44	10	BEFORE	N	4	0.471698113	192
5	4.24	1993	2	79815.43	11	BEFORE	N	4	0.471698113	192
5	4.24	1993	1	82674.01	12	BEFORE	N	1	0.235849057	192
5	4.24	1994	0	76087.32	1	BEFORE	N	1	0.000000000	192
5	4.24	1994	0	71033.85	2	BEFORE	N	1	0.000000000	192
5	4.24	1994	1	83435.81	3	BEFORE	N	2	0.235849057	192
5	4.24	1994	5	86909.52	4	BEFORE	N	2	1.179245283	192
5	4.24	1994	0	90197.62	5	BEFORE	N	2	0.000000000	192
5	4.24	1994	1	88685.56	6	BEFORE	N	3	0.235849057	192
5	4.24	1994	0	90054.71	7	BEFORE	N	3	0.000000000	192
5	4.24	1994	6	89234.87	8	BEFORE	N	3	1.415094340	192
5	4.24	1994	2	86123.4	9	BEFORE	N	4	0.471698113	192
5	4.24	1994	3	87151.42	10	BEFORE	N	4	0.707547170	192
5	4.24	1994	0	81836.16	11	BEFORE	N	4	0.000000000	192
5	4.24	1994	0	84767.11	12	BEFORE	N	1	0.000000000	192
5	4.24	1995	4	77898.77	1	BEFORE	N	1	0.943396226	192
5	4.24	1995	0	72724.99	2	BEFORE	N	1	0.000000000	192
5	4.24	1995	3	85422.21	3	BEFORE	N	2	0.707547170	192
5	4.24	1995	0	88978.62	4	BEFORE	N	2	0.000000000	192
5	4.24	1995	1	92345	5	BEFORE	N	2	0.235849057	192
5	4.24	1995	1	90796.95	6	BEFORE	N	3	0.235849057	192
5	4.24	1995	4	92198.69	7	BEFORE	N	3	0.943396226	192
5	4.24	1995	2	91359.33	8	BEFORE	N	3	0.471698113	192
5	4.24	1995	1	88173.79	9	BEFORE	N	4	0.235849057	192
5	4.24	1995	2	89226.28	10	BEFORE	N	4	0.471698113	192
5	4.24	1995	4	83784.48	11	BEFORE	N	4	0.943396226	192
5	4.24	1995	1	86785.21	12	BEFORE	N	1	0.235849057	192
5	4.24	1996	0	80610.4	1	BEFORE	N	1	0.000000000	192
5	4.24	1996	4	77944.26	2	BEFORE	N	1	0.943396226	192
5	4.24	1996	0	88395.73	3	BEFORE	N	2	0.000000000	192
5	4.24	1996	0	92075.94	4	BEFORE	N	2	0.000000000	192
5	4.24	1996	0	95559.5	5	BEFORE	N	2	0.000000000	192
5	4.24	1996	1	93957.56	6	BEFORE	N	3	0.235849057	192
5	4.24	1996	0	95408.1	7	BEFORE	N	3	0.000000000	192
5	4.24	1996	0	94539.52	8	BEFORE	N	3	0.000000000	192
5	4.24	1996	2	91243.09	9	BEFORE	N	4	0.471698113	192
5	4.24	1996	2	92332.22	10	BEFORE	N	4	0.471698113	192
5	4.24	1996	5	86700.98	11	BEFORE	N	4	1.179245283	192
5	4.24	1996	1	89806.17	12	BEFORE	N	1	0.235849057	192
5	4.24	1997	0	81897.16	1	BEFORE	N	1	0.000000000	192
5	4.24	1997	3	76457.82	2	BEFORE	N	1	0.707547170	192
5	4.24	1997	1	89806.76	3	BEFORE	N	2	0.235849057	192
5	4.24	1997	1	93545.71	4	BEFORE	N	2	0.235849057	192
5	4.24	1997	0	97084.89	5	BEFORE	N	2	0.000000000	192
5	4.24	1997	2	95457.37	6	BEFORE	N	3	0.471698113	192
5	4.24	1997	3	96931.07	7	BEFORE	N	3	0.707547170	192
5	4.24	1997	1	96048.62	8	BEFORE	N	3	0.235849057	192
5	4.24	1997	0	92699.57	9	BEFORE	N	4	0.000000000	192
5	4.24	1997	4	93806.09	10	BEFORE	N	4	0.943396226	192
5	4.24	1997	0	88084.96	11	BEFORE	N	4	0.000000000	192
5	4.24	1997	0	91239.72	12	BEFORE	N	1	0.000000000	192
5	4.24	1998	1	49975.4	1	AFTER	N	1	0.235849057	192
5	4.24	1998	0	46656.2	2	AFTER	N	1	0.000000000	192
5	4.24	1998	4	54802.01	3	AFTER	N	2	0.943396226	192
5	4.24	1998	0	57083.6	4	AFTER	N	2	0.000000000	192
5	4.24	1998	0	59243.27	5	AFTER	N	2	0.000000000	192
5	4.24	1998	1	58250.13	6	AFTER	N	3	0.235849057	192
5	4.24	1998	1	59149.41	7	AFTER	N	3	0.235849057	192
5	4.24	1998	1	58610.92	8	AFTER	N	3	0.235849057	192
5	4.24	1998	2	56567.26	9	AFTER	N	4	0.471698113	192
5	4.24	1998	1	57242.48	10	AFTER	N	4	0.235849057	192
5	4.24	1998	0	53751.33	11	AFTER	N	4	0.000000000	192
5	4.24	1998	2	55676.43	12	AFTER	N	1	0.471698113	192

5	4.2	1999	0	51393.59	1	AFTER	N	1	0.000000000	192
5	4.2	1999	0	47980.2	2	AFTER	N	1	0.000000000	192
5	4.2	1999	0	56357.17	3	AFTER	N	2	0.000000000	192
5	4.2	1999	0	58703.51	4	AFTER	N	2	0.000000000	192
5	4.2	1999	0	60924.47	5	AFTER	N	2	0.000000000	192
5	4.2	1999	0	59903.14	6	AFTER	N	3	0.000000000	192
5	4.2	1999	0	60827.94	7	AFTER	N	3	0.000000000	192
5	4.2	1999	0	60274.18	8	AFTER	N	3	0.000000000	192
5	4.2	1999	0	58172.52	9	AFTER	N	4	0.000000000	192
5	4.2	1999	0	58866.9	10	AFTER	N	4	0.000000000	192
5	4.2	1999	0	55276.68	11	AFTER	N	4	0.000000000	192
5	4.2	1999	0	57256.4	12	AFTER	N	1	0.000000000	192
5	4.25	2000	0	50343.42	1	AFTER	N	1	0.000000000	192
5	4.25	2000	0	48678.34	2	AFTER	N	1	0.000000000	192
5	4.25	2000	0	55205.57	3	AFTER	N	2	0.000000000	192
5	4.25	2000	0	57503.97	4	AFTER	N	2	0.000000000	192
5	4.25	2000	2	59679.55	5	AFTER	N	2	0.470588235	192
5	4.25	2000	0	58679.09	6	AFTER	N	3	0.000000000	192
5	4.25	2000	2	59584.99	7	AFTER	N	3	0.470588235	192
5	4.25	2000	0	59042.54	8	AFTER	N	3	0.000000000	192
5	4.25	2000	1	56983.83	9	AFTER	N	4	0.235294118	192
5	4.25	2000	0	57664.02	10	AFTER	N	4	0.000000000	192
5	4.25	2000	1	54147.16	11	AFTER	N	4	0.235294118	192
5	4.25	2000	0	56086.44	12	AFTER	N	1	0.000000000	192
5	4.25	2001	3	50443.77	1	AFTER	N	1	0.705882353	192
5	4.25	2001	2	47093.47	2	AFTER	N	1	0.470588235	192
5	4.25	2001	0	55315.62	3	AFTER	N	2	0.000000000	192
5	4.25	2001	0	57618.59	4	AFTER	N	2	0.000000000	192
5	4.25	2001	0	59798.51	5	AFTER	N	2	0.000000000	192
5	4.25	2001	0	58796.06	6	AFTER	N	3	0.000000000	192
5	4.25	2001	1	59703.77	7	AFTER	N	3	0.235294118	192
5	4.25	2001	1	59160.24	8	AFTER	N	3	0.235294118	192
5	4.25	2001	2	57097.42	9	AFTER	N	4	0.470588235	192
5	4.25	2001	0	57778.97	10	AFTER	N	4	0.000000000	192
5	4.25	2001	0	54255.09	11	AFTER	N	4	0.000000000	192
5	4.25	2001	0	56198.23	12	AFTER	N	1	0.000000000	192
5	4.24	2002	0	48646.03	1	AFTER	N	1	0.000000000	192
5	4.24	2002	0	45415.12	2	AFTER	N	1	0.000000000	192
5	4.24	2002	1	53344.25	3	AFTER	N	2	0.235849057	192
5	4.24	2002	0	55565.15	4	AFTER	N	2	0.000000000	192
5	4.24	2002	2	57667.38	5	AFTER	N	2	0.471698113	192
5	4.24	2002	0	56700.65	6	AFTER	N	3	0.000000000	192
5	4.24	2002	0	57576.01	7	AFTER	N	3	0.000000000	192
5	4.24	2002	0	57051.85	8	AFTER	N	3	0.000000000	192
5	4.24	2002	2	55062.55	9	AFTER	N	4	0.471698113	192
5	4.24	2002	1	55719.8	10	AFTER	N	4	0.235849057	192
5	4.24	2002	1	52321.52	11	AFTER	N	4	0.235849057	192
5	4.24	2002	0	54195.41	12	AFTER	N	1	0.000000000	192
5	4.19	2003	2	50959.05	1	AFTER	N	1	0.477326969	192
5	4.19	2003	0	47574.52	2	AFTER	N	1	0.000000000	192
5	4.19	2003	0	55880.65	3	AFTER	N	2	0.000000000	192
5	4.19	2003	1	58207.15	4	AFTER	N	2	0.238663484	192
5	4.19	2003	0	60409.34	5	AFTER	N	2	0.000000000	192
5	4.19	2003	1	59396.64	6	AFTER	N	3	0.238663484	192
5	4.19	2003	0	60313.63	7	AFTER	N	3	0.000000000	192
5	4.19	2003	0	59764.54	8	AFTER	N	3	0.000000000	192
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5	4.19	2003	0	54809.3	11	AFTER	N	4	0.000000000	192
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5	4.16	2004	0	57987.8	8	AFTER	N	3	0.000000000	192

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7	1.83	1997	0	176489.18	9	BEFORE	N	4	0.000000000	204
7	1.83	1997	1	178595.86	10	BEFORE	N	4	0.546448087	204
7	1.83	1997	0	167703.51	11	BEFORE	N	4	0.000000000	204
7	1.83	1997	0	173709.79	12	BEFORE	N	1	0.000000000	204
7	1.83	1998	0	188748.46	1	BEFORE	N	1	0.000000000	204
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7	1.83	1998	0	215594.91	4	BEFORE	N	2	0.000000000	204
7	1.83	1998	0	223751.64	5	BEFORE	N	2	0.000000000	204
7	1.83	1998	1	220000.7	6	BEFORE	N	3	0.546448087	204
7	1.83	1998	0	223397.13	7	BEFORE	N	3	0.000000000	204
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7	1.83	1998	0	213644.8	9	BEFORE	N	4	0.000000000	204
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7	1.94	1999	1	82853.39	3	AFTER	N	2	0.515463918	204
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7	1.94	1999	0	88066.49	6	AFTER	N	3	0.000000000	204
7	1.94	1999	1	89426.09	7	AFTER	N	3	0.515463918	204
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7	1.94	1999	1	85522.22	9	AFTER	N	4	0.515463918	204
7	1.94	1999	0	86543.06	10	AFTER	N	4	0.000000000	204
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7	1.94	1999	1	84175.4	12	AFTER	N	1	0.515463918	204
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7	1.93	2000	0	87771.24	7	AFTER	N	3	0.000000000	204
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7	1.94	2002	0	101309.3	8	AFTER	N	3	0.000000000	204
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7	1.95	2005	2	109206.22	5	AFTER	N	2	1.025641026	204
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7	1.95	2005	0	109033.2	7	AFTER	N	3	0.000000000	204
7	1.95	2005	0	108040.58	8	AFTER	N	3	0.000000000	204
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8	7.15	1982	6	133038.64	9	BEFORE	N	4	0.839160839	156
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8	7.15	1983	6	136476.32	4	BEFORE	N	2	0.839160839	156
8	7.15	1983	4	141639.71	5	BEFORE	N	2	0.559440559	156
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8	7.15	1983	14	133112.04 12	BEFORE N	1	1.958041958	156
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8	7.15	1994	4	180281.75 4	BEFORE N	2	0.559440559	156
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9	5.73	1983	2	139168.47	2	BEFORE	N	1	0.349040140	192
9	5.73	1983	9	163466.19	3	BEFORE	N	2	1.570680628	192
9	5.73	1983	2	170271.84	4	BEFORE	N	2	0.349040140	192
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10	5.24	1989	2	139992.22 3	BEFORE N	2	0.381679389	204
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10	5.24	1993	1	163035.64	9	BEFORE	N	4	0.190839695	204
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10	5.24	1996	1	168284.37	11	BEFORE	N	4	0.190839695	204
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10	5.24	1998	2	181045.3	6	BEFORE	N	3	0.381679389	204
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10	4.89	1999	1	21467.06	2	AFTER	N	1	0.204498978	204
10	4.89	1999	0	25215.04	3	AFTER	N	2	0.000000000	204
10	4.89	1999	1	26264.82	4	AFTER	N	2	0.204498978	204
10	4.89	1999	0	27258.51	5	AFTER	N	2	0.000000000	204
10	4.89	1999	1	26801.56	6	AFTER	N	3	0.204498978	204
10	4.89	1999	1	27215.33	7	AFTER	N	3	0.204498978	204
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10	4.89	1999	0	25617.37	12	AFTER	N	1	0.000000000	204
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10	4.89	2001	0	27142.95	5	AFTER	N	2	0.000000000	204
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10	4.89	2001	0	26226.26	10	AFTER	N	4	0.000000000	204
10	4.89	2001	0	24626.76	11	AFTER	N	4	0.000000000	204
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10	4.89	2002	0	35473.67	3	AFTER	N	2	0.000000000	204
10	4.89	2002	0	36950.56	4	AFTER	N	2	0.000000000	204
10	4.89	2002	0	38348.54	5	AFTER	N	2	0.000000000	204
10	4.89	2002	0	37705.67	6	AFTER	N	3	0.000000000	204
10	4.89	2002	1	38287.78	7	AFTER	N	3	0.204498978	204
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10	4.87	2003	0	35026.81	3	AFTER	N	2	0.000000000	204
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10	4.87	2003	0	37805.46	7	AFTER	N	3	0.000000000	204
10	4.87	2003	0	37461.29	8	AFTER	N	3	0.000000000	204

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10	4.89	2004	0	38157.33	4	AFTER	N	2	0.000000000	204
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11	5.67	1982	1	127568.39	2	BEFORE	N	1	0.176366843	216
11	5.67	1982	0	149840.83	3	BEFORE	N	2	0.000000000	216
11	5.67	1982	1	156079.21	4	BEFORE	N	2	0.176366843	216
11	5.67	1982	0	161984.25	5	BEFORE	N	2	0.000000000	216
11	5.67	1982	0	159268.77	6	BEFORE	N	3	0.000000000	216
11	5.67	1982	3	161727.6	7	BEFORE	N	3	0.529100529	216
11	5.67	1982	2	160255.26	8	BEFORE	N	3	0.352733686	216
11	5.67	1982	1	154667.44	9	BEFORE	N	4	0.176366843	216
11	5.67	1982	1	156513.63	10	BEFORE	N	4	0.176366843	216
11	5.67	1982	1	146968.05	11	BEFORE	N	4	0.176366843	216
11	5.67	1982	1	152231.7	12	BEFORE	N	1	0.176366843	216
11	5.67	1983	0	138906.74	1	BEFORE	N	1	0.000000000	216
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12	2.92	2001	1	68781.67	4	AFTER	N	2	0.342465753	228
12	2.92	2001	0	71383.92	5	AFTER	N	2	0.000000000	228
12	2.92	2001	1	70187.25	6	AFTER	N	3	0.342465753	228
12	2.92	2001	1	71270.82	7	AFTER	N	3	0.342465753	228
12	2.92	2001	2	70621.99	8	AFTER	N	3	0.684931507	228
12	2.92	2001	0	68159.52	9	AFTER	N	4	0.000000000	228
12	2.92	2001	1	68973.11	10	AFTER	N	4	0.342465753	228
12	2.92	2001	0	64766.52	11	AFTER	N	4	0.000000000	228
12	2.92	2001	0	67086.13	12	AFTER	N	1	0.000000000	228
12	2.92	2002	2	67195.82	1	AFTER	N	1	0.684931507	228
12	2.92	2002	0	62732.9	2	AFTER	N	1	0.000000000	228
12	2.92	2002	0	73685.58	3	AFTER	N	2	0.000000000	228
12	2.92	2002	1	76753.35	4	AFTER	N	2	0.342465753	228
12	2.92	2002	1	79657.21	5	AFTER	N	2	0.342465753	228
12	2.92	2002	1	78321.85	6	AFTER	N	3	0.342465753	228
12	2.92	2002	0	79531	7	AFTER	N	3	0.000000000	228
12	2.92	2002	0	78806.97	8	AFTER	N	3	0.000000000	228
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12	2.92	2002	0	76966.98	10	AFTER	N	4	0.000000000	228
12	2.92	2002	0	72272.86	11	AFTER	N	4	0.000000000	228
12	2.92	2002	3	74861.3	12	AFTER	N	1	1.027397260	228
12	2.92	2003	0	67286.69	1	AFTER	N	1	0.000000000	228
12	2.92	2003	1	62817.74	2	AFTER	N	1	0.342465753	228
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12	2.92	2003	1	76857.15	4	AFTER	N	2	0.342465753	228
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12	2.92	2004	0	75959.5	12	AFTER	N	1	0.000000000	228
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13	3.8	1982	12	387933.4	5	BEFORE	N	2	3.157894737	192
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13	3.8	1983	16	363187.04 11	BEFORE N	4	4.210526316	192
13	3.8	1983	15	361808.57 12	BEFORE N	1	3.947368421	192
13	3.8	1984	15	356696.34 1	BEFORE N	1	3.947368421	192
13	3.8	1984	7	350180.29 2	BEFORE N	1	1.842105263	192
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17	23.8	1987	4	61888.35	8	AFTER	N	3	0.168067227	24
17	23.8	1987	3	59730.41	9	AFTER	N	4	0.126050420	24
17	23.8	1987	1	60443.39	10	AFTER	N	4	0.042016807	24
17	23.8	1987	2	56757.02	11	AFTER	N	4	0.084033613	24
17	23.8	1987	4	58789.76	12	AFTER	N	1	0.168067227	24
17	23.8	1988	2	55329.2	1	AFTER	N	1	0.084033613	24
17	23.8	1988	0	53499.22	2	AFTER	N	1	0.000000000	24
17	23.8	1988	1	60672.87	3	AFTER	N	2	0.042016807	24
17	23.8	1988	2	63198.89	4	AFTER	N	2	0.084033613	24
17	23.8	1988	3	65589.93	5	AFTER	N	2	0.126050420	24
17	23.8	1988	2	64490.39	6	AFTER	N	3	0.084033613	24
17	23.8	1988	2	65486.01	7	AFTER	N	3	0.084033613	24
17	23.8	1988	2	64889.84	8	AFTER	N	3	0.084033613	24
17	23.8	1988	0	62627.24	9	AFTER	N	4	0.000000000	24
17	23.8	1988	2	63374.79	10	AFTER	N	4	0.084033613	24
17	23.8	1988	1	59509.64	11	AFTER	N	4	0.042016807	24
17	23.8	1988	6	61640.97	12	AFTER	N	1	0.252100840	24
17	23.8	1989	4	57039.78	1	AFTER	N	1	0.168067227	24
17	23.8	1989	2	53251.39	2	AFTER	N	1	0.084033613	24
17	23.8	1989	1	62548.67	3	AFTER	N	2	0.042016807	24
17	23.8	1989	4	65152.78	4	AFTER	N	2	0.168067227	24
17	23.8	1989	3	67617.74	5	AFTER	N	2	0.126050420	24
17	23.8	1989	4	66484.21	6	AFTER	N	3	0.168067227	24
17	23.8	1989	5	67510.61	7	AFTER	N	3	0.210084034	24
17	23.8	1989	4	66896.01	8	AFTER	N	3	0.168067227	24
17	23.8	1989	2	64563.46	9	AFTER	N	4	0.084033613	24
17	23.8	1989	3	65334.12	10	AFTER	N	4	0.126050420	24
17	23.8	1989	3	61349.47	11	AFTER	N	4	0.126050420	24
17	23.8	1989	3	63546.69	12	AFTER	N	1	0.126050420	24
17	23.8	1990	2	58702.22	1	AFTER	N	1	0.084033613	24
17	23.8	1990	1	54803.41	2	AFTER	N	1	0.042016807	24
17	23.8	1990	2	64371.66	3	AFTER	N	2	0.084033613	24
17	23.8	1990	1	67051.67	4	AFTER	N	2	0.042016807	24
17	23.8	1990	6	69588.47	5	AFTER	N	2	0.252100840	24
17	23.8	1990	4	68421.9	6	AFTER	N	3	0.168067227	24
17	23.8	1990	2	69478.22	7	AFTER	N	3	0.084033613	24
17	23.8	1990	3	68845.7	8	AFTER	N	3	0.126050420	24
17	23.8	1990	0	66445.17	9	AFTER	N	4	0.000000000	24
17	23.8	1990	3	67238.3	10	AFTER	N	4	0.126050420	24
17	23.8	1990	6	63137.51	11	AFTER	N	4	0.252100840	24
17	23.8	1990	2	65398.77	12	AFTER	N	1	0.084033613	24
17	23.8	1991	0	60189.5	1	AFTER	N	1	0.000000000	24
17	23.8	1991	5	56191.91	2	AFTER	N	1	0.210084034	24
17	23.8	1991	3	66002.58	3	AFTER	N	2	0.126050420	24
17	23.8	1991	1	68750.49	4	AFTER	N	2	0.042016807	24
17	23.8	1991	2	71351.57	5	AFTER	N	2	0.084033613	24
17	23.8	1991	4	70155.44	6	AFTER	N	3	0.168067227	24
17	23.8	1991	2	71238.52	7	AFTER	N	3	0.084033613	24
17	23.8	1991	3	70589.98	8	AFTER	N	3	0.126050420	24
17	23.8	1991	2	68128.63	9	AFTER	N	4	0.084033613	24
17	23.8	1991	4	68941.85	10	AFTER	N	4	0.168067227	24
17	23.8	1991	3	64737.17	11	AFTER	N	4	0.126050420	24
17	23.8	1991	2	67055.72	12	AFTER	N	1	0.084033613	24
17	23.8	1992	0	61859.76	1	AFTER	N	1	0.000000000	24
17	23.8	1992	0	59813.78	2	AFTER	N	1	0.000000000	24
17	23.8	1992	5	67834.15	3	AFTER	N	2	0.210084034	24
17	23.8	1992	2	70658.32	4	AFTER	N	2	0.084033613	24
17	23.8	1992	3	73331.58	5	AFTER	N	2	0.126050420	24
17	23.8	1992	2	72102.26	6	AFTER	N	3	0.084033613	24
17	23.8	1992	3	73215.39	7	AFTER	N	3	0.126050420	24
17	23.8	1992	0	72548.85	8	AFTER	N	3	0.000000000	24

17	23.8	1992	3	70019.2	9	AFTER	N	4	0.126050420	24
17	23.8	1992	2	70854.98	10	AFTER	N	4	0.084033613	24
17	23.8	1992	3	66533.62	11	AFTER	N	4	0.126050420	24
17	23.8	1992	4	68916.52	12	AFTER	N	1	0.168067227	24
17	23.8	1993	5	64355.82	1	AFTER	N	1	0.210084034	24
17	23.8	1993	0	60081.52	2	AFTER	N	1	0.000000000	24
17	23.8	1993	3	70571.28	3	AFTER	N	2	0.126050420	24
17	23.8	1993	4	73509.4	4	AFTER	N	2	0.168067227	24
17	23.8	1993	1	76290.53	5	AFTER	N	2	0.042016807	24
17	23.8	1993	7	75011.6	6	AFTER	N	3	0.294117647	24
17	23.8	1993	1	76169.65	7	AFTER	N	3	0.042016807	24
17	23.8	1993	0	75476.22	8	AFTER	N	3	0.000000000	24
17	23.8	1993	3	72844.49	9	AFTER	N	4	0.126050420	24
17	23.8	1993	3	73714	10	AFTER	N	4	0.126050420	24
17	23.8	1993	5	69218.27	11	AFTER	N	4	0.210084034	24
17	23.8	1993	4	71697.32	12	AFTER	N	1	0.168067227	24
17	23.8	1994	4	65985.15	1	AFTER	N	1	0.168067227	24
17	23.8	1994	1	61602.63	2	AFTER	N	1	0.042016807	24
17	23.8	1994	0	72357.97	3	AFTER	N	2	0.000000000	24
17	23.8	1994	1	75370.48	4	AFTER	N	2	0.042016807	24
17	23.8	1994	5	78222.01	5	AFTER	N	2	0.210084034	24
17	23.8	1994	2	76910.71	6	AFTER	N	3	0.084033613	24
17	23.8	1994	0	78098.08	7	AFTER	N	3	0.000000000	24
17	23.8	1994	1	77387.09	8	AFTER	N	3	0.042016807	24
17	23.8	1994	2	74688.73	9	AFTER	N	4	0.084033613	24
17	23.8	1994	3	75580.26	10	AFTER	N	4	0.126050420	24
17	23.8	1994	4	70970.71	11	AFTER	N	4	0.168067227	24
17	23.8	1994	7	73512.52	12	AFTER	N	1	0.294117647	24
17	23.8	1995	0	67556.09	1	AFTER	N	1	0.000000000	24
17	23.8	1995	2	63069.24	2	AFTER	N	1	0.084033613	24
17	23.8	1995	2	74080.64	3	AFTER	N	2	0.084033613	24
17	23.8	1995	2	77164.86	4	AFTER	N	2	0.084033613	24
17	23.8	1995	1	80084.29	5	AFTER	N	2	0.042016807	24
17	23.8	1995	1	78741.77	6	AFTER	N	3	0.042016807	24
17	23.8	1995	4	79957.4	7	AFTER	N	3	0.168067227	24
17	23.8	1995	3	79229.49	8	AFTER	N	3	0.126050420	24
17	23.8	1995	0	76466.89	9	AFTER	N	4	0.000000000	24
17	23.8	1995	3	77379.64	10	AFTER	N	4	0.126050420	24
17	23.8	1995	3	72660.35	11	AFTER	N	4	0.126050420	24
17	23.8	1995	1	75262.67	12	AFTER	N	1	0.042016807	24
17	23.8	1996	3	69907.7	1	AFTER	N	1	0.126050420	24
17	23.8	1996	4	67595.54	2	AFTER	N	1	0.168067227	24
17	23.8	1996	3	76659.36	3	AFTER	N	2	0.126050420	24
17	23.8	1996	4	79850.95	4	AFTER	N	2	0.168067227	24
17	23.8	1996	1	82871.99	5	AFTER	N	2	0.042016807	24
17	23.8	1996	1	81482.74	6	AFTER	N	3	0.042016807	24
17	23.8	1996	9	82740.69	7	AFTER	N	3	0.378151261	24
17	23.8	1996	3	81987.44	8	AFTER	N	3	0.126050420	24
17	23.8	1996	3	79128.68	9	AFTER	N	4	0.126050420	24
17	23.8	1996	3	80073.2	10	AFTER	N	4	0.126050420	24
17	23.8	1996	4	75189.63	11	AFTER	N	4	0.168067227	24
17	23.8	1996	5	77882.54	12	AFTER	N	1	0.210084034	24
17	23.8	1997	2	71023.61	1	AFTER	N	1	0.084033613	24
17	23.8	1997	4	66306.46	2	AFTER	N	1	0.168067227	24
17	23.8	1997	1	77883.05	3	AFTER	N	2	0.042016807	24
17	23.8	1997	1	81125.58	4	AFTER	N	2	0.042016807	24
17	23.8	1997	3	84194.85	5	AFTER	N	2	0.126050420	24
17	23.8	1997	4	82783.42	6	AFTER	N	3	0.168067227	24
17	23.8	1997	2	84061.46	7	AFTER	N	3	0.084033613	24
17	23.8	1997	2	83296.18	8	AFTER	N	3	0.084033613	24
17	23.8	1997	0	80391.78	9	AFTER	N	4	0.000000000	24
17	23.8	1997	3	81351.38	10	AFTER	N	4	0.126050420	24
17	23.8	1997	2	76389.86	11	AFTER	N	4	0.084033613	24
17	23.8	1997	5	79125.75	12	AFTER	N	1	0.210084034	24
17	23.8	1998	1	69139.06	1	AFTER	N	1	0.042016807	24
17	23.8	1998	2	64547.07	2	AFTER	N	1	0.084033613	24
17	23.8	1998	5	75816.49	3	AFTER	N	2	0.210084034	24
17	23.8	1998	0	78972.98	4	AFTER	N	2	0.000000000	24

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17	23.8	1998	4	78258.65	9	AFTER	N	4	0.168067227	24
17	23.8	1998	3	79192.79	10	AFTER	N	4	0.126050420	24
17	23.8	1998	4	74362.92	11	AFTER	N	4	0.168067227	24
17	23.8	1998	3	77026.21	12	AFTER	N	1	0.126050420	24
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17	24	1999	2	65249.47	2	AFTER	N	1	0.083333333	24
17	24	1999	2	76641.52	3	AFTER	N	2	0.083333333	24
17	24	1999	1	79832.36	4	AFTER	N	2	0.041666667	24
17	24	1999	3	82852.71	5	AFTER	N	2	0.125000000	24
17	24	1999	1	81463.78	6	AFTER	N	3	0.041666667	24
17	24	1999	1	82721.44	7	AFTER	N	3	0.041666667	24
17	24	1999	3	81968.36	8	AFTER	N	3	0.125000000	24
17	24	1999	2	79110.26	9	AFTER	N	4	0.083333333	24
17	24	1999	4	80054.57	10	AFTER	N	4	0.166666667	24
17	24	1999	2	75172.13	11	AFTER	N	4	0.083333333	24
17	24	1999	5	77864.41	12	AFTER	N	1	0.208333333	24
17	24	2000	3	69941.31	1	AFTER	N	1	0.125000000	24
17	24	2000	2	67628.05	2	AFTER	N	1	0.083333333	24
17	24	2000	1	76696.22	3	AFTER	N	2	0.041666667	24
17	24	2000	1	79889.34	4	AFTER	N	2	0.041666667	24
17	24	2000	5	82911.85	5	AFTER	N	2	0.208333333	24
17	24	2000	1	81521.92	6	AFTER	N	3	0.041666667	24
17	24	2000	1	82780.48	7	AFTER	N	3	0.041666667	24
17	24	2000	1	82026.86	8	AFTER	N	3	0.041666667	24
17	24	2000	2	79166.73	9	AFTER	N	4	0.083333333	24
17	24	2000	2	80111.7	10	AFTER	N	4	0.083333333	24
17	24	2000	6	75225.79	11	AFTER	N	4	0.250000000	24
17	24	2000	5	77919.99	12	AFTER	N	1	0.208333333	24
17	24	2001	1	80839.82	1	AFTER	N	1	0.041666667	24
17	24	2001	1	75470.71	2	AFTER	N	1	0.041666667	24
17	24	2001	0	88647.3	3	AFTER	N	2	0.000000000	24
17	24	2001	2	92337.98	4	AFTER	N	2	0.083333333	24
17	24	2001	1	95831.46	5	AFTER	N	2	0.041666667	24
17	24	2001	2	94224.96	6	AFTER	N	3	0.083333333	24
17	24	2001	3	95679.63	7	AFTER	N	3	0.125000000	24
17	24	2001	3	94808.58	8	AFTER	N	3	0.125000000	24
17	24	2001	3	91502.77	9	AFTER	N	4	0.125000000	24
17	24	2001	2	92594.99	10	AFTER	N	4	0.083333333	24
17	24	2001	1	86947.73	11	AFTER	N	4	0.041666667	24
17	24	2001	1	90061.76	12	AFTER	N	1	0.041666667	24
17	24	2002	4	83272.65	1	AFTER	N	1	0.166666667	24
17	24	2002	1	77741.96	2	AFTER	N	1	0.041666667	24
17	24	2002	4	91315.1	3	AFTER	N	2	0.166666667	24
17	24	2002	2	95116.85	4	AFTER	N	2	0.083333333	24
17	24	2002	2	98715.46	5	AFTER	N	2	0.083333333	24
17	24	2002	3	97060.61	6	AFTER	N	3	0.125000000	24
17	24	2002	3	98559.06	7	AFTER	N	3	0.125000000	24
17	24	2002	4	97661.8	8	AFTER	N	3	0.166666667	24
17	24	2002	2	94256.5	9	AFTER	N	4	0.083333333	24
17	24	2002	4	95381.6	10	AFTER	N	4	0.166666667	24
17	24	2002	3	89564.38	11	AFTER	N	4	0.125000000	24
17	24	2002	3	92772.12	12	AFTER	N	1	0.125000000	24
17	24	2003	1	83178.99	1	AFTER	N	1	0.041666667	24
17	24	2003	2	77654.52	2	AFTER	N	1	0.083333333	24
17	24	2003	6	91212.39	3	AFTER	N	2	0.250000000	24
17	24	2003	4	95009.86	4	AFTER	N	2	0.166666667	24
17	24	2003	3	98604.43	5	AFTER	N	2	0.125000000	24
17	24	2003	3	96951.44	6	AFTER	N	3	0.125000000	24
17	24	2003	1	98448.2	7	AFTER	N	3	0.041666667	24
17	24	2003	2	97551.95	8	AFTER	N	3	0.083333333	24
17	24	2003	2	94150.48	9	AFTER	N	4	0.083333333	24
17	24	2003	3	95274.31	10	AFTER	N	4	0.125000000	24
17	24	2003	4	89463.64	11	AFTER	N	4	0.166666667	24
17	24	2003	2	92667.77	12	AFTER	N	1	0.083333333	24

17	24	2004	3	84364.98	1	AFTER	N	1	0.125000000	24
17	24	2004	1	81574.66	2	AFTER	N	1	0.041666667	24
17	24	2004	3	92512.92	3	AFTER	N	2	0.125000000	24
17	24	2004	1	96364.54	4	AFTER	N	2	0.041666667	24
17	24	2004	4	100010.36	5	AFTER	N	2	0.166666667	24
17	24	2004	1	98333.8	6	AFTER	N	3	0.041666667	24
17	24	2004	3	99851.91	7	AFTER	N	3	0.125000000	24
17	24	2004	1	98942.87	8	AFTER	N	3	0.041666667	24
17	24	2004	2	95492.91	9	AFTER	N	4	0.083333333	24
17	24	2004	2	96632.76	10	AFTER	N	4	0.083333333	24
17	24	2004	3	90739.24	11	AFTER	N	4	0.125000000	24
17	24	2004	4	93989.06	12	AFTER	N	1	0.166666667	24
17	23.6	2005	6	84646.16	1	AFTER	N	1	0.254237288	24
17	23.6	2005	4	79024.25	2	AFTER	N	1	0.169491525	24
17	23.6	2005	1	92821.26	3	AFTER	N	2	0.042372881	24
17	23.6	2005	3	96685.72	4	AFTER	N	2	0.127118644	24
17	23.6	2005	1	100343.69	5	AFTER	N	2	0.042372881	24
17	23.6	2005	5	98661.54	6	AFTER	N	3	0.211864407	24
17	23.6	2005	3	100184.71	7	AFTER	N	3	0.127118644	24
17	23.6	2005	1	99272.65	8	AFTER	N	3	0.042372881	24
17	23.6	2005	4	95811.18	9	AFTER	N	4	0.169491525	24
17	23.6	2005	3	96954.83	10	AFTER	N	4	0.127118644	24
17	23.6	2005	1	91041.67	11	AFTER	N	4	0.042372881	24
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18	2.02	1984	1	48378.87	2	BEFORE	N	1	0.495049505	144
18	2.02	1984	1	54865.95	3	BEFORE	N	2	0.495049505	144
18	2.02	1984	1	57150.2	4	BEFORE	N	2	0.495049505	144
18	2.02	1984	1	59312.4	5	BEFORE	N	2	0.495049505	144
18	2.02	1984	2	58318.09	6	BEFORE	N	3	0.990099010	144
18	2.02	1984	2	59218.42	7	BEFORE	N	3	0.990099010	144
18	2.02	1984	0	58679.31	8	BEFORE	N	3	0.000000000	144
18	2.02	1984	1	56633.26	9	BEFORE	N	4	0.495049505	144
18	2.02	1984	1	57309.27	10	BEFORE	N	4	0.495049505	144
18	2.02	1984	1	53814.05	11	BEFORE	N	4	0.495049505	144
18	2.02	1984	2	55741.39	12	BEFORE	N	1	0.990099010	144
18	2.02	1985	0	49112.28	1	BEFORE	N	1	0.000000000	144
18	2.02	1985	2	45850.41	2	BEFORE	N	1	0.990099010	144
18	2.02	1985	2	53855.53	3	BEFORE	N	2	0.990099010	144
18	2.02	1985	2	56097.72	4	BEFORE	N	2	0.990099010	144
18	2.02	1985	0	58220.1	5	BEFORE	N	2	0.000000000	144
18	2.02	1985	1	57244.1	6	BEFORE	N	3	0.495049505	144
18	2.02	1985	1	58127.85	7	BEFORE	N	3	0.495049505	144
18	2.02	1985	0	57598.67	8	BEFORE	N	3	0.000000000	144
18	2.02	1985	1	55590.3	9	BEFORE	N	4	0.495049505	144
18	2.02	1985	0	56253.86	10	BEFORE	N	4	0.000000000	144
18	2.02	1985	2	52823	11	BEFORE	N	4	0.990099010	144
18	2.02	1985	1	54714.85	12	BEFORE	N	1	0.495049505	144
18	2.02	1986	0	50033.71	1	BEFORE	N	1	0.000000000	144
18	2.02	1986	2	46710.64	2	BEFORE	N	1	0.990099010	144
18	2.02	1986	1	54865.95	3	BEFORE	N	2	0.495049505	144
18	2.02	1986	1	57150.2	4	BEFORE	N	2	0.495049505	144
18	2.02	1986	4	59312.4	5	BEFORE	N	2	1.980198020	144
18	2.02	1986	1	58318.09	6	BEFORE	N	3	0.495049505	144
18	2.02	1986	0	59218.42	7	BEFORE	N	3	0.000000000	144
18	2.02	1986	0	58679.31	8	BEFORE	N	3	0.000000000	144
18	2.02	1986	0	56633.26	9	BEFORE	N	4	0.000000000	144
18	2.02	1986	0	57309.27	10	BEFORE	N	4	0.000000000	144
18	2.02	1986	2	53814.05	11	BEFORE	N	4	0.990099010	144
18	2.02	1986	0	55741.39	12	BEFORE	N	1	0.000000000	144
18	2.02	1987	1	50871.58	1	BEFORE	N	1	0.495049505	144
18	2.02	1987	1	47492.86	2	BEFORE	N	1	0.495049505	144
18	2.02	1987	2	55784.74	3	BEFORE	N	2	0.990099010	144
18	2.02	1987	0	58107.24	4	BEFORE	N	2	0.000000000	144
18	2.02	1987	0	60305.65	5	BEFORE	N	2	0.000000000	144
18	2.02	1987	1	59294.69	6	BEFORE	N	3	0.495049505	144
18	2.02	1987	0	60210.1	7	BEFORE	N	3	0.000000000	144
18	2.02	1987	1	59661.96	8	BEFORE	N	3	0.495049505	144

18	2.02	1987	1	57581.65	9	BEFORE	N	4	0.495049505	144
18	2.02	1987	0	58268.98	10	BEFORE	N	4	0.000000000	144
18	2.02	1987	0	54715.22	11	BEFORE	N	4	0.000000000	144
18	2.02	1987	1	56674.84	12	BEFORE	N	1	0.495049505	144
18	2.02	1988	0	53338.77	1	BEFORE	N	1	0.000000000	144
18	2.02	1988	0	51574.62	2	BEFORE	N	1	0.000000000	144
18	2.02	1988	0	58490.21	3	BEFORE	N	2	0.000000000	144
18	2.02	1988	1	60925.35	4	BEFORE	N	2	0.495049505	144
18	2.02	1988	0	63230.38	5	BEFORE	N	2	0.000000000	144
18	2.02	1988	0	62170.39	6	BEFORE	N	3	0.000000000	144
18	2.02	1988	0	63130.2	7	BEFORE	N	3	0.000000000	144
18	2.02	1988	2	62555.47	8	BEFORE	N	3	0.990099010	144
18	2.02	1988	2	60374.27	9	BEFORE	N	4	0.990099010	144
18	2.02	1988	0	61094.93	10	BEFORE	N	4	0.000000000	144
18	2.02	1988	1	57368.82	11	BEFORE	N	4	0.495049505	144
18	2.02	1988	2	59423.48	12	BEFORE	N	1	0.990099010	144
18	2.02	1989	0	54987.82	1	BEFORE	N	1	0.000000000	144
18	2.02	1989	1	51335.71	2	BEFORE	N	1	0.495049505	144
18	2.02	1989	0	60298.52	3	BEFORE	N	2	0.000000000	144
18	2.02	1989	1	62808.95	4	BEFORE	N	2	0.495049505	144
18	2.02	1989	1	65185.24	5	BEFORE	N	2	0.495049505	144
18	2.02	1989	4	64092.48	6	BEFORE	N	3	1.980198020	144
18	2.02	1989	1	65081.96	7	BEFORE	N	3	0.495049505	144
18	2.02	1989	1	64489.47	8	BEFORE	N	3	0.495049505	144
18	2.02	1989	2	62240.83	9	BEFORE	N	4	0.990099010	144
18	2.02	1989	0	62983.77	10	BEFORE	N	4	0.000000000	144
18	2.02	1989	1	59142.47	11	BEFORE	N	4	0.495049505	144
18	2.02	1989	0	61260.65	12	BEFORE	N	1	0.000000000	144
18	2.02	1990	3	56590.45	1	BEFORE	N	1	1.485148515	144
18	2.02	1990	0	52831.9	2	BEFORE	N	1	0.000000000	144
18	2.02	1990	0	62055.93	3	BEFORE	N	2	0.000000000	144
18	2.02	1990	0	64639.53	4	BEFORE	N	2	0.000000000	144
18	2.02	1990	2	67085.08	5	BEFORE	N	2	0.990099010	144
18	2.02	1990	3	65960.47	6	BEFORE	N	3	1.485148515	144
18	2.02	1990	3	66978.79	7	BEFORE	N	3	1.485148515	144
18	2.02	1990	0	66369.02	8	BEFORE	N	3	0.000000000	144
18	2.02	1990	0	64054.85	9	BEFORE	N	4	0.000000000	144
18	2.02	1990	1	64819.44	10	BEFORE	N	4	0.495049505	144
18	2.02	1990	1	60866.18	11	BEFORE	N	4	0.495049505	144
18	2.02	1990	1	63046.1	12	BEFORE	N	1	0.495049505	144
18	2.02	1991	2	58024.22	1	BEFORE	N	1	0.990099010	144
18	2.02	1991	0	54170.45	2	BEFORE	N	1	0.000000000	144
18	2.02	1991	1	63628.18	3	BEFORE	N	2	0.495049505	144
18	2.02	1991	0	66277.24	4	BEFORE	N	2	0.000000000	144
18	2.02	1991	0	68784.75	5	BEFORE	N	2	0.000000000	144
18	2.02	1991	1	67631.65	6	BEFORE	N	3	0.495049505	144
18	2.02	1991	1	68675.76	7	BEFORE	N	3	0.495049505	144
18	2.02	1991	1	68050.55	8	BEFORE	N	3	0.495049505	144
18	2.02	1991	0	65677.75	9	BEFORE	N	4	0.000000000	144
18	2.02	1991	2	66461.71	10	BEFORE	N	4	0.990099010	144
18	2.02	1991	1	62408.29	11	BEFORE	N	4	0.495049505	144
18	2.02	1991	3	64643.44	12	BEFORE	N	1	1.485148515	144
18	2.02	1992	1	59634.4	1	BEFORE	N	1	0.495049505	144
18	2.02	1992	3	57662.02	2	BEFORE	N	1	1.485148515	144
18	2.02	1992	0	65393.87	3	BEFORE	N	2	0.000000000	144
18	2.02	1992	1	68116.43	4	BEFORE	N	2	0.495049505	144
18	2.02	1992	0	70693.52	5	BEFORE	N	2	0.000000000	144
18	2.02	1992	1	69508.43	6	BEFORE	N	3	0.495049505	144
18	2.02	1992	0	70581.52	7	BEFORE	N	3	0.000000000	144
18	2.02	1992	4	69938.96	8	BEFORE	N	3	1.980198020	144
18	2.02	1992	1	67500.3	9	BEFORE	N	4	0.495049505	144
18	2.02	1992	2	68306.02	10	BEFORE	N	4	0.990099010	144
18	2.02	1992	0	64140.12	11	BEFORE	N	4	0.000000000	144
18	2.02	1992	4	66437.29	12	BEFORE	N	1	1.980198020	144
18	2.02	1993	0	62040.66	1	BEFORE	N	1	0.000000000	144
18	2.02	1993	1	57920.13	2	BEFORE	N	1	0.495049505	144
18	2.02	1993	3	68032.53	3	BEFORE	N	2	1.485148515	144
18	2.02	1993	0	70864.95	4	BEFORE	N	2	0.000000000	144

18	2.02	1993	2	73546.03	5	BEFORE	N	2	0.990099010	144
18	2.02	1993	5	72313.11	6	BEFORE	N	3	2.475247525	144
18	2.02	1993	2	73429.5	7	BEFORE	N	3	0.990099010	144
18	2.02	1993	1	72761.01	8	BEFORE	N	3	0.495049505	144
18	2.02	1993	1	70223.96	9	BEFORE	N	4	0.495049505	144
18	2.02	1993	4	71062.19	10	BEFORE	N	4	1.980198020	144
18	2.02	1993	1	66728.19	11	BEFORE	N	4	0.495049505	144
18	2.02	1993	1	69118.06	12	BEFORE	N	1	0.495049505	144
18	2.02	1994	0	63611.38	1	BEFORE	N	1	0.000000000	144
18	2.02	1994	3	59386.52	2	BEFORE	N	1	1.485148515	144
18	2.02	1994	1	69754.94	3	BEFORE	N	2	0.495049505	144
18	2.02	1994	0	72659.07	4	BEFORE	N	2	0.000000000	144
18	2.02	1994	0	75408.03	5	BEFORE	N	2	0.000000000	144
18	2.02	1994	0	74143.9	6	BEFORE	N	3	0.000000000	144
18	2.02	1994	0	75288.55	7	BEFORE	N	3	0.000000000	144
18	2.02	1994	0	74603.14	8	BEFORE	N	3	0.000000000	144
18	2.02	1994	1	72001.86	9	BEFORE	N	4	0.495049505	144
18	2.02	1994	1	72861.31	10	BEFORE	N	4	0.495049505	144
18	2.02	1994	1	68417.59	11	BEFORE	N	4	0.495049505	144
18	2.02	1994	0	70867.95	12	BEFORE	N	1	0.000000000	144
18	2.02	1995	1	65125.81	1	BEFORE	N	1	0.495049505	144
18	2.02	1995	1	60800.37	2	BEFORE	N	1	0.495049505	144
18	2.02	1995	0	71415.64	3	BEFORE	N	2	0.000000000	144
18	2.02	1995	1	74388.91	4	BEFORE	N	2	0.495049505	144
18	2.02	1995	0	77203.31	5	BEFORE	N	2	0.000000000	144
18	2.02	1995	1	75909.09	6	BEFORE	N	3	0.495049505	144
18	2.02	1995	0	77080.99	7	BEFORE	N	3	0.000000000	144
18	2.02	1995	0	76379.26	8	BEFORE	N	3	0.000000000	144
18	2.02	1995	0	73716.05	9	BEFORE	N	4	0.000000000	144
18	2.02	1995	1	74595.96	10	BEFORE	N	4	0.495049505	144
18	2.02	1995	2	70046.44	11	BEFORE	N	4	0.990099010	144
18	2.02	1995	1	72555.15	12	BEFORE	N	1	0.495049505	144
18	2.02	1996	0	67392.81	1	AFTER	N	1	0.000000000	144
18	2.02	1996	0	65163.84	2	AFTER	N	1	0.000000000	144
18	2.02	1996	0	73901.59	3	AFTER	N	2	0.000000000	144
18	2.02	1996	0	76978.36	4	AFTER	N	2	0.000000000	144
18	2.02	1996	0	79890.73	5	AFTER	N	2	0.000000000	144
18	2.02	1996	0	78551.45	6	AFTER	N	3	0.000000000	144
18	2.02	1996	0	79764.15	7	AFTER	N	3	0.000000000	144
18	2.02	1996	0	79037.99	8	AFTER	N	3	0.000000000	144
18	2.02	1996	0	76282.08	9	AFTER	N	4	0.000000000	144
18	2.02	1996	1	77192.62	10	AFTER	N	4	0.495049505	144
18	2.02	1996	2	72484.73	11	AFTER	N	4	0.990099010	144
18	2.02	1996	1	75080.77	12	AFTER	N	1	0.495049505	144
18	2.02	1997	0	68468.58	1	AFTER	N	1	0.000000000	144
18	2.02	1997	0	63921.13	2	AFTER	N	1	0.000000000	144
18	2.02	1997	1	75081.26	3	AFTER	N	2	0.495049505	144
18	2.02	1997	0	78207.14	4	AFTER	N	2	0.000000000	144
18	2.02	1997	0	81166	5	AFTER	N	2	0.000000000	144
18	2.02	1997	0	79805.34	6	AFTER	N	3	0.000000000	144
18	2.02	1997	0	81037.4	7	AFTER	N	3	0.000000000	144
18	2.02	1997	0	80299.65	8	AFTER	N	3	0.000000000	144
18	2.02	1997	0	77499.74	9	AFTER	N	4	0.000000000	144
18	2.02	1997	1	78424.82	10	AFTER	N	4	0.495049505	144
18	2.02	1997	0	73641.78	11	AFTER	N	4	0.000000000	144
18	2.02	1997	1	76279.25	12	AFTER	N	1	0.495049505	144
18	2.02	1998	1	67430.94	1	AFTER	N	1	0.495049505	144
18	2.02	1998	1	62952.41	2	AFTER	N	1	0.495049505	144
18	2.02	1998	0	73943.4	3	AFTER	N	2	0.000000000	144
18	2.02	1998	0	77021.91	4	AFTER	N	2	0.000000000	144
18	2.02	1998	0	79935.93	5	AFTER	N	2	0.000000000	144
18	2.02	1998	0	78595.9	6	AFTER	N	3	0.000000000	144
18	2.02	1998	0	79809.28	7	AFTER	N	3	0.000000000	144
18	2.02	1998	0	79082.71	8	AFTER	N	3	0.000000000	144
18	2.02	1998	0	76325.23	9	AFTER	N	4	0.000000000	144
18	2.02	1998	1	77236.29	10	AFTER	N	4	0.495049505	144
18	2.02	1998	1	72525.74	11	AFTER	N	4	0.495049505	144
18	2.02	1998	0	75123.24	12	AFTER	N	1	0.000000000	144

18	2.03	1999	3	68711.37	1	AFTER	N	1	1.477832512	144
18	2.03	1999	0	64147.79	2	AFTER	N	1	0.000000000	144
18	2.03	1999	2	75347.49	3	AFTER	N	2	0.985221675	144
18	2.03	1999	1	78484.46	4	AFTER	N	2	0.492610837	144
18	2.03	1999	0	81453.81	5	AFTER	N	2	0.000000000	144
18	2.03	1999	0	80088.33	6	AFTER	N	3	0.000000000	144
18	2.03	1999	0	81324.75	7	AFTER	N	3	0.000000000	144
18	2.03	1999	1	80584.39	8	AFTER	N	3	0.492610837	144
18	2.03	1999	1	77774.55	9	AFTER	N	4	0.492610837	144
18	2.03	1999	0	78702.91	10	AFTER	N	4	0.000000000	144
18	2.03	1999	2	73902.91	11	AFTER	N	4	0.985221675	144
18	2.03	1999	1	76549.74	12	AFTER	N	1	0.492610837	144
18	2.03	2000	1	68356.31	1	AFTER	N	1	0.492610837	144
18	2.03	2000	3	66095.47	2	AFTER	N	1	1.477832512	144
18	2.03	2000	2	74958.14	3	AFTER	N	2	0.985221675	144
18	2.03	2000	1	78078.9	4	AFTER	N	2	0.492610837	144
18	2.03	2000	1	81032.91	5	AFTER	N	2	0.492610837	144
18	2.03	2000	0	79674.49	6	AFTER	N	3	0.000000000	144
18	2.03	2000	1	80904.52	7	AFTER	N	3	0.492610837	144
18	2.03	2000	1	80167.98	8	AFTER	N	3	0.492610837	144
18	2.03	2000	0	77372.66	9	AFTER	N	4	0.000000000	144
18	2.03	2000	0	78296.22	10	AFTER	N	4	0.000000000	144
18	2.03	2000	0	73521.03	11	AFTER	N	4	0.000000000	144
18	2.03	2000	2	76154.18	12	AFTER	N	1	0.985221675	144
18	2.03	2001	1	76011.87	1	AFTER	N	1	0.492610837	144
18	2.03	2001	0	70963.41	2	AFTER	N	1	0.000000000	144
18	2.03	2001	1	83353.07	3	AFTER	N	2	0.492610837	144
18	2.03	2001	1	86823.34	4	AFTER	N	2	0.492610837	144
18	2.03	2001	0	90108.18	5	AFTER	N	2	0.000000000	144
18	2.03	2001	3	88597.62	6	AFTER	N	3	1.477832512	144
18	2.03	2001	0	89965.41	7	AFTER	N	3	0.000000000	144
18	2.03	2001	2	89146.38	8	AFTER	N	3	0.985221675	144
18	2.03	2001	1	86038	9	AFTER	N	4	0.492610837	144
18	2.03	2001	2	87065	10	AFTER	N	4	0.985221675	144
18	2.03	2001	2	81755.01	11	AFTER	N	4	0.985221675	144
18	2.03	2001	2	84683.05	12	AFTER	N	1	0.985221675	144
18	2.03	2002	0	77432.09	1	AFTER	N	1	0.000000000	144
18	2.03	2002	0	72289.31	2	AFTER	N	1	0.000000000	144
18	2.03	2002	0	84910.45	3	AFTER	N	2	0.000000000	144
18	2.03	2002	0	88445.56	4	AFTER	N	2	0.000000000	144
18	2.03	2002	1	91791.77	5	AFTER	N	2	0.492610837	144
18	2.03	2002	1	90252.99	6	AFTER	N	3	0.492610837	144
18	2.03	2002	1	91646.34	7	AFTER	N	3	0.492610837	144
18	2.03	2002	0	90812.01	8	AFTER	N	3	0.000000000	144
18	2.03	2002	1	87645.55	9	AFTER	N	4	0.492610837	144
18	2.03	2002	0	88691.73	10	AFTER	N	4	0.000000000	144
18	2.03	2002	2	83282.53	11	AFTER	N	4	0.985221675	144
18	2.03	2002	1	86265.28	12	AFTER	N	1	0.492610837	144
18	2.03	2003	0	77787.14	1	AFTER	N	1	0.000000000	144
18	2.03	2003	2	72620.78	2	AFTER	N	1	0.985221675	144
18	2.03	2003	2	85299.8	3	AFTER	N	2	0.985221675	144
18	2.03	2003	0	88851.11	4	AFTER	N	2	0.000000000	144
18	2.03	2003	1	92212.67	5	AFTER	N	2	0.492610837	144
18	2.03	2003	2	90666.83	6	AFTER	N	3	0.985221675	144
18	2.03	2003	0	92066.57	7	AFTER	N	3	0.000000000	144
18	2.03	2003	0	91228.41	8	AFTER	N	3	0.000000000	144
18	2.03	2003	1	88047.43	9	AFTER	N	4	0.492610837	144
18	2.03	2003	1	89098.42	10	AFTER	N	4	0.492610837	144
18	2.03	2003	3	83664.41	11	AFTER	N	4	1.477832512	144
18	2.03	2003	0	86660.84	12	AFTER	N	1	0.000000000	144
18	2.03	2004	0	78576.5	1	AFTER	N	1	0.000000000	144
18	2.03	2004	0	75977.63	2	AFTER	N	1	0.000000000	144
18	2.03	2004	0	86165.39	3	AFTER	N	2	0.000000000	144
18	2.03	2004	0	89752.75	4	AFTER	N	2	0.000000000	144
18	2.03	2004	0	93148.42	5	AFTER	N	2	0.000000000	144
18	2.03	2004	0	91586.89	6	AFTER	N	3	0.000000000	144
18	2.03	2004	0	93000.83	7	AFTER	N	3	0.000000000	144
18	2.03	2004	2	92154.17	8	AFTER	N	3	0.985221675	144

18	2.03	2004	0	88940.91	9	AFTER	N	4	0.000000000	144
18	2.03	2004	1	90002.56	10	AFTER	N	4	0.492610837	144
18	2.03	2004	1	84513.41	11	AFTER	N	4	0.492610837	144
18	2.03	2004	0	87540.25	12	AFTER	N	1	0.000000000	144
18	2.04	2005	2	83024.42	1	AFTER	N	1	0.980392157	144
18	2.04	2005	2	77510.22	2	AFTER	N	1	0.980392157	144
18	2.04	2005	1	91042.89	3	AFTER	N	2	0.490196078	144
18	2.04	2005	0	94833.31	4	AFTER	N	2	0.000000000	144
18	2.04	2005	1	98421.2	5	AFTER	N	2	0.490196078	144
18	2.04	2005	1	96771.28	6	AFTER	N	3	0.490196078	144
18	2.04	2005	1	98265.26	7	AFTER	N	3	0.490196078	144
18	2.04	2005	0	97370.68	8	AFTER	N	3	0.000000000	144
18	2.04	2005	0	93975.53	9	AFTER	N	4	0.000000000	144
18	2.04	2005	0	95097.27	10	AFTER	N	4	0.000000000	144
18	2.04	2005	1	89297.4	11	AFTER	N	4	0.490196078	144
18	2.04	2005	2	92495.58	12	AFTER	N	1	0.980392157	144
19	6.65	1982	2	153124.36	1	BEFORE	N	1	0.300751880	192
19	6.65	1982	1	142954.36	2	BEFORE	N	1	0.150375940	192
19	6.65	1982	1	167913.07	3	BEFORE	N	2	0.150375940	192
19	6.65	1982	2	174903.85	4	BEFORE	N	2	0.300751880	192
19	6.65	1982	6	181521.09	5	BEFORE	N	2	0.902255639	192
19	6.65	1982	4	178478.1	6	BEFORE	N	3	0.601503759	192
19	6.65	1982	3	181233.49	7	BEFORE	N	3	0.451127820	192
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19	6.62	2003	3	128085.16 1	AFTER	N	1	0.453172205	192
19	6.62	2003	0	119578.17 2	AFTER	N	1	0.000000000	192
19	6.62	2003	3	140455.58 3	AFTER	N	2	0.453172205	192
19	6.62	2003	4	146303.22 4	AFTER	N	2	0.604229607	192

19	6.62	2003	3	151838.4	5	AFTER	N	2	0.453172205	192
19	6.62	2003	3	149293	6	AFTER	N	3	0.453172205	192
19	6.62	2003	2	151597.83	7	AFTER	N	3	0.302114804	192
19	6.62	2003	2	150217.71	8	AFTER	N	3	0.302114804	192
19	6.62	2003	5	144979.87	9	AFTER	N	4	0.755287009	192
19	6.62	2003	3	146710.43	10	AFTER	N	4	0.453172205	192
19	6.62	2003	2	137762.74	11	AFTER	N	4	0.302114804	192
19	6.62	2003	2	142696.69	12	AFTER	N	1	0.302114804	192
19	6.62	2004	2	128208.84	1	AFTER	N	1	0.302114804	192
19	6.62	2004	1	123968.41	2	AFTER	N	1	0.151057402	192
19	6.62	2004	3	140591.21	3	AFTER	N	2	0.453172205	192
19	6.62	2004	2	146444.49	4	AFTER	N	2	0.302114804	192
19	6.62	2004	1	151985.01	5	AFTER	N	2	0.151057402	192
19	6.62	2004	2	149437.16	6	AFTER	N	3	0.302114804	192
19	6.62	2004	1	151744.21	7	AFTER	N	3	0.151057402	192
19	6.62	2004	3	150362.76	8	AFTER	N	3	0.453172205	192
19	6.62	2004	2	145119.87	9	AFTER	N	4	0.302114804	192
19	6.62	2004	3	146852.1	10	AFTER	N	4	0.453172205	192
19	6.62	2004	1	137895.76	11	AFTER	N	4	0.151057402	192
19	6.62	2004	8	142834.48	12	AFTER	N	1	1.208459215	192
19	6.62	2005	5	105198.55	1	AFTER	N	1	0.755287009	192
19	6.62	2005	0	98211.61	2	AFTER	N	1	0.000000000	192
19	6.62	2005	1	115358.59	3	AFTER	N	2	0.151057402	192
19	6.62	2005	1	120161.35	4	AFTER	N	2	0.151057402	192
19	6.62	2005	0	124707.49	5	AFTER	N	2	0.000000000	192
19	6.62	2005	2	122616.91	6	AFTER	N	3	0.302114804	192
19	6.62	2005	1	124509.9	7	AFTER	N	3	0.151057402	192
19	6.62	2005	1	123376.39	8	AFTER	N	3	0.151057402	192
19	6.62	2005	2	119074.46	9	AFTER	N	4	0.302114804	192
19	6.62	2005	4	120495.8	10	AFTER	N	4	0.604229607	192
19	6.62	2005	4	113146.91	11	AFTER	N	4	0.604229607	192
19	6.62	2005	3	117199.25	12	AFTER	N	1	0.453172205	192
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20	5.86	1982	1	161714.57	2	BEFORE	Y	1	0.170648464	288
20	5.86	1982	1	189948.67	3	BEFORE	Y	2	0.170648464	288
20	5.86	1982	5	197856.87	4	BEFORE	Y	2	0.853242321	288
20	5.86	1982	2	205342.51	5	BEFORE	Y	2	0.341296928	288
20	5.86	1982	3	201900.18	6	BEFORE	Y	3	0.511945392	288
20	5.86	1982	6	205017.17	7	BEFORE	Y	3	1.023890785	288
20	5.86	1982	1	203150.73	8	BEFORE	Y	3	0.170648464	288
20	5.86	1982	1	196067.21	9	BEFORE	Y	4	0.170648464	288
20	5.86	1982	3	198407.58	10	BEFORE	Y	4	0.511945392	288
20	5.86	1982	3	186306.94	11	BEFORE	Y	4	0.511945392	288
20	5.86	1982	6	192979.5	12	BEFORE	Y	1	1.023890785	288
20	5.86	1983	3	176087.85	1	BEFORE	Y	1	0.511945392	288
20	5.86	1983	3	164392.68	2	BEFORE	Y	1	0.511945392	288
20	5.86	1983	3	193094.36	3	BEFORE	Y	2	0.511945392	288
20	5.86	1983	6	201133.52	4	BEFORE	Y	2	1.023890785	288
20	5.86	1983	4	208743.13	5	BEFORE	Y	2	0.682593857	288
20	5.86	1983	4	205243.79	6	BEFORE	Y	3	0.682593857	288
20	5.86	1983	3	208412.4	7	BEFORE	Y	3	0.511945392	288
20	5.86	1983	2	206515.05	8	BEFORE	Y	3	0.341296928	288
20	5.86	1983	8	199314.22	9	BEFORE	Y	4	1.365187713	288
20	5.86	1983	5	201693.35	10	BEFORE	Y	4	0.853242321	288
20	5.86	1983	4	189392.31	11	BEFORE	Y	4	0.682593857	288
20	5.86	1983	12	196175.37	12	BEFORE	Y	1	2.047781570	288
20	5.86	1984	5	182958.14	1	BEFORE	Y	1	0.853242321	288
20	5.86	1984	5	176906.91	2	BEFORE	Y	1	0.853242321	288
20	5.86	1984	3	200628.18	3	BEFORE	Y	2	0.511945392	288
20	5.86	1984	5	208981	4	BEFORE	Y	2	0.853242321	288
20	5.86	1984	1	216887.51	5	BEFORE	Y	2	0.170648464	288
20	5.86	1984	1	213251.64	6	BEFORE	Y	3	0.170648464	288
20	5.86	1984	6	216543.88	7	BEFORE	Y	3	1.023890785	288
20	5.86	1984	4	214572.5	8	BEFORE	Y	3	0.682593857	288
20	5.86	1984	4	207090.72	9	BEFORE	Y	4	0.682593857	288
20	5.86	1984	5	209562.67	10	BEFORE	Y	4	0.853242321	288
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20	5.86	1984	4	203829.41	12	BEFORE	Y	1	0.682593857	288

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20	5.86	1985	1	167661.08 2	BEFORE Y	1	0.170648464	288
20	5.86	1985	4	196933.4 3	BEFORE Y	2	0.682593857	288
20	5.86	1985	4	205132.39 4	BEFORE Y	2	0.682593857	288
20	5.86	1985	7	212893.29 5	BEFORE Y	2	1.194539249	288
20	5.86	1985	3	209324.38 6	BEFORE Y	3	0.511945392	288
20	5.86	1985	2	212555.99 7	BEFORE Y	3	0.341296928	288
20	5.86	1985	3	210620.92 8	BEFORE Y	3	0.511945392	288
20	5.86	1985	3	203276.92 9	BEFORE Y	4	0.511945392	288
20	5.86	1985	9	205703.35 10	BEFORE Y	4	1.535836177	288
20	5.86	1985	17	193157.75 11	BEFORE Y	4	2.901023891	288
20	5.86	1985	10	200075.67 12	BEFORE Y	1	1.706484642	288
20	5.86	1986	0	182958.14 1	BEFORE Y	1	0.000000000	288
20	5.86	1986	2	170806.67 2	BEFORE Y	1	0.341296928	288
20	5.86	1986	5	200628.18 3	BEFORE Y	2	0.853242321	288
20	5.86	1986	4	208981 4	BEFORE Y	2	0.682593857	288
20	5.86	1986	7	216887.51 5	BEFORE Y	2	1.194539249	288
20	5.86	1986	6	213251.64 6	BEFORE Y	3	1.023890785	288
20	5.86	1986	5	216543.88 7	BEFORE Y	3	0.853242321	288
20	5.86	1986	7	214572.5 8	BEFORE Y	3	1.194539249	288
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20	5.86	1986	9	196781.69 11	BEFORE Y	4	1.535836177	288
20	5.86	1986	4	203829.41 12	BEFORE Y	1	0.682593857	288
20	5.86	1987	2	186021.98 1	BEFORE Y	1	0.341296928	288
20	5.86	1987	2	173667.02 2	BEFORE Y	1	0.341296928	288
20	5.86	1987	0	203987.92 3	BEFORE Y	2	0.000000000	288
20	5.86	1987	3	212480.62 4	BEFORE Y	2	0.511945392	288
20	5.86	1987	5	220519.53 5	BEFORE Y	2	0.853242321	288
20	5.86	1987	8	216822.77 6	BEFORE Y	3	1.365187713	288
20	5.86	1987	6	220170.14 7	BEFORE Y	3	1.023890785	288
20	5.86	1987	3	218165.75 8	BEFORE Y	3	0.511945392	288
20	5.86	1987	4	210558.69 9	BEFORE Y	4	0.682593857	288
20	5.86	1987	3	213072.03 10	BEFORE Y	4	0.511945392	288
20	5.86	1987	1	200077.02 11	BEFORE Y	4	0.170648464	288
20	5.86	1987	8	207242.76 12	BEFORE Y	1	1.365187713	288
20	5.86	1988	4	195043.75 1	BEFORE Y	1	0.682593857	288
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20	5.86	1988	3	213881.01 3	BEFORE Y	2	0.511945392	288
20	5.86	1988	5	222785.59 4	BEFORE Y	2	0.853242321	288
20	5.86	1988	9	231214.38 5	BEFORE Y	2	1.535836177	288
20	5.86	1988	7	227338.33 6	BEFORE Y	3	1.194539249	288
20	5.86	1988	4	230848.04 7	BEFORE Y	3	0.682593857	288
20	5.86	1988	7	228746.44 8	BEFORE Y	3	1.194539249	288
20	5.86	1988	4	220770.45 9	BEFORE Y	4	0.682593857	288
20	5.86	1988	4	223405.68 10	BEFORE Y	4	0.682593857	288
20	5.86	1988	3	209780.44 11	BEFORE Y	4	0.511945392	288
20	5.86	1988	5	217293.7 12	BEFORE Y	1	0.853242321	288
20	5.86	1989	8	201073.82 1	BEFORE Y	1	1.365187713	288
20	5.86	1989	7	187719.17 2	BEFORE Y	1	1.194539249	288
20	5.86	1989	5	220493.46 3	BEFORE Y	2	0.853242321	288
20	5.86	1989	2	229673.34 4	BEFORE Y	2	0.341296928	288
20	5.86	1989	6	238362.72 5	BEFORE Y	2	1.023890785	288
20	5.86	1989	4	234366.84 6	BEFORE Y	3	0.682593857	288
20	5.86	1989	0	237985.06 7	BEFORE Y	3	0.000000000	288
20	5.86	1989	3	235818.48 8	BEFORE Y	3	0.511945392	288
20	5.86	1989	3	227595.9 9	BEFORE Y	4	0.511945392	288
20	5.86	1989	5	230312.61 10	BEFORE Y	4	0.853242321	288
20	5.86	1989	8	216266.11 11	BEFORE Y	4	1.365187713	288
20	5.86	1989	7	224011.66 12	BEFORE Y	1	1.194539249	288
20	5.86	1990	5	206934.15 1	BEFORE Y	1	0.853242321	288
20	5.86	1990	5	193190.27 2	BEFORE Y	1	0.853242321	288
20	5.86	1990	2	226919.78 3	BEFORE Y	2	0.341296928	288
20	5.86	1990	4	236367.21 4	BEFORE Y	2	0.682593857	288
20	5.86	1990	6	245309.84 5	BEFORE Y	2	1.023890785	288
20	5.86	1990	9	241197.5 6	BEFORE Y	3	1.535836177	288
20	5.86	1990	5	244921.17 7	BEFORE Y	3	0.853242321	288
20	5.86	1990	6	242691.45 8	BEFORE Y	3	1.023890785	288

20	5.86	1990	6	234229.22 9	BEFORE Y	4	1.023890785	288
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20	5.86	1990	5	222569.23 11	BEFORE Y	4	0.853242321	288
20	5.86	1990	7	230540.52 12	BEFORE Y	1	1.194539249	288
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20	5.86	1991	5	198084.95 2	BEFORE Y	1	0.853242321	288
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20	5.86	1991	4	251525.02 5	BEFORE Y	2	0.682593857	288
20	5.86	1991	5	247308.49 6	BEFORE Y	3	0.853242321	288
20	5.86	1991	5	251126.51 7	BEFORE Y	3	0.853242321	288
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20	5.86	1991	3	240163.66 9	BEFORE Y	4	0.511945392	288
20	5.86	1991	10	243030.39 10	BEFORE Y	4	1.706484642	288
20	5.86	1991	9	228208.25 11	BEFORE Y	4	1.535836177	288
20	5.86	1991	9	236381.5 12	BEFORE Y	1	1.535836177	288
20	5.86	1992	8	218064.96 1	BEFORE Y	1	1.365187713	288
20	5.86	1992	6	210852.59 2	BEFORE Y	1	1.023890785	288
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20	5.86	1992	6	249081.2 4	BEFORE Y	2	1.023890785	288
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20	5.86	1992	8	254171.3 6	BEFORE Y	3	1.365187713	288
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20	5.86	1992	3	255745.62 8	BEFORE Y	3	0.511945392	288
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20	5.86	1992	7	249774.48 10	BEFORE Y	4	1.194539249	288
20	5.86	1992	4	234541.03 11	BEFORE Y	4	0.682593857	288
20	5.86	1992	12	242941.09 12	BEFORE Y	1	2.047781570	288
20	5.86	1993	6	226863.94 1	BEFORE Y	1	1.023890785	288
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20	5.86	1993	7	248774.38 3	BEFORE Y	2	1.194539249	288
20	5.86	1993	9	259131.69 4	BEFORE Y	2	1.535836177	288
20	5.86	1993	3	268935.58 5	BEFORE Y	2	0.511945392	288
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20	5.86	1993	7	268509.48 7	BEFORE Y	3	1.194539249	288
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20	5.86	1993	5	259852.95 10	BEFORE Y	4	0.853242321	288
20	5.86	1993	8	244004.83 11	BEFORE Y	4	1.365187713	288
20	5.86	1993	11	252743.83 12	BEFORE Y	1	1.877133106	288
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20	5.86	1994	5	217158.55 2	BEFORE Y	1	0.853242321	288
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20	5.86	1994	2	265692.27 4	BEFORE Y	2	0.341296928	288
20	5.86	1994	6	275744.37 5	BEFORE Y	2	1.023890785	288
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20	5.86	1994	9	272801.13 8	BEFORE Y	3	1.535836177	288
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20	5.86	1994	7	266431.78 10	BEFORE Y	4	1.194539249	288
20	5.86	1994	7	250182.43 11	BEFORE Y	4	1.194539249	288
20	5.86	1994	10	259142.68 12	BEFORE Y	1	1.706484642	288
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20	5.86	1995	10	272017.75 4	BEFORE Y	2	1.706484642	288
20	5.86	1995	7	282309.17 5	BEFORE Y	2	1.194539249	288
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20	5.86	1995	11	265312.24 12	BEFORE Y	1	1.877133106	288
20	5.86	1996	8	246435.15 1	BEFORE Y	1	1.365187713	288
20	5.86	1996	2	238284.45 2	BEFORE Y	1	0.341296928	288
20	5.86	1996	9	270235.78 3	BEFORE Y	2	1.535836177	288
20	5.86	1996	6	281486.6 4	BEFORE Y	2	1.023890785	288

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20	5.86	1996	10	287238.92 6	BEFORE Y	3	1.706484642	288
20	5.86	1996	5	291673.39 7	BEFORE Y	3	0.853242321	288
20	5.86	1996	7	289018.05 8	BEFORE Y	3	1.194539249	288
20	5.86	1996	5	278940.49 9	BEFORE Y	4	0.853242321	288
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20	5.86	1997	5	296329.28 7	BEFORE Y	3	0.853242321	288
20	5.86	1997	5	293631.55 8	BEFORE Y	3	0.853242321	288
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20	5.86	1997	6	286775.86 10	BEFORE Y	4	1.023890785	288
20	5.86	1997	6	269285.74 11	BEFORE Y	4	1.023890785	288
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20	5.86	1998	6	317684.91 7	BEFORE Y	3	1.023890785	288
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20	5.88	1999	6	279386.88 4	BEFORE Y	2	1.020408163	288
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20	5.88	1999	0	289497.69 7	BEFORE Y	3	0.000000000	288
20	5.88	1999	8	286862.16 8	BEFORE Y	3	1.360544218	288
20	5.88	1999	6	276859.77 9	BEFORE Y	4	1.020408163	288
20	5.88	1999	4	280164.52 10	BEFORE Y	4	0.680272109	288
20	5.88	1999	6	263077.62 11	BEFORE Y	4	1.020408163	288
20	5.88	1999	5	272499.71 12	BEFORE Y	1	0.850340136	288
20	5.88	2000	8	238073.85 1	BEFORE Y	1	1.360544218	288
20	5.88	2000	4	230199.7 2	BEFORE Y	1	0.680272109	288
20	5.88	2000	12	261066.94 3	BEFORE Y	2	2.040816327	288
20	5.88	2000	8	271936.03 4	BEFORE Y	2	1.360544218	288
20	5.88	2000	5	282224.36 5	BEFORE Y	2	0.850340136	288
20	5.88	2000	6	277493.19 6	BEFORE Y	3	1.020408163	288
20	5.88	2000	10	281777.2 7	BEFORE Y	3	1.700680272	288
20	5.88	2000	5	279211.96 8	BEFORE Y	3	0.850340136	288
20	5.88	2000	2	269476.31 9	BEFORE Y	4	0.340136054	288
20	5.88	2000	3	272692.93 10	BEFORE Y	4	0.510204082	288
20	5.88	2000	5	256061.71 11	BEFORE Y	4	0.850340136	288
20	5.88	2000	8	265232.53 12	BEFORE Y	1	1.360544218	288
20	5.88	2001	0	239499.15 1	BEFORE Y	1	0.000000000	288
20	5.88	2001	2	223592.42 2	BEFORE Y	1	0.340136054	288
20	5.88	2001	1	262629.9 3	BEFORE Y	2	0.170068027	288
20	5.88	2001	7	273564.06 4	BEFORE Y	2	1.190476190	288
20	5.88	2001	8	283913.98 5	BEFORE Y	2	1.360544218	288
20	5.88	2001	9	279154.48 6	BEFORE Y	3	1.530612245	288
20	5.88	2001	8	283464.15 7	BEFORE Y	3	1.360544218	288
20	5.88	2001	2	280883.54 8	BEFORE Y	3	0.340136054	288
20	5.88	2001	6	271089.61 9	BEFORE Y	4	1.020408163	288
20	5.88	2001	9	274325.49 10	BEFORE Y	4	1.530612245	288
20	5.88	2001	8	257594.7 11	BEFORE Y	4	1.360544218	288
20	5.88	2001	6	266820.43 12	BEFORE Y	1	1.020408163	288

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20	5.88	2002	3	232075.97 2	BEFORE Y	1	0.510204082	288
20	5.88	2002	6	272594.62 3	BEFORE Y	2	1.020408163	288
20	5.88	2002	3	283943.64 4	BEFORE Y	2	0.510204082	288
20	5.88	2002	2	294686.26 5	BEFORE Y	2	0.340136054	288
20	5.88	2002	8	289746.18 6	BEFORE Y	3	1.360544218	288
20	5.88	2002	6	294219.36 7	BEFORE Y	3	1.020408163	288
20	5.88	2002	7	291540.84 8	BEFORE Y	3	1.190476190	288
20	5.88	2002	4	281375.31 9	BEFORE Y	4	0.680272109	288
20	5.88	2002	7	284733.96 10	BEFORE Y	4	1.190476190	288
20	5.88	2002	4	267368.37 11	BEFORE Y	4	0.680272109	288
20	5.88	2002	6	276944.14 12	BEFORE Y	1	1.020408163	288
20	5.88	2003	6	275546.57 1	BEFORE Y	1	1.020408163	288
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20	5.88	2003	4	302158.76 3	BEFORE Y	2	0.680272109	288
20	5.88	2003	6	314738.64 4	BEFORE Y	2	1.020408163	288
20	5.88	2003	5	326646.34 5	BEFORE Y	2	0.850340136	288
20	5.88	2003	3	321170.49 6	BEFORE Y	3	0.510204082	288
20	5.88	2003	2	326128.81 7	BEFORE Y	3	0.340136054	288
20	5.88	2003	5	323159.79 8	BEFORE Y	3	0.850340136	288
20	5.88	2003	2	311891.76 9	BEFORE Y	4	0.340136054	288
20	5.88	2003	1	315614.67 10	BEFORE Y	4	0.170068027	288
20	5.88	2003	6	296365.71 11	BEFORE Y	4	1.020408163	288
20	5.88	2003	7	306980.01 12	BEFORE Y	1	1.190476190	288
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20	5.87	2004	8	271172.63 2	BEFORE Y	1	1.362862010	288
20	5.87	2004	3	307533.89 3	BEFORE Y	2	0.511073254	288
20	5.87	2004	2	320337.56 4	BEFORE Y	2	0.340715503	288
20	5.87	2004	4	332457.08 5	BEFORE Y	2	0.681431005	288
20	5.87	2004	3	326883.82 6	BEFORE Y	3	0.511073254	288
20	5.87	2004	4	331930.34 7	BEFORE Y	3	0.681431005	288
20	5.87	2004	5	328908.51 8	BEFORE Y	3	0.851788756	288
20	5.87	2004	11	317440.03 9	BEFORE Y	4	1.873935264	288
20	5.87	2004	5	321229.17 10	BEFORE Y	4	0.851788756	288
20	5.87	2004	4	301637.79 11	BEFORE Y	4	0.681431005	288
20	5.87	2004	5	312440.91 12	BEFORE Y	1	0.851788756	288
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20	5.84	2005	2	261941.59 2	BEFORE Y	1	0.342465753	288
20	5.84	2005	7	307674.54 3	BEFORE Y	2	1.198630137	288
20	5.84	2005	6	320484.06 4	BEFORE Y	2	1.027397260	288
20	5.84	2005	4	332609.13 5	BEFORE Y	2	0.684931507	288
20	5.84	2005	6	327033.32 6	BEFORE Y	3	1.027397260	288
20	5.84	2005	7	332082.15 7	BEFORE Y	3	1.198630137	288
20	5.84	2005	2	329058.94 8	BEFORE Y	3	0.342465753	288
20	5.84	2005	9	317585.21 9	BEFORE Y	4	1.541095890	288
20	5.84	2005	5	321376.09 10	BEFORE Y	4	0.856164384	288
20	5.84	2005	9	301775.74 11	BEFORE Y	4	1.541095890	288
20	5.84	2005	8	312583.8 12	BEFORE Y	1	1.369863014	288
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21	2.68	1982	0	63783.79 2	BEFORE Y	1	0.000000000	288
21	2.68	1982	0	74919.94 3	BEFORE Y	2	0.000000000	288
21	2.68	1982	0	78039.1 4	BEFORE Y	2	0.000000000	288
21	2.68	1982	0	80991.61 5	BEFORE Y	2	0.000000000	288
21	2.68	1982	0	79633.87 6	BEFORE Y	3	0.000000000	288
21	2.68	1982	1	80863.28 7	BEFORE Y	3	0.373134328	288
21	2.68	1982	0	80127.12 8	BEFORE Y	3	0.000000000	288
21	2.68	1982	1	77333.22 9	BEFORE Y	4	0.373134328	288
21	2.68	1982	0	78256.32 10	BEFORE Y	4	0.000000000	288
21	2.68	1982	0	73483.56 11	BEFORE Y	4	0.000000000	288
21	2.68	1982	0	76115.36 12	BEFORE Y	1	0.000000000	288
21	2.68	1983	0	69452.92 1	BEFORE Y	1	0.000000000	288
21	2.68	1983	0	64840.09 2	BEFORE Y	1	0.000000000	288
21	2.68	1983	0	76160.66 3	BEFORE Y	2	0.000000000	288
21	2.68	1983	0	79331.49 4	BEFORE Y	2	0.000000000	288
21	2.68	1983	0	82332.88 5	BEFORE Y	2	0.000000000	288
21	2.68	1983	0	80952.67 6	BEFORE Y	3	0.000000000	288
21	2.68	1983	0	82202.44 7	BEFORE Y	3	0.000000000	288
21	2.68	1983	0	81454.08 8	BEFORE Y	3	0.000000000	288

21	2.68	1983	0	78613.92	9	BEFORE	Y	4	0.000000000	288
21	2.68	1983	1	79552.3	10	BEFORE	Y	4	0.373134328	288
21	2.68	1983	0	74700.5	11	BEFORE	Y	4	0.000000000	288
21	2.68	1983	0	77375.88	12	BEFORE	Y	1	0.000000000	288
21	2.68	1984	0	72162.72	1	BEFORE	Y	1	0.000000000	288
21	2.68	1984	0	69775.98	2	BEFORE	Y	1	0.000000000	288
21	2.68	1984	0	79132.17	3	BEFORE	Y	2	0.000000000	288
21	2.68	1984	0	82426.71	4	BEFORE	Y	2	0.000000000	288
21	2.68	1984	0	85545.21	5	BEFORE	Y	2	0.000000000	288
21	2.68	1984	0	84111.14	6	BEFORE	Y	3	0.000000000	288
21	2.68	1984	0	85409.67	7	BEFORE	Y	3	0.000000000	288
21	2.68	1984	1	84632.12	8	BEFORE	Y	3	0.373134328	288
21	2.68	1984	0	81681.14	9	BEFORE	Y	4	0.000000000	288
21	2.68	1984	0	82656.13	10	BEFORE	Y	4	0.000000000	288
21	2.68	1984	1	77615.03	11	BEFORE	Y	4	0.373134328	288
21	2.68	1984	0	80394.8	12	BEFORE	Y	1	0.000000000	288
21	2.68	1985	0	70833.76	1	BEFORE	Y	1	0.000000000	288
21	2.68	1985	0	66129.22	2	BEFORE	Y	1	0.000000000	288
21	2.68	1985	0	77674.87	3	BEFORE	Y	2	0.000000000	288
21	2.68	1985	0	80908.73	4	BEFORE	Y	2	0.000000000	288
21	2.68	1985	0	83969.8	5	BEFORE	Y	2	0.000000000	288
21	2.68	1985	1	82562.14	6	BEFORE	Y	3	0.373134328	288
21	2.68	1985	1	83836.76	7	BEFORE	Y	3	0.373134328	288
21	2.68	1985	0	83073.52	8	BEFORE	Y	3	0.000000000	288
21	2.68	1985	0	80176.89	9	BEFORE	Y	4	0.000000000	288
21	2.68	1985	0	81133.93	10	BEFORE	Y	4	0.000000000	288
21	2.68	1985	0	76185.67	11	BEFORE	Y	4	0.000000000	288
21	2.68	1985	0	78914.25	12	BEFORE	Y	1	0.000000000	288
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21	2.68	1986	0	82426.71	4	BEFORE	Y	2	0.000000000	288
21	2.68	1986	0	85545.21	5	BEFORE	Y	2	0.000000000	288
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21	2.68	1986	2	84632.12	8	BEFORE	Y	3	0.746268657	288
21	2.68	1986	0	81681.14	9	BEFORE	Y	4	0.000000000	288
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21	2.68	1987	0	73371.16	1	BEFORE	Y	1	0.000000000	288
21	2.68	1987	0	68498.09	2	BEFORE	Y	1	0.000000000	288
21	2.68	1987	0	80457.33	3	BEFORE	Y	2	0.000000000	288
21	2.68	1987	0	83807.03	4	BEFORE	Y	2	0.000000000	288
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21	2.68	1988	1	87871.54	4	BEFORE	Y	2	0.373134328	288
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21	2.68	1988	0	89667.24	6	BEFORE	Y	3	0.000000000	288
21	2.68	1988	0	91051.55	7	BEFORE	Y	3	0.000000000	288
21	2.68	1988	0	90222.63	8	BEFORE	Y	3	0.000000000	288
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21	2.68	1988	0	88116.12	10	BEFORE	Y	4	0.000000000	288
21	2.68	1988	0	82742.02	11	BEFORE	Y	4	0.000000000	288
21	2.68	1988	0	85705.42	12	BEFORE	Y	1	0.000000000	288
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21	2.68	1989	0	74040.57	2	BEFORE	Y	1	0.000000000	288
21	2.68	1989	1	86967.47	3	BEFORE	Y	2	0.373134328	288
21	2.68	1989	0	90588.22	4	BEFORE	Y	2	0.000000000	288

21	2.68	1989	0	94015.5	5	BEFORE	Y	2	0.000000000	288
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21	2.68	1989	1	93012	8	BEFORE	Y	3	0.373134328	288
21	2.68	1989	0	89768.83	9	BEFORE	Y	4	0.000000000	288
21	2.68	1989	0	90840.36	10	BEFORE	Y	4	0.000000000	288
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21	2.68	1989	0	88355.13	12	BEFORE	Y	1	0.000000000	288
21	2.68	1990	0	81619.38	1	BEFORE	Y	1	0.000000000	288
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21	2.68	1990	0	89502.16	3	BEFORE	Y	2	0.000000000	288
21	2.68	1990	0	93228.43	4	BEFORE	Y	2	0.000000000	288
21	2.68	1990	0	96755.6	5	BEFORE	Y	2	0.000000000	288
21	2.68	1990	0	95133.6	6	BEFORE	Y	3	0.000000000	288
21	2.68	1990	0	96602.3	7	BEFORE	Y	3	0.000000000	288
21	2.68	1990	0	95722.85	8	BEFORE	Y	3	0.000000000	288
21	2.68	1990	0	92385.16	9	BEFORE	Y	4	0.000000000	288
21	2.68	1990	0	93487.92	10	BEFORE	Y	4	0.000000000	288
21	2.68	1990	0	87786.2	11	BEFORE	Y	4	0.000000000	288
21	2.68	1990	1	90930.25	12	BEFORE	Y	1	0.373134328	288
21	2.68	1991	0	83687.3	1	BEFORE	Y	1	0.000000000	288
21	2.68	1991	0	78129.06	2	BEFORE	Y	1	0.000000000	288
21	2.68	1991	1	91769.79	3	BEFORE	Y	2	0.373134328	288
21	2.68	1991	0	95590.47	4	BEFORE	Y	2	0.000000000	288
21	2.68	1991	0	99207	5	BEFORE	Y	2	0.000000000	288
21	2.68	1991	0	97543.91	6	BEFORE	Y	3	0.000000000	288
21	2.68	1991	0	99049.82	7	BEFORE	Y	3	0.000000000	288
21	2.68	1991	0	98148.09	8	BEFORE	Y	3	0.000000000	288
21	2.68	1991	0	94725.83	9	BEFORE	Y	4	0.000000000	288
21	2.68	1991	0	95856.53	10	BEFORE	Y	4	0.000000000	288
21	2.68	1991	1	90010.36	11	BEFORE	Y	4	0.373134328	288
21	2.68	1991	0	93234.07	12	BEFORE	Y	1	0.000000000	288
21	2.68	1992	0	86009.62	1	BEFORE	Y	1	0.000000000	288
21	2.68	1992	0	83164.9	2	BEFORE	Y	1	0.000000000	288
21	2.68	1992	0	94316.4	3	BEFORE	Y	2	0.000000000	288
21	2.68	1992	0	98243.11	4	BEFORE	Y	2	0.000000000	288
21	2.68	1992	1	101960	5	BEFORE	Y	2	0.373134328	288
21	2.68	1992	0	100250.75	6	BEFORE	Y	3	0.000000000	288
21	2.68	1992	0	101798.45	7	BEFORE	Y	3	0.000000000	288
21	2.68	1992	0	100871.7	8	BEFORE	Y	3	0.000000000	288
21	2.68	1992	1	97354.47	9	BEFORE	Y	4	0.373134328	288
21	2.68	1992	0	98516.55	10	BEFORE	Y	4	0.000000000	288
21	2.68	1992	1	92508.14	11	BEFORE	Y	4	0.373134328	288
21	2.68	1992	0	95821.31	12	BEFORE	Y	1	0.000000000	288
21	2.68	1993	0	89480.13	1	BEFORE	Y	1	0.000000000	288
21	2.68	1993	0	83537.16	2	BEFORE	Y	1	0.000000000	288
21	2.68	1993	0	98122.09	3	BEFORE	Y	2	0.000000000	288
21	2.68	1993	0	102207.24	4	BEFORE	Y	2	0.000000000	288
21	2.68	1993	0	106074.11	5	BEFORE	Y	2	0.000000000	288
21	2.68	1993	0	104295.9	6	BEFORE	Y	3	0.000000000	288
21	2.68	1993	0	105906.05	7	BEFORE	Y	3	0.000000000	288
21	2.68	1993	0	104941.9	8	BEFORE	Y	3	0.000000000	288
21	2.68	1993	0	101282.76	9	BEFORE	Y	4	0.000000000	288
21	2.68	1993	0	102491.72	10	BEFORE	Y	4	0.000000000	288
21	2.68	1993	0	96240.87	11	BEFORE	Y	4	0.000000000	288
21	2.68	1993	0	99687.73	12	BEFORE	Y	1	0.000000000	288
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21	2.68	1994	0	100606.3	3	BEFORE	Y	2	0.000000000	288
21	2.68	1994	0	104794.88	4	BEFORE	Y	2	0.000000000	288
21	2.68	1994	0	108759.65	5	BEFORE	Y	2	0.000000000	288
21	2.68	1994	0	106936.41	6	BEFORE	Y	3	0.000000000	288
21	2.68	1994	0	108587.33	7	BEFORE	Y	3	0.000000000	288
21	2.68	1994	0	107598.77	8	BEFORE	Y	3	0.000000000	288
21	2.68	1994	1	103846.98	9	BEFORE	Y	4	0.373134328	288
21	2.68	1994	0	105086.56	10	BEFORE	Y	4	0.000000000	288
21	2.68	1994	1	98677.45	11	BEFORE	Y	4	0.373134328	288
21	2.68	1994	0	102211.57	12	BEFORE	Y	1	0.000000000	288

21	2.68	1995	0	93929.78	1	BEFORE	Y	1	0.000000000	288
21	2.68	1995	1	87691.28	2	BEFORE	Y	1	0.373134328	288
21	2.68	1995	1	103001.49	3	BEFORE	Y	2	0.373134328	288
21	2.68	1995	1	107289.79	4	BEFORE	Y	2	0.373134328	288
21	2.68	1995	0	111348.95	5	BEFORE	Y	2	0.000000000	288
21	2.68	1995	0	109482.31	6	BEFORE	Y	3	0.000000000	288
21	2.68	1995	0	111172.53	7	BEFORE	Y	3	0.000000000	288
21	2.68	1995	0	110160.43	8	BEFORE	Y	3	0.000000000	288
21	2.68	1995	0	106319.33	9	BEFORE	Y	4	0.000000000	288
21	2.68	1995	0	107588.41	10	BEFORE	Y	4	0.000000000	288
21	2.68	1995	1	101026.72	11	BEFORE	Y	4	0.373134328	288
21	2.68	1995	0	104644.98	12	BEFORE	Y	1	0.000000000	288
21	2.68	1996	1	97199.45	1	BEFORE	Y	1	0.373134328	288
21	2.68	1996	0	93984.63	2	BEFORE	Y	1	0.000000000	288
21	2.68	1996	0	106586.94	3	BEFORE	Y	2	0.000000000	288
21	2.68	1996	0	111024.51	4	BEFORE	Y	2	0.000000000	288
21	2.68	1996	0	115224.97	5	BEFORE	Y	2	0.000000000	288
21	2.68	1996	1	113293.35	6	BEFORE	Y	3	0.373134328	288
21	2.68	1996	0	115042.4	7	BEFORE	Y	3	0.000000000	288
21	2.68	1996	0	113995.08	8	BEFORE	Y	3	0.000000000	288
21	2.68	1996	0	110020.27	9	BEFORE	Y	4	0.000000000	288
21	2.68	1996	0	111333.53	10	BEFORE	Y	4	0.000000000	288
21	2.68	1996	1	104543.43	11	BEFORE	Y	4	0.373134328	288
21	2.68	1996	3	108287.64	12	BEFORE	Y	1	1.119402985	288
21	2.68	1997	2	98751.01	1	BEFORE	Y	1	0.746268657	288
21	2.68	1997	1	92192.3	2	BEFORE	Y	1	0.373134328	288
21	2.68	1997	0	108288.35	3	BEFORE	Y	2	0.000000000	288
21	2.68	1997	1	112796.76	4	BEFORE	Y	2	0.373134328	288
21	2.68	1997	0	117064.26	5	BEFORE	Y	2	0.000000000	288
21	2.68	1997	1	115101.81	6	BEFORE	Y	3	0.373134328	288
21	2.68	1997	0	116878.79	7	BEFORE	Y	3	0.000000000	288
21	2.68	1997	1	115814.75	8	BEFORE	Y	3	0.373134328	288
21	2.68	1997	1	111776.48	9	BEFORE	Y	4	0.373134328	288
21	2.68	1997	0	113110.71	10	BEFORE	Y	4	0.000000000	288
21	2.68	1997	0	106212.22	11	BEFORE	Y	4	0.000000000	288
21	2.68	1997	0	110016.2	12	BEFORE	Y	1	0.000000000	288
21	2.68	1998	0	106683.91	1	BEFORE	Y	1	0.000000000	288
21	2.68	1998	0	99598.33	2	BEFORE	Y	1	0.000000000	288
21	2.68	1998	0	116987.41	3	BEFORE	Y	2	0.000000000	288
21	2.68	1998	0	121857.99	4	BEFORE	Y	2	0.000000000	288
21	2.68	1998	0	126468.32	5	BEFORE	Y	2	0.000000000	288
21	2.68	1998	1	124348.22	6	BEFORE	Y	3	0.373134328	288
21	2.68	1998	0	126267.94	7	BEFORE	Y	3	0.000000000	288
21	2.68	1998	0	125118.42	8	BEFORE	Y	3	0.000000000	288
21	2.68	1998	0	120755.76	9	BEFORE	Y	4	0.000000000	288
21	2.68	1998	1	122197.16	10	BEFORE	Y	4	0.373134328	288
21	2.68	1998	2	114744.5	11	BEFORE	Y	4	0.746268657	288
21	2.68	1998	1	118854.06	12	BEFORE	Y	1	0.373134328	288
21	2.68	1999	0	111334.24	1	BEFORE	Y	1	0.000000000	288
21	2.68	1999	0	103939.79	2	BEFORE	Y	1	0.000000000	288
21	2.68	1999	0	122086.86	3	BEFORE	Y	2	0.000000000	288
21	2.68	1999	0	127169.75	4	BEFORE	Y	2	0.000000000	288
21	2.68	1999	0	131981.04	5	BEFORE	Y	2	0.000000000	288
21	2.68	1999	0	129768.53	6	BEFORE	Y	3	0.000000000	288
21	2.68	1999	0	131771.93	7	BEFORE	Y	3	0.000000000	288
21	2.68	1999	0	130572.3	8	BEFORE	Y	3	0.000000000	288
21	2.68	1999	0	126019.47	9	BEFORE	Y	4	0.000000000	288
21	2.68	1999	0	127523.71	10	BEFORE	Y	4	0.000000000	288
21	2.68	1999	2	119746.19	11	BEFORE	Y	4	0.746268657	288
21	2.68	1999	2	124034.88	12	BEFORE	Y	1	0.746268657	288
21	2.68	2000	0	109966.5	1	BEFORE	Y	1	0.000000000	288
21	2.68	2000	0	106329.42	2	BEFORE	Y	1	0.000000000	288
21	2.68	2000	0	120587.03	3	BEFORE	Y	2	0.000000000	288
21	2.68	2000	0	125607.47	4	BEFORE	Y	2	0.000000000	288
21	2.68	2000	1	130359.65	5	BEFORE	Y	2	0.373134328	288
21	2.68	2000	0	128174.32	6	BEFORE	Y	3	0.000000000	288
21	2.68	2000	1	130153.11	7	BEFORE	Y	3	0.373134328	288
21	2.68	2000	0	128968.22	8	BEFORE	Y	3	0.000000000	288

21	2.68	2000	0	124471.32 9	BEFORE Y	4	0.000000000	288
21	2.68	2000	0	125957.08 10	BEFORE Y	4	0.000000000	288
21	2.68	2000	0	118275.1 11	BEFORE Y	4	0.000000000	288
21	2.68	2000	0	122511.11 12	BEFORE Y	1	0.000000000	288
21	2.68	2001	0	111881.34 1	BEFORE Y	1	0.000000000	288
21	2.68	2001	0	104450.55 2	BEFORE Y	1	0.000000000	288
21	2.68	2001	0	122686.8 3	BEFORE Y	2	0.000000000	288
21	2.68	2001	0	127794.66 4	BEFORE Y	2	0.000000000	288
21	2.68	2001	0	132629.6 5	BEFORE Y	2	0.000000000	288
21	2.68	2001	0	130406.21 6	BEFORE Y	3	0.000000000	288
21	2.68	2001	1	132419.46 7	BEFORE Y	3	0.373134328	288
21	2.68	2001	0	131213.94 8	BEFORE Y	3	0.000000000	288
21	2.68	2001	0	126638.73 9	BEFORE Y	4	0.000000000	288
21	2.68	2001	0	128150.36 10	BEFORE Y	4	0.000000000	288
21	2.68	2001	0	120334.62 11	BEFORE Y	4	0.000000000	288
21	2.68	2001	0	124644.39 12	BEFORE Y	1	0.000000000	288
21	2.68	2002	0	116531.66 1	BEFORE Y	1	0.000000000	288
21	2.68	2002	0	108792.02 2	BEFORE Y	1	0.000000000	288
21	2.68	2002	2	127786.25 3	BEFORE Y	2	0.746268657	288
21	2.68	2002	0	133106.42 4	BEFORE Y	2	0.000000000	288
21	2.68	2002	0	138142.32 5	BEFORE Y	2	0.000000000	288
21	2.68	2002	0	135826.52 6	BEFORE Y	3	0.000000000	288
21	2.68	2002	0	137923.45 7	BEFORE Y	3	0.000000000	288
21	2.68	2002	0	136667.82 8	BEFORE Y	3	0.000000000	288
21	2.68	2002	1	131902.44 9	BEFORE Y	4	0.373134328	288
21	2.68	2002	0	133476.9 10	BEFORE Y	4	0.000000000	288
21	2.68	2002	0	125336.3 11	BEFORE Y	4	0.000000000	288
21	2.68	2002	0	129825.21 12	BEFORE Y	1	0.000000000	288
21	2.68	2003	1	119540.69 1	BEFORE Y	1	0.373134328	288
21	2.68	2003	0	111601.2 2	BEFORE Y	1	0.000000000	288
21	2.68	2003	0	131085.9 3	BEFORE Y	2	0.000000000	288
21	2.68	2003	1	136543.44 4	BEFORE Y	2	0.373134328	288
21	2.68	2003	0	141709.37 5	BEFORE Y	2	0.000000000	288
21	2.68	2003	0	139333.78 6	BEFORE Y	3	0.000000000	288
21	2.68	2003	1	141484.85 7	BEFORE Y	3	0.373134328	288
21	2.68	2003	1	140196.8 8	BEFORE Y	3	0.373134328	288
21	2.68	2003	0	135308.37 9	BEFORE Y	4	0.000000000	288
21	2.68	2003	0	136923.49 10	BEFORE Y	4	0.000000000	288
21	2.68	2003	1	128572.69 11	BEFORE Y	4	0.373134328	288
21	2.68	2003	1	133177.5 12	BEFORE Y	1	0.373134328	288
21	2.68	2004	0	122276.18 1	BEFORE Y	1	0.000000000	288
21	2.68	2004	1	118231.97 2	BEFORE Y	1	0.373134328	288
21	2.68	2004	0	134085.57 3	BEFORE Y	2	0.000000000	288
21	2.68	2004	1	139668 4	BEFORE Y	2	0.373134328	288
21	2.68	2004	0	144952.15 5	BEFORE Y	2	0.000000000	288
21	2.68	2004	0	142522.19 6	BEFORE Y	3	0.000000000	288
21	2.68	2004	0	144722.49 7	BEFORE Y	3	0.000000000	288
21	2.68	2004	0	143404.96 8	BEFORE Y	3	0.000000000	288
21	2.68	2004	0	138404.68 9	BEFORE Y	4	0.000000000	288
21	2.68	2004	0	140056.75 10	BEFORE Y	4	0.000000000	288
21	2.68	2004	0	131514.86 11	BEFORE Y	4	0.000000000	288
21	2.68	2004	1	136225.04 12	BEFORE Y	1	0.373134328	288
21	2.68	2005	0	122276.18 1	BEFORE Y	1	0.000000000	288
21	2.68	2005	0	118231.97 2	BEFORE Y	1	0.000000000	288
21	2.68	2005	0	134085.57 3	BEFORE Y	2	0.000000000	288
21	2.68	2005	0	139668 4	BEFORE Y	2	0.000000000	288
21	2.68	2005	2	144952.15 5	BEFORE Y	2	0.746268657	288
21	2.68	2005	1	142522.19 6	BEFORE Y	3	0.373134328	288
21	2.68	2005	2	144722.49 7	BEFORE Y	3	0.746268657	288
21	2.68	2005	0	143404.96 8	BEFORE Y	3	0.000000000	288
21	2.68	2005	1	138404.68 9	BEFORE Y	4	0.373134328	288
21	2.68	2005	1	140056.75 10	BEFORE Y	4	0.373134328	288
21	2.68	2005	0	131514.86 11	BEFORE Y	4	0.000000000	288
21	2.68	2005	1	136225.04 12	BEFORE Y	1	0.373134328	288
22	8.64	1982	4	85695.7 1	BEFORE Y	1	0.462962963	288
22	8.64	1982	2	80004.08 2	BEFORE Y	1	0.231481481	288
22	8.64	1982	2	93972.16 3	BEFORE Y	2	0.231481481	288
22	8.64	1982	1	97884.54 4	BEFORE Y	2	0.115740741	288

22	8.64	1982	2	101587.87	5	BEFORE	Y	2	0.231481481	288
22	8.64	1982	1	99884.86	6	BEFORE	Y	3	0.115740741	288
22	8.64	1982	0	101426.91	7	BEFORE	Y	3	0.000000000	288
22	8.64	1982	2	100503.54	8	BEFORE	Y	3	0.231481481	288
22	8.64	1982	1	96999.15	9	BEFORE	Y	4	0.115740741	288
22	8.64	1982	2	98156.99	10	BEFORE	Y	4	0.231481481	288
22	8.64	1982	2	92170.51	11	BEFORE	Y	4	0.231481481	288
22	8.64	1982	3	95471.58	12	BEFORE	Y	1	0.347222222	288
22	8.64	1983	4	87114.88	1	BEFORE	Y	1	0.462962963	288
22	8.64	1983	2	81329	2	BEFORE	Y	1	0.231481481	288
22	8.64	1983	1	95528.41	3	BEFORE	Y	2	0.115740741	288
22	8.64	1983	5	99505.58	4	BEFORE	Y	2	0.578703704	288
22	8.64	1983	2	103270.23	5	BEFORE	Y	2	0.231481481	288
22	8.64	1983	3	101539.02	6	BEFORE	Y	3	0.347222222	288
22	8.64	1983	2	103106.61	7	BEFORE	Y	3	0.231481481	288
22	8.64	1983	5	102167.95	8	BEFORE	Y	3	0.578703704	288
22	8.64	1983	4	98605.53	9	BEFORE	Y	4	0.462962963	288
22	8.64	1983	3	99782.54	10	BEFORE	Y	4	0.347222222	288
22	8.64	1983	1	93696.92	11	BEFORE	Y	4	0.115740741	288
22	8.64	1983	4	97052.66	12	BEFORE	Y	1	0.462962963	288
22	8.64	1984	3	90513.78	1	BEFORE	Y	1	0.347222222	288
22	8.64	1984	4	87520.09	2	BEFORE	Y	1	0.462962963	288
22	8.64	1984	3	99255.57	3	BEFORE	Y	2	0.347222222	288
22	8.64	1984	0	103387.91	4	BEFORE	Y	2	0.000000000	288
22	8.64	1984	5	107299.45	5	BEFORE	Y	2	0.578703704	288
22	8.64	1984	3	105500.7	6	BEFORE	Y	3	0.347222222	288
22	8.64	1984	3	107129.45	7	BEFORE	Y	3	0.347222222	288
22	8.64	1984	1	106154.16	8	BEFORE	Y	3	0.115740741	288
22	8.64	1984	2	102452.75	9	BEFORE	Y	4	0.231481481	288
22	8.64	1984	6	103675.68	10	BEFORE	Y	4	0.694444444	288
22	8.64	1984	2	97352.62	11	BEFORE	Y	4	0.231481481	288
22	8.64	1984	3	100839.3	12	BEFORE	Y	1	0.347222222	288
22	8.64	1985	2	88846.87	1	BEFORE	Y	1	0.231481481	288
22	8.64	1985	0	82945.96	2	BEFORE	Y	1	0.000000000	288
22	8.64	1985	2	97427.67	3	BEFORE	Y	2	0.231481481	288
22	8.64	1985	2	101483.91	4	BEFORE	Y	2	0.231481481	288
22	8.64	1985	1	105323.42	5	BEFORE	Y	2	0.115740741	288
22	8.64	1985	1	103557.79	6	BEFORE	Y	3	0.115740741	288
22	8.64	1985	3	105156.54	7	BEFORE	Y	3	0.347222222	288
22	8.64	1985	4	104199.22	8	BEFORE	Y	3	0.462962963	288
22	8.64	1985	7	100565.97	9	BEFORE	Y	4	0.810185185	288
22	8.64	1985	2	101766.38	10	BEFORE	Y	4	0.231481481	288
22	8.64	1985	3	95559.77	11	BEFORE	Y	4	0.347222222	288
22	8.64	1985	5	98982.23	12	BEFORE	Y	1	0.578703704	288
22	8.64	1986	1	90513.78	1	BEFORE	Y	1	0.115740741	288
22	8.64	1986	2	84502.16	2	BEFORE	Y	1	0.231481481	288
22	8.64	1986	5	99255.57	3	BEFORE	Y	2	0.578703704	288
22	8.64	1986	1	103387.91	4	BEFORE	Y	2	0.115740741	288
22	8.64	1986	1	107299.45	5	BEFORE	Y	2	0.115740741	288
22	8.64	1986	2	105500.7	6	BEFORE	Y	3	0.231481481	288
22	8.64	1986	2	107129.45	7	BEFORE	Y	3	0.231481481	288
22	8.64	1986	1	106154.16	8	BEFORE	Y	3	0.115740741	288
22	8.64	1986	4	102452.75	9	BEFORE	Y	4	0.462962963	288
22	8.64	1986	2	103675.68	10	BEFORE	Y	4	0.231481481	288
22	8.64	1986	3	97352.62	11	BEFORE	Y	4	0.347222222	288
22	8.64	1986	3	100839.3	12	BEFORE	Y	1	0.347222222	288
22	8.64	1987	2	92029.53	1	BEFORE	Y	1	0.231481481	288
22	8.64	1987	0	85917.24	2	BEFORE	Y	1	0.000000000	288
22	8.64	1987	2	100917.72	3	BEFORE	Y	2	0.231481481	288
22	8.64	1987	0	105119.26	4	BEFORE	Y	2	0.000000000	288
22	8.64	1987	2	109096.3	5	BEFORE	Y	2	0.231481481	288
22	8.64	1987	3	107267.43	6	BEFORE	Y	3	0.347222222	288
22	8.64	1987	6	108923.45	7	BEFORE	Y	3	0.694444444	288
22	8.64	1987	2	107931.83	8	BEFORE	Y	3	0.231481481	288
22	8.64	1987	3	104168.43	9	BEFORE	Y	4	0.347222222	288
22	8.64	1987	4	105411.84	10	BEFORE	Y	4	0.462962963	288
22	8.64	1987	1	98982.9	11	BEFORE	Y	4	0.115740741	288
22	8.64	1987	4	102527.96	12	BEFORE	Y	1	0.462962963	288

22	8.64	1988	4	96492.82	1	BEFORE	Y	1	0.462962963	288
22	8.64	1988	2	93301.38	2	BEFORE	Y	1	0.231481481	288
22	8.64	1988	3	105812.06	3	BEFORE	Y	2	0.347222222	288
22	8.64	1988	4	110217.38	4	BEFORE	Y	2	0.462962963	288
22	8.64	1988	4	114387.3	5	BEFORE	Y	2	0.462962963	288
22	8.64	1988	0	112469.72	6	BEFORE	Y	3	0.000000000	288
22	8.64	1988	6	114206.06	7	BEFORE	Y	3	0.694444444	288
22	8.64	1988	4	113166.35	8	BEFORE	Y	3	0.462962963	288
22	8.64	1988	3	109220.43	9	BEFORE	Y	4	0.347222222	288
22	8.64	1988	3	110524.15	10	BEFORE	Y	4	0.347222222	288
22	8.64	1988	7	103783.41	11	BEFORE	Y	4	0.810185185	288
22	8.64	1988	8	107500.4	12	BEFORE	Y	1	0.925925926	288
22	8.64	1989	2	99476.04	1	BEFORE	Y	1	0.231481481	288
22	8.64	1989	2	92869.17	2	BEFORE	Y	1	0.231481481	288
22	8.64	1989	5	109083.4	3	BEFORE	Y	2	0.578703704	288
22	8.64	1989	5	113624.91	4	BEFORE	Y	2	0.578703704	288
22	8.64	1989	2	117923.75	5	BEFORE	Y	2	0.231481481	288
22	8.64	1989	3	115946.89	6	BEFORE	Y	3	0.347222222	288
22	8.64	1989	0	117736.92	7	BEFORE	Y	3	0.000000000	288
22	8.64	1989	5	116665.06	8	BEFORE	Y	3	0.578703704	288
22	8.64	1989	2	112597.15	9	BEFORE	Y	4	0.231481481	288
22	8.64	1989	4	113941.17	10	BEFORE	Y	4	0.462962963	288
22	8.64	1989	1	106992.03	11	BEFORE	Y	4	0.115740741	288
22	8.64	1989	1	110823.94	12	BEFORE	Y	1	0.115740741	288
22	8.64	1990	2	102375.29	1	BEFORE	Y	1	0.231481481	288
22	8.64	1990	2	95575.86	2	BEFORE	Y	1	0.231481481	288
22	8.64	1990	3	112262.66	3	BEFORE	Y	2	0.347222222	288
22	8.64	1990	0	116936.53	4	BEFORE	Y	2	0.000000000	288
22	8.64	1990	3	121360.66	5	BEFORE	Y	2	0.347222222	288
22	8.64	1990	3	119326.19	6	BEFORE	Y	3	0.347222222	288
22	8.64	1990	4	121168.38	7	BEFORE	Y	3	0.462962963	288
22	8.64	1990	2	120065.28	8	BEFORE	Y	3	0.231481481	288
22	8.64	1990	6	115878.81	9	BEFORE	Y	4	0.694444444	288
22	8.64	1990	7	117262	10	BEFORE	Y	4	0.810185185	288
22	8.64	1990	6	110110.33	11	BEFORE	Y	4	0.694444444	288
22	8.64	1990	4	114053.92	12	BEFORE	Y	1	0.462962963	288
22	8.64	1991	3	104969.07	1	BEFORE	Y	1	0.347222222	288
22	8.64	1991	4	97997.38	2	BEFORE	Y	1	0.462962963	288
22	8.64	1991	4	115106.95	3	BEFORE	Y	2	0.462962963	288
22	8.64	1991	2	119899.24	4	BEFORE	Y	2	0.231481481	288
22	8.64	1991	3	124435.46	5	BEFORE	Y	2	0.347222222	288
22	8.64	1991	1	122349.44	6	BEFORE	Y	3	0.115740741	288
22	8.64	1991	3	124238.31	7	BEFORE	Y	3	0.347222222	288
22	8.64	1991	4	123107.26	8	BEFORE	Y	3	0.462962963	288
22	8.64	1991	2	118814.72	9	BEFORE	Y	4	0.231481481	288
22	8.64	1991	2	120232.96	10	BEFORE	Y	4	0.231481481	288
22	8.64	1991	3	112900.1	11	BEFORE	Y	4	0.347222222	288
22	8.64	1991	2	116943.6	12	BEFORE	Y	1	0.231481481	288
22	8.64	1992	3	107881.96	1	BEFORE	Y	1	0.347222222	288
22	8.64	1992	6	104313.83	2	BEFORE	Y	1	0.694444444	288
22	8.64	1992	2	118301.17	3	BEFORE	Y	2	0.231481481	288
22	8.64	1992	2	123226.44	4	BEFORE	Y	2	0.231481481	288
22	8.64	1992	2	127888.54	5	BEFORE	Y	2	0.231481481	288
22	8.64	1992	4	125744.64	6	BEFORE	Y	3	0.462962963	288
22	8.64	1992	4	127685.92	7	BEFORE	Y	3	0.462962963	288
22	8.64	1992	3	126523.49	8	BEFORE	Y	3	0.347222222	288
22	8.64	1992	3	122111.83	9	BEFORE	Y	4	0.347222222	288
22	8.64	1992	1	123569.43	10	BEFORE	Y	4	0.115740741	288
22	8.64	1992	5	116033.07	11	BEFORE	Y	4	0.578703704	288
22	8.64	1992	4	120188.78	12	BEFORE	Y	1	0.462962963	288
22	8.64	1993	3	112235.03	1	BEFORE	Y	1	0.347222222	288
22	8.64	1993	4	104780.75	2	BEFORE	Y	1	0.462962963	288
22	8.64	1993	5	123074.65	3	BEFORE	Y	2	0.578703704	288
22	8.64	1993	2	128198.66	4	BEFORE	Y	2	0.231481481	288
22	8.64	1993	3	133048.88	5	BEFORE	Y	2	0.347222222	288
22	8.64	1993	4	130818.47	6	BEFORE	Y	3	0.462962963	288
22	8.64	1993	1	132838.08	7	BEFORE	Y	3	0.115740741	288
22	8.64	1993	4	131628.75	8	BEFORE	Y	3	0.462962963	288

22	8.64	1993	3	127039.08 9	BEFORE Y	4	0.347222222	288
22	8.64	1993	2	128555.49 10	BEFORE Y	4	0.231481481	288
22	8.64	1993	2	120715.04 11	BEFORE Y	4	0.231481481	288
22	8.64	1993	3	125038.43 12	BEFORE Y	1	0.347222222	288
22	8.64	1994	3	115076.54 1	BEFORE Y	1	0.347222222	288
22	8.64	1994	2	107433.54 2	BEFORE Y	1	0.231481481	288
22	8.64	1994	0	126190.6 3	BEFORE Y	2	0.000000000	288
22	8.64	1994	1	131444.34 4	BEFORE Y	2	0.115740741	288
22	8.64	1994	5	136417.35 5	BEFORE Y	2	0.578703704	288
22	8.64	1994	3	134130.47 6	BEFORE Y	3	0.347222222	288
22	8.64	1994	1	136201.21 7	BEFORE Y	3	0.115740741	288
22	8.64	1994	4	134961.26 8	BEFORE Y	3	0.462962963	288
22	8.64	1994	2	130255.39 9	BEFORE Y	4	0.231481481	288
22	8.64	1994	1	131810.19 10	BEFORE Y	4	0.115740741	288
22	8.64	1994	4	123771.25 11	BEFORE Y	4	0.462962963	288
22	8.64	1994	0	128204.1 12	BEFORE Y	1	0.000000000	288
22	8.64	1995	6	117816.24 1	BEFORE Y	1	0.694444444	288
22	8.64	1995	3	109991.28 2	BEFORE Y	1	0.347222222	288
22	8.64	1995	7	129194.89 3	BEFORE Y	2	0.810185185	288
22	8.64	1995	3	134573.71 4	BEFORE Y	2	0.347222222	288
22	8.64	1995	3	139665.12 5	BEFORE Y	2	0.347222222	288
22	8.64	1995	5	137323.79 6	BEFORE Y	3	0.578703704	288
22	8.64	1995	4	139443.83 7	BEFORE Y	3	0.462962963	288
22	8.64	1995	5	138174.36 8	BEFORE Y	3	0.578703704	288
22	8.64	1995	6	133356.46 9	BEFORE Y	4	0.694444444	288
22	8.64	1995	3	134948.27 10	BEFORE Y	4	0.347222222	288
22	8.64	1995	3	126717.94 11	BEFORE Y	4	0.347222222	288
22	8.64	1995	2	131256.33 12	BEFORE Y	1	0.231481481	288
22	8.64	1996	3	121917.38 1	BEFORE Y	1	0.347222222	288
22	8.64	1996	2	117885.03 2	BEFORE Y	1	0.231481481	288
22	8.64	1996	2	133692.12 3	BEFORE Y	2	0.231481481	288
22	8.64	1996	4	139258.17 4	BEFORE Y	2	0.462962963	288
22	8.64	1996	3	144526.81 5	BEFORE Y	2	0.347222222	288
22	8.64	1996	5	142103.98 6	BEFORE Y	3	0.578703704	288
22	8.64	1996	7	144297.82 7	BEFORE Y	3	0.810185185	288
22	8.64	1996	3	142984.16 8	BEFORE Y	3	0.347222222	288
22	8.64	1996	2	137998.55 9	BEFORE Y	4	0.231481481	288
22	8.64	1996	3	139645.78 10	BEFORE Y	4	0.347222222	288
22	8.64	1996	1	131128.94 11	BEFORE Y	4	0.115740741	288
22	8.64	1996	9	135825.31 12	BEFORE Y	1	1.041666667	288
22	8.64	1997	2	123863.51 1	BEFORE Y	1	0.231481481	288
22	8.64	1997	2	115636.9 2	BEFORE Y	1	0.231481481	288
22	8.64	1997	1	135826.2 3	BEFORE Y	2	0.115740741	288
22	8.64	1997	2	141481.1 4	BEFORE Y	2	0.231481481	288
22	8.64	1997	3	146833.84 5	BEFORE Y	2	0.347222222	288
22	8.64	1997	2	144372.34 6	BEFORE Y	3	0.231481481	288
22	8.64	1997	2	146601.2 7	BEFORE Y	3	0.231481481	288
22	8.64	1997	5	145266.57 8	BEFORE Y	3	0.578703704	288
22	8.64	1997	3	140201.37 9	BEFORE Y	4	0.347222222	288
22	8.64	1997	2	141874.89 10	BEFORE Y	4	0.231481481	288
22	8.64	1997	2	133222.11 11	BEFORE Y	4	0.231481481	288
22	8.64	1997	2	137993.45 12	BEFORE Y	1	0.231481481	288
22	8.64	1998	5	132475.66 1	BEFORE Y	1	0.578703704	288
22	8.64	1998	2	123677.07 2	BEFORE Y	1	0.231481481	288
22	8.64	1998	3	145270.12 3	BEFORE Y	2	0.347222222	288
22	8.64	1998	0	151318.2 4	BEFORE Y	2	0.000000000	288
22	8.64	1998	2	157043.11 5	BEFORE Y	2	0.231481481	288
22	8.64	1998	7	154410.46 6	BEFORE Y	3	0.810185185	288
22	8.64	1998	3	156794.29 7	BEFORE Y	3	0.347222222	288
22	8.64	1998	6	155366.87 8	BEFORE Y	3	0.694444444	288
22	8.64	1998	3	149949.49 9	BEFORE Y	4	0.347222222	288
22	8.64	1998	4	151739.37 10	BEFORE Y	4	0.462962963	288
22	8.64	1998	1	142484.96 11	BEFORE Y	4	0.115740741	288
22	8.64	1998	6	147588.05 12	BEFORE Y	1	0.694444444	288
22	8.64	1999	2	114765.46 1	BEFORE Y	1	0.231481481	288
22	8.64	1999	4	107143.12 2	BEFORE Y	1	0.462962963	288
22	8.64	1999	1	125849.47 3	BEFORE Y	2	0.115740741	288
22	8.64	1999	2	131089.01 4	BEFORE Y	2	0.231481481	288

22	8.64	1999	3	136048.58 5	BEFORE Y	2	0.347222222	288
22	8.64	1999	3	133767.88 6	BEFORE Y	3	0.347222222	288
22	8.64	1999	6	135833.03 7	BEFORE Y	3	0.694444444	288
22	8.64	1999	3	134596.43 8	BEFORE Y	3	0.347222222	288
22	8.64	1999	2	129903.28 9	BEFORE Y	4	0.231481481	288
22	8.64	1999	1	131453.88 10	BEFORE Y	4	0.115740741	288
22	8.64	1999	0	123436.66 11	BEFORE Y	4	0.000000000	288
22	8.64	1999	3	127857.53 12	BEFORE Y	1	0.347222222	288
22	8.64	2000	1	112201.08 1	BEFORE Y	1	0.115740741	288
22	8.64	2000	1	108490.09 2	BEFORE Y	1	0.115740741	288
22	8.64	2000	4	123037.42 3	BEFORE Y	2	0.462962963	288
22	8.64	2000	2	128159.88 4	BEFORE Y	2	0.231481481	288
22	8.64	2000	2	133008.63 5	BEFORE Y	2	0.231481481	288
22	8.64	2000	4	130778.89 6	BEFORE Y	3	0.462962963	288
22	8.64	2000	2	132797.89 7	BEFORE Y	3	0.231481481	288
22	8.64	2000	4	131588.93 8	BEFORE Y	3	0.462962963	288
22	8.64	2000	2	127000.65 9	BEFORE Y	4	0.231481481	288
22	8.64	2000	2	128516.6 10	BEFORE Y	4	0.231481481	288
22	8.64	2000	4	120678.52 11	BEFORE Y	4	0.462962963	288
22	8.64	2000	2	125000.61 12	BEFORE Y	1	0.231481481	288
22	8.64	2001	6	113226.54 1	BEFORE Y	1	0.694444444	288
22	8.64	2001	1	105706.41 2	BEFORE Y	1	0.115740741	288
22	8.64	2001	2	124161.92 3	BEFORE Y	2	0.231481481	288
22	8.64	2001	1	129331.19 4	BEFORE Y	2	0.115740741	288
22	8.64	2001	3	134224.26 5	BEFORE Y	2	0.347222222	288
22	8.64	2001	4	131974.14 6	BEFORE Y	3	0.462962963	288
22	8.64	2001	3	134011.6 7	BEFORE Y	3	0.347222222	288
22	8.64	2001	1	132791.58 8	BEFORE Y	3	0.115740741	288
22	8.64	2001	0	128161.36 9	BEFORE Y	4	0.000000000	288
22	8.64	2001	2	129691.17 10	BEFORE Y	4	0.231481481	288
22	8.64	2001	5	121781.46 11	BEFORE Y	4	0.578703704	288
22	8.64	2001	3	126143.05 12	BEFORE Y	1	0.347222222	288
22	8.64	2002	1	116527.25 1	BEFORE Y	1	0.115740741	288
22	8.64	2002	2	108787.9 2	BEFORE Y	1	0.231481481	288
22	8.64	2002	0	127781.41 3	BEFORE Y	2	0.000000000	288
22	8.64	2002	1	133101.38 4	BEFORE Y	2	0.115740741	288
22	8.64	2002	3	138137.09 5	BEFORE Y	2	0.347222222	288
22	8.64	2002	3	135821.38 6	BEFORE Y	3	0.347222222	288
22	8.64	2002	1	137918.22 7	BEFORE Y	3	0.115740741	288
22	8.64	2002	0	136662.64 8	BEFORE Y	3	0.000000000	288
22	8.64	2002	1	131897.45 9	BEFORE Y	4	0.115740741	288
22	8.64	2002	2	133471.85 10	BEFORE Y	4	0.231481481	288
22	8.64	2002	1	125331.56 11	BEFORE Y	4	0.115740741	288
22	8.64	2002	2	129820.29 12	BEFORE Y	1	0.231481481	288
22	8.64	2003	0	116435.88 1	BEFORE Y	1	0.000000000	288
22	8.64	2003	3	108702.6 2	BEFORE Y	1	0.347222222	288
22	8.64	2003	1	127681.22 3	BEFORE Y	2	0.115740741	288
22	8.64	2003	2	132997.02 4	BEFORE Y	2	0.231481481	288
22	8.64	2003	1	138028.78 5	BEFORE Y	2	0.115740741	288
22	8.64	2003	2	135714.88 6	BEFORE Y	3	0.231481481	288
22	8.64	2003	1	137810.08 7	BEFORE Y	3	0.115740741	288
22	8.64	2003	1	136555.49 8	BEFORE Y	3	0.115740741	288
22	8.64	2003	5	131794.03 9	BEFORE Y	4	0.578703704	288
22	8.64	2003	2	133367.2 10	BEFORE Y	4	0.231481481	288
22	8.64	2003	2	125233.29 11	BEFORE Y	4	0.231481481	288
22	8.64	2003	3	129718.5 12	BEFORE Y	1	0.347222222	288
22	8.64	2004	3	118810.01 1	BEFORE Y	1	0.347222222	288
22	8.64	2004	2	114880.44 2	BEFORE Y	1	0.231481481	288
22	8.64	2004	3	130284.64 3	BEFORE Y	2	0.347222222	288
22	8.64	2004	0	135708.82 4	BEFORE Y	2	0.000000000	288
22	8.64	2004	0	140843.18 5	BEFORE Y	2	0.000000000	288
22	8.64	2004	4	138482.1 6	BEFORE Y	3	0.462962963	288
22	8.64	2004	4	140620.03 7	BEFORE Y	3	0.462962963	288
22	8.64	2004	0	139339.85 8	BEFORE Y	3	0.000000000	288
22	8.64	2004	2	134481.31 9	BEFORE Y	4	0.231481481	288
22	8.64	2004	4	136086.55 10	BEFORE Y	4	0.462962963	288
22	8.64	2004	1	127786.79 11	BEFORE Y	4	0.115740741	288
22	8.64	2004	2	132363.46 12	BEFORE Y	1	0.231481481	288

22	8.64	2005	1	120509.51	1	BEFORE	Y	1	0.115740741	288
22	8.64	2005	1	112505.67	2	BEFORE	Y	1	0.115740741	288
22	8.64	2005	1	132148.28	3	BEFORE	Y	2	0.115740741	288
22	8.64	2005	2	137650.06	4	BEFORE	Y	2	0.231481481	288
22	8.64	2005	3	142857.86	5	BEFORE	Y	2	0.347222222	288
22	8.64	2005	2	140463.01	6	BEFORE	Y	3	0.231481481	288
22	8.64	2005	5	142631.51	7	BEFORE	Y	3	0.578703704	288
22	8.64	2005	1	141333.02	8	BEFORE	Y	3	0.115740741	288
22	8.64	2005	3	136404.98	9	BEFORE	Y	4	0.347222222	288
22	8.64	2005	1	138033.19	10	BEFORE	Y	4	0.115740741	288
22	8.64	2005	3	129614.71	11	BEFORE	Y	4	0.347222222	288
22	8.64	2005	1	134256.84	12	BEFORE	Y	1	0.115740741	288
23	3.2	1982	0	63673.63	1	BEFORE	Y	1	0.000000000	288
23	3.2	1982	0	59444.64	2	BEFORE	Y	1	0.000000000	288
23	3.2	1982	0	69823.21	3	BEFORE	Y	2	0.000000000	288
23	3.2	1982	0	72730.19	4	BEFORE	Y	2	0.000000000	288
23	3.2	1982	0	75481.83	5	BEFORE	Y	2	0.000000000	288
23	3.2	1982	1	74216.46	6	BEFORE	Y	3	0.312500000	288
23	3.2	1982	0	75362.24	7	BEFORE	Y	3	0.000000000	288
23	3.2	1982	0	74676.15	8	BEFORE	Y	3	0.000000000	288
23	3.2	1982	0	72072.32	9	BEFORE	Y	4	0.000000000	288
23	3.2	1982	0	72932.62	10	BEFORE	Y	4	0.000000000	288
23	3.2	1982	0	68484.55	11	BEFORE	Y	4	0.000000000	288
23	3.2	1982	0	70937.31	12	BEFORE	Y	1	0.000000000	288
23	3.2	1983	0	64728.11	1	BEFORE	Y	1	0.000000000	288
23	3.2	1983	0	60429.09	2	BEFORE	Y	1	0.000000000	288
23	3.2	1983	0	70979.53	3	BEFORE	Y	2	0.000000000	288
23	3.2	1983	0	73934.65	4	BEFORE	Y	2	0.000000000	288
23	3.2	1983	1	76731.86	5	BEFORE	Y	2	0.312500000	288
23	3.2	1983	0	75445.54	6	BEFORE	Y	3	0.000000000	288
23	3.2	1983	1	76610.29	7	BEFORE	Y	3	0.312500000	288
23	3.2	1983	1	75912.84	8	BEFORE	Y	3	0.312500000	288
23	3.2	1983	1	73265.89	9	BEFORE	Y	4	0.312500000	288
23	3.2	1983	1	74140.44	10	BEFORE	Y	4	0.312500000	288
23	3.2	1983	0	69618.7	11	BEFORE	Y	4	0.000000000	288
23	3.2	1983	0	72112.08	12	BEFORE	Y	1	0.000000000	288
23	3.2	1984	0	67253.56	1	BEFORE	Y	1	0.000000000	288
23	3.2	1984	0	65029.19	2	BEFORE	Y	1	0.000000000	288
23	3.2	1984	0	73748.89	3	BEFORE	Y	2	0.000000000	288
23	3.2	1984	0	76819.3	4	BEFORE	Y	2	0.000000000	288
23	3.2	1984	0	79725.66	5	BEFORE	Y	2	0.000000000	288
23	3.2	1984	1	78389.15	6	BEFORE	Y	3	0.312500000	288
23	3.2	1984	0	79599.34	7	BEFORE	Y	3	0.000000000	288
23	3.2	1984	0	78874.68	8	BEFORE	Y	3	0.000000000	288
23	3.2	1984	0	76124.46	9	BEFORE	Y	4	0.000000000	288
23	3.2	1984	1	77033.12	10	BEFORE	Y	4	0.312500000	288
23	3.2	1984	0	72334.96	11	BEFORE	Y	4	0.000000000	288
23	3.2	1984	1	74925.63	12	BEFORE	Y	1	0.312500000	288
23	3.2	1985	0	66015.02	1	BEFORE	Y	1	0.000000000	288
23	3.2	1985	0	61630.52	2	BEFORE	Y	1	0.000000000	288
23	3.2	1985	0	72390.73	3	BEFORE	Y	2	0.000000000	288
23	3.2	1985	0	75404.59	4	BEFORE	Y	2	0.000000000	288
23	3.2	1985	0	78257.42	5	BEFORE	Y	2	0.000000000	288
23	3.2	1985	0	76945.53	6	BEFORE	Y	3	0.000000000	288
23	3.2	1985	0	78133.43	7	BEFORE	Y	3	0.000000000	288
23	3.2	1985	0	77422.12	8	BEFORE	Y	3	0.000000000	288
23	3.2	1985	0	74722.54	9	BEFORE	Y	4	0.000000000	288
23	3.2	1985	0	75614.47	10	BEFORE	Y	4	0.000000000	288
23	3.2	1985	0	71002.83	11	BEFORE	Y	4	0.000000000	288
23	3.2	1985	0	73545.79	12	BEFORE	Y	1	0.000000000	288
23	3.2	1986	0	67253.56	1	BEFORE	Y	1	0.000000000	288
23	3.2	1986	0	62786.81	2	BEFORE	Y	1	0.000000000	288
23	3.2	1986	0	73748.89	3	BEFORE	Y	2	0.000000000	288
23	3.2	1986	0	76819.3	4	BEFORE	Y	2	0.000000000	288
23	3.2	1986	0	79725.66	5	BEFORE	Y	2	0.000000000	288
23	3.2	1986	1	78389.15	6	BEFORE	Y	3	0.312500000	288
23	3.2	1986	0	79599.34	7	BEFORE	Y	3	0.000000000	288
23	3.2	1986	0	78874.68	8	BEFORE	Y	3	0.000000000	288

23	3.2	1986	0	76124.46	9	BEFORE	Y	4	0.00000000	288
23	3.2	1986	0	77033.12	10	BEFORE	Y	4	0.00000000	288
23	3.2	1986	0	72334.96	11	BEFORE	Y	4	0.00000000	288
23	3.2	1986	0	74925.63	12	BEFORE	Y	1	0.00000000	288
23	3.2	1987	1	68379.8	1	BEFORE	Y	1	0.31250000	288
23	3.2	1987	0	63838.24	2	BEFORE	Y	1	0.00000000	288
23	3.2	1987	0	74983.9	3	BEFORE	Y	2	0.00000000	288
23	3.2	1987	1	78105.73	4	BEFORE	Y	2	0.31250000	288
23	3.2	1987	0	81060.75	5	BEFORE	Y	2	0.00000000	288
23	3.2	1987	1	79701.86	6	BEFORE	Y	3	0.31250000	288
23	3.2	1987	1	80932.32	7	BEFORE	Y	3	0.31250000	288
23	3.2	1987	0	80195.53	8	BEFORE	Y	3	0.00000000	288
23	3.2	1987	1	77399.24	9	BEFORE	Y	4	0.31250000	288
23	3.2	1987	1	78323.12	10	BEFORE	Y	4	0.31250000	288
23	3.2	1987	0	73546.29	11	BEFORE	Y	4	0.00000000	288
23	3.2	1987	0	76180.34	12	BEFORE	Y	1	0.00000000	288
23	3.2	1988	0	71696.11	1	BEFORE	Y	1	0.00000000	288
23	3.2	1988	2	69324.8	2	BEFORE	Y	1	0.62500000	288
23	3.2	1988	1	78620.5	3	BEFORE	Y	2	0.31250000	288
23	3.2	1988	0	81893.73	4	BEFORE	Y	2	0.00000000	288
23	3.2	1988	0	84992.07	5	BEFORE	Y	2	0.00000000	288
23	3.2	1988	1	83567.27	6	BEFORE	Y	3	0.31250000	288
23	3.2	1988	1	84857.41	7	BEFORE	Y	3	0.31250000	288
23	3.2	1988	1	84084.88	8	BEFORE	Y	3	0.31250000	288
23	3.2	1988	0	81152.98	9	BEFORE	Y	4	0.00000000	288
23	3.2	1988	0	82121.67	10	BEFORE	Y	4	0.00000000	288
23	3.2	1988	1	77113.17	11	BEFORE	Y	4	0.31250000	288
23	3.2	1988	0	79874.97	12	BEFORE	Y	1	0.00000000	288
23	3.2	1989	0	73912.7	1	BEFORE	Y	1	0.00000000	288
23	3.2	1989	0	69003.67	2	BEFORE	Y	1	0.00000000	288
23	3.2	1989	1	81051.17	3	BEFORE	Y	2	0.31250000	288
23	3.2	1989	0	84425.6	4	BEFORE	Y	2	0.00000000	288
23	3.2	1989	1	87619.72	5	BEFORE	Y	2	0.31250000	288
23	3.2	1989	0	86150.88	6	BEFORE	Y	3	0.00000000	288
23	3.2	1989	0	87480.9	7	BEFORE	Y	3	0.00000000	288
23	3.2	1989	2	86684.49	8	BEFORE	Y	3	0.62500000	288
23	3.2	1989	2	83661.95	9	BEFORE	Y	4	0.62500000	288
23	3.2	1989	0	84660.59	10	BEFORE	Y	4	0.00000000	288
23	3.2	1989	0	79497.24	11	BEFORE	Y	4	0.00000000	288
23	3.2	1989	2	82344.42	12	BEFORE	Y	1	0.62500000	288
23	3.2	1990	1	76066.9	1	BEFORE	Y	1	0.31250000	288
23	3.2	1990	0	71014.79	2	BEFORE	Y	1	0.00000000	288
23	3.2	1990	0	83413.42	3	BEFORE	Y	2	0.00000000	288
23	3.2	1990	0	86886.2	4	BEFORE	Y	2	0.00000000	288
23	3.2	1990	0	90173.42	5	BEFORE	Y	2	0.00000000	288
23	3.2	1990	0	88661.76	6	BEFORE	Y	3	0.00000000	288
23	3.2	1990	0	90030.55	7	BEFORE	Y	3	0.00000000	288
23	3.2	1990	0	89210.92	8	BEFORE	Y	3	0.00000000	288
23	3.2	1990	2	86100.29	9	BEFORE	Y	4	0.62500000	288
23	3.2	1990	2	87128.03	10	BEFORE	Y	4	0.62500000	288
23	3.2	1990	0	81814.2	11	BEFORE	Y	4	0.00000000	288
23	3.2	1990	0	84744.36	12	BEFORE	Y	1	0.00000000	288
23	3.2	1991	1	77994.14	1	BEFORE	Y	1	0.31250000	288
23	3.2	1991	0	72814.03	2	BEFORE	Y	1	0.00000000	288
23	3.2	1991	0	85526.78	3	BEFORE	Y	2	0.00000000	288
23	3.2	1991	0	89087.55	4	BEFORE	Y	2	0.00000000	288
23	3.2	1991	0	92458.05	5	BEFORE	Y	2	0.00000000	288
23	3.2	1991	0	90908.1	6	BEFORE	Y	3	0.00000000	288
23	3.2	1991	0	92311.57	7	BEFORE	Y	3	0.00000000	288
23	3.2	1991	1	91471.18	8	BEFORE	Y	3	0.31250000	288
23	3.2	1991	0	88281.73	9	BEFORE	Y	4	0.00000000	288
23	3.2	1991	1	89335.51	10	BEFORE	Y	4	0.31250000	288
23	3.2	1991	1	83887.05	11	BEFORE	Y	4	0.31250000	288
23	3.2	1991	0	86891.45	12	BEFORE	Y	1	0.00000000	288
23	3.2	1992	0	80158.47	1	BEFORE	Y	1	0.00000000	288
23	3.2	1992	0	77507.28	2	BEFORE	Y	1	0.00000000	288
23	3.2	1992	0	87900.15	3	BEFORE	Y	2	0.00000000	288
23	3.2	1992	0	91559.73	4	BEFORE	Y	2	0.00000000	288

23	3.2	1992	1	95023.77	5	BEFORE	Y	2	0.312500000	288
23	3.2	1992	0	93430.8	6	BEFORE	Y	3	0.000000000	288
23	3.2	1992	0	94873.21	7	BEFORE	Y	3	0.000000000	288
23	3.2	1992	0	94009.5	8	BEFORE	Y	3	0.000000000	288
23	3.2	1992	1	90731.55	9	BEFORE	Y	4	0.312500000	288
23	3.2	1992	0	91814.57	10	BEFORE	Y	4	0.000000000	288
23	3.2	1992	1	86214.91	11	BEFORE	Y	4	0.312500000	288
23	3.2	1992	0	89302.69	12	BEFORE	Y	1	0.000000000	288
23	3.2	1993	0	83392.89	1	BEFORE	Y	1	0.000000000	288
23	3.2	1993	1	77854.21	2	BEFORE	Y	1	0.312500000	288
23	3.2	1993	0	91446.95	3	BEFORE	Y	2	0.000000000	288
23	3.2	1993	0	95254.19	4	BEFORE	Y	2	0.000000000	288
23	3.2	1993	0	98858	5	BEFORE	Y	2	0.000000000	288
23	3.2	1993	1	97200.76	6	BEFORE	Y	3	0.312500000	288
23	3.2	1993	1	98701.37	7	BEFORE	Y	3	0.312500000	288
23	3.2	1993	0	97802.81	8	BEFORE	Y	3	0.000000000	288
23	3.2	1993	0	94392.6	9	BEFORE	Y	4	0.000000000	288
23	3.2	1993	0	95519.32	10	BEFORE	Y	4	0.000000000	288
23	3.2	1993	1	89693.71	11	BEFORE	Y	4	0.312500000	288
23	3.2	1993	1	92906.08	12	BEFORE	Y	1	0.312500000	288
23	3.2	1994	0	85504.19	1	BEFORE	Y	1	0.000000000	288
23	3.2	1994	0	79825.29	2	BEFORE	Y	1	0.000000000	288
23	3.2	1994	1	93762.16	3	BEFORE	Y	2	0.312500000	288
23	3.2	1994	0	97665.79	4	BEFORE	Y	2	0.000000000	288
23	3.2	1994	0	101360.84	5	BEFORE	Y	2	0.000000000	288
23	3.2	1994	0	99661.64	6	BEFORE	Y	3	0.000000000	288
23	3.2	1994	4	101200.25	7	BEFORE	Y	3	1.250000000	288
23	3.2	1994	0	100278.94	8	BEFORE	Y	3	0.000000000	288
23	3.2	1994	0	96782.38	9	BEFORE	Y	4	0.000000000	288
23	3.2	1994	0	97937.63	10	BEFORE	Y	4	0.000000000	288
23	3.2	1994	0	91964.53	11	BEFORE	Y	4	0.000000000	288
23	3.2	1994	1	95258.23	12	BEFORE	Y	1	0.312500000	288
23	3.2	1995	0	87539.84	1	BEFORE	Y	1	0.000000000	288
23	3.2	1995	0	81725.73	2	BEFORE	Y	1	0.000000000	288
23	3.2	1995	1	95994.41	3	BEFORE	Y	2	0.312500000	288
23	3.2	1995	0	99990.98	4	BEFORE	Y	2	0.000000000	288
23	3.2	1995	1	103774	5	BEFORE	Y	2	0.312500000	288
23	3.2	1995	0	102034.34	6	BEFORE	Y	3	0.000000000	288
23	3.2	1995	0	103609.58	7	BEFORE	Y	3	0.000000000	288
23	3.2	1995	0	102666.33	8	BEFORE	Y	3	0.000000000	288
23	3.2	1995	0	99086.54	9	BEFORE	Y	4	0.000000000	288
23	3.2	1995	0	100269.29	10	BEFORE	Y	4	0.000000000	288
23	3.2	1995	0	94153.98	11	BEFORE	Y	4	0.000000000	288
23	3.2	1995	1	97526.1	12	BEFORE	Y	1	0.312500000	288
23	3.2	1996	1	90587.07	1	BEFORE	Y	1	0.312500000	288
23	3.2	1996	0	87590.96	2	BEFORE	Y	1	0.000000000	288
23	3.2	1996	1	99335.94	3	BEFORE	Y	2	0.312500000	288
23	3.2	1996	0	103471.63	4	BEFORE	Y	2	0.000000000	288
23	3.2	1996	0	107386.33	5	BEFORE	Y	2	0.000000000	288
23	3.2	1996	1	105586.12	6	BEFORE	Y	3	0.312500000	288
23	3.2	1996	1	107216.19	7	BEFORE	Y	3	0.312500000	288
23	3.2	1996	0	106240.11	8	BEFORE	Y	3	0.000000000	288
23	3.2	1996	1	102535.7	9	BEFORE	Y	4	0.312500000	288
23	3.2	1996	0	103759.63	10	BEFORE	Y	4	0.000000000	288
23	3.2	1996	1	97431.45	11	BEFORE	Y	4	0.312500000	288
23	3.2	1996	0	100920.94	12	BEFORE	Y	1	0.000000000	288
23	3.2	1997	0	92033.08	1	BEFORE	Y	1	0.000000000	288
23	3.2	1997	2	85920.55	2	BEFORE	Y	1	0.625000000	288
23	3.2	1997	0	100921.61	3	BEFORE	Y	2	0.000000000	288
23	3.2	1997	0	105123.31	4	BEFORE	Y	2	0.000000000	288
23	3.2	1997	0	109100.5	5	BEFORE	Y	2	0.000000000	288
23	3.2	1997	0	107271.56	6	BEFORE	Y	3	0.000000000	288
23	3.2	1997	0	108927.65	7	BEFORE	Y	3	0.000000000	288
23	3.2	1997	1	107935.99	8	BEFORE	Y	3	0.312500000	288
23	3.2	1997	0	104172.45	9	BEFORE	Y	4	0.000000000	288
23	3.2	1997	1	105415.91	10	BEFORE	Y	4	0.312500000	288
23	3.2	1997	1	98986.71	11	BEFORE	Y	4	0.312500000	288
23	3.2	1997	0	102531.91	12	BEFORE	Y	1	0.000000000	288

23	3.2	1998	0	98090.87	1	BEFORE	Y	1	0.000000000	288
23	3.2	1998	1	91576	2	BEFORE	Y	1	0.312500000	288
23	3.2	1998	0	107564.46	3	BEFORE	Y	2	0.000000000	288
23	3.2	1998	0	112042.73	4	BEFORE	Y	2	0.000000000	288
23	3.2	1998	1	116281.71	5	BEFORE	Y	2	0.312500000	288
23	3.2	1998	0	114332.38	6	BEFORE	Y	3	0.000000000	288
23	3.2	1998	0	116097.47	7	BEFORE	Y	3	0.000000000	288
23	3.2	1998	0	115040.54	8	BEFORE	Y	3	0.000000000	288
23	3.2	1998	0	111029.27	9	BEFORE	Y	4	0.000000000	288
23	3.2	1998	0	112354.58	10	BEFORE	Y	4	0.000000000	288
23	3.2	1998	0	105502.21	11	BEFORE	Y	4	0.000000000	288
23	3.2	1998	0	109280.76	12	BEFORE	Y	1	0.000000000	288
23	3.2	1999	1	91079.78	1	BEFORE	Y	1	0.312500000	288
23	3.2	1999	0	85030.57	2	BEFORE	Y	1	0.000000000	288
23	3.2	1999	2	99876.24	3	BEFORE	Y	2	0.625000000	288
23	3.2	1999	0	104034.42	4	BEFORE	Y	2	0.000000000	288
23	3.2	1999	1	107970.42	5	BEFORE	Y	2	0.312500000	288
23	3.2	1999	0	106160.42	6	BEFORE	Y	3	0.000000000	288
23	3.2	1999	0	107799.35	7	BEFORE	Y	3	0.000000000	288
23	3.2	1999	0	106817.96	8	BEFORE	Y	3	0.000000000	288
23	3.2	1999	0	103093.4	9	BEFORE	Y	4	0.000000000	288
23	3.2	1999	0	104323.99	10	BEFORE	Y	4	0.000000000	288
23	3.2	1999	1	97961.39	11	BEFORE	Y	4	0.312500000	288
23	3.2	1999	0	101469.86	12	BEFORE	Y	1	0.000000000	288
23	3.2	2000	0	88914.58	1	BEFORE	Y	1	0.000000000	288
23	3.2	2000	0	85973.79	2	BEFORE	Y	1	0.000000000	288
23	3.2	2000	1	97501.93	3	BEFORE	Y	2	0.312500000	288
23	3.2	2000	2	101561.26	4	BEFORE	Y	2	0.625000000	288
23	3.2	2000	0	105403.69	5	BEFORE	Y	2	0.000000000	288
23	3.2	2000	1	103636.71	6	BEFORE	Y	3	0.312500000	288
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23	3.2	2000	0	100642.61	9	BEFORE	Y	4	0.000000000	288
23	3.2	2000	0	101843.94	10	BEFORE	Y	4	0.000000000	288
23	3.2	2000	1	95632.6	11	BEFORE	Y	4	0.312500000	288
23	3.2	2000	2	99057.67	12	BEFORE	Y	1	0.625000000	288
23	3.2	2001	0	89708.73	1	BEFORE	Y	1	0.000000000	288
23	3.2	2001	1	83750.58	2	BEFORE	Y	1	0.312500000	288
23	3.2	2001	0	98372.77	3	BEFORE	Y	2	0.000000000	288
23	3.2	2001	0	102468.36	4	BEFORE	Y	2	0.000000000	288
23	3.2	2001	0	106345.11	5	BEFORE	Y	2	0.000000000	288
23	3.2	2001	1	104562.35	6	BEFORE	Y	3	0.312500000	288
23	3.2	2001	0	106176.61	7	BEFORE	Y	3	0.000000000	288
23	3.2	2001	1	105210	8	BEFORE	Y	3	0.312500000	288
23	3.2	2001	0	101541.51	9	BEFORE	Y	4	0.000000000	288
23	3.2	2001	1	102753.56	10	BEFORE	Y	4	0.312500000	288
23	3.2	2001	2	96486.75	11	BEFORE	Y	4	0.625000000	288
23	3.2	2001	0	99942.41	12	BEFORE	Y	1	0.000000000	288
23	3.2	2002	0	92220.63	1	BEFORE	Y	1	0.000000000	288
23	3.2	2002	0	86095.64	2	BEFORE	Y	1	0.000000000	288
23	3.2	2002	1	101127.27	3	BEFORE	Y	2	0.312500000	288
23	3.2	2002	0	105337.53	4	BEFORE	Y	2	0.000000000	288
23	3.2	2002	0	109322.83	5	BEFORE	Y	2	0.000000000	288
23	3.2	2002	0	107490.16	6	BEFORE	Y	3	0.000000000	288
23	3.2	2002	0	109149.62	7	BEFORE	Y	3	0.000000000	288
23	3.2	2002	0	108155.95	8	BEFORE	Y	3	0.000000000	288
23	3.2	2002	0	104384.73	9	BEFORE	Y	4	0.000000000	288
23	3.2	2002	0	105630.73	10	BEFORE	Y	4	0.000000000	288
23	3.2	2002	0	99188.43	11	BEFORE	Y	4	0.000000000	288
23	3.2	2002	0	102740.85	12	BEFORE	Y	1	0.000000000	288
23	3.2	2003	3	97845.85	1	BEFORE	Y	1	0.937500000	288
23	3.2	2003	0	91347.25	2	BEFORE	Y	1	0.000000000	288
23	3.2	2003	0	107295.77	3	BEFORE	Y	2	0.000000000	288
23	3.2	2003	0	111762.85	4	BEFORE	Y	2	0.000000000	288
23	3.2	2003	1	115991.24	5	BEFORE	Y	2	0.312500000	288
23	3.2	2003	1	114046.78	6	BEFORE	Y	3	0.312500000	288
23	3.2	2003	0	115807.47	7	BEFORE	Y	3	0.000000000	288
23	3.2	2003	1	114753.18	8	BEFORE	Y	3	0.312500000	288

23	3.2	2003	0	110751.93 9	BEFORE Y	4	0.000000000	288
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23	3.2	2003	2	105238.67 11	BEFORE Y	4	0.625000000	288
23	3.2	2003	1	109007.78 12	BEFORE Y	1	0.312500000	288
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23	3.2	2004	1	96452.62 2	BEFORE Y	1	0.312500000	288
23	3.2	2004	0	109385.86 3	BEFORE Y	2	0.000000000	288
23	3.2	2004	0	113939.95 4	BEFORE Y	2	0.000000000	288
23	3.2	2004	0	118250.71 5	BEFORE Y	2	0.000000000	288
23	3.2	2004	0	116268.38 6	BEFORE Y	3	0.000000000	288
23	3.2	2004	0	118063.36 7	BEFORE Y	3	0.000000000	288
23	3.2	2004	0	116988.53 8	BEFORE Y	3	0.000000000	288
23	3.2	2004	3	112909.34 9	BEFORE Y	4	0.937500000	288
23	3.2	2004	0	114257.09 10	BEFORE Y	4	0.000000000	288
23	3.2	2004	0	107288.69 11	BEFORE Y	4	0.000000000	288
23	3.2	2004	2	111131.22 12	BEFORE Y	1	0.625000000	288
23	3.2	2005	0	99751.85 1	BEFORE Y	1	0.000000000	288
23	3.2	2005	0	96452.62 2	BEFORE Y	1	0.000000000	288
23	3.2	2005	1	109385.86 3	BEFORE Y	2	0.312500000	288
23	3.2	2005	1	113939.95 4	BEFORE Y	2	0.312500000	288
23	3.2	2005	0	118250.71 5	BEFORE Y	2	0.000000000	288
23	3.2	2005	0	116268.38 6	BEFORE Y	3	0.000000000	288
23	3.2	2005	1	118063.36 7	BEFORE Y	3	0.312500000	288
23	3.2	2005	2	116988.53 8	BEFORE Y	3	0.625000000	288
23	3.2	2005	0	112909.34 9	BEFORE Y	4	0.000000000	288
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23	3.2	2005	0	107288.69 11	BEFORE Y	4	0.000000000	288
23	3.2	2005	1	111131.22 12	BEFORE Y	1	0.312500000	288
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24	4.4	1982	1	80395.84 2	BEFORE Y	1	0.227272727	288
24	4.4	1982	0	94432.33 3	BEFORE Y	2	0.000000000	288
24	4.4	1982	0	98363.86 4	BEFORE Y	2	0.000000000	288
24	4.4	1982	0	102085.32 5	BEFORE Y	2	0.000000000	288
24	4.4	1982	0	100373.98 6	BEFORE Y	3	0.000000000	288
24	4.4	1982	0	101923.58 7	BEFORE Y	3	0.000000000	288
24	4.4	1982	1	100995.68 8	BEFORE Y	3	0.227272727	288
24	4.4	1982	1	97474.14 9	BEFORE Y	4	0.227272727	288
24	4.4	1982	1	98637.64 10	BEFORE Y	4	0.227272727	288
24	4.4	1982	0	92621.85 11	BEFORE Y	4	0.000000000	288
24	4.4	1982	2	95939.09 12	BEFORE Y	1	0.454545455	288
24	4.4	1983	2	87541.47 1	BEFORE Y	1	0.454545455	288
24	4.4	1983	2	81727.25 2	BEFORE Y	1	0.454545455	288
24	4.4	1983	0	95996.19 3	BEFORE Y	2	0.000000000	288
24	4.4	1983	0	99992.84 4	BEFORE Y	2	0.000000000	288
24	4.4	1983	2	103775.93 5	BEFORE Y	2	0.454545455	288
24	4.4	1983	1	102036.24 6	BEFORE Y	3	0.227272727	288
24	4.4	1983	0	103611.5 7	BEFORE Y	3	0.000000000	288
24	4.4	1983	1	102668.24 8	BEFORE Y	3	0.227272727	288
24	4.4	1983	0	99088.38 9	BEFORE Y	4	0.000000000	288
24	4.4	1983	1	100271.15 10	BEFORE Y	4	0.227272727	288
24	4.4	1983	0	94155.73 11	BEFORE Y	4	0.000000000	288
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24	4.4	1984	0	90957.01 1	BEFORE Y	1	0.000000000	288
24	4.4	1984	1	87948.66 2	BEFORE Y	1	0.227272727	288
24	4.4	1984	0	99741.61 3	BEFORE Y	2	0.000000000	288
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24	4.4	1984	2	107824.88 5	BEFORE Y	2	0.454545455	288
24	4.4	1984	4	106017.31 6	BEFORE Y	3	0.909090909	288
24	4.4	1984	1	107654.04 7	BEFORE Y	3	0.227272727	288
24	4.4	1984	0	106673.98 8	BEFORE Y	3	0.000000000	288
24	4.4	1984	2	102954.44 9	BEFORE Y	4	0.454545455	288
24	4.4	1984	0	104183.36 10	BEFORE Y	4	0.000000000	288
24	4.4	1984	3	97829.34 11	BEFORE Y	4	0.681818182	288
24	4.4	1984	3	101333.08 12	BEFORE Y	1	0.681818182	288
24	4.4	1985	1	89281.94 1	BEFORE Y	1	0.227272727	288
24	4.4	1985	0	83352.13 2	BEFORE Y	1	0.000000000	288
24	4.4	1985	1	97904.76 3	BEFORE Y	2	0.227272727	288
24	4.4	1985	0	101980.86 4	BEFORE Y	2	0.000000000	288

24	4.4	1985	0	105839.16 5	BEFORE Y	2	0.000000000	288
24	4.4	1985	1	104064.89 6	BEFORE Y	3	0.227272727	288
24	4.4	1985	2	105671.47 7	BEFORE Y	3	0.454545455	288
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24	4.4	1985	2	101058.42 9	BEFORE Y	4	0.454545455	288
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24	4.4	1986	0	90957.01 1	BEFORE Y	1	0.000000000	288
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24	4.4	1986	0	99741.61 3	BEFORE Y	2	0.000000000	288
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24	4.4	1986	0	107824.88 5	BEFORE Y	2	0.000000000	288
24	4.4	1986	0	106017.31 6	BEFORE Y	3	0.000000000	288
24	4.4	1986	0	107654.04 7	BEFORE Y	3	0.000000000	288
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24	4.4	1986	1	102954.44 9	BEFORE Y	4	0.227272727	288
24	4.4	1986	1	104183.36 10	BEFORE Y	4	0.227272727	288
24	4.4	1986	0	97829.34 11	BEFORE Y	4	0.000000000	288
24	4.4	1986	1	101333.08 12	BEFORE Y	1	0.227272727	288
24	4.4	1987	0	92480.18 1	BEFORE Y	1	0.000000000	288
24	4.4	1987	1	86337.96 2	BEFORE Y	1	0.227272727	288
24	4.4	1987	0	101411.89 3	BEFORE Y	2	0.000000000	288
24	4.4	1987	0	105634.01 4	BEFORE Y	2	0.000000000	288
24	4.4	1987	0	109630.52 5	BEFORE Y	2	0.000000000	288
24	4.4	1987	0	107792.69 6	BEFORE Y	3	0.000000000	288
24	4.4	1987	0	109456.83 7	BEFORE Y	3	0.000000000	288
24	4.4	1987	2	108460.35 8	BEFORE Y	3	0.454545455	288
24	4.4	1987	0	104678.52 9	BEFORE Y	4	0.000000000	288
24	4.4	1987	2	105928.02 10	BEFORE Y	4	0.454545455	288
24	4.4	1987	1	99467.6 11	BEFORE Y	4	0.227272727	288
24	4.4	1987	1	103030.02 12	BEFORE Y	1	0.227272727	288
24	4.4	1988	0	96965.32 1	BEFORE Y	1	0.000000000	288
24	4.4	1988	2	93758.25 2	BEFORE Y	1	0.454545455	288
24	4.4	1988	1	106330.2 3	BEFORE Y	2	0.227272727	288
24	4.4	1988	0	110757.09 4	BEFORE Y	2	0.000000000	288
24	4.4	1988	0	114947.43 5	BEFORE Y	2	0.000000000	288
24	4.4	1988	1	113020.46 6	BEFORE Y	3	0.227272727	288
24	4.4	1988	0	114765.31 7	BEFORE Y	3	0.000000000	288
24	4.4	1988	0	113720.5 8	BEFORE Y	3	0.000000000	288
24	4.4	1988	1	109755.26 9	BEFORE Y	4	0.227272727	288
24	4.4	1988	0	111065.36 10	BEFORE Y	4	0.000000000	288
24	4.4	1988	1	104291.62 11	BEFORE Y	4	0.227272727	288
24	4.4	1988	2	108026.81 12	BEFORE Y	1	0.454545455	288
24	4.4	1989	1	99963.15 1	BEFORE Y	1	0.227272727	288
24	4.4	1989	2	93323.93 2	BEFORE Y	1	0.454545455	288
24	4.4	1989	0	109617.56 3	BEFORE Y	2	0.000000000	288
24	4.4	1989	2	114181.31 4	BEFORE Y	2	0.454545455	288
24	4.4	1989	1	118501.2 5	BEFORE Y	2	0.227272727	288
24	4.4	1989	0	116514.66 6	BEFORE Y	3	0.000000000	288
24	4.4	1989	0	118313.45 7	BEFORE Y	3	0.000000000	288
24	4.4	1989	0	117236.34 8	BEFORE Y	3	0.000000000	288
24	4.4	1989	0	113148.51 9	BEFORE Y	4	0.000000000	288
24	4.4	1989	1	114499.12 10	BEFORE Y	4	0.227272727	288
24	4.4	1989	3	107515.95 11	BEFORE Y	4	0.681818182	288
24	4.4	1989	1	111366.62 12	BEFORE Y	1	0.227272727	288
24	4.4	1990	0	102876.6 1	BEFORE Y	1	0.000000000	288
24	4.4	1990	1	96043.88 2	BEFORE Y	1	0.227272727	288
24	4.4	1990	2	112812.39 3	BEFORE Y	2	0.454545455	288
24	4.4	1990	1	117509.14 4	BEFORE Y	2	0.227272727	288
24	4.4	1990	4	121954.94 5	BEFORE Y	2	0.909090909	288
24	4.4	1990	1	119910.5 6	BEFORE Y	3	0.227272727	288
24	4.4	1990	1	121761.71 7	BEFORE Y	3	0.227272727	288
24	4.4	1990	1	120653.22 8	BEFORE Y	3	0.227272727	288
24	4.4	1990	2	116446.25 9	BEFORE Y	4	0.454545455	288
24	4.4	1990	3	117836.21 10	BEFORE Y	4	0.681818182	288
24	4.4	1990	1	110649.52 11	BEFORE Y	4	0.227272727	288
24	4.4	1990	3	114612.42 12	BEFORE Y	1	0.681818182	288

24	4.4	1991	3	105483.08 1	BEFORE Y	1	0.681818182	288
24	4.4	1991	0	98477.25 2	BEFORE Y	1	0.000000000	288
24	4.4	1991	1	115670.61 3	BEFORE Y	2	0.227272727	288
24	4.4	1991	3	120486.36 4	BEFORE Y	2	0.681818182	288
24	4.4	1991	1	125044.79 5	BEFORE Y	2	0.227272727	288
24	4.4	1991	1	122948.56 6	BEFORE Y	3	0.227272727	288
24	4.4	1991	0	124846.67 7	BEFORE Y	3	0.000000000	288
24	4.4	1991	0	123710.09 8	BEFORE Y	3	0.000000000	288
24	4.4	1991	0	119396.53 9	BEFORE Y	4	0.000000000	288
24	4.4	1991	1	120821.72 10	BEFORE Y	4	0.227272727	288
24	4.4	1991	0	113452.94 11	BEFORE Y	4	0.000000000	288
24	4.4	1991	1	117516.25 12	BEFORE Y	1	0.227272727	288
24	4.4	1992	0	108410.24 1	BEFORE Y	1	0.000000000	288
24	4.4	1992	0	104824.64 2	BEFORE Y	1	0.000000000	288
24	4.4	1992	2	118880.47 3	BEFORE Y	2	0.454545455	288
24	4.4	1992	1	123829.86 4	BEFORE Y	2	0.227272727	288
24	4.4	1992	2	128514.79 5	BEFORE Y	2	0.454545455	288
24	4.4	1992	2	126360.38 6	BEFORE Y	3	0.454545455	288
24	4.4	1992	1	128311.17 7	BEFORE Y	3	0.227272727	288
24	4.4	1992	1	127143.05 8	BEFORE Y	3	0.227272727	288
24	4.4	1992	3	122709.79 9	BEFORE Y	4	0.681818182	288
24	4.4	1992	3	124174.52 10	BEFORE Y	4	0.681818182	288
24	4.4	1992	4	116601.26 11	BEFORE Y	4	0.909090909	288
24	4.4	1992	1	120777.32 12	BEFORE Y	1	0.227272727	288
24	4.4	1993	1	112784.62 1	BEFORE Y	1	0.227272727	288
24	4.4	1993	0	105293.84 2	BEFORE Y	1	0.000000000	288
24	4.4	1993	5	123677.33 3	BEFORE Y	2	1.136363636	288
24	4.4	1993	2	128826.43 4	BEFORE Y	2	0.454545455	288
24	4.4	1993	1	133700.4 5	BEFORE Y	2	0.227272727	288
24	4.4	1993	3	131459.06 6	BEFORE Y	3	0.681818182	288
24	4.4	1993	2	133488.56 7	BEFORE Y	3	0.454545455	288
24	4.4	1993	1	132273.31 8	BEFORE Y	3	0.227272727	288
24	4.4	1993	2	127661.16 9	BEFORE Y	4	0.454545455	288
24	4.4	1993	2	129185 10	BEFORE Y	4	0.454545455	288
24	4.4	1993	0	121306.16 11	BEFORE Y	4	0.000000000	288
24	4.4	1993	1	125650.72 12	BEFORE Y	1	0.227272727	288
24	4.4	1994	3	115640.05 1	BEFORE Y	1	0.681818182	288
24	4.4	1994	0	107959.62 2	BEFORE Y	1	0.000000000	288
24	4.4	1994	0	126808.53 3	BEFORE Y	2	0.000000000	288
24	4.4	1994	3	132087.99 4	BEFORE Y	2	0.681818182	288
24	4.4	1994	3	137085.36 5	BEFORE Y	2	0.681818182	288
24	4.4	1994	0	134787.28 6	BEFORE Y	3	0.000000000	288
24	4.4	1994	0	136868.16 7	BEFORE Y	3	0.000000000	288
24	4.4	1994	2	135622.14 8	BEFORE Y	3	0.454545455	288
24	4.4	1994	0	130893.23 9	BEFORE Y	4	0.000000000	288
24	4.4	1994	0	132455.64 10	BEFORE Y	4	0.000000000	288
24	4.4	1994	1	124377.33 11	BEFORE Y	4	0.227272727	288
24	4.4	1994	3	128831.89 12	BEFORE Y	1	0.681818182	288
24	4.4	1995	2	118393.16 1	BEFORE Y	1	0.454545455	288
24	4.4	1995	1	110529.88 2	BEFORE Y	1	0.227272727	288
24	4.4	1995	0	129827.53 3	BEFORE Y	2	0.000000000	288
24	4.4	1995	2	135232.69 4	BEFORE Y	2	0.454545455	288
24	4.4	1995	0	140349.03 5	BEFORE Y	2	0.000000000	288
24	4.4	1995	2	137996.23 6	BEFORE Y	3	0.454545455	288
24	4.4	1995	1	140126.66 7	BEFORE Y	3	0.227272727	288
24	4.4	1995	1	138850.97 8	BEFORE Y	3	0.227272727	288
24	4.4	1995	0	134009.48 9	BEFORE Y	4	0.000000000	288
24	4.4	1995	1	135609.09 10	BEFORE Y	4	0.227272727	288
24	4.4	1995	4	127338.45 11	BEFORE Y	4	0.909090909	288
24	4.4	1995	0	131899.06 12	BEFORE Y	1	0.000000000	288
24	4.4	1996	1	122514.38 1	BEFORE Y	1	0.227272727	288
24	4.4	1996	2	118462.29 2	BEFORE Y	1	0.454545455	288
24	4.4	1996	0	134346.78 3	BEFORE Y	2	0.000000000	288
24	4.4	1996	2	139940.09 4	BEFORE Y	2	0.454545455	288
24	4.4	1996	3	145234.53 5	BEFORE Y	2	0.681818182	288
24	4.4	1996	3	142799.84 6	BEFORE Y	3	0.681818182	288
24	4.4	1996	1	145004.42 7	BEFORE Y	3	0.227272727	288
24	4.4	1996	1	143684.33 8	BEFORE Y	3	0.227272727	288

24	4.4	1996	2	138674.3	9	BEFORE	Y	4	0.454545455	288
24	4.4	1996	1	140329.59	10	BEFORE	Y	4	0.227272727	288
24	4.4	1996	0	131771.06	11	BEFORE	Y	4	0.000000000	288
24	4.4	1996	2	136490.42	12	BEFORE	Y	1	0.454545455	288
24	4.4	1997	3	124470.04	1	BEFORE	Y	1	0.681818182	288
24	4.4	1997	2	116203.15	2	BEFORE	Y	1	0.454545455	288
24	4.4	1997	2	136491.31	3	BEFORE	Y	2	0.454545455	288
24	4.4	1997	1	142173.9	4	BEFORE	Y	2	0.227272727	288
24	4.4	1997	3	147552.86	5	BEFORE	Y	2	0.681818182	288
24	4.4	1997	1	145079.3	6	BEFORE	Y	3	0.227272727	288
24	4.4	1997	1	147319.08	7	BEFORE	Y	3	0.227272727	288
24	4.4	1997	1	145977.91	8	BEFORE	Y	3	0.227272727	288
24	4.4	1997	0	140887.91	9	BEFORE	Y	4	0.000000000	288
24	4.4	1997	0	142569.63	10	BEFORE	Y	4	0.000000000	288
24	4.4	1997	2	133874.47	11	BEFORE	Y	4	0.454545455	288
24	4.4	1997	2	138669.17	12	BEFORE	Y	1	0.454545455	288
24	4.4	1998	0	163957.63	1	BEFORE	Y	1	0.000000000	288
24	4.4	1998	1	153068.11	2	BEFORE	Y	1	0.227272727	288
24	4.4	1998	0	179792.61	3	BEFORE	Y	2	0.000000000	288
24	4.4	1998	1	187277.97	4	BEFORE	Y	2	0.227272727	288
24	4.4	1998	2	194363.38	5	BEFORE	Y	2	0.454545455	288
24	4.4	1998	0	191105.09	6	BEFORE	Y	3	0.000000000	288
24	4.4	1998	1	194055.43	7	BEFORE	Y	3	0.227272727	288
24	4.4	1998	5	192288.78	8	BEFORE	Y	3	1.136363636	288
24	4.4	1998	1	185584	9	BEFORE	Y	4	0.227272727	288
24	4.4	1998	0	187799.24	10	BEFORE	Y	4	0.000000000	288
24	4.4	1998	2	176345.58	11	BEFORE	Y	4	0.454545455	288
24	4.4	1998	0	182661.38	12	BEFORE	Y	1	0.000000000	288
24	4.4	1999	2	165619.08	1	BEFORE	Y	1	0.454545455	288
24	4.4	1999	2	154619.22	2	BEFORE	Y	1	0.454545455	288
24	4.4	1999	1	181614.52	3	BEFORE	Y	2	0.227272727	288
24	4.4	1999	1	189175.74	4	BEFORE	Y	2	0.227272727	288
24	4.4	1999	1	196332.94	5	BEFORE	Y	2	0.227272727	288
24	4.4	1999	1	193041.64	6	BEFORE	Y	3	0.227272727	288
24	4.4	1999	0	196021.87	7	BEFORE	Y	3	0.000000000	288
24	4.4	1999	1	194237.33	8	BEFORE	Y	3	0.227272727	288
24	4.4	1999	1	187464.6	9	BEFORE	Y	4	0.227272727	288
24	4.4	1999	1	189702.29	10	BEFORE	Y	4	0.227272727	288
24	4.4	1999	0	178132.57	11	BEFORE	Y	4	0.000000000	288
24	4.4	1999	1	184512.36	12	BEFORE	Y	1	0.227272727	288
24	4.4	2000	0	161181.45	1	BEFORE	Y	1	0.000000000	288
24	4.4	2000	0	155850.47	2	BEFORE	Y	1	0.000000000	288
24	4.4	2000	0	176748.3	3	BEFORE	Y	2	0.000000000	288
24	4.4	2000	2	184106.93	4	BEFORE	Y	2	0.454545455	288
24	4.4	2000	2	191072.36	5	BEFORE	Y	2	0.454545455	288
24	4.4	2000	3	187869.25	6	BEFORE	Y	3	0.681818182	288
24	4.4	2000	3	190769.62	7	BEFORE	Y	3	0.681818182	288
24	4.4	2000	1	189032.89	8	BEFORE	Y	3	0.227272727	288
24	4.4	2000	1	182441.64	9	BEFORE	Y	4	0.227272727	288
24	4.4	2000	1	184619.36	10	BEFORE	Y	4	0.227272727	288
24	4.4	2000	3	173359.65	11	BEFORE	Y	4	0.681818182	288
24	4.4	2000	6	179568.5	12	BEFORE	Y	1	1.363636364	288
24	4.4	2001	4	161642.95	1	BEFORE	Y	1	0.909090909	288
24	4.4	2001	1	150907.16	2	BEFORE	Y	1	0.227272727	288
24	4.4	2001	2	177254.37	3	BEFORE	Y	2	0.454545455	288
24	4.4	2001	4	184634.06	4	BEFORE	Y	2	0.909090909	288
24	4.4	2001	4	191619.44	5	BEFORE	Y	2	0.909090909	288
24	4.4	2001	1	188407.15	6	BEFORE	Y	3	0.227272727	288
24	4.4	2001	1	191315.84	7	BEFORE	Y	3	0.227272727	288
24	4.4	2001	1	189574.13	8	BEFORE	Y	3	0.227272727	288
24	4.4	2001	4	182964.01	9	BEFORE	Y	4	0.909090909	288
24	4.4	2001	6	185147.97	10	BEFORE	Y	4	1.363636364	288
24	4.4	2001	4	173856.01	11	BEFORE	Y	4	0.909090909	288
24	4.4	2001	2	180082.64	12	BEFORE	Y	1	0.454545455	288
24	4.4	2002	3	218417.13	1	BEFORE	Y	1	0.681818182	288
24	4.4	2002	3	203910.6	2	BEFORE	Y	1	0.681818182	288
24	4.4	2002	0	239511.79	3	BEFORE	Y	2	0.000000000	288
24	4.4	2002	4	249483.47	4	BEFORE	Y	2	0.909090909	288

24	4.4	2002	4	258922.33	5	BEFORE	Y	2	0.909090909	288
24	4.4	2002	0	254581.79	6	BEFORE	Y	3	0.000000000	288
24	4.4	2002	1	258512.09	7	BEFORE	Y	3	0.227272727	288
24	4.4	2002	4	256158.65	8	BEFORE	Y	3	0.909090909	288
24	4.4	2002	0	247226.83	9	BEFORE	Y	4	0.000000000	288
24	4.4	2002	5	250177.87	10	BEFORE	Y	4	1.136363636	288
24	4.4	2002	5	234919.82	11	BEFORE	Y	4	1.136363636	288
24	4.4	2002	1	243333.44	12	BEFORE	Y	1	0.227272727	288
24	4.39	2003	0	219001.72	1	BEFORE	Y	1	0.000000000	288
24	4.39	2003	1	204456.35	2	BEFORE	Y	1	0.227790433	288
24	4.39	2003	1	240152.83	3	BEFORE	Y	2	0.227790433	288
24	4.39	2003	2	250151.2	4	BEFORE	Y	2	0.455580866	288
24	4.39	2003	1	259615.32	5	BEFORE	Y	2	0.227790433	288
24	4.39	2003	1	255263.16	6	BEFORE	Y	3	0.227790433	288
24	4.39	2003	1	259203.99	7	BEFORE	Y	3	0.227790433	288
24	4.39	2003	1	256844.24	8	BEFORE	Y	3	0.227790433	288
24	4.39	2003	1	247888.52	9	BEFORE	Y	4	0.227790433	288
24	4.39	2003	2	250847.46	10	BEFORE	Y	4	0.455580866	288
24	4.39	2003	1	235548.57	11	BEFORE	Y	4	0.227790433	288
24	4.39	2003	2	243984.71	12	BEFORE	Y	1	0.455580866	288
24	4.39	2004	4	147950.79	1	BEFORE	Y	1	0.911161731	288
24	4.39	2004	2	143057.4	2	BEFORE	Y	1	0.455580866	288
24	4.39	2004	1	162239.83	3	BEFORE	Y	2	0.227790433	288
24	4.39	2004	2	168994.41	4	BEFORE	Y	2	0.455580866	288
24	4.39	2004	2	175388.08	5	BEFORE	Y	2	0.455580866	288
24	4.39	2004	2	172447.9	6	BEFORE	Y	3	0.455580866	288
24	4.39	2004	1	175110.2	7	BEFORE	Y	3	0.227790433	288
24	4.39	2004	2	173516.03	8	BEFORE	Y	3	0.455580866	288
24	4.39	2004	2	167465.82	9	BEFORE	Y	4	0.455580866	288
24	4.39	2004	0	169464.79	10	BEFORE	Y	4	0.000000000	288
24	4.39	2004	0	159129.33	11	BEFORE	Y	4	0.000000000	288
24	4.39	2004	1	164828.53	12	BEFORE	Y	1	0.227790433	288
24	4.39	2005	4	147950.79	1	BEFORE	Y	1	0.911161731	288
24	4.39	2005	2	143057.4	2	BEFORE	Y	1	0.455580866	288
24	4.39	2005	1	162239.83	3	BEFORE	Y	2	0.227790433	288
24	4.39	2005	2	168994.41	4	BEFORE	Y	2	0.455580866	288
24	4.39	2005	2	175388.08	5	BEFORE	Y	2	0.455580866	288
24	4.39	2005	2	172447.9	6	BEFORE	Y	3	0.455580866	288
24	4.39	2005	1	175110.2	7	BEFORE	Y	3	0.227790433	288
24	4.39	2005	2	173516.03	8	BEFORE	Y	3	0.455580866	288
24	4.39	2005	2	167465.82	9	BEFORE	Y	4	0.455580866	288
24	4.39	2005	0	169464.79	10	BEFORE	Y	4	0.000000000	288
24	4.39	2005	0	159129.33	11	BEFORE	Y	4	0.000000000	288
24	4.39	2005	1	164828.53	12	BEFORE	Y	1	0.227790433	288
25	4.27	1982	0	79657.46	1	BEFORE	Y	1	0.000000000	288
25	4.27	1982	1	74366.88	2	BEFORE	Y	1	0.234192037	288
25	4.27	1982	0	87350.75	3	BEFORE	Y	2	0.000000000	288
25	4.27	1982	0	90987.45	4	BEFORE	Y	2	0.000000000	288
25	4.27	1982	1	94429.84	5	BEFORE	Y	2	0.234192037	288
25	4.27	1982	0	92846.83	6	BEFORE	Y	3	0.000000000	288
25	4.27	1982	2	94280.23	7	BEFORE	Y	3	0.468384075	288
25	4.27	1982	0	93421.92	8	BEFORE	Y	3	0.000000000	288
25	4.27	1982	0	90164.45	9	BEFORE	Y	4	0.000000000	288
25	4.27	1982	1	91240.71	10	BEFORE	Y	4	0.234192037	288
25	4.27	1982	0	85676.04	11	BEFORE	Y	4	0.000000000	288
25	4.27	1982	0	88744.52	12	BEFORE	Y	1	0.000000000	288
25	4.27	1983	0	80976.64	1	BEFORE	Y	1	0.000000000	288
25	4.27	1983	0	75598.45	2	BEFORE	Y	1	0.000000000	288
25	4.27	1983	1	88797.34	3	BEFORE	Y	2	0.234192037	288
25	4.27	1983	0	92494.27	4	BEFORE	Y	2	0.000000000	288
25	4.27	1983	1	95993.66	5	BEFORE	Y	2	0.234192037	288
25	4.27	1983	1	94384.44	6	BEFORE	Y	3	0.234192037	288
25	4.27	1983	0	95841.57	7	BEFORE	Y	3	0.000000000	288
25	4.27	1983	0	94969.05	8	BEFORE	Y	3	0.000000000	288
25	4.27	1983	0	91657.64	9	BEFORE	Y	4	0.000000000	288
25	4.27	1983	0	92751.72	10	BEFORE	Y	4	0.000000000	288
25	4.27	1983	0	87094.9	11	BEFORE	Y	4	0.000000000	288
25	4.27	1983	0	90214.19	12	BEFORE	Y	1	0.000000000	288

25	4.27	1984	3	84136.05	1	BEFORE	Y	1	0.702576112	288
25	4.27	1984	1	81353.3	2	BEFORE	Y	1	0.234192037	288
25	4.27	1984	0	92261.88	3	BEFORE	Y	2	0.000000000	288
25	4.27	1984	1	96103.05	4	BEFORE	Y	2	0.234192037	288
25	4.27	1984	2	99738.98	5	BEFORE	Y	2	0.468384075	288
25	4.27	1984	2	98066.97	6	BEFORE	Y	3	0.468384075	288
25	4.27	1984	0	99580.95	7	BEFORE	Y	3	0.000000000	288
25	4.27	1984	0	98674.39	8	BEFORE	Y	3	0.000000000	288
25	4.27	1984	0	95233.78	9	BEFORE	Y	4	0.000000000	288
25	4.27	1984	0	96370.54	10	BEFORE	Y	4	0.000000000	288
25	4.27	1984	0	90493.02	11	BEFORE	Y	4	0.000000000	288
25	4.27	1984	1	93734.01	12	BEFORE	Y	1	0.234192037	288
25	4.27	1985	0	82586.59	1	BEFORE	Y	1	0.000000000	288
25	4.27	1985	0	77101.47	2	BEFORE	Y	1	0.000000000	288
25	4.27	1985	0	90562.78	3	BEFORE	Y	2	0.000000000	288
25	4.27	1985	0	94333.21	4	BEFORE	Y	2	0.000000000	288
25	4.27	1985	1	97902.18	5	BEFORE	Y	2	0.234192037	288
25	4.27	1985	0	96260.96	6	BEFORE	Y	3	0.000000000	288
25	4.27	1985	0	97747.06	7	BEFORE	Y	3	0.000000000	288
25	4.27	1985	1	96857.19	8	BEFORE	Y	3	0.234192037	288
25	4.27	1985	0	93479.95	9	BEFORE	Y	4	0.000000000	288
25	4.27	1985	0	94595.78	10	BEFORE	Y	4	0.000000000	288
25	4.27	1985	1	88826.49	11	BEFORE	Y	4	0.234192037	288
25	4.27	1985	0	92007.8	12	BEFORE	Y	1	0.000000000	288
25	4.27	1986	0	84136.05	1	BEFORE	Y	1	0.000000000	288
25	4.27	1986	0	78548.02	2	BEFORE	Y	1	0.000000000	288
25	4.27	1986	1	92261.88	3	BEFORE	Y	2	0.234192037	288
25	4.27	1986	1	96103.05	4	BEFORE	Y	2	0.234192037	288
25	4.27	1986	0	99738.98	5	BEFORE	Y	2	0.000000000	288
25	4.27	1986	1	98066.97	6	BEFORE	Y	3	0.234192037	288
25	4.27	1986	1	99580.95	7	BEFORE	Y	3	0.234192037	288
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25	4.27	1987	0	85545	1	BEFORE	Y	1	0.000000000	288
25	4.27	1987	0	79863.39	2	BEFORE	Y	1	0.000000000	288
25	4.27	1987	2	93806.91	3	BEFORE	Y	2	0.468384075	288
25	4.27	1987	0	97712.41	4	BEFORE	Y	2	0.000000000	288
25	4.27	1987	1	101409.22	5	BEFORE	Y	2	0.234192037	288
25	4.27	1987	0	99709.21	6	BEFORE	Y	3	0.000000000	288
25	4.27	1987	0	101248.55	7	BEFORE	Y	3	0.000000000	288
25	4.27	1987	1	100326.8	8	BEFORE	Y	3	0.234192037	288
25	4.27	1987	0	96828.58	9	BEFORE	Y	4	0.000000000	288
25	4.27	1987	0	97984.38	10	BEFORE	Y	4	0.000000000	288
25	4.27	1987	0	92008.42	11	BEFORE	Y	4	0.000000000	288
25	4.27	1987	0	95303.69	12	BEFORE	Y	1	0.000000000	288
25	4.27	1988	0	89693.8	1	BEFORE	Y	1	0.000000000	288
25	4.27	1988	0	86727.23	2	BEFORE	Y	1	0.000000000	288
25	4.27	1988	0	98356.4	3	BEFORE	Y	2	0.000000000	288
25	4.27	1988	0	102451.3	4	BEFORE	Y	2	0.000000000	288
25	4.27	1988	1	106327.4	5	BEFORE	Y	2	0.234192037	288
25	4.27	1988	0	104544.95	6	BEFORE	Y	3	0.000000000	288
25	4.27	1988	0	106158.94	7	BEFORE	Y	3	0.000000000	288
25	4.27	1988	1	105192.49	8	BEFORE	Y	3	0.234192037	288
25	4.27	1988	0	101524.61	9	BEFORE	Y	4	0.000000000	288
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25	4.27	1988	2	96470.69	11	BEFORE	Y	4	0.468384075	288
25	4.27	1988	2	99925.77	12	BEFORE	Y	1	0.468384075	288
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25	4.27	1989	0	86325.48	2	BEFORE	Y	1	0.000000000	288
25	4.27	1989	0	101397.23	3	BEFORE	Y	2	0.000000000	288
25	4.27	1989	0	105618.74	4	BEFORE	Y	2	0.000000000	288
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25	4.27	1989	1	107777.11	6	BEFORE	Y	3	0.234192037	288
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25	4.27	1992	0	114543.73 4	BEFORE Y	2	0.000000000	288
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25	4.27	1992	0	111720.11 12	BEFORE Y	1	0.000000000	288
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25	4.27	1993	1	119165.6 4	BEFORE Y	2	0.234192037	288
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25	4.27	1993	1	112209.29 11	BEFORE Y	4	0.234192037	288
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25	4.27	1994	1	99863.62 2	BEFORE Y	1	0.234192037	288
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25	4.27	1994	1	115050.15 11	BEFORE Y	4	0.234192037	288
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25	4.27	1996	0	129806.13 10	BEFORE Y	4	0.000000000	288
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25	4.27	1997	0	130322.58 9	BEFORE Y	4	0.000000000	288
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25	4.27	1998	0	141570.51 4	BEFORE Y	2	0.000000000	288
25	4.27	1998	2	146926.63 5	BEFORE Y	2	0.468384075	288
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25	4.27	1998	3	133306.3 11	BEFORE Y	4	0.702576112	288
25	4.27	1998	1	138080.65 12	BEFORE Y	1	0.234192037	288
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25	4.27	1999	0	127361.05 3	BEFORE Y	2	0.000000000	288
25	4.27	1999	0	132663.52 4	BEFORE Y	2	0.000000000	288
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25	4.27	1999	0	137464.52 7	BEFORE Y	3	0.000000000	288
25	4.27	1999	1	136213.06 8	BEFORE Y	3	0.234192037	288
25	4.27	1999	1	131463.55 9	BEFORE Y	4	0.234192037	288
25	4.27	1999	1	133032.77 10	BEFORE Y	4	0.234192037	288
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25	4.27	1999	0	129393.23 12	BEFORE Y	1	0.000000000	288
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25	4.27	2000	1	130482.25 4	BEFORE Y	2	0.234192037	288
25	4.27	2000	0	135418.86 5	BEFORE Y	2	0.000000000	288
25	4.27	2000	0	133148.72 6	BEFORE Y	3	0.000000000	288
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25	4.27	2000	1	129302 9	BEFORE Y	4	0.234192037	288
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25	4.27	2000	1	122865.32 11	BEFORE Y	4	0.234192037	288
25	4.27	2000	1	127265.72 12	BEFORE Y	1	0.234192037	288

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25	4.27	2001	1	137405.83 5	BEFORE Y	2	0.234192037	288
25	4.27	2001	1	135102.38 6	BEFORE Y	3	0.234192037	288
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25	4.27	2002	0	121624.16 1	BEFORE Y	1	0.000000000	288
25	4.27	2002	0	113546.29 2	BEFORE Y	1	0.000000000	288
25	4.27	2002	0	133370.58 3	BEFORE Y	2	0.000000000	288
25	4.27	2002	0	138923.25 4	BEFORE Y	2	0.000000000	288
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25	4.27	2002	0	137666.65 9	BEFORE Y	4	0.000000000	288
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25	4.27	2002	0	135498.64 12	BEFORE Y	1	0.000000000	288
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25	4.27	2003	1	134318.78 3	BEFORE Y	2	0.234192037	288
25	4.27	2003	0	139910.92 4	BEFORE Y	2	0.000000000	288
25	4.27	2003	1	145204.25 5	BEFORE Y	2	0.234192037	288
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25	4.27	2003	0	131743.59 11	BEFORE Y	4	0.000000000	288
25	4.27	2003	0	136461.97 12	BEFORE Y	1	0.000000000	288
25	4.27	2004	0	127644.73 1	BEFORE Y	1	0.000000000	288
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25	4.27	2004	0	139972.62 3	BEFORE Y	2	0.000000000	288
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25	4.27	2004	1	151316.29 5	BEFORE Y	2	0.234192037	288
25	4.27	2004	0	148779.65 6	BEFORE Y	3	0.000000000	288
25	4.27	2004	0	151076.55 7	BEFORE Y	3	0.000000000	288
25	4.27	2004	1	149701.17 8	BEFORE Y	3	0.234192037	288
25	4.27	2004	2	144481.35 9	BEFORE Y	4	0.468384075	288
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25	4.27	2004	1	137289.03 11	BEFORE Y	4	0.234192037	288
25	4.27	2004	1	142206.02 12	BEFORE Y	1	0.234192037	288
25	4.27	2005	0	127644.73 1	BEFORE Y	1	0.000000000	288
25	4.27	2005	0	123422.96 2	BEFORE Y	1	0.000000000	288
25	4.27	2005	0	139972.62 3	BEFORE Y	2	0.000000000	288
25	4.27	2005	0	145800.15 4	BEFORE Y	2	0.000000000	288
25	4.27	2005	1	151316.29 5	BEFORE Y	2	0.234192037	288
25	4.27	2005	0	148779.65 6	BEFORE Y	3	0.000000000	288
25	4.27	2005	0	151076.55 7	BEFORE Y	3	0.000000000	288
25	4.27	2005	0	149701.17 8	BEFORE Y	3	0.000000000	288
25	4.27	2005	2	144481.35 9	BEFORE Y	4	0.468384075	288
25	4.27	2005	0	146205.96 10	BEFORE Y	4	0.000000000	288
25	4.27	2005	1	137289.03 11	BEFORE Y	4	0.234192037	288
25	4.27	2005	1	142206.02 12	BEFORE Y	1	0.234192037	288

APPENDIX F. SUM DATA

SID	LENGTH	YEAR	CRASH_SITE	MADT	MONTH	PERIOD	CONTROL	SEASON	CRT	COMPLETE
1	10.9	1982	20	258552.56	1	BEFORE	N	1	1.834862385	228
1	10.9	1982	14	241380.36	2	BEFORE	N	1	1.284403670	228
1	10.9	1982	15	283523.48	3	BEFORE	N	2	1.376146789	228
1	10.9	1982	23	295327.51	4	BEFORE	N	2	2.110091743	228
1	10.9	1982	14	306500.82	5	BEFORE	N	2	1.284403670	228
1	10.9	1982	8	301362.68	6	BEFORE	N	3	0.733944954	228
1	10.9	1982	7	306015.20	7	BEFORE	N	3	0.642201835	228
1	10.9	1982	14	303229.30	8	BEFORE	N	3	1.284403670	228
1	10.9	1982	12	292656.21	9	BEFORE	N	4	1.100917431	228
1	10.9	1982	7	296149.52	10	BEFORE	N	4	0.642201835	228
1	10.9	1982	12	278087.71	11	BEFORE	N	4	1.100917431	228
1	10.9	1982	24	288047.39	12	BEFORE	N	1	2.201834862	228
1	10.9	1983	14	262834.37	1	BEFORE	N	1	1.284403670	228
1	10.9	1983	15	245377.79	2	BEFORE	N	1	1.376146789	228
1	10.9	1983	16	288218.83	3	BEFORE	N	2	1.467889908	228
1	10.9	1983	14	300218.35	4	BEFORE	N	2	1.284403670	228
1	10.9	1983	20	311576.69	5	BEFORE	N	2	1.834862385	228
1	10.9	1983	13	306353.46	6	BEFORE	N	3	1.192660550	228
1	10.9	1983	7	311083.03	7	BEFORE	N	3	0.642201835	228
1	10.9	1983	23	308250.99	8	BEFORE	N	3	2.110091743	228
1	10.9	1983	11	297502.80	9	BEFORE	N	4	1.009174312	228
1	10.9	1983	21	301053.96	10	BEFORE	N	4	1.926605505	228
1	10.9	1983	30	282693.04	11	BEFORE	N	4	2.752293578	228
1	10.9	1983	45	292817.66	12	BEFORE	N	1	4.128440367	228
1	10.9	1984	27	273089.19	1	BEFORE	N	1	2.477064220	228
1	10.9	1984	12	264056.93	2	BEFORE	N	1	1.100917431	228
1	10.9	1984	13	299464.06	3	BEFORE	N	2	1.192660550	228
1	10.9	1984	17	311931.75	4	BEFORE	N	2	1.559633028	228
1	10.9	1984	17	323733.26	5	BEFORE	N	2	1.559633028	228
1	10.9	1984	14	318306.23	6	BEFORE	N	3	1.284403670	228
1	10.9	1984	21	323220.34	7	BEFORE	N	3	1.926605505	228
1	10.9	1984	12	320277.80	8	BEFORE	N	3	1.100917431	228
1	10.9	1984	5	309110.26	9	BEFORE	N	4	0.458715596	228
1	10.9	1984	20	312799.97	10	BEFORE	N	4	1.834862385	228
1	10.9	1984	11	293722.67	11	BEFORE	N	4	1.009174312	228
1	10.9	1984	17	304242.31	12	BEFORE	N	1	1.559633028	228
1	10.9	1985	14	268059.96	1	BEFORE	N	1	1.284403670	228
1	10.9	1985	11	250256.31	2	BEFORE	N	1	1.009174312	228
1	10.9	1985	7	293949.11	3	BEFORE	N	2	0.642201835	228
1	10.9	1985	4	306187.19	4	BEFORE	N	2	0.366972477	228
1	10.9	1985	19	317771.36	5	BEFORE	N	2	1.743119266	228
1	10.9	1985	10	312444.28	6	BEFORE	N	3	0.917431193	228
1	10.9	1985	1	317267.88	7	BEFORE	N	3	0.091743119	228
1	10.9	1985	0	314379.54	8	BEFORE	N	3	0.000000000	228
1	10.9	1985	0	303417.66	9	BEFORE	N	4	0.000000000	228
1	10.9	1985	0	307039.42	10	BEFORE	N	4	0.000000000	228
1	10.9	1985	0	288313.45	11	BEFORE	N	4	0.000000000	228
1	10.9	1985	0	298639.36	12	BEFORE	N	1	0.000000000	228
1	10.9	1986	12	273089.19	1	BEFORE	N	1	1.100917431	228
1	10.9	1986	7	254951.52	2	BEFORE	N	1	0.642201835	228
1	10.9	1986	11	299464.06	3	BEFORE	N	2	1.009174312	228
1	10.9	1986	8	311931.75	4	BEFORE	N	2	0.733944954	228
1	10.9	1986	10	323733.26	5	BEFORE	N	2	0.917431193	228
1	10.9	1986	13	318306.23	6	BEFORE	N	3	1.192660550	228
1	10.9	1986	11	323220.34	7	BEFORE	N	3	1.009174312	228
1	10.9	1986	7	320277.80	8	BEFORE	N	3	0.642201835	228
1	10.9	1986	14	309110.26	9	BEFORE	N	4	1.284403670	228
1	10.9	1986	19	312799.97	10	BEFORE	N	4	1.743119266	228
1	10.9	1986	18	293722.67	11	BEFORE	N	4	1.651376147	228
1	10.9	1986	10	304242.31	12	BEFORE	N	1	0.917431193	228
1	10.9	1987	13	277662.37	1	BEFORE	N	1	1.192660550	228
1	10.9	1987	13	259220.97	2	BEFORE	N	1	1.192660550	228
1	10.9	1987	12	304478.92	3	BEFORE	N	2	1.100917431	228
1	10.9	1987	9	317155.39	4	BEFORE	N	2	0.825688073	228

1	10.9	1987	15	329154.53 5	BEFORE N	2	1.376146789	228
1	10.9	1987	20	323636.62 6	BEFORE N	3	1.834862385	228
1	10.9	1987	12	328633.02 7	BEFORE N	3	1.100917431	228
1	10.9	1987	16	325641.20 8	BEFORE N	3	1.467889908	228
1	10.9	1987	14	314286.65 9	BEFORE N	4	1.284403670	228
1	10.9	1987	13	318038.15 10	BEFORE N	4	1.192660550	228
1	10.9	1987	11	298641.38 11	BEFORE N	4	1.009174312	228
1	10.9	1987	13	309337.18 12	BEFORE N	1	1.192660550	228
1	10.9	1988	11	291128.55 1	BEFORE N	1	1.009174312	228
1	10.9	1988	14	281499.65 2	BEFORE N	1	1.284403670	228
1	10.9	1988	10	319245.66 3	BEFORE N	2	0.917431193	228
1	10.9	1988	10	332536.92 4	BEFORE N	2	0.917431193	228
1	10.9	1988	13	345117.99 5	BEFORE N	2	1.192660550	228
1	10.9	1988	14	339332.48 6	BEFORE N	3	1.284403670	228
1	10.9	1988	13	344571.19 7	BEFORE N	3	1.192660550	228
1	10.9	1988	11	341434.28 8	BEFORE N	3	1.009174312	228
1	10.9	1988	9	329529.05 9	BEFORE N	4	0.825688073	228
1	10.9	1988	16	333462.49 10	BEFORE N	4	1.467889908	228
1	10.9	1988	16	313125.01 11	BEFORE N	4	1.467889908	228
1	10.9	1988	5	324339.54 12	BEFORE N	1	0.458715596	228
1	10.9	1989	13	300129.23 1	BEFORE N	1	1.192660550	228
1	10.9	1989	8	280195.65 2	BEFORE N	1	0.733944954	228
1	10.9	1989	15	329115.62 3	BEFORE N	2	1.376146789	228
1	10.9	1989	7	342817.80 4	BEFORE N	2	0.642201835	228
1	10.9	1989	9	355787.84 5	BEFORE N	2	0.825688073	228
1	10.9	1989	8	349823.46 6	BEFORE N	3	0.733944954	228
1	10.9	1989	10	355224.13 7	BEFORE N	3	0.917431193	228
1	10.9	1989	19	351990.23 8	BEFORE N	3	1.743119266	228
1	10.9	1989	12	339716.94 9	BEFORE N	4	1.100917431	228
1	10.9	1989	14	343771.99 10	BEFORE N	4	1.284403670	228
1	10.9	1989	15	322805.74 11	BEFORE N	4	1.376146789	228
1	10.9	1989	26	334366.99 12	BEFORE N	1	2.385321101	228
1	10.9	1990	9	308876.55 1	BEFORE N	1	0.825688073	228
1	10.9	1990	7	288362.00 2	BEFORE N	1	0.642201835	228
1	10.9	1990	5	338707.75 3	BEFORE N	2	0.458715596	228
1	10.9	1990	8	352809.28 4	BEFORE N	2	0.733944954	228
1	10.9	1990	11	366157.33 5	BEFORE N	2	1.009174312	228
1	10.9	1990	13	360019.12 6	BEFORE N	3	1.192660550	228
1	10.9	1990	12	365577.20 7	BEFORE N	3	1.100917431	228
1	10.9	1990	9	362249.05 8	BEFORE N	3	0.825688073	228
1	10.9	1990	6	349618.04 9	BEFORE N	4	0.550458716	228
1	10.9	1990	17	353791.28 10	BEFORE N	4	1.559633028	228
1	10.9	1990	17	332213.97 11	BEFORE N	4	1.559633028	228
1	10.9	1990	22	344112.17 12	BEFORE N	1	2.018348624	228
1	10.9	1991	11	316702.26 1	BEFORE N	1	1.009174312	228
1	10.9	1991	10	295667.95 2	BEFORE N	1	0.917431193	228
1	10.9	1991	10	347289.26 3	BEFORE N	2	0.917431193	228
1	10.9	1991	5	361748.08 4	BEFORE N	2	0.458715596	228
1	10.9	1991	8	375434.31 5	BEFORE N	2	0.733944954	228
1	10.9	1991	7	369140.58 6	BEFORE N	3	0.642201835	228
1	10.9	1991	5	374839.48 7	BEFORE N	3	0.458715596	228
1	10.9	1991	9	371427.01 8	BEFORE N	3	0.825688073	228
1	10.9	1991	14	358475.98 9	BEFORE N	4	1.284403670	228
1	10.9	1991	7	362754.95 10	BEFORE N	4	0.642201835	228
1	10.9	1991	14	340630.96 11	BEFORE N	4	1.284403670	228
1	10.9	1991	13	352830.61 12	BEFORE N	1	1.192660550	228
1	10.9	1992	7	325490.75 1	BEFORE N	1	0.642201835	228
1	10.9	1992	3	314725.34 2	BEFORE N	1	0.275229358	228
1	10.9	1992	7	356926.54 3	BEFORE N	2	0.642201835	228
1	10.9	1992	8	371786.59 4	BEFORE N	2	0.733944954	228
1	10.9	1992	7	385852.62 5	BEFORE N	2	0.642201835	228
1	10.9	1992	9	379384.24 6	BEFORE N	3	0.825688073	228
1	10.9	1992	13	385241.28 7	BEFORE N	3	1.192660550	228
1	10.9	1992	10	381734.11 8	BEFORE N	3	0.917431193	228
1	10.9	1992	7	368423.69 9	BEFORE N	4	0.642201835	228
1	10.9	1992	10	372821.40 10	BEFORE N	4	0.917431193	228
1	10.9	1992	10	350083.47 11	BEFORE N	4	0.917431193	228
1	10.9	1992	24	362621.66 12	BEFORE N	1	2.201834862	228

1	10.9	1993	10	338624.39 1	BEFORE N	1	0.917431193	228
1	10.9	1993	13	316134.09 2	BEFORE N	1	1.192660550	228
1	10.9	1993	12	371328.63 3	BEFORE N	2	1.100917431	228
1	10.9	1993	13	386788.28 4	BEFORE N	2	1.192660550	228
1	10.9	1993	12	401421.88 5	BEFORE N	2	1.100917431	228
1	10.9	1993	13	394692.50 6	BEFORE N	3	1.192660550	228
1	10.9	1993	10	400785.87 7	BEFORE N	3	0.917431193	228
1	10.9	1993	13	397137.19 8	BEFORE N	3	1.192660550	228
1	10.9	1993	12	383289.69 9	BEFORE N	4	1.100917431	228
1	10.9	1993	11	387864.85 10	BEFORE N	4	1.009174312	228
1	10.9	1993	16	364209.43 11	BEFORE N	4	1.467889908	228
1	10.9	1993	16	377253.55 12	BEFORE N	1	1.467889908	228
1	10.9	1994	20	347197.52 1	BEFORE N	1	1.834862385	228
1	10.9	1994	21	324137.82 2	BEFORE N	1	1.926605505	228
1	10.9	1994	12	380729.75 3	BEFORE N	2	1.100917431	228
1	10.9	1994	12	396580.80 4	BEFORE N	2	1.100917431	228
1	10.9	1994	9	411584.88 5	BEFORE N	2	0.825688073	228
1	10.9	1994	18	404685.13 6	BEFORE N	3	1.651376147	228
1	10.9	1994	10	410932.77 7	BEFORE N	3	0.917431193	228
1	10.9	1994	12	407191.72 8	BEFORE N	3	1.100917431	228
1	10.9	1994	12	392993.64 9	BEFORE N	4	1.100917431	228
1	10.9	1994	15	397684.63 10	BEFORE N	4	1.376146789	228
1	10.9	1994	10	373430.31 11	BEFORE N	4	0.917431193	228
1	10.9	1994	17	386804.67 12	BEFORE N	1	1.559633028	228
1	10.9	1995	6	355463.45 1	BEFORE N	1	0.550458716	228
1	10.9	1995	4	331854.76 2	BEFORE N	1	0.366972477	228
1	10.9	1995	8	389794.00 3	BEFORE N	2	0.733944954	228
1	10.9	1995	5	406022.43 4	BEFORE N	2	0.458715596	228
1	10.9	1995	13	421383.72 5	BEFORE N	2	1.192660550	228
1	10.9	1995	4	414319.70 6	BEFORE N	3	0.366972477	228
1	10.9	1995	10	420716.08 7	BEFORE N	3	0.917431193	228
1	10.9	1995	5	416885.96 8	BEFORE N	3	0.458715596	228
1	10.9	1995	8	402349.86 9	BEFORE N	4	0.733944954	228
1	10.9	1995	19	407152.53 10	BEFORE N	4	1.743119266	228
1	10.9	1995	12	382320.78 11	BEFORE N	4	1.100917431	228
1	10.9	1995	13	396013.55 12	BEFORE N	1	1.192660550	228
1	10.9	1996	14	367837.01 1	BEFORE N	1	1.284403670	228
1	10.9	1996	15	355671.02 2	BEFORE N	1	1.376146789	228
1	10.9	1996	14	403362.59 3	BEFORE N	2	1.284403670	228
1	10.9	1996	10	420155.92 4	BEFORE N	2	0.917431193	228
1	10.9	1996	11	436051.94 5	BEFORE N	2	1.009174312	228
1	10.9	1996	13	428742.02 6	BEFORE N	3	1.192660550	228
1	10.9	1996	11	435361.06 7	BEFORE N	3	1.009174312	228
1	10.9	1996	9	431397.62 8	BEFORE N	3	0.825688073	228
1	10.9	1996	9	416355.52 9	BEFORE N	4	0.825688073	228
1	10.9	1996	15	421325.37 10	BEFORE N	4	1.376146789	228
1	10.9	1996	10	395629.23 11	BEFORE N	4	0.917431193	228
1	10.9	1996	18	409798.65 12	BEFORE N	1	1.651376147	228
1	10.9	1997	10	373708.67 1	BEFORE N	1	0.917431193	228
1	10.9	1997	10	348888.19 2	BEFORE N	1	0.917431193	228
1	10.9	1997	8	409801.33 3	BEFORE N	2	0.733944954	228
1	10.9	1997	8	426862.73 4	BEFORE N	2	0.733944954	228
1	10.9	1997	9	443012.49 5	BEFORE N	2	0.825688073	228
1	10.9	1997	16	435585.89 6	BEFORE N	3	1.467889908	228
1	10.9	1997	9	442310.59 7	BEFORE N	3	0.825688073	228
1	10.9	1997	5	438283.87 8	BEFORE N	3	0.458715596	228
1	10.9	1997	13	423001.66 9	BEFORE N	4	1.192660550	228
1	10.9	1997	3	428050.85 10	BEFORE N	4	0.275229358	228
1	10.9	1997	11	401944.53 11	BEFORE N	4	1.009174312	228
1	10.9	1997	8	416340.12 12	BEFORE N	1	0.733944954	228
1	10.9	1998	6	387447.51 1	BEFORE N	1	0.550458716	228
1	10.9	1998	10	361714.54 2	BEFORE N	1	0.917431193	228
1	10.9	1998	6	424867.07 3	BEFORE N	2	0.550458716	228
1	10.9	1998	9	442555.71 4	BEFORE N	2	0.825688073	228
1	10.9	1998	13	459299.19 5	BEFORE N	2	1.192660550	228
1	10.9	1998	9	451599.56 6	BEFORE N	3	0.825688073	228
1	10.9	1998	7	458571.48 7	BEFORE N	3	0.642201835	228
1	10.9	1998	7	454396.73 8	BEFORE N	3	0.642201835	228

1	10.9	1998	9	438552.69 9	BEFORE	N	4	0.825688073	228
1	10.9	1998	9	443787.50 10	BEFORE	N	4	0.825688073	228
1	10.9	1998	15	416721.43 11	BEFORE	N	4	1.376146789	228
1	10.9	1998	13	431646.25 12	BEFORE	N	1	1.192660550	228
1	10.9	1999	16	367550.91 1	BEFORE	N	1	1.467889908	228
1	10.9	1999	9	343139.40 2	BEFORE	N	1	0.825688073	228
1	10.9	1999	8	403048.86 3	BEFORE	N	2	0.733944954	228
1	10.9	1999	15	419829.13 4	BEFORE	N	2	1.376146789	228
1	10.9	1999	6	435712.78 5	BEFORE	N	2	0.550458716	228
1	10.9	1999	11	428408.55 6	BEFORE	N	3	1.009174312	228
1	10.9	1999	10	435022.44 7	BEFORE	N	3	0.917431193	228
1	10.9	1999	10	431062.08 8	BEFORE	N	3	0.917431193	228
1	10.9	1999	9	416031.68 9	BEFORE	N	4	0.825688073	228
1	10.9	1999	16	420997.66 10	BEFORE	N	4	1.467889908	228
1	10.9	1999	12	395321.52 11	BEFORE	N	4	1.100917431	228
1	10.9	1999	9	409479.91 12	BEFORE	N	1	0.825688073	228
1	11	2000	12	350906.67 1	BEFORE	N	1	1.090909091	228
1	11	2000	12	339300.64 2	BEFORE	N	1	1.090909091	228
1	11	2000	9	384797.12 3	BEFORE	N	2	0.818181818	228
1	11	2000	6	400817.51 4	BEFORE	N	2	0.545454545	228
1	11	2000	8	415981.89 5	BEFORE	N	2	0.727272727	228
1	11	2000	15	409008.42 6	BEFORE	N	3	1.363636364	228
1	11	2000	8	415322.81 7	BEFORE	N	3	0.727272727	228
1	11	2000	7	411541.79 8	BEFORE	N	3	0.636363636	228
1	11	2000	7	397192.03 9	BEFORE	N	4	0.636363636	228
1	11	2000	8	401933.13 10	BEFORE	N	4	0.727272727	228
1	11	2000	11	377419.71 11	BEFORE	N	4	1.000000000	228
1	11	2000	8	390936.95 12	BEFORE	N	1	0.727272727	228
1	20.5	2001	12	214330.35 1	AFTER	N	1	0.585365854	228
1	20.5	2001	15	200095.24 2	AFTER	N	1	0.731707317	228
1	20.5	2001	10	235030.31 3	AFTER	N	2	0.487804878	228
1	20.5	2001	7	244815.40 4	AFTER	N	2	0.341463415	228
1	20.5	2001	8	254077.66 5	AFTER	N	2	0.390243902	228
1	20.5	2001	8	249818.33 6	AFTER	N	3	0.390243902	228
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1	20.5	2001	12	242600.99 9	AFTER	N	4	0.585365854	228
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1	20.6	2002	8	246178.87 4	AFTER	N	2	0.388349515	228
1	20.6	2002	5	255492.71 5	AFTER	N	2	0.242718447	228
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1	20.8	2003	6	282663.84 8	AFTER	N	3	0.288461538	228
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2	5.22	1997	0	111379.95 12	BEFORE N	1	0.000000000	264
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2	5.22	1998	0	99590.89 2	BEFORE N	1	0.000000000	264
2	5.22	1998	0	116978.68 3	BEFORE N	2	0.000000000	264
2	5.22	1998	0	121848.89 4	BEFORE N	2	0.000000000	264
2	5.22	1998	1	126458.87 5	BEFORE N	2	0.191570881	264
2	5.22	1998	1	124338.93 6	BEFORE N	3	0.191570881	264
2	5.22	1998	2	126258.51 7	BEFORE N	3	0.383141762	264
2	5.22	1998	2	125109.08 8	BEFORE N	3	0.383141762	264
2	5.22	1998	2	120746.74 9	BEFORE N	4	0.383141762	264
2	5.22	1998	2	122188.04 10	BEFORE N	4	0.383141762	264
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2	5.22	1999	1	115178.03 3	BEFORE N	2	0.191570881	264
2	5.22	1999	0	119973.27 4	BEFORE N	2	0.000000000	264
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2	5.22	1999	1	122424.99 6	BEFORE N	3	0.191570881	264
2	5.22	1999	1	124315.02 7	BEFORE N	3	0.191570881	264
2	5.22	1999	0	123183.28 8	BEFORE N	3	0.000000000	264
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2	5.22	1999	1	117015.81 12	BEFORE N	1	0.191570881	264
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2	5.22	2000	0	99224.34 2	BEFORE N	1	0.000000000	264
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2	5.22	2000	2	117214.20 4	BEFORE N	2	0.383141762	264
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2	10.2	2005	0	55679.07	10	AFTER	N	4	0.000000000	264
2	10.2	2005	3	52283.27	11	AFTER	N	4	0.294117647	264
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3	10.9	1982	8	70679.07	2	BEFORE	N	1	0.733944954	180
3	10.9	1982	6	83019.09	3	BEFORE	N	2	0.550458716	180
3	10.9	1982	7	86475.45	4	BEFORE	N	2	0.642201835	180
3	10.9	1982	3	89747.13	5	BEFORE	N	2	0.275229358	180
3	10.9	1982	5	88242.62	6	BEFORE	N	3	0.458715596	180
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3	10.9	1982	3	85693.26	9	BEFORE	N	4	0.275229358	180
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3	10.9	1984	18	93203.89	6	BEFORE	N	3	1.651376147	180
3	10.9	1984	13	94642.80	7	BEFORE	N	3	1.192660550	180
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3	10.9	1991	9	92734.23 1	BEFORE N	1	0.825688073	180
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3	10.9	1992	14	104512.38 3	BEFORE N	2	1.284403670	180
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3	10.9	1993	10	108729.49 3	BEFORE N	2	0.917431193	180
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5	4.24	1988	0	69961.75	3	BEFORE	N	2	0.000000000	192
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5	4.24	1988	1	75631.59	5	BEFORE	N	2	0.235849057	192
5	4.24	1988	1	74363.72	6	BEFORE	N	3	0.235849057	192
5	4.24	1988	1	75511.76	7	BEFORE	N	3	0.235849057	192
5	4.24	1988	4	74824.32	8	BEFORE	N	3	0.943396226	192
5	4.24	1988	0	72215.32	9	BEFORE	N	4	0.000000000	192
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5	4.24	1988	0	68620.43	11	BEFORE	N	4	0.000000000	192
5	4.24	1988	2	71078.06	12	BEFORE	N	1	0.471698113	192
5	4.24	1989	0	65772.44	1	BEFORE	N	1	0.000000000	192
5	4.24	1989	0	61404.05	2	BEFORE	N	1	0.000000000	192
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5	4.24	1989	1	77969.86	5	BEFORE	N	2	0.235849057	192
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18	2.02	1994	0	63611.38	1	BEFORE	N	1	0.000000000	144
18	2.02	1994	3	59386.52	2	BEFORE	N	1	1.485148515	144
18	2.02	1994	1	69754.94	3	BEFORE	N	2	0.495049505	144
18	2.02	1994	0	72659.07	4	BEFORE	N	2	0.000000000	144
18	2.02	1994	0	75408.03	5	BEFORE	N	2	0.000000000	144
18	2.02	1994	0	74143.90	6	BEFORE	N	3	0.000000000	144
18	2.02	1994	0	75288.55	7	BEFORE	N	3	0.000000000	144
18	2.02	1994	0	74603.14	8	BEFORE	N	3	0.000000000	144
18	2.02	1994	1	72001.86	9	BEFORE	N	4	0.495049505	144
18	2.02	1994	1	72861.31	10	BEFORE	N	4	0.495049505	144
18	2.02	1994	1	68417.59	11	BEFORE	N	4	0.495049505	144
18	2.02	1994	0	70867.95	12	BEFORE	N	1	0.000000000	144
18	2.02	1995	1	65125.81	1	BEFORE	N	1	0.495049505	144
18	2.02	1995	1	60800.37	2	BEFORE	N	1	0.495049505	144
18	2.02	1995	0	71415.64	3	BEFORE	N	2	0.000000000	144
18	2.02	1995	1	74388.91	4	BEFORE	N	2	0.495049505	144
18	2.02	1995	0	77203.31	5	BEFORE	N	2	0.000000000	144
18	2.02	1995	1	75909.09	6	BEFORE	N	3	0.495049505	144
18	2.02	1995	0	77080.99	7	BEFORE	N	3	0.000000000	144
18	2.02	1995	0	76379.26	8	BEFORE	N	3	0.000000000	144
18	2.02	1995	0	73716.05	9	BEFORE	N	4	0.000000000	144
18	2.02	1995	1	74595.96	10	BEFORE	N	4	0.495049505	144
18	2.02	1995	2	70046.44	11	BEFORE	N	4	0.990099010	144
18	2.02	1995	1	72555.15	12	BEFORE	N	1	0.495049505	144
18	5.8	1996	1	78331.10	1	AFTER	N	1	0.172413793	144
18	5.8	1996	1	75740.35	2	AFTER	N	1	0.172413793	144
18	5.8	1996	0	85896.29	3	AFTER	N	2	0.000000000	144
18	5.8	1996	0	89472.44	4	AFTER	N	2	0.000000000	144
18	5.8	1996	0	92857.51	5	AFTER	N	2	0.000000000	144
18	5.8	1996	0	91300.86	6	AFTER	N	3	0.000000000	144
18	5.8	1996	0	92710.39	7	AFTER	N	3	0.000000000	144
18	5.8	1996	0	91866.37	8	AFTER	N	3	0.000000000	144
18	5.8	1996	0	88663.14	9	AFTER	N	4	0.000000000	144
18	5.8	1996	2	89721.48	10	AFTER	N	4	0.344827586	144
18	5.8	1996	3	84249.47	11	AFTER	N	4	0.517241379	144
18	5.8	1996	1	87266.85	12	AFTER	N	1	0.172413793	144
18	5.8	1997	0	79581.47	1	AFTER	N	1	0.000000000	144
18	5.8	1997	0	74295.94	2	AFTER	N	1	0.000000000	144
18	5.8	1997	1	87267.43	3	AFTER	N	2	0.172413793	144
18	5.8	1997	1	90900.66	4	AFTER	N	2	0.172413793	144
18	5.8	1997	0	94339.76	5	AFTER	N	2	0.000000000	144
18	5.8	1997	1	92758.26	6	AFTER	N	3	0.172413793	144
18	5.8	1997	0	94190.29	7	AFTER	N	3	0.000000000	144
18	5.8	1997	1	93332.80	8	AFTER	N	3	0.172413793	144
18	5.8	1997	0	90078.44	9	AFTER	N	4	0.000000000	144
18	5.8	1997	3	91153.67	10	AFTER	N	4	0.517241379	144
18	5.8	1997	1	85594.32	11	AFTER	N	4	0.172413793	144
18	5.8	1997	1	88659.87	12	AFTER	N	1	0.172413793	144
18	5.8	1998	1	73900.05	1	AFTER	N	1	0.172413793	144
18	5.8	1998	2	68991.86	2	AFTER	N	1	0.344827586	144
18	5.8	1998	3	81037.30	3	AFTER	N	2	0.517241379	144
18	5.8	1998	0	84411.15	4	AFTER	N	2	0.000000000	144
18	5.8	1998	1	87604.73	5	AFTER	N	2	0.172413793	144
18	5.8	1998	0	86136.14	6	AFTER	N	3	0.000000000	144
18	5.8	1998	0	87465.93	7	AFTER	N	3	0.000000000	144
18	5.8	1998	0	86669.66	8	AFTER	N	3	0.000000000	144
18	5.8	1998	0	83647.63	9	AFTER	N	4	0.000000000	144
18	5.8	1998	1	84646.10	10	AFTER	N	4	0.172413793	144
18	5.8	1998	3	79483.63	11	AFTER	N	4	0.517241379	144
18	5.8	1998	1	82330.33	12	AFTER	N	1	0.172413793	144

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18	5.8	1999	0	69808.80	2	AFTER	N	1	0.000000000	144
18	5.8	1999	2	81996.87	3	AFTER	N	2	0.344827586	144
18	5.8	1999	1	85410.67	4	AFTER	N	2	0.172413793	144
18	5.8	1999	2	88642.07	5	AFTER	N	2	0.344827586	144
18	5.8	1999	0	87156.08	6	AFTER	N	3	0.000000000	144
18	5.8	1999	0	88501.62	7	AFTER	N	3	0.000000000	144
18	5.8	1999	1	87695.92	8	AFTER	N	3	0.172413793	144
18	5.8	1999	2	84638.11	9	AFTER	N	4	0.344827586	144
18	5.8	1999	0	85648.40	10	AFTER	N	4	0.000000000	144
18	5.8	1999	4	80424.81	11	AFTER	N	4	0.689655172	144
18	5.8	1999	2	83305.21	12	AFTER	N	1	0.344827586	144
18	5.8	2000	1	73091.97	1	AFTER	N	1	0.172413793	144
18	5.8	2000	3	70674.50	2	AFTER	N	1	0.517241379	144
18	5.8	2000	2	80151.17	3	AFTER	N	2	0.344827586	144
18	5.8	2000	1	83488.13	4	AFTER	N	2	0.172413793	144
18	5.8	2000	3	86646.79	5	AFTER	N	2	0.517241379	144
18	5.8	2000	0	85194.25	6	AFTER	N	3	0.000000000	144
18	5.8	2000	1	86509.51	7	AFTER	N	3	0.172413793	144
18	5.8	2000	1	85721.94	8	AFTER	N	3	0.172413793	144
18	5.8	2000	1	82732.96	9	AFTER	N	4	0.172413793	144
18	5.8	2000	1	83720.51	10	AFTER	N	4	0.172413793	144
18	5.8	2000	3	78614.49	11	AFTER	N	4	0.517241379	144
18	5.8	2000	4	81430.06	12	AFTER	N	1	0.689655172	144
18	5.8	2001	2	77807.16	1	AFTER	N	1	0.344827586	144
18	5.8	2001	1	72639.47	2	AFTER	N	1	0.172413793	144
18	5.8	2001	1	85321.75	3	AFTER	N	2	0.172413793	144
18	5.8	2001	1	88873.98	4	AFTER	N	2	0.172413793	144
18	5.8	2001	0	92236.41	5	AFTER	N	2	0.000000000	144
18	5.8	2001	4	90690.17	6	AFTER	N	3	0.689655172	144
18	5.8	2001	0	92090.27	7	AFTER	N	3	0.000000000	144
18	5.8	2001	2	91251.90	8	AFTER	N	3	0.344827586	144
18	5.8	2001	2	88070.10	9	AFTER	N	4	0.344827586	144
18	5.8	2001	5	89121.35	10	AFTER	N	4	0.862068966	144
18	5.8	2001	5	83685.95	11	AFTER	N	4	0.862068966	144
18	5.8	2001	2	86683.15	12	AFTER	N	1	0.344827586	144
18	5.8	2002	0	78303.49	1	AFTER	N	1	0.000000000	144
18	5.8	2002	0	73102.83	2	AFTER	N	1	0.000000000	144
18	5.8	2002	0	85866.01	3	AFTER	N	2	0.000000000	144
18	5.8	2002	1	89440.90	4	AFTER	N	2	0.172413793	144
18	5.8	2002	2	92824.78	5	AFTER	N	2	0.344827586	144
18	5.8	2002	3	91268.67	6	AFTER	N	3	0.517241379	144
18	5.8	2002	2	92677.70	7	AFTER	N	3	0.344827586	144
18	5.8	2002	0	91833.98	8	AFTER	N	3	0.000000000	144
18	5.8	2002	2	88631.89	9	AFTER	N	4	0.344827586	144
18	5.8	2002	0	89689.85	10	AFTER	N	4	0.000000000	144
18	5.8	2002	5	84219.77	11	AFTER	N	4	0.862068966	144
18	5.8	2002	3	87236.09	12	AFTER	N	1	0.517241379	144
18	5.8	2003	0	78739.96	1	AFTER	N	1	0.000000000	144
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18	5.8	2003	2	86344.64	3	AFTER	N	2	0.344827586	144
18	5.8	2003	1	89939.46	4	AFTER	N	2	0.172413793	144
18	5.8	2003	2	93342.19	5	AFTER	N	2	0.344827586	144
18	5.8	2003	2	91777.42	6	AFTER	N	3	0.344827586	144
18	5.8	2003	0	93194.30	7	AFTER	N	3	0.000000000	144
18	5.8	2003	0	92345.88	8	AFTER	N	3	0.000000000	144
18	5.8	2003	1	89125.94	9	AFTER	N	4	0.172413793	144
18	5.8	2003	4	90189.79	10	AFTER	N	4	0.689655172	144
18	5.8	2003	5	84689.23	11	AFTER	N	4	0.862068966	144
18	5.8	2003	3	87722.36	12	AFTER	N	1	0.517241379	144
18	5.8	2004	0	79809.36	1	AFTER	N	1	0.000000000	144
18	5.8	2004	0	77169.71	2	AFTER	N	1	0.000000000	144
18	5.8	2004	0	87517.32	3	AFTER	N	2	0.000000000	144
18	5.8	2004	0	91160.96	4	AFTER	N	2	0.000000000	144
18	5.8	2004	0	94609.91	5	AFTER	N	2	0.000000000	144
18	5.8	2004	1	93023.88	6	AFTER	N	3	0.172413793	144
18	5.8	2004	0	94460.01	7	AFTER	N	3	0.000000000	144
18	5.8	2004	3	93600.06	8	AFTER	N	3	0.517241379	144

18	5.8	2004	0	90336.39	9	AFTER	N	4	0.000000000	144
18	5.8	2004	3	91414.69	10	AFTER	N	4	0.517241379	144
18	5.8	2004	2	85839.42	11	AFTER	N	4	0.344827586	144
18	5.8	2004	1	88913.74	12	AFTER	N	1	0.172413793	144
18	5.57	2005	2	85398.47	1	AFTER	N	1	0.359066427	144
18	5.57	2005	3	79726.59	2	AFTER	N	1	0.538599641	144
18	5.57	2005	3	93646.23	3	AFTER	N	2	0.538599641	144
18	5.57	2005	0	97545.04	4	AFTER	N	2	0.000000000	144
18	5.57	2005	3	101235.52	5	AFTER	N	2	0.538599641	144
18	5.57	2005	1	99538.42	6	AFTER	N	3	0.179533214	144
18	5.57	2005	2	101075.12	7	AFTER	N	3	0.359066427	144
18	5.57	2005	0	100154.95	8	AFTER	N	3	0.000000000	144
18	5.57	2005	0	96662.72	9	AFTER	N	4	0.000000000	144
18	5.57	2005	0	97816.54	10	AFTER	N	4	0.000000000	144
18	5.57	2005	2	91850.83	11	AFTER	N	4	0.359066427	144
18	5.57	2005	4	95140.45	12	AFTER	N	1	0.718132855	144
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19	6.65	1982	1	142954.36	2	BEFORE	N	1	0.150375940	192
19	6.65	1982	1	167913.07	3	BEFORE	N	2	0.150375940	192
19	6.65	1982	2	174903.85	4	BEFORE	N	2	0.300751880	192
19	6.65	1982	6	181521.09	5	BEFORE	N	2	0.902255639	192
19	6.65	1982	4	178478.10	6	BEFORE	N	3	0.601503759	192
19	6.65	1982	3	181233.49	7	BEFORE	N	3	0.451127820	192
19	6.65	1982	8	179583.58	8	BEFORE	N	3	1.203007519	192
19	6.65	1982	7	173321.80	9	BEFORE	N	4	1.052631579	192
19	6.65	1982	3	175390.67	10	BEFORE	N	4	0.451127820	192
19	6.65	1982	5	164693.80	11	BEFORE	N	4	0.751879699	192
19	6.65	1982	2	170592.29	12	BEFORE	N	1	0.300751880	192
19	6.65	1983	3	155660.21	1	BEFORE	N	1	0.451127820	192
19	6.65	1983	3	145321.78	2	BEFORE	N	1	0.451127820	192
19	6.65	1983	2	170693.83	3	BEFORE	N	2	0.300751880	192
19	6.65	1983	1	177800.38	4	BEFORE	N	2	0.150375940	192
19	6.65	1983	4	184527.21	5	BEFORE	N	2	0.601503759	192
19	6.65	1983	4	181433.82	6	BEFORE	N	3	0.601503759	192
19	6.65	1983	3	184234.85	7	BEFORE	N	3	0.451127820	192
19	6.65	1983	4	182557.61	8	BEFORE	N	3	0.601503759	192
19	6.65	1983	2	176192.14	9	BEFORE	N	4	0.300751880	192
19	6.65	1983	3	178295.26	10	BEFORE	N	4	0.451127820	192
19	6.65	1983	2	167421.25	11	BEFORE	N	4	0.300751880	192
19	6.65	1983	3	173417.42	12	BEFORE	N	1	0.451127820	192
19	6.65	1984	6	161733.50	1	BEFORE	N	1	0.902255639	192
19	6.65	1984	3	156384.26	2	BEFORE	N	1	0.451127820	192
19	6.65	1984	6	177353.66	3	BEFORE	N	2	0.902255639	192
19	6.65	1984	8	184737.49	4	BEFORE	N	2	1.203007519	192
19	6.65	1984	4	191726.78	5	BEFORE	N	2	0.601503759	192
19	6.65	1984	3	188512.70	6	BEFORE	N	3	0.451127820	192
19	6.65	1984	5	191423.01	7	BEFORE	N	3	0.751879699	192
19	6.65	1984	6	189680.33	8	BEFORE	N	3	0.902255639	192
19	6.65	1984	6	183066.50	9	BEFORE	N	4	0.902255639	192
19	6.65	1984	5	185251.68	10	BEFORE	N	4	0.751879699	192
19	6.65	1984	7	173953.40	11	BEFORE	N	4	1.052631579	192
19	6.65	1984	6	180183.52	12	BEFORE	N	1	0.902255639	192
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19	6.65	1985	4	148211.02	2	BEFORE	N	1	0.601503759	192
19	6.65	1985	3	174087.51	3	BEFORE	N	2	0.451127820	192
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19	6.65	1985	12	188195.92	5	BEFORE	N	2	1.804511278	192
19	6.65	1985	3	185041.03	6	BEFORE	N	3	0.451127820	192
19	6.65	1985	2	187897.75	7	BEFORE	N	3	0.300751880	192
19	6.65	1985	6	186187.16	8	BEFORE	N	3	0.902255639	192
19	6.65	1985	4	179695.13	9	BEFORE	N	4	0.601503759	192
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19	6.65	1985	2	176865.25	12	BEFORE	N	1	0.300751880	192
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19	6.65	1986	6	191726.78 5	BEFORE N	2	0.902255639	192
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19	6.65	1987	1	164441.90 1	BEFORE N	1	0.150375940	192
19	6.65	1987	1	153520.22 2	BEFORE N	1	0.150375940	192
19	6.65	1987	4	180323.65 3	BEFORE N	2	0.601503759	192
19	6.65	1987	3	187831.12 4	BEFORE N	2	0.451127820	192
19	6.65	1987	4	194937.45 5	BEFORE N	2	0.601503759	192
19	6.65	1987	1	191669.55 6	BEFORE N	3	0.150375940	192
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19	6.65	1988	6	172417.07 1	BEFORE N	1	0.902255639	192
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19	6.65	1988	4	189069.06 3	BEFORE N	2	0.601503759	192
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19	6.65	1988	3	204391.61 5	BEFORE N	2	0.451127820	192
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19	6.65	1988	4	197488.79 10	BEFORE N	4	0.601503759	192
19	6.65	1988	7	185444.18 11	BEFORE N	4	1.052631579	192
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19	6.65	1989	7	201192.90 9	BEFORE N	4	1.052631579	192
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19	6.65	1989	9	198024.47 12	BEFORE N	1	1.353383459	192
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19	6.65	1990	10	170778.61 2	BEFORE N	1	1.503759398	192
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20	5.86	1986	4	203829.41 12	BEFORE Y	1	0.682593857	288
20	5.86	1987	2	186021.98 1	BEFORE Y	1	0.341296928	288
20	5.86	1987	2	173667.02 2	BEFORE Y	1	0.341296928	288
20	5.86	1987	0	203987.92 3	BEFORE Y	2	0.000000000	288
20	5.86	1987	3	212480.62 4	BEFORE Y	2	0.511945392	288
20	5.86	1987	5	220519.53 5	BEFORE Y	2	0.853242321	288
20	5.86	1987	8	216822.77 6	BEFORE Y	3	1.365187713	288
20	5.86	1987	6	220170.14 7	BEFORE Y	3	1.023890785	288
20	5.86	1987	3	218165.75 8	BEFORE Y	3	0.511945392	288
20	5.86	1987	4	210558.69 9	BEFORE Y	4	0.682593857	288
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20	5.86	1987	1	200077.02 11	BEFORE Y	4	0.170648464	288
20	5.86	1987	8	207242.76 12	BEFORE Y	1	1.365187713	288
20	5.86	1988	4	195043.75 1	BEFORE Y	1	0.682593857	288
20	5.86	1988	6	188592.79 2	BEFORE Y	1	1.023890785	288
20	5.86	1988	3	213881.01 3	BEFORE Y	2	0.511945392	288
20	5.86	1988	5	222785.59 4	BEFORE Y	2	0.853242321	288
20	5.86	1988	9	231214.38 5	BEFORE Y	2	1.535836177	288
20	5.86	1988	7	227338.33 6	BEFORE Y	3	1.194539249	288
20	5.86	1988	4	230848.04 7	BEFORE Y	3	0.682593857	288
20	5.86	1988	7	228746.44 8	BEFORE Y	3	1.194539249	288
20	5.86	1988	4	220770.45 9	BEFORE Y	4	0.682593857	288
20	5.86	1988	4	223405.68 10	BEFORE Y	4	0.682593857	288
20	5.86	1988	3	209780.44 11	BEFORE Y	4	0.511945392	288
20	5.86	1988	5	217293.70 12	BEFORE Y	1	0.853242321	288
20	5.86	1989	8	201073.82 1	BEFORE Y	1	1.365187713	288
20	5.86	1989	7	187719.17 2	BEFORE Y	1	1.194539249	288
20	5.86	1989	5	220493.46 3	BEFORE Y	2	0.853242321	288
20	5.86	1989	2	229673.34 4	BEFORE Y	2	0.341296928	288
20	5.86	1989	6	238362.72 5	BEFORE Y	2	1.023890785	288
20	5.86	1989	4	234366.84 6	BEFORE Y	3	0.682593857	288
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20	5.86	1989	8	216266.11 11	BEFORE Y	4	1.365187713	288
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20	5.86	1990	5	193190.27 2	BEFORE Y	1	0.853242321	288
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20	5.86	1990	4	236367.21 4	BEFORE Y	2	0.682593857	288
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20	5.86	1990	9	241197.50 6	BEFORE Y	3	1.535836177	288
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20	5.86	1990	6	242691.45 8	BEFORE Y	3	1.023890785	288

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20	5.86	1990	7	230540.52 12	BEFORE Y	1	1.194539249	288
20	5.86	1991	5	212177.04 1	BEFORE Y	1	0.853242321	288
20	5.86	1991	5	198084.95 2	BEFORE Y	1	0.853242321	288
20	5.86	1991	4	232669.03 3	BEFORE Y	2	0.682593857	288
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20	5.86	1991	9	228208.25 11	BEFORE Y	4	1.535836177	288
20	5.86	1991	9	236381.50 12	BEFORE Y	1	1.535836177	288
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20	5.86	1992	6	258504.84 5	BEFORE Y	2	1.023890785	288
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20	5.86	1993	9	259131.69 4	BEFORE Y	2	1.535836177	288
20	5.86	1993	3	268935.58 5	BEFORE Y	2	0.511945392	288
20	5.86	1993	12	264427.18 6	BEFORE Y	3	2.047781570	288
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20	5.86	1993	8	244004.83 11	BEFORE Y	4	1.365187713	288
20	5.86	1993	11	252743.83 12	BEFORE Y	1	1.877133106	288
20	5.86	1994	6	232607.57 1	BEFORE Y	1	1.023890785	288
20	5.86	1994	5	217158.55 2	BEFORE Y	1	0.853242321	288
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20	5.86	1994	2	265692.27 4	BEFORE Y	2	0.341296928	288
20	5.86	1994	6	275744.37 5	BEFORE Y	2	1.023890785	288
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20	5.86	1994	9	272801.13 8	BEFORE Y	3	1.535836177	288
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20	5.86	1994	10	259142.68 12	BEFORE Y	1	1.706484642	288
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20	5.86	1995	3	261145.40 3	BEFORE Y	2	0.511945392	288
20	5.86	1995	10	272017.75 4	BEFORE Y	2	1.706484642	288
20	5.86	1995	7	282309.17 5	BEFORE Y	2	1.194539249	288
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20	5.86	1995	12	279295.86 8	BEFORE Y	3	2.047781570	288
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20	5.86	1995	11	265312.24 12	BEFORE Y	1	1.877133106	288
20	5.86	1996	8	246435.15 1	BEFORE Y	1	1.365187713	288
20	5.86	1996	2	238284.45 2	BEFORE Y	1	0.341296928	288
20	5.86	1996	9	270235.78 3	BEFORE Y	2	1.535836177	288
20	5.86	1996	6	281486.60 4	BEFORE Y	2	1.023890785	288

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20	5.86	1996	7	289018.05 8	BEFORE	Y	3	1.194539249	288
20	5.86	1996	5	278940.49 9	BEFORE	Y	4	0.853242321	288
20	5.86	1996	5	282270.07 10	BEFORE	Y	4	0.853242321	288
20	5.86	1996	5	265054.76 11	BEFORE	Y	4	0.853242321	288
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20	5.86	1997	6	285979.87 4	BEFORE	Y	2	1.023890785	288
20	5.86	1997	6	296799.52 5	BEFORE	Y	2	1.023890785	288
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20	5.86	1997	5	296329.28 7	BEFORE	Y	3	0.853242321	288
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20	5.86	1997	6	286775.86 10	BEFORE	Y	4	1.023890785	288
20	5.86	1997	6	269285.74 11	BEFORE	Y	4	1.023890785	288
20	5.86	1997	4	278930.17 12	BEFORE	Y	1	0.682593857	288
20	5.86	1998	4	268412.31 1	BEFORE	Y	1	0.682593857	288
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20	5.86	1998	7	294335.48 3	BEFORE	Y	2	1.194539249	288
20	5.86	1998	8	306589.65 4	BEFORE	Y	2	1.365187713	288
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20	5.88	1999	4	268219.99 3	BEFORE	Y	2	0.680272109	288
20	5.88	1999	6	279386.88 4	BEFORE	Y	2	1.020408163	288
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20	5.88	1999	6	276859.77 9	BEFORE	Y	4	1.020408163	288
20	5.88	1999	4	280164.52 10	BEFORE	Y	4	0.680272109	288
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20	5.88	1999	5	272499.71 12	BEFORE	Y	1	0.850340136	288
20	5.88	2000	8	238073.85 1	BEFORE	Y	1	1.360544218	288
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20	5.88	2000	10	281777.20 7	BEFORE	Y	3	1.700680272	288
20	5.88	2000	5	279211.96 8	BEFORE	Y	3	0.850340136	288
20	5.88	2000	2	269476.31 9	BEFORE	Y	4	0.340136054	288
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20	5.88	2000	8	265232.53 12	BEFORE	Y	1	1.360544218	288
20	5.88	2001	0	239499.15 1	BEFORE	Y	1	0.000000000	288
20	5.88	2001	2	223592.42 2	BEFORE	Y	1	0.340136054	288
20	5.88	2001	1	262629.90 3	BEFORE	Y	2	0.170068027	288
20	5.88	2001	7	273564.06 4	BEFORE	Y	2	1.190476190	288
20	5.88	2001	8	283913.98 5	BEFORE	Y	2	1.360544218	288
20	5.88	2001	9	279154.48 6	BEFORE	Y	3	1.530612245	288
20	5.88	2001	8	283464.15 7	BEFORE	Y	3	1.360544218	288
20	5.88	2001	2	280883.54 8	BEFORE	Y	3	0.340136054	288
20	5.88	2001	6	271089.61 9	BEFORE	Y	4	1.020408163	288
20	5.88	2001	9	274325.49 10	BEFORE	Y	4	1.530612245	288
20	5.88	2001	8	257594.70 11	BEFORE	Y	4	1.360544218	288
20	5.88	2001	6	266820.43 12	BEFORE	Y	1	1.020408163	288

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20	5.88	2002	6	272594.62 3	BEFORE Y	2	1.020408163	288
20	5.88	2002	3	283943.64 4	BEFORE Y	2	0.510204082	288
20	5.88	2002	2	294686.26 5	BEFORE Y	2	0.340136054	288
20	5.88	2002	8	289746.18 6	BEFORE Y	3	1.360544218	288
20	5.88	2002	6	294219.36 7	BEFORE Y	3	1.020408163	288
20	5.88	2002	7	291540.84 8	BEFORE Y	3	1.190476190	288
20	5.88	2002	4	281375.31 9	BEFORE Y	4	0.680272109	288
20	5.88	2002	7	284733.96 10	BEFORE Y	4	1.190476190	288
20	5.88	2002	4	267368.37 11	BEFORE Y	4	0.680272109	288
20	5.88	2002	6	276944.14 12	BEFORE Y	1	1.020408163	288
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20	5.88	2003	1	257245.68 2	BEFORE Y	1	0.170068027	288
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20	5.88	2003	6	314738.64 4	BEFORE Y	2	1.020408163	288
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20	5.88	2003	5	323159.79 8	BEFORE Y	3	0.850340136	288
20	5.88	2003	2	311891.76 9	BEFORE Y	4	0.340136054	288
20	5.88	2003	1	315614.67 10	BEFORE Y	4	0.170068027	288
20	5.88	2003	6	296365.71 11	BEFORE Y	4	1.020408163	288
20	5.88	2003	7	306980.01 12	BEFORE Y	1	1.190476190	288
20	5.87	2004	7	280448.29 1	BEFORE Y	1	1.192504259	288
20	5.87	2004	8	271172.63 2	BEFORE Y	1	1.362862010	288
20	5.87	2004	3	307533.89 3	BEFORE Y	2	0.511073254	288
20	5.87	2004	2	320337.56 4	BEFORE Y	2	0.340715503	288
20	5.87	2004	4	332457.08 5	BEFORE Y	2	0.681431005	288
20	5.87	2004	3	326883.82 6	BEFORE Y	3	0.511073254	288
20	5.87	2004	4	331930.34 7	BEFORE Y	3	0.681431005	288
20	5.87	2004	5	328908.51 8	BEFORE Y	3	0.851788756	288
20	5.87	2004	11	317440.03 9	BEFORE Y	4	1.873935264	288
20	5.87	2004	5	321229.17 10	BEFORE Y	4	0.851788756	288
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20	5.87	2004	5	312440.91 12	BEFORE Y	1	0.851788756	288
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20	5.84	2005	2	261941.59 2	BEFORE Y	1	0.342465753	288
20	5.84	2005	7	307674.54 3	BEFORE Y	2	1.198630137	288
20	5.84	2005	6	320484.06 4	BEFORE Y	2	1.027397260	288
20	5.84	2005	4	332609.13 5	BEFORE Y	2	0.684931507	288
20	5.84	2005	6	327033.32 6	BEFORE Y	3	1.027397260	288
20	5.84	2005	7	332082.15 7	BEFORE Y	3	1.198630137	288
20	5.84	2005	2	329058.94 8	BEFORE Y	3	0.342465753	288
20	5.84	2005	9	317585.21 9	BEFORE Y	4	1.541095890	288
20	5.84	2005	5	321376.09 10	BEFORE Y	4	0.856164384	288
20	5.84	2005	9	301775.74 11	BEFORE Y	4	1.541095890	288
20	5.84	2005	8	312583.80 12	BEFORE Y	1	1.369863014	288
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21	2.68	1982	0	74919.94 3	BEFORE Y	2	0.000000000	288
21	2.68	1982	0	78039.10 4	BEFORE Y	2	0.000000000	288
21	2.68	1982	0	80991.61 5	BEFORE Y	2	0.000000000	288
21	2.68	1982	0	79633.87 6	BEFORE Y	3	0.000000000	288
21	2.68	1982	1	80863.28 7	BEFORE Y	3	0.373134328	288
21	2.68	1982	0	80127.12 8	BEFORE Y	3	0.000000000	288
21	2.68	1982	1	77333.22 9	BEFORE Y	4	0.373134328	288
21	2.68	1982	0	78256.32 10	BEFORE Y	4	0.000000000	288
21	2.68	1982	0	73483.56 11	BEFORE Y	4	0.000000000	288
21	2.68	1982	0	76115.36 12	BEFORE Y	1	0.000000000	288
21	2.68	1983	0	69452.92 1	BEFORE Y	1	0.000000000	288
21	2.68	1983	0	64840.09 2	BEFORE Y	1	0.000000000	288
21	2.68	1983	0	76160.66 3	BEFORE Y	2	0.000000000	288
21	2.68	1983	0	79331.49 4	BEFORE Y	2	0.000000000	288
21	2.68	1983	0	82332.88 5	BEFORE Y	2	0.000000000	288
21	2.68	1983	0	80952.67 6	BEFORE Y	3	0.000000000	288
21	2.68	1983	0	82202.44 7	BEFORE Y	3	0.000000000	288
21	2.68	1983	0	81454.08 8	BEFORE Y	3	0.000000000	288

21	2.68	1983	0	78613.92	9	BEFORE	Y	4	0.000000000	288
21	2.68	1983	1	79552.30	10	BEFORE	Y	4	0.373134328	288
21	2.68	1983	0	74700.50	11	BEFORE	Y	4	0.000000000	288
21	2.68	1983	0	77375.88	12	BEFORE	Y	1	0.000000000	288
21	2.68	1984	0	72162.72	1	BEFORE	Y	1	0.000000000	288
21	2.68	1984	0	69775.98	2	BEFORE	Y	1	0.000000000	288
21	2.68	1984	0	79132.17	3	BEFORE	Y	2	0.000000000	288
21	2.68	1984	0	82426.71	4	BEFORE	Y	2	0.000000000	288
21	2.68	1984	0	85545.21	5	BEFORE	Y	2	0.000000000	288
21	2.68	1984	0	84111.14	6	BEFORE	Y	3	0.000000000	288
21	2.68	1984	0	85409.67	7	BEFORE	Y	3	0.000000000	288
21	2.68	1984	1	84632.12	8	BEFORE	Y	3	0.373134328	288
21	2.68	1984	0	81681.14	9	BEFORE	Y	4	0.000000000	288
21	2.68	1984	0	82656.13	10	BEFORE	Y	4	0.000000000	288
21	2.68	1984	1	77615.03	11	BEFORE	Y	4	0.373134328	288
21	2.68	1984	0	80394.80	12	BEFORE	Y	1	0.000000000	288
21	2.68	1985	0	70833.76	1	BEFORE	Y	1	0.000000000	288
21	2.68	1985	0	66129.22	2	BEFORE	Y	1	0.000000000	288
21	2.68	1985	0	77674.87	3	BEFORE	Y	2	0.000000000	288
21	2.68	1985	0	80908.73	4	BEFORE	Y	2	0.000000000	288
21	2.68	1985	0	83969.80	5	BEFORE	Y	2	0.000000000	288
21	2.68	1985	1	82562.14	6	BEFORE	Y	3	0.373134328	288
21	2.68	1985	1	83836.76	7	BEFORE	Y	3	0.373134328	288
21	2.68	1985	0	83073.52	8	BEFORE	Y	3	0.000000000	288
21	2.68	1985	0	80176.89	9	BEFORE	Y	4	0.000000000	288
21	2.68	1985	0	81133.93	10	BEFORE	Y	4	0.000000000	288
21	2.68	1985	0	76185.67	11	BEFORE	Y	4	0.000000000	288
21	2.68	1985	0	78914.25	12	BEFORE	Y	1	0.000000000	288
21	2.68	1986	0	72162.72	1	BEFORE	Y	1	0.000000000	288
21	2.68	1986	0	67369.91	2	BEFORE	Y	1	0.000000000	288
21	2.68	1986	0	79132.17	3	BEFORE	Y	2	0.000000000	288
21	2.68	1986	0	82426.71	4	BEFORE	Y	2	0.000000000	288
21	2.68	1986	0	85545.21	5	BEFORE	Y	2	0.000000000	288
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21	2.68	1986	2	84632.12	8	BEFORE	Y	3	0.746268657	288
21	2.68	1986	0	81681.14	9	BEFORE	Y	4	0.000000000	288
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21	2.68	1988	0	74385.15	2	BEFORE	Y	1	0.000000000	288
21	2.68	1988	0	84359.38	3	BEFORE	Y	2	0.000000000	288
21	2.68	1988	1	87871.54	4	BEFORE	Y	2	0.373134328	288
21	2.68	1988	0	91196.04	5	BEFORE	Y	2	0.000000000	288
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21	2.68	1988	0	91051.55	7	BEFORE	Y	3	0.000000000	288
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21	2.68	1989	0	79307.94	1	BEFORE	Y	1	0.000000000	288
21	2.68	1989	0	74040.57	2	BEFORE	Y	1	0.000000000	288
21	2.68	1989	1	86967.47	3	BEFORE	Y	2	0.373134328	288
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21	2.68	1989	0	93866.54	7	BEFORE	Y	3	0.000000000	288
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21	2.68	1991	0	94725.83	9	BEFORE	Y	4	0.000000000	288
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21	2.68	1991	1	90010.36	11	BEFORE	Y	4	0.373134328	288
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21	2.68	1992	0	94316.40	3	BEFORE	Y	2	0.000000000	288
21	2.68	1992	0	98243.11	4	BEFORE	Y	2	0.000000000	288
21	2.68	1992	1	101960.00	5	BEFORE	Y	2	0.373134328	288
21	2.68	1992	0	100250.75	6	BEFORE	Y	3	0.000000000	288
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21	2.68	1992	0	100871.70	8	BEFORE	Y	3	0.000000000	288
21	2.68	1992	1	97354.47	9	BEFORE	Y	4	0.373134328	288
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21	2.68	1993	0	96240.87	11	BEFORE	Y	4	0.000000000	288
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21	2.68	1994	0	100606.30	3	BEFORE	Y	2	0.000000000	288
21	2.68	1994	0	104794.88	4	BEFORE	Y	2	0.000000000	288
21	2.68	1994	0	108759.65	5	BEFORE	Y	2	0.000000000	288
21	2.68	1994	0	106936.41	6	BEFORE	Y	3	0.000000000	288
21	2.68	1994	0	108587.33	7	BEFORE	Y	3	0.000000000	288
21	2.68	1994	0	107598.77	8	BEFORE	Y	3	0.000000000	288
21	2.68	1994	1	103846.98	9	BEFORE	Y	4	0.373134328	288
21	2.68	1994	0	105086.56	10	BEFORE	Y	4	0.000000000	288
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21	2.68	1995	1	87691.28 2	BEFORE Y	1	0.373134328	288
21	2.68	1995	1	103001.49 3	BEFORE Y	2	0.373134328	288
21	2.68	1995	1	107289.79 4	BEFORE Y	2	0.373134328	288
21	2.68	1995	0	111348.95 5	BEFORE Y	2	0.000000000	288
21	2.68	1995	0	109482.31 6	BEFORE Y	3	0.000000000	288
21	2.68	1995	0	111172.53 7	BEFORE Y	3	0.000000000	288
21	2.68	1995	0	110160.43 8	BEFORE Y	3	0.000000000	288
21	2.68	1995	0	106319.33 9	BEFORE Y	4	0.000000000	288
21	2.68	1995	0	107588.41 10	BEFORE Y	4	0.000000000	288
21	2.68	1995	1	101026.72 11	BEFORE Y	4	0.373134328	288
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21	2.68	1996	0	93984.63 2	BEFORE Y	1	0.000000000	288
21	2.68	1996	0	106586.94 3	BEFORE Y	2	0.000000000	288
21	2.68	1996	0	111024.51 4	BEFORE Y	2	0.000000000	288
21	2.68	1996	0	115224.97 5	BEFORE Y	2	0.000000000	288
21	2.68	1996	1	113293.35 6	BEFORE Y	3	0.373134328	288
21	2.68	1996	0	115042.40 7	BEFORE Y	3	0.000000000	288
21	2.68	1996	0	113995.08 8	BEFORE Y	3	0.000000000	288
21	2.68	1996	0	110020.27 9	BEFORE Y	4	0.000000000	288
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21	2.68	1996	3	108287.64 12	BEFORE Y	1	1.119402985	288
21	2.68	1997	2	98751.01 1	BEFORE Y	1	0.746268657	288
21	2.68	1997	1	92192.30 2	BEFORE Y	1	0.373134328	288
21	2.68	1997	0	108288.35 3	BEFORE Y	2	0.000000000	288
21	2.68	1997	1	112796.76 4	BEFORE Y	2	0.373134328	288
21	2.68	1997	0	117064.26 5	BEFORE Y	2	0.000000000	288
21	2.68	1997	1	115101.81 6	BEFORE Y	3	0.373134328	288
21	2.68	1997	0	116878.79 7	BEFORE Y	3	0.000000000	288
21	2.68	1997	1	115814.75 8	BEFORE Y	3	0.373134328	288
21	2.68	1997	1	111776.48 9	BEFORE Y	4	0.373134328	288
21	2.68	1997	0	113110.71 10	BEFORE Y	4	0.000000000	288
21	2.68	1997	0	106212.22 11	BEFORE Y	4	0.000000000	288
21	2.68	1997	0	110016.20 12	BEFORE Y	1	0.000000000	288
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21	2.68	1998	0	99598.33 2	BEFORE Y	1	0.000000000	288
21	2.68	1998	0	116987.41 3	BEFORE Y	2	0.000000000	288
21	2.68	1998	0	121857.99 4	BEFORE Y	2	0.000000000	288
21	2.68	1998	0	126468.32 5	BEFORE Y	2	0.000000000	288
21	2.68	1998	1	124348.22 6	BEFORE Y	3	0.373134328	288
21	2.68	1998	0	126267.94 7	BEFORE Y	3	0.000000000	288
21	2.68	1998	0	125118.42 8	BEFORE Y	3	0.000000000	288
21	2.68	1998	0	120755.76 9	BEFORE Y	4	0.000000000	288
21	2.68	1998	1	122197.16 10	BEFORE Y	4	0.373134328	288
21	2.68	1998	2	114744.50 11	BEFORE Y	4	0.746268657	288
21	2.68	1998	1	118854.06 12	BEFORE Y	1	0.373134328	288
21	2.68	1999	0	111334.24 1	BEFORE Y	1	0.000000000	288
21	2.68	1999	0	103939.79 2	BEFORE Y	1	0.000000000	288
21	2.68	1999	0	122086.86 3	BEFORE Y	2	0.000000000	288
21	2.68	1999	0	127169.75 4	BEFORE Y	2	0.000000000	288
21	2.68	1999	0	131981.04 5	BEFORE Y	2	0.000000000	288
21	2.68	1999	0	129768.53 6	BEFORE Y	3	0.000000000	288
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21	2.68	1999	0	130572.30 8	BEFORE Y	3	0.000000000	288
21	2.68	1999	0	126019.47 9	BEFORE Y	4	0.000000000	288
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21	2.68	1999	2	119746.19 11	BEFORE Y	4	0.746268657	288
21	2.68	1999	2	124034.88 12	BEFORE Y	1	0.746268657	288
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21	2.68	2000	0	120587.03 3	BEFORE Y	2	0.000000000	288
21	2.68	2000	0	125607.47 4	BEFORE Y	2	0.000000000	288
21	2.68	2000	1	130359.65 5	BEFORE Y	2	0.373134328	288
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21	2.68	2000	0	118275.10 11	BEFORE Y	4	0.000000000	288
21	2.68	2000	0	122511.11 12	BEFORE Y	1	0.000000000	288
21	2.68	2001	0	111881.34 1	BEFORE Y	1	0.000000000	288
21	2.68	2001	0	104450.55 2	BEFORE Y	1	0.000000000	288
21	2.68	2001	0	122686.80 3	BEFORE Y	2	0.000000000	288
21	2.68	2001	0	127794.66 4	BEFORE Y	2	0.000000000	288
21	2.68	2001	0	132629.60 5	BEFORE Y	2	0.000000000	288
21	2.68	2001	0	130406.21 6	BEFORE Y	3	0.000000000	288
21	2.68	2001	1	132419.46 7	BEFORE Y	3	0.373134328	288
21	2.68	2001	0	131213.94 8	BEFORE Y	3	0.000000000	288
21	2.68	2001	0	126638.73 9	BEFORE Y	4	0.000000000	288
21	2.68	2001	0	128150.36 10	BEFORE Y	4	0.000000000	288
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21	2.68	2002	2	127786.25 3	BEFORE Y	2	0.746268657	288
21	2.68	2002	0	133106.42 4	BEFORE Y	2	0.000000000	288
21	2.68	2002	0	138142.32 5	BEFORE Y	2	0.000000000	288
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21	2.68	2002	0	137923.45 7	BEFORE Y	3	0.000000000	288
21	2.68	2002	0	136667.82 8	BEFORE Y	3	0.000000000	288
21	2.68	2002	1	131902.44 9	BEFORE Y	4	0.373134328	288
21	2.68	2002	0	133476.90 10	BEFORE Y	4	0.000000000	288
21	2.68	2002	0	125336.30 11	BEFORE Y	4	0.000000000	288
21	2.68	2002	0	129825.21 12	BEFORE Y	1	0.000000000	288
21	2.68	2003	1	119540.69 1	BEFORE Y	1	0.373134328	288
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21	2.68	2003	0	131085.90 3	BEFORE Y	2	0.000000000	288
21	2.68	2003	1	136543.44 4	BEFORE Y	2	0.373134328	288
21	2.68	2003	0	141709.37 5	BEFORE Y	2	0.000000000	288
21	2.68	2003	0	139333.78 6	BEFORE Y	3	0.000000000	288
21	2.68	2003	1	141484.85 7	BEFORE Y	3	0.373134328	288
21	2.68	2003	1	140196.80 8	BEFORE Y	3	0.373134328	288
21	2.68	2003	0	135308.37 9	BEFORE Y	4	0.000000000	288
21	2.68	2003	0	136923.49 10	BEFORE Y	4	0.000000000	288
21	2.68	2003	1	128572.69 11	BEFORE Y	4	0.373134328	288
21	2.68	2003	1	133177.50 12	BEFORE Y	1	0.373134328	288
21	2.68	2004	0	122276.18 1	BEFORE Y	1	0.000000000	288
21	2.68	2004	1	118231.97 2	BEFORE Y	1	0.373134328	288
21	2.68	2004	0	134085.57 3	BEFORE Y	2	0.000000000	288
21	2.68	2004	1	139668.00 4	BEFORE Y	2	0.373134328	288
21	2.68	2004	0	144952.15 5	BEFORE Y	2	0.000000000	288
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21	2.68	2004	0	144722.49 7	BEFORE Y	3	0.000000000	288
21	2.68	2004	0	143404.96 8	BEFORE Y	3	0.000000000	288
21	2.68	2004	0	138404.68 9	BEFORE Y	4	0.000000000	288
21	2.68	2004	0	140056.75 10	BEFORE Y	4	0.000000000	288
21	2.68	2004	0	131514.86 11	BEFORE Y	4	0.000000000	288
21	2.68	2004	1	136225.04 12	BEFORE Y	1	0.373134328	288
21	2.68	2005	0	122276.18 1	BEFORE Y	1	0.000000000	288
21	2.68	2005	0	118231.97 2	BEFORE Y	1	0.000000000	288
21	2.68	2005	0	134085.57 3	BEFORE Y	2	0.000000000	288
21	2.68	2005	0	139668.00 4	BEFORE Y	2	0.000000000	288
21	2.68	2005	2	144952.15 5	BEFORE Y	2	0.746268657	288
21	2.68	2005	1	142522.19 6	BEFORE Y	3	0.373134328	288
21	2.68	2005	2	144722.49 7	BEFORE Y	3	0.746268657	288
21	2.68	2005	0	143404.96 8	BEFORE Y	3	0.000000000	288
21	2.68	2005	1	138404.68 9	BEFORE Y	4	0.373134328	288
21	2.68	2005	1	140056.75 10	BEFORE Y	4	0.373134328	288
21	2.68	2005	0	131514.86 11	BEFORE Y	4	0.000000000	288
21	2.68	2005	1	136225.04 12	BEFORE Y	1	0.373134328	288
22	8.64	1982	4	85695.70 1	BEFORE Y	1	0.462962963	288
22	8.64	1982	2	80004.08 2	BEFORE Y	1	0.231481481	288
22	8.64	1982	2	93972.16 3	BEFORE Y	2	0.231481481	288
22	8.64	1982	1	97884.54 4	BEFORE Y	2	0.115740741	288

22	8.64	1982	2	101587.87	5	BEFORE	Y	2	0.231481481	288
22	8.64	1982	1	99884.86	6	BEFORE	Y	3	0.115740741	288
22	8.64	1982	0	101426.91	7	BEFORE	Y	3	0.000000000	288
22	8.64	1982	2	100503.54	8	BEFORE	Y	3	0.231481481	288
22	8.64	1982	1	96999.15	9	BEFORE	Y	4	0.115740741	288
22	8.64	1982	2	98156.99	10	BEFORE	Y	4	0.231481481	288
22	8.64	1982	2	92170.51	11	BEFORE	Y	4	0.231481481	288
22	8.64	1982	3	95471.58	12	BEFORE	Y	1	0.347222222	288
22	8.64	1983	4	87114.88	1	BEFORE	Y	1	0.462962963	288
22	8.64	1983	2	81329.00	2	BEFORE	Y	1	0.231481481	288
22	8.64	1983	1	95528.41	3	BEFORE	Y	2	0.115740741	288
22	8.64	1983	5	99505.58	4	BEFORE	Y	2	0.578703704	288
22	8.64	1983	2	103270.23	5	BEFORE	Y	2	0.231481481	288
22	8.64	1983	3	101539.02	6	BEFORE	Y	3	0.347222222	288
22	8.64	1983	2	103106.61	7	BEFORE	Y	3	0.231481481	288
22	8.64	1983	5	102167.95	8	BEFORE	Y	3	0.578703704	288
22	8.64	1983	4	98605.53	9	BEFORE	Y	4	0.462962963	288
22	8.64	1983	3	99782.54	10	BEFORE	Y	4	0.347222222	288
22	8.64	1983	1	93696.92	11	BEFORE	Y	4	0.115740741	288
22	8.64	1983	4	97052.66	12	BEFORE	Y	1	0.462962963	288
22	8.64	1984	3	90513.78	1	BEFORE	Y	1	0.347222222	288
22	8.64	1984	4	87520.09	2	BEFORE	Y	1	0.462962963	288
22	8.64	1984	3	99255.57	3	BEFORE	Y	2	0.347222222	288
22	8.64	1984	0	103387.91	4	BEFORE	Y	2	0.000000000	288
22	8.64	1984	5	107299.45	5	BEFORE	Y	2	0.578703704	288
22	8.64	1984	3	105500.70	6	BEFORE	Y	3	0.347222222	288
22	8.64	1984	3	107129.45	7	BEFORE	Y	3	0.347222222	288
22	8.64	1984	1	106154.16	8	BEFORE	Y	3	0.115740741	288
22	8.64	1984	2	102452.75	9	BEFORE	Y	4	0.231481481	288
22	8.64	1984	6	103675.68	10	BEFORE	Y	4	0.694444444	288
22	8.64	1984	2	97352.62	11	BEFORE	Y	4	0.231481481	288
22	8.64	1984	3	100839.30	12	BEFORE	Y	1	0.347222222	288
22	8.64	1985	2	88846.87	1	BEFORE	Y	1	0.231481481	288
22	8.64	1985	0	82945.96	2	BEFORE	Y	1	0.000000000	288
22	8.64	1985	2	97427.67	3	BEFORE	Y	2	0.231481481	288
22	8.64	1985	2	101483.91	4	BEFORE	Y	2	0.231481481	288
22	8.64	1985	1	105323.42	5	BEFORE	Y	2	0.115740741	288
22	8.64	1985	1	103557.79	6	BEFORE	Y	3	0.115740741	288
22	8.64	1985	3	105156.54	7	BEFORE	Y	3	0.347222222	288
22	8.64	1985	4	104199.22	8	BEFORE	Y	3	0.462962963	288
22	8.64	1985	7	100565.97	9	BEFORE	Y	4	0.810185185	288
22	8.64	1985	2	101766.38	10	BEFORE	Y	4	0.231481481	288
22	8.64	1985	3	95559.77	11	BEFORE	Y	4	0.347222222	288
22	8.64	1985	5	98982.23	12	BEFORE	Y	1	0.578703704	288
22	8.64	1986	1	90513.78	1	BEFORE	Y	1	0.115740741	288
22	8.64	1986	2	84502.16	2	BEFORE	Y	1	0.231481481	288
22	8.64	1986	5	99255.57	3	BEFORE	Y	2	0.578703704	288
22	8.64	1986	1	103387.91	4	BEFORE	Y	2	0.115740741	288
22	8.64	1986	1	107299.45	5	BEFORE	Y	2	0.115740741	288
22	8.64	1986	2	105500.70	6	BEFORE	Y	3	0.231481481	288
22	8.64	1986	2	107129.45	7	BEFORE	Y	3	0.231481481	288
22	8.64	1986	1	106154.16	8	BEFORE	Y	3	0.115740741	288
22	8.64	1986	4	102452.75	9	BEFORE	Y	4	0.462962963	288
22	8.64	1986	2	103675.68	10	BEFORE	Y	4	0.231481481	288
22	8.64	1986	3	97352.62	11	BEFORE	Y	4	0.347222222	288
22	8.64	1986	3	100839.30	12	BEFORE	Y	1	0.347222222	288
22	8.64	1987	2	92029.53	1	BEFORE	Y	1	0.231481481	288
22	8.64	1987	0	85917.24	2	BEFORE	Y	1	0.000000000	288
22	8.64	1987	2	100917.72	3	BEFORE	Y	2	0.231481481	288
22	8.64	1987	0	105119.26	4	BEFORE	Y	2	0.000000000	288
22	8.64	1987	2	109096.30	5	BEFORE	Y	2	0.231481481	288
22	8.64	1987	3	107267.43	6	BEFORE	Y	3	0.347222222	288
22	8.64	1987	6	108923.45	7	BEFORE	Y	3	0.694444444	288
22	8.64	1987	2	107931.83	8	BEFORE	Y	3	0.231481481	288
22	8.64	1987	3	104168.43	9	BEFORE	Y	4	0.347222222	288
22	8.64	1987	4	105411.84	10	BEFORE	Y	4	0.462962963	288
22	8.64	1987	1	98982.90	11	BEFORE	Y	4	0.115740741	288
22	8.64	1987	4	102527.96	12	BEFORE	Y	1	0.462962963	288

22	8.64	1988	4	96492.82	1	BEFORE	Y	1	0.462962963	288
22	8.64	1988	2	93301.38	2	BEFORE	Y	1	0.231481481	288
22	8.64	1988	3	105812.06	3	BEFORE	Y	2	0.347222222	288
22	8.64	1988	4	110217.38	4	BEFORE	Y	2	0.462962963	288
22	8.64	1988	4	114387.30	5	BEFORE	Y	2	0.462962963	288
22	8.64	1988	0	112469.72	6	BEFORE	Y	3	0.000000000	288
22	8.64	1988	6	114206.06	7	BEFORE	Y	3	0.694444444	288
22	8.64	1988	4	113166.35	8	BEFORE	Y	3	0.462962963	288
22	8.64	1988	3	109220.43	9	BEFORE	Y	4	0.347222222	288
22	8.64	1988	3	110524.15	10	BEFORE	Y	4	0.347222222	288
22	8.64	1988	7	103783.41	11	BEFORE	Y	4	0.810185185	288
22	8.64	1988	8	107500.40	12	BEFORE	Y	1	0.925925926	288
22	8.64	1989	2	99476.04	1	BEFORE	Y	1	0.231481481	288
22	8.64	1989	2	92869.17	2	BEFORE	Y	1	0.231481481	288
22	8.64	1989	5	109083.40	3	BEFORE	Y	2	0.578703704	288
22	8.64	1989	5	113624.91	4	BEFORE	Y	2	0.578703704	288
22	8.64	1989	2	117923.75	5	BEFORE	Y	2	0.231481481	288
22	8.64	1989	3	115946.89	6	BEFORE	Y	3	0.347222222	288
22	8.64	1989	0	117736.92	7	BEFORE	Y	3	0.000000000	288
22	8.64	1989	5	116665.06	8	BEFORE	Y	3	0.578703704	288
22	8.64	1989	2	112597.15	9	BEFORE	Y	4	0.231481481	288
22	8.64	1989	4	113941.17	10	BEFORE	Y	4	0.462962963	288
22	8.64	1989	1	106992.03	11	BEFORE	Y	4	0.115740741	288
22	8.64	1989	1	110823.94	12	BEFORE	Y	1	0.115740741	288
22	8.64	1990	2	102375.29	1	BEFORE	Y	1	0.231481481	288
22	8.64	1990	2	95575.86	2	BEFORE	Y	1	0.231481481	288
22	8.64	1990	3	112262.66	3	BEFORE	Y	2	0.347222222	288
22	8.64	1990	0	116936.53	4	BEFORE	Y	2	0.000000000	288
22	8.64	1990	3	121360.66	5	BEFORE	Y	2	0.347222222	288
22	8.64	1990	3	119326.19	6	BEFORE	Y	3	0.347222222	288
22	8.64	1990	4	121168.38	7	BEFORE	Y	3	0.462962963	288
22	8.64	1990	2	120065.28	8	BEFORE	Y	3	0.231481481	288
22	8.64	1990	6	115878.81	9	BEFORE	Y	4	0.694444444	288
22	8.64	1990	7	117262.00	10	BEFORE	Y	4	0.810185185	288
22	8.64	1990	6	110110.33	11	BEFORE	Y	4	0.694444444	288
22	8.64	1990	4	114053.92	12	BEFORE	Y	1	0.462962963	288
22	8.64	1991	3	104969.07	1	BEFORE	Y	1	0.347222222	288
22	8.64	1991	4	97997.38	2	BEFORE	Y	1	0.462962963	288
22	8.64	1991	4	115106.95	3	BEFORE	Y	2	0.462962963	288
22	8.64	1991	2	119899.24	4	BEFORE	Y	2	0.231481481	288
22	8.64	1991	3	124435.46	5	BEFORE	Y	2	0.347222222	288
22	8.64	1991	1	122349.44	6	BEFORE	Y	3	0.115740741	288
22	8.64	1991	3	124238.31	7	BEFORE	Y	3	0.347222222	288
22	8.64	1991	4	123107.26	8	BEFORE	Y	3	0.462962963	288
22	8.64	1991	2	118814.72	9	BEFORE	Y	4	0.231481481	288
22	8.64	1991	2	120232.96	10	BEFORE	Y	4	0.231481481	288
22	8.64	1991	3	112900.10	11	BEFORE	Y	4	0.347222222	288
22	8.64	1991	2	116943.60	12	BEFORE	Y	1	0.231481481	288
22	8.64	1992	3	107881.96	1	BEFORE	Y	1	0.347222222	288
22	8.64	1992	6	104313.83	2	BEFORE	Y	1	0.694444444	288
22	8.64	1992	2	118301.17	3	BEFORE	Y	2	0.231481481	288
22	8.64	1992	2	123226.44	4	BEFORE	Y	2	0.231481481	288
22	8.64	1992	2	127888.54	5	BEFORE	Y	2	0.231481481	288
22	8.64	1992	4	125744.64	6	BEFORE	Y	3	0.462962963	288
22	8.64	1992	4	127685.92	7	BEFORE	Y	3	0.462962963	288
22	8.64	1992	3	126523.49	8	BEFORE	Y	3	0.347222222	288
22	8.64	1992	3	122111.83	9	BEFORE	Y	4	0.347222222	288
22	8.64	1992	1	123569.43	10	BEFORE	Y	4	0.115740741	288
22	8.64	1992	5	116033.07	11	BEFORE	Y	4	0.578703704	288
22	8.64	1992	4	120188.78	12	BEFORE	Y	1	0.462962963	288
22	8.64	1993	3	112235.03	1	BEFORE	Y	1	0.347222222	288
22	8.64	1993	4	104780.75	2	BEFORE	Y	1	0.462962963	288
22	8.64	1993	5	123074.65	3	BEFORE	Y	2	0.578703704	288
22	8.64	1993	2	128198.66	4	BEFORE	Y	2	0.231481481	288
22	8.64	1993	3	133048.88	5	BEFORE	Y	2	0.347222222	288
22	8.64	1993	4	130818.47	6	BEFORE	Y	3	0.462962963	288
22	8.64	1993	1	132838.08	7	BEFORE	Y	3	0.115740741	288
22	8.64	1993	4	131628.75	8	BEFORE	Y	3	0.462962963	288

22	8.64	1993	3	127039.08 9	BEFORE Y	4	0.347222222	288
22	8.64	1993	2	128555.49 10	BEFORE Y	4	0.231481481	288
22	8.64	1993	2	120715.04 11	BEFORE Y	4	0.231481481	288
22	8.64	1993	3	125038.43 12	BEFORE Y	1	0.347222222	288
22	8.64	1994	3	115076.54 1	BEFORE Y	1	0.347222222	288
22	8.64	1994	2	107433.54 2	BEFORE Y	1	0.231481481	288
22	8.64	1994	0	126190.60 3	BEFORE Y	2	0.000000000	288
22	8.64	1994	1	131444.34 4	BEFORE Y	2	0.115740741	288
22	8.64	1994	5	136417.35 5	BEFORE Y	2	0.578703704	288
22	8.64	1994	3	134130.47 6	BEFORE Y	3	0.347222222	288
22	8.64	1994	1	136201.21 7	BEFORE Y	3	0.115740741	288
22	8.64	1994	4	134961.26 8	BEFORE Y	3	0.462962963	288
22	8.64	1994	2	130255.39 9	BEFORE Y	4	0.231481481	288
22	8.64	1994	1	131810.19 10	BEFORE Y	4	0.115740741	288
22	8.64	1994	4	123771.25 11	BEFORE Y	4	0.462962963	288
22	8.64	1994	0	128204.10 12	BEFORE Y	1	0.000000000	288
22	8.64	1995	6	117816.24 1	BEFORE Y	1	0.694444444	288
22	8.64	1995	3	109991.28 2	BEFORE Y	1	0.347222222	288
22	8.64	1995	7	129194.89 3	BEFORE Y	2	0.810185185	288
22	8.64	1995	3	134573.71 4	BEFORE Y	2	0.347222222	288
22	8.64	1995	3	139665.12 5	BEFORE Y	2	0.347222222	288
22	8.64	1995	5	137323.79 6	BEFORE Y	3	0.578703704	288
22	8.64	1995	4	139443.83 7	BEFORE Y	3	0.462962963	288
22	8.64	1995	5	138174.36 8	BEFORE Y	3	0.578703704	288
22	8.64	1995	6	133356.46 9	BEFORE Y	4	0.694444444	288
22	8.64	1995	3	134948.27 10	BEFORE Y	4	0.347222222	288
22	8.64	1995	3	126717.94 11	BEFORE Y	4	0.347222222	288
22	8.64	1995	2	131256.33 12	BEFORE Y	1	0.231481481	288
22	8.64	1996	3	121917.38 1	BEFORE Y	1	0.347222222	288
22	8.64	1996	2	117885.03 2	BEFORE Y	1	0.231481481	288
22	8.64	1996	2	133692.12 3	BEFORE Y	2	0.231481481	288
22	8.64	1996	4	139258.17 4	BEFORE Y	2	0.462962963	288
22	8.64	1996	3	144526.81 5	BEFORE Y	2	0.347222222	288
22	8.64	1996	5	142103.98 6	BEFORE Y	3	0.578703704	288
22	8.64	1996	7	144297.82 7	BEFORE Y	3	0.810185185	288
22	8.64	1996	3	142984.16 8	BEFORE Y	3	0.347222222	288
22	8.64	1996	2	137998.55 9	BEFORE Y	4	0.231481481	288
22	8.64	1996	3	139645.78 10	BEFORE Y	4	0.347222222	288
22	8.64	1996	1	131128.94 11	BEFORE Y	4	0.115740741	288
22	8.64	1996	9	135825.31 12	BEFORE Y	1	1.041666667	288
22	8.64	1997	2	123863.51 1	BEFORE Y	1	0.231481481	288
22	8.64	1997	2	115636.90 2	BEFORE Y	1	0.231481481	288
22	8.64	1997	1	135826.20 3	BEFORE Y	2	0.115740741	288
22	8.64	1997	2	141481.10 4	BEFORE Y	2	0.231481481	288
22	8.64	1997	3	146833.84 5	BEFORE Y	2	0.347222222	288
22	8.64	1997	2	144372.34 6	BEFORE Y	3	0.231481481	288
22	8.64	1997	2	146601.20 7	BEFORE Y	3	0.231481481	288
22	8.64	1997	5	145266.57 8	BEFORE Y	3	0.578703704	288
22	8.64	1997	3	140201.37 9	BEFORE Y	4	0.347222222	288
22	8.64	1997	2	141874.89 10	BEFORE Y	4	0.231481481	288
22	8.64	1997	2	133222.11 11	BEFORE Y	4	0.231481481	288
22	8.64	1997	2	137993.45 12	BEFORE Y	1	0.231481481	288
22	8.64	1998	5	132475.66 1	BEFORE Y	1	0.578703704	288
22	8.64	1998	2	123677.07 2	BEFORE Y	1	0.231481481	288
22	8.64	1998	3	145270.12 3	BEFORE Y	2	0.347222222	288
22	8.64	1998	0	151318.20 4	BEFORE Y	2	0.000000000	288
22	8.64	1998	2	157043.11 5	BEFORE Y	2	0.231481481	288
22	8.64	1998	7	154410.46 6	BEFORE Y	3	0.810185185	288
22	8.64	1998	3	156794.29 7	BEFORE Y	3	0.347222222	288
22	8.64	1998	6	155366.87 8	BEFORE Y	3	0.694444444	288
22	8.64	1998	3	149949.49 9	BEFORE Y	4	0.347222222	288
22	8.64	1998	4	151739.37 10	BEFORE Y	4	0.462962963	288
22	8.64	1998	1	142484.96 11	BEFORE Y	4	0.115740741	288
22	8.64	1998	6	147588.05 12	BEFORE Y	1	0.694444444	288
22	8.64	1999	2	114765.46 1	BEFORE Y	1	0.231481481	288
22	8.64	1999	4	107143.12 2	BEFORE Y	1	0.462962963	288
22	8.64	1999	1	125849.47 3	BEFORE Y	2	0.115740741	288
22	8.64	1999	2	131089.01 4	BEFORE Y	2	0.231481481	288

22	8.64	1999	3	136048.58 5	BEFORE Y	2	0.347222222	288
22	8.64	1999	3	133767.88 6	BEFORE Y	3	0.347222222	288
22	8.64	1999	6	135833.03 7	BEFORE Y	3	0.694444444	288
22	8.64	1999	3	134596.43 8	BEFORE Y	3	0.347222222	288
22	8.64	1999	2	129903.28 9	BEFORE Y	4	0.231481481	288
22	8.64	1999	1	131453.88 10	BEFORE Y	4	0.115740741	288
22	8.64	1999	0	123436.66 11	BEFORE Y	4	0.000000000	288
22	8.64	1999	3	127857.53 12	BEFORE Y	1	0.347222222	288
22	8.64	2000	1	112201.08 1	BEFORE Y	1	0.115740741	288
22	8.64	2000	1	108490.09 2	BEFORE Y	1	0.115740741	288
22	8.64	2000	4	123037.42 3	BEFORE Y	2	0.462962963	288
22	8.64	2000	2	128159.88 4	BEFORE Y	2	0.231481481	288
22	8.64	2000	2	133008.63 5	BEFORE Y	2	0.231481481	288
22	8.64	2000	4	130778.89 6	BEFORE Y	3	0.462962963	288
22	8.64	2000	2	132797.89 7	BEFORE Y	3	0.231481481	288
22	8.64	2000	4	131588.93 8	BEFORE Y	3	0.462962963	288
22	8.64	2000	2	127000.65 9	BEFORE Y	4	0.231481481	288
22	8.64	2000	2	128516.60 10	BEFORE Y	4	0.231481481	288
22	8.64	2000	4	120678.52 11	BEFORE Y	4	0.462962963	288
22	8.64	2000	2	125000.61 12	BEFORE Y	1	0.231481481	288
22	8.64	2001	6	113226.54 1	BEFORE Y	1	0.694444444	288
22	8.64	2001	1	105706.41 2	BEFORE Y	1	0.115740741	288
22	8.64	2001	2	124161.92 3	BEFORE Y	2	0.231481481	288
22	8.64	2001	1	129331.19 4	BEFORE Y	2	0.115740741	288
22	8.64	2001	3	134224.26 5	BEFORE Y	2	0.347222222	288
22	8.64	2001	4	131974.14 6	BEFORE Y	3	0.462962963	288
22	8.64	2001	3	134011.60 7	BEFORE Y	3	0.347222222	288
22	8.64	2001	1	132791.58 8	BEFORE Y	3	0.115740741	288
22	8.64	2001	0	128161.36 9	BEFORE Y	4	0.000000000	288
22	8.64	2001	2	129691.17 10	BEFORE Y	4	0.231481481	288
22	8.64	2001	5	121781.46 11	BEFORE Y	4	0.578703704	288
22	8.64	2001	3	126143.05 12	BEFORE Y	1	0.347222222	288
22	8.64	2002	1	116527.25 1	BEFORE Y	1	0.115740741	288
22	8.64	2002	2	108787.90 2	BEFORE Y	1	0.231481481	288
22	8.64	2002	0	127781.41 3	BEFORE Y	2	0.000000000	288
22	8.64	2002	1	133101.38 4	BEFORE Y	2	0.115740741	288
22	8.64	2002	3	138137.09 5	BEFORE Y	2	0.347222222	288
22	8.64	2002	3	135821.38 6	BEFORE Y	3	0.347222222	288
22	8.64	2002	1	137918.22 7	BEFORE Y	3	0.115740741	288
22	8.64	2002	0	136662.64 8	BEFORE Y	3	0.000000000	288
22	8.64	2002	1	131897.45 9	BEFORE Y	4	0.115740741	288
22	8.64	2002	2	133471.85 10	BEFORE Y	4	0.231481481	288
22	8.64	2002	1	125331.56 11	BEFORE Y	4	0.115740741	288
22	8.64	2002	2	129820.29 12	BEFORE Y	1	0.231481481	288
22	8.64	2003	0	116435.88 1	BEFORE Y	1	0.000000000	288
22	8.64	2003	3	108702.60 2	BEFORE Y	1	0.347222222	288
22	8.64	2003	1	127681.22 3	BEFORE Y	2	0.115740741	288
22	8.64	2003	2	132997.02 4	BEFORE Y	2	0.231481481	288
22	8.64	2003	1	138028.78 5	BEFORE Y	2	0.115740741	288
22	8.64	2003	2	135714.88 6	BEFORE Y	3	0.231481481	288
22	8.64	2003	1	137810.08 7	BEFORE Y	3	0.115740741	288
22	8.64	2003	1	136555.49 8	BEFORE Y	3	0.115740741	288
22	8.64	2003	5	131794.03 9	BEFORE Y	4	0.578703704	288
22	8.64	2003	2	133367.20 10	BEFORE Y	4	0.231481481	288
22	8.64	2003	2	125233.29 11	BEFORE Y	4	0.231481481	288
22	8.64	2003	3	129718.50 12	BEFORE Y	1	0.347222222	288
22	8.64	2004	3	118810.01 1	BEFORE Y	1	0.347222222	288
22	8.64	2004	2	114880.44 2	BEFORE Y	1	0.231481481	288
22	8.64	2004	3	130284.64 3	BEFORE Y	2	0.347222222	288
22	8.64	2004	0	135708.82 4	BEFORE Y	2	0.000000000	288
22	8.64	2004	0	140843.18 5	BEFORE Y	2	0.000000000	288
22	8.64	2004	4	138482.10 6	BEFORE Y	3	0.462962963	288
22	8.64	2004	4	140620.03 7	BEFORE Y	3	0.462962963	288
22	8.64	2004	0	139339.85 8	BEFORE Y	3	0.000000000	288
22	8.64	2004	2	134481.31 9	BEFORE Y	4	0.231481481	288
22	8.64	2004	4	136086.55 10	BEFORE Y	4	0.462962963	288
22	8.64	2004	1	127786.79 11	BEFORE Y	4	0.115740741	288
22	8.64	2004	2	132363.46 12	BEFORE Y	1	0.231481481	288

22	8.64	2005	1	120509.51	1	BEFORE	Y	1	0.115740741	288
22	8.64	2005	1	112505.67	2	BEFORE	Y	1	0.115740741	288
22	8.64	2005	1	132148.28	3	BEFORE	Y	2	0.115740741	288
22	8.64	2005	2	137650.06	4	BEFORE	Y	2	0.231481481	288
22	8.64	2005	3	142857.86	5	BEFORE	Y	2	0.347222222	288
22	8.64	2005	2	140463.01	6	BEFORE	Y	3	0.231481481	288
22	8.64	2005	5	142631.51	7	BEFORE	Y	3	0.578703704	288
22	8.64	2005	1	141333.02	8	BEFORE	Y	3	0.115740741	288
22	8.64	2005	3	136404.98	9	BEFORE	Y	4	0.347222222	288
22	8.64	2005	1	138033.19	10	BEFORE	Y	4	0.115740741	288
22	8.64	2005	3	129614.71	11	BEFORE	Y	4	0.347222222	288
22	8.64	2005	1	134256.84	12	BEFORE	Y	1	0.115740741	288
23	3.2	1982	0	63673.63	1	BEFORE	Y	1	0.000000000	288
23	3.2	1982	0	59444.64	2	BEFORE	Y	1	0.000000000	288
23	3.2	1982	0	69823.21	3	BEFORE	Y	2	0.000000000	288
23	3.2	1982	0	72730.19	4	BEFORE	Y	2	0.000000000	288
23	3.2	1982	0	75481.83	5	BEFORE	Y	2	0.000000000	288
23	3.2	1982	1	74216.46	6	BEFORE	Y	3	0.312500000	288
23	3.2	1982	0	75362.24	7	BEFORE	Y	3	0.000000000	288
23	3.2	1982	0	74676.15	8	BEFORE	Y	3	0.000000000	288
23	3.2	1982	0	72072.32	9	BEFORE	Y	4	0.000000000	288
23	3.2	1982	0	72932.62	10	BEFORE	Y	4	0.000000000	288
23	3.2	1982	0	68484.55	11	BEFORE	Y	4	0.000000000	288
23	3.2	1982	0	70937.31	12	BEFORE	Y	1	0.000000000	288
23	3.2	1983	0	64728.11	1	BEFORE	Y	1	0.000000000	288
23	3.2	1983	0	60429.09	2	BEFORE	Y	1	0.000000000	288
23	3.2	1983	0	70979.53	3	BEFORE	Y	2	0.000000000	288
23	3.2	1983	0	73934.65	4	BEFORE	Y	2	0.000000000	288
23	3.2	1983	1	76731.86	5	BEFORE	Y	2	0.312500000	288
23	3.2	1983	0	75445.54	6	BEFORE	Y	3	0.000000000	288
23	3.2	1983	1	76610.29	7	BEFORE	Y	3	0.312500000	288
23	3.2	1983	1	75912.84	8	BEFORE	Y	3	0.312500000	288
23	3.2	1983	1	73265.89	9	BEFORE	Y	4	0.312500000	288
23	3.2	1983	1	74140.44	10	BEFORE	Y	4	0.312500000	288
23	3.2	1983	0	69618.70	11	BEFORE	Y	4	0.000000000	288
23	3.2	1983	0	72112.08	12	BEFORE	Y	1	0.000000000	288
23	3.2	1984	0	67253.56	1	BEFORE	Y	1	0.000000000	288
23	3.2	1984	0	65029.19	2	BEFORE	Y	1	0.000000000	288
23	3.2	1984	0	73748.89	3	BEFORE	Y	2	0.000000000	288
23	3.2	1984	0	76819.30	4	BEFORE	Y	2	0.000000000	288
23	3.2	1984	0	79725.66	5	BEFORE	Y	2	0.000000000	288
23	3.2	1984	1	78389.15	6	BEFORE	Y	3	0.312500000	288
23	3.2	1984	0	79599.34	7	BEFORE	Y	3	0.000000000	288
23	3.2	1984	0	78874.68	8	BEFORE	Y	3	0.000000000	288
23	3.2	1984	0	76124.46	9	BEFORE	Y	4	0.000000000	288
23	3.2	1984	1	77033.12	10	BEFORE	Y	4	0.312500000	288
23	3.2	1984	0	72334.96	11	BEFORE	Y	4	0.000000000	288
23	3.2	1984	1	74925.63	12	BEFORE	Y	1	0.312500000	288
23	3.2	1985	0	66015.02	1	BEFORE	Y	1	0.000000000	288
23	3.2	1985	0	61630.52	2	BEFORE	Y	1	0.000000000	288
23	3.2	1985	0	72390.73	3	BEFORE	Y	2	0.000000000	288
23	3.2	1985	0	75404.59	4	BEFORE	Y	2	0.000000000	288
23	3.2	1985	0	78257.42	5	BEFORE	Y	2	0.000000000	288
23	3.2	1985	0	76945.53	6	BEFORE	Y	3	0.000000000	288
23	3.2	1985	0	78133.43	7	BEFORE	Y	3	0.000000000	288
23	3.2	1985	0	77422.12	8	BEFORE	Y	3	0.000000000	288
23	3.2	1985	0	74722.54	9	BEFORE	Y	4	0.000000000	288
23	3.2	1985	0	75614.47	10	BEFORE	Y	4	0.000000000	288
23	3.2	1985	0	71002.83	11	BEFORE	Y	4	0.000000000	288
23	3.2	1985	0	73545.79	12	BEFORE	Y	1	0.000000000	288
23	3.2	1986	0	67253.56	1	BEFORE	Y	1	0.000000000	288
23	3.2	1986	0	62786.81	2	BEFORE	Y	1	0.000000000	288
23	3.2	1986	0	73748.89	3	BEFORE	Y	2	0.000000000	288
23	3.2	1986	0	76819.30	4	BEFORE	Y	2	0.000000000	288
23	3.2	1986	0	79725.66	5	BEFORE	Y	2	0.000000000	288
23	3.2	1986	1	78389.15	6	BEFORE	Y	3	0.312500000	288
23	3.2	1986	0	79599.34	7	BEFORE	Y	3	0.000000000	288
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23	3.2	1986	0	76124.46	9	BEFORE	Y	4	0.000000000	288
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23	3.2	1986	0	72334.96	11	BEFORE	Y	4	0.000000000	288
23	3.2	1986	0	74925.63	12	BEFORE	Y	1	0.000000000	288
23	3.2	1987	1	68379.80	1	BEFORE	Y	1	0.312500000	288
23	3.2	1987	0	63838.24	2	BEFORE	Y	1	0.000000000	288
23	3.2	1987	0	74983.90	3	BEFORE	Y	2	0.000000000	288
23	3.2	1987	1	78105.73	4	BEFORE	Y	2	0.312500000	288
23	3.2	1987	0	81060.75	5	BEFORE	Y	2	0.000000000	288
23	3.2	1987	1	79701.86	6	BEFORE	Y	3	0.312500000	288
23	3.2	1987	1	80932.32	7	BEFORE	Y	3	0.312500000	288
23	3.2	1987	0	80195.53	8	BEFORE	Y	3	0.000000000	288
23	3.2	1987	1	77399.24	9	BEFORE	Y	4	0.312500000	288
23	3.2	1987	1	78323.12	10	BEFORE	Y	4	0.312500000	288
23	3.2	1987	0	73546.29	11	BEFORE	Y	4	0.000000000	288
23	3.2	1987	0	76180.34	12	BEFORE	Y	1	0.000000000	288
23	3.2	1988	0	71696.11	1	BEFORE	Y	1	0.000000000	288
23	3.2	1988	2	69324.80	2	BEFORE	Y	1	0.625000000	288
23	3.2	1988	1	78620.50	3	BEFORE	Y	2	0.312500000	288
23	3.2	1988	0	81893.73	4	BEFORE	Y	2	0.000000000	288
23	3.2	1988	0	84992.07	5	BEFORE	Y	2	0.000000000	288
23	3.2	1988	1	83567.27	6	BEFORE	Y	3	0.312500000	288
23	3.2	1988	1	84857.41	7	BEFORE	Y	3	0.312500000	288
23	3.2	1988	1	84084.88	8	BEFORE	Y	3	0.312500000	288
23	3.2	1988	0	81152.98	9	BEFORE	Y	4	0.000000000	288
23	3.2	1988	0	82121.67	10	BEFORE	Y	4	0.000000000	288
23	3.2	1988	1	77113.17	11	BEFORE	Y	4	0.312500000	288
23	3.2	1988	0	79874.97	12	BEFORE	Y	1	0.000000000	288
23	3.2	1989	0	73912.70	1	BEFORE	Y	1	0.000000000	288
23	3.2	1989	0	69003.67	2	BEFORE	Y	1	0.000000000	288
23	3.2	1989	1	81051.17	3	BEFORE	Y	2	0.312500000	288
23	3.2	1989	0	84425.60	4	BEFORE	Y	2	0.000000000	288
23	3.2	1989	1	87619.72	5	BEFORE	Y	2	0.312500000	288
23	3.2	1989	0	86150.88	6	BEFORE	Y	3	0.000000000	288
23	3.2	1989	0	87480.90	7	BEFORE	Y	3	0.000000000	288
23	3.2	1989	2	86684.49	8	BEFORE	Y	3	0.625000000	288
23	3.2	1989	2	83661.95	9	BEFORE	Y	4	0.625000000	288
23	3.2	1989	0	84660.59	10	BEFORE	Y	4	0.000000000	288
23	3.2	1989	0	79497.24	11	BEFORE	Y	4	0.000000000	288
23	3.2	1989	2	82344.42	12	BEFORE	Y	1	0.625000000	288
23	3.2	1990	1	76066.90	1	BEFORE	Y	1	0.312500000	288
23	3.2	1990	0	71014.79	2	BEFORE	Y	1	0.000000000	288
23	3.2	1990	0	83413.42	3	BEFORE	Y	2	0.000000000	288
23	3.2	1990	0	86886.20	4	BEFORE	Y	2	0.000000000	288
23	3.2	1990	0	90173.42	5	BEFORE	Y	2	0.000000000	288
23	3.2	1990	0	88661.76	6	BEFORE	Y	3	0.000000000	288
23	3.2	1990	0	90030.55	7	BEFORE	Y	3	0.000000000	288
23	3.2	1990	0	89210.92	8	BEFORE	Y	3	0.000000000	288
23	3.2	1990	2	86100.29	9	BEFORE	Y	4	0.625000000	288
23	3.2	1990	2	87128.03	10	BEFORE	Y	4	0.625000000	288
23	3.2	1990	0	81814.20	11	BEFORE	Y	4	0.000000000	288
23	3.2	1990	0	84744.36	12	BEFORE	Y	1	0.000000000	288
23	3.2	1991	1	77994.14	1	BEFORE	Y	1	0.312500000	288
23	3.2	1991	0	72814.03	2	BEFORE	Y	1	0.000000000	288
23	3.2	1991	0	85526.78	3	BEFORE	Y	2	0.000000000	288
23	3.2	1991	0	89087.55	4	BEFORE	Y	2	0.000000000	288
23	3.2	1991	0	92458.05	5	BEFORE	Y	2	0.000000000	288
23	3.2	1991	0	90908.10	6	BEFORE	Y	3	0.000000000	288
23	3.2	1991	0	92311.57	7	BEFORE	Y	3	0.000000000	288
23	3.2	1991	1	91471.18	8	BEFORE	Y	3	0.312500000	288
23	3.2	1991	0	88281.73	9	BEFORE	Y	4	0.000000000	288
23	3.2	1991	1	89335.51	10	BEFORE	Y	4	0.312500000	288
23	3.2	1991	1	83887.05	11	BEFORE	Y	4	0.312500000	288
23	3.2	1991	0	86891.45	12	BEFORE	Y	1	0.000000000	288
23	3.2	1992	0	80158.47	1	BEFORE	Y	1	0.000000000	288
23	3.2	1992	0	77507.28	2	BEFORE	Y	1	0.000000000	288
23	3.2	1992	0	87900.15	3	BEFORE	Y	2	0.000000000	288
23	3.2	1992	0	91559.73	4	BEFORE	Y	2	0.000000000	288

23	3.2	1992	1	95023.77	5	BEFORE	Y	2	0.312500000	288
23	3.2	1992	0	93430.80	6	BEFORE	Y	3	0.000000000	288
23	3.2	1992	0	94873.21	7	BEFORE	Y	3	0.000000000	288
23	3.2	1992	0	94009.50	8	BEFORE	Y	3	0.000000000	288
23	3.2	1992	1	90731.55	9	BEFORE	Y	4	0.312500000	288
23	3.2	1992	0	91814.57	10	BEFORE	Y	4	0.000000000	288
23	3.2	1992	1	86214.91	11	BEFORE	Y	4	0.312500000	288
23	3.2	1992	0	89302.69	12	BEFORE	Y	1	0.000000000	288
23	3.2	1993	0	83392.89	1	BEFORE	Y	1	0.000000000	288
23	3.2	1993	1	77854.21	2	BEFORE	Y	1	0.312500000	288
23	3.2	1993	0	91446.95	3	BEFORE	Y	2	0.000000000	288
23	3.2	1993	0	95254.19	4	BEFORE	Y	2	0.000000000	288
23	3.2	1993	0	98858.00	5	BEFORE	Y	2	0.000000000	288
23	3.2	1993	1	97200.76	6	BEFORE	Y	3	0.312500000	288
23	3.2	1993	1	98701.37	7	BEFORE	Y	3	0.312500000	288
23	3.2	1993	0	97802.81	8	BEFORE	Y	3	0.000000000	288
23	3.2	1993	0	94392.60	9	BEFORE	Y	4	0.000000000	288
23	3.2	1993	0	95519.32	10	BEFORE	Y	4	0.000000000	288
23	3.2	1993	1	89693.71	11	BEFORE	Y	4	0.312500000	288
23	3.2	1993	1	92906.08	12	BEFORE	Y	1	0.312500000	288
23	3.2	1994	0	85504.19	1	BEFORE	Y	1	0.000000000	288
23	3.2	1994	0	79825.29	2	BEFORE	Y	1	0.000000000	288
23	3.2	1994	1	93762.16	3	BEFORE	Y	2	0.312500000	288
23	3.2	1994	0	97665.79	4	BEFORE	Y	2	0.000000000	288
23	3.2	1994	0	101360.84	5	BEFORE	Y	2	0.000000000	288
23	3.2	1994	0	99661.64	6	BEFORE	Y	3	0.000000000	288
23	3.2	1994	4	101200.25	7	BEFORE	Y	3	1.250000000	288
23	3.2	1994	0	100278.94	8	BEFORE	Y	3	0.000000000	288
23	3.2	1994	0	96782.38	9	BEFORE	Y	4	0.000000000	288
23	3.2	1994	0	97937.63	10	BEFORE	Y	4	0.000000000	288
23	3.2	1994	0	91964.53	11	BEFORE	Y	4	0.000000000	288
23	3.2	1994	1	95258.23	12	BEFORE	Y	1	0.312500000	288
23	3.2	1995	0	87539.84	1	BEFORE	Y	1	0.000000000	288
23	3.2	1995	0	81725.73	2	BEFORE	Y	1	0.000000000	288
23	3.2	1995	1	95994.41	3	BEFORE	Y	2	0.312500000	288
23	3.2	1995	0	99990.98	4	BEFORE	Y	2	0.000000000	288
23	3.2	1995	1	103774.00	5	BEFORE	Y	2	0.312500000	288
23	3.2	1995	0	102034.34	6	BEFORE	Y	3	0.000000000	288
23	3.2	1995	0	103609.58	7	BEFORE	Y	3	0.000000000	288
23	3.2	1995	0	102666.33	8	BEFORE	Y	3	0.000000000	288
23	3.2	1995	0	99086.54	9	BEFORE	Y	4	0.000000000	288
23	3.2	1995	0	100269.29	10	BEFORE	Y	4	0.000000000	288
23	3.2	1995	0	94153.98	11	BEFORE	Y	4	0.000000000	288
23	3.2	1995	1	97526.10	12	BEFORE	Y	1	0.312500000	288
23	3.2	1996	1	90587.07	1	BEFORE	Y	1	0.312500000	288
23	3.2	1996	0	87590.96	2	BEFORE	Y	1	0.000000000	288
23	3.2	1996	1	99335.94	3	BEFORE	Y	2	0.312500000	288
23	3.2	1996	0	103471.63	4	BEFORE	Y	2	0.000000000	288
23	3.2	1996	0	107386.33	5	BEFORE	Y	2	0.000000000	288
23	3.2	1996	1	105586.12	6	BEFORE	Y	3	0.312500000	288
23	3.2	1996	1	107216.19	7	BEFORE	Y	3	0.312500000	288
23	3.2	1996	0	106240.11	8	BEFORE	Y	3	0.000000000	288
23	3.2	1996	1	102535.70	9	BEFORE	Y	4	0.312500000	288
23	3.2	1996	0	103759.63	10	BEFORE	Y	4	0.000000000	288
23	3.2	1996	1	97431.45	11	BEFORE	Y	4	0.312500000	288
23	3.2	1996	0	100920.94	12	BEFORE	Y	1	0.000000000	288
23	3.2	1997	0	92033.08	1	BEFORE	Y	1	0.000000000	288
23	3.2	1997	2	85920.55	2	BEFORE	Y	1	0.625000000	288
23	3.2	1997	0	100921.61	3	BEFORE	Y	2	0.000000000	288
23	3.2	1997	0	105123.31	4	BEFORE	Y	2	0.000000000	288
23	3.2	1997	0	109100.50	5	BEFORE	Y	2	0.000000000	288
23	3.2	1997	0	107271.56	6	BEFORE	Y	3	0.000000000	288
23	3.2	1997	0	108927.65	7	BEFORE	Y	3	0.000000000	288
23	3.2	1997	1	107935.99	8	BEFORE	Y	3	0.312500000	288
23	3.2	1997	0	104172.45	9	BEFORE	Y	4	0.000000000	288
23	3.2	1997	1	105415.91	10	BEFORE	Y	4	0.312500000	288
23	3.2	1997	1	98986.71	11	BEFORE	Y	4	0.312500000	288
23	3.2	1997	0	102531.91	12	BEFORE	Y	1	0.000000000	288

23	3.2	1998	0	98090.87	1	BEFORE	Y	1	0.000000000	288
23	3.2	1998	1	91576.00	2	BEFORE	Y	1	0.312500000	288
23	3.2	1998	0	107564.46	3	BEFORE	Y	2	0.000000000	288
23	3.2	1998	0	112042.73	4	BEFORE	Y	2	0.000000000	288
23	3.2	1998	1	116281.71	5	BEFORE	Y	2	0.312500000	288
23	3.2	1998	0	114332.38	6	BEFORE	Y	3	0.000000000	288
23	3.2	1998	0	116097.47	7	BEFORE	Y	3	0.000000000	288
23	3.2	1998	0	115040.54	8	BEFORE	Y	3	0.000000000	288
23	3.2	1998	0	111029.27	9	BEFORE	Y	4	0.000000000	288
23	3.2	1998	0	112354.58	10	BEFORE	Y	4	0.000000000	288
23	3.2	1998	0	105502.21	11	BEFORE	Y	4	0.000000000	288
23	3.2	1998	0	109280.76	12	BEFORE	Y	1	0.000000000	288
23	3.2	1999	1	91079.78	1	BEFORE	Y	1	0.312500000	288
23	3.2	1999	0	85030.57	2	BEFORE	Y	1	0.000000000	288
23	3.2	1999	2	99876.24	3	BEFORE	Y	2	0.625000000	288
23	3.2	1999	0	104034.42	4	BEFORE	Y	2	0.000000000	288
23	3.2	1999	1	107970.42	5	BEFORE	Y	2	0.312500000	288
23	3.2	1999	0	106160.42	6	BEFORE	Y	3	0.000000000	288
23	3.2	1999	0	107799.35	7	BEFORE	Y	3	0.000000000	288
23	3.2	1999	0	106817.96	8	BEFORE	Y	3	0.000000000	288
23	3.2	1999	0	103093.40	9	BEFORE	Y	4	0.000000000	288
23	3.2	1999	0	104323.99	10	BEFORE	Y	4	0.000000000	288
23	3.2	1999	1	97961.39	11	BEFORE	Y	4	0.312500000	288
23	3.2	1999	0	101469.86	12	BEFORE	Y	1	0.000000000	288
23	3.2	2000	0	88914.58	1	BEFORE	Y	1	0.000000000	288
23	3.2	2000	0	85973.79	2	BEFORE	Y	1	0.000000000	288
23	3.2	2000	1	97501.93	3	BEFORE	Y	2	0.312500000	288
23	3.2	2000	2	101561.26	4	BEFORE	Y	2	0.625000000	288
23	3.2	2000	0	105403.69	5	BEFORE	Y	2	0.000000000	288
23	3.2	2000	1	103636.71	6	BEFORE	Y	3	0.312500000	288
23	3.2	2000	0	105236.69	7	BEFORE	Y	3	0.000000000	288
23	3.2	2000	0	104278.63	8	BEFORE	Y	3	0.000000000	288
23	3.2	2000	0	100642.61	9	BEFORE	Y	4	0.000000000	288
23	3.2	2000	0	101843.94	10	BEFORE	Y	4	0.000000000	288
23	3.2	2000	1	95632.60	11	BEFORE	Y	4	0.312500000	288
23	3.2	2000	2	99057.67	12	BEFORE	Y	1	0.625000000	288
23	3.2	2001	0	89708.73	1	BEFORE	Y	1	0.000000000	288
23	3.2	2001	1	83750.58	2	BEFORE	Y	1	0.312500000	288
23	3.2	2001	0	98372.77	3	BEFORE	Y	2	0.000000000	288
23	3.2	2001	0	102468.36	4	BEFORE	Y	2	0.000000000	288
23	3.2	2001	0	106345.11	5	BEFORE	Y	2	0.000000000	288
23	3.2	2001	1	104562.35	6	BEFORE	Y	3	0.312500000	288
23	3.2	2001	0	106176.61	7	BEFORE	Y	3	0.000000000	288
23	3.2	2001	1	105210.00	8	BEFORE	Y	3	0.312500000	288
23	3.2	2001	0	101541.51	9	BEFORE	Y	4	0.000000000	288
23	3.2	2001	1	102753.56	10	BEFORE	Y	4	0.312500000	288
23	3.2	2001	2	96486.75	11	BEFORE	Y	4	0.625000000	288
23	3.2	2001	0	99942.41	12	BEFORE	Y	1	0.000000000	288
23	3.2	2002	0	92220.63	1	BEFORE	Y	1	0.000000000	288
23	3.2	2002	0	86095.64	2	BEFORE	Y	1	0.000000000	288
23	3.2	2002	1	101127.27	3	BEFORE	Y	2	0.312500000	288
23	3.2	2002	0	105337.53	4	BEFORE	Y	2	0.000000000	288
23	3.2	2002	0	109322.83	5	BEFORE	Y	2	0.000000000	288
23	3.2	2002	0	107490.16	6	BEFORE	Y	3	0.000000000	288
23	3.2	2002	0	109149.62	7	BEFORE	Y	3	0.000000000	288
23	3.2	2002	0	108155.95	8	BEFORE	Y	3	0.000000000	288
23	3.2	2002	0	104384.73	9	BEFORE	Y	4	0.000000000	288
23	3.2	2002	0	105630.73	10	BEFORE	Y	4	0.000000000	288
23	3.2	2002	0	99188.43	11	BEFORE	Y	4	0.000000000	288
23	3.2	2002	0	102740.85	12	BEFORE	Y	1	0.000000000	288
23	3.2	2003	3	97845.85	1	BEFORE	Y	1	0.937500000	288
23	3.2	2003	0	91347.25	2	BEFORE	Y	1	0.000000000	288
23	3.2	2003	0	107295.77	3	BEFORE	Y	2	0.000000000	288
23	3.2	2003	0	111762.85	4	BEFORE	Y	2	0.000000000	288
23	3.2	2003	1	115991.24	5	BEFORE	Y	2	0.312500000	288
23	3.2	2003	1	114046.78	6	BEFORE	Y	3	0.312500000	288
23	3.2	2003	0	115807.47	7	BEFORE	Y	3	0.000000000	288
23	3.2	2003	1	114753.18	8	BEFORE	Y	3	0.312500000	288

23	3.2	2003	0	110751.93 9	BEFORE Y	4	0.000000000	288
23	3.2	2003	0	112073.93 10	BEFORE Y	4	0.000000000	288
23	3.2	2003	2	105238.67 11	BEFORE Y	4	0.625000000	288
23	3.2	2003	1	109007.78 12	BEFORE Y	1	0.312500000	288
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23	3.2	2004	1	96452.62 2	BEFORE Y	1	0.312500000	288
23	3.2	2004	0	109385.86 3	BEFORE Y	2	0.000000000	288
23	3.2	2004	0	113939.95 4	BEFORE Y	2	0.000000000	288
23	3.2	2004	0	118250.71 5	BEFORE Y	2	0.000000000	288
23	3.2	2004	0	116268.38 6	BEFORE Y	3	0.000000000	288
23	3.2	2004	0	118063.36 7	BEFORE Y	3	0.000000000	288
23	3.2	2004	0	116988.53 8	BEFORE Y	3	0.000000000	288
23	3.2	2004	3	112909.34 9	BEFORE Y	4	0.937500000	288
23	3.2	2004	0	114257.09 10	BEFORE Y	4	0.000000000	288
23	3.2	2004	0	107288.69 11	BEFORE Y	4	0.000000000	288
23	3.2	2004	2	111131.22 12	BEFORE Y	1	0.625000000	288
23	3.2	2005	0	99751.85 1	BEFORE Y	1	0.000000000	288
23	3.2	2005	0	96452.62 2	BEFORE Y	1	0.000000000	288
23	3.2	2005	1	109385.86 3	BEFORE Y	2	0.312500000	288
23	3.2	2005	1	113939.95 4	BEFORE Y	2	0.312500000	288
23	3.2	2005	0	118250.71 5	BEFORE Y	2	0.000000000	288
23	3.2	2005	0	116268.38 6	BEFORE Y	3	0.000000000	288
23	3.2	2005	1	118063.36 7	BEFORE Y	3	0.312500000	288
23	3.2	2005	2	116988.53 8	BEFORE Y	3	0.625000000	288
23	3.2	2005	0	112909.34 9	BEFORE Y	4	0.000000000	288
23	3.2	2005	1	114257.09 10	BEFORE Y	4	0.312500000	288
23	3.2	2005	0	107288.69 11	BEFORE Y	4	0.000000000	288
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24	4.4	1982	1	80395.84 2	BEFORE Y	1	0.227272727	288
24	4.4	1982	0	94432.33 3	BEFORE Y	2	0.000000000	288
24	4.4	1982	0	98363.86 4	BEFORE Y	2	0.000000000	288
24	4.4	1982	0	102085.32 5	BEFORE Y	2	0.000000000	288
24	4.4	1982	0	100373.98 6	BEFORE Y	3	0.000000000	288
24	4.4	1982	0	101923.58 7	BEFORE Y	3	0.000000000	288
24	4.4	1982	1	100995.68 8	BEFORE Y	3	0.227272727	288
24	4.4	1982	1	97474.14 9	BEFORE Y	4	0.227272727	288
24	4.4	1982	1	98637.64 10	BEFORE Y	4	0.227272727	288
24	4.4	1982	0	92621.85 11	BEFORE Y	4	0.000000000	288
24	4.4	1982	2	95939.09 12	BEFORE Y	1	0.454545455	288
24	4.4	1983	2	87541.47 1	BEFORE Y	1	0.454545455	288
24	4.4	1983	2	81727.25 2	BEFORE Y	1	0.454545455	288
24	4.4	1983	0	95996.19 3	BEFORE Y	2	0.000000000	288
24	4.4	1983	0	99992.84 4	BEFORE Y	2	0.000000000	288
24	4.4	1983	2	103775.93 5	BEFORE Y	2	0.454545455	288
24	4.4	1983	1	102036.24 6	BEFORE Y	3	0.227272727	288
24	4.4	1983	0	103611.50 7	BEFORE Y	3	0.000000000	288
24	4.4	1983	1	102668.24 8	BEFORE Y	3	0.227272727	288
24	4.4	1983	0	99088.38 9	BEFORE Y	4	0.000000000	288
24	4.4	1983	1	100271.15 10	BEFORE Y	4	0.227272727	288
24	4.4	1983	0	94155.73 11	BEFORE Y	4	0.000000000	288
24	4.4	1983	4	97527.91 12	BEFORE Y	1	0.909090909	288
24	4.4	1984	0	90957.01 1	BEFORE Y	1	0.000000000	288
24	4.4	1984	1	87948.66 2	BEFORE Y	1	0.227272727	288
24	4.4	1984	0	99741.61 3	BEFORE Y	2	0.000000000	288
24	4.4	1984	2	103894.18 4	BEFORE Y	2	0.454545455	288
24	4.4	1984	2	107824.88 5	BEFORE Y	2	0.454545455	288
24	4.4	1984	4	106017.31 6	BEFORE Y	3	0.909090909	288
24	4.4	1984	1	107654.04 7	BEFORE Y	3	0.227272727	288
24	4.4	1984	0	106673.98 8	BEFORE Y	3	0.000000000	288
24	4.4	1984	2	102954.44 9	BEFORE Y	4	0.454545455	288
24	4.4	1984	0	104183.36 10	BEFORE Y	4	0.000000000	288
24	4.4	1984	3	97829.34 11	BEFORE Y	4	0.681818182	288
24	4.4	1984	3	101333.08 12	BEFORE Y	1	0.681818182	288
24	4.4	1985	1	89281.94 1	BEFORE Y	1	0.227272727	288
24	4.4	1985	0	83352.13 2	BEFORE Y	1	0.000000000	288
24	4.4	1985	1	97904.76 3	BEFORE Y	2	0.227272727	288
24	4.4	1985	0	101980.86 4	BEFORE Y	2	0.000000000	288

24	4.4	1985	0	105839.16 5	BEFORE Y	2	0.000000000	288
24	4.4	1985	1	104064.89 6	BEFORE Y	3	0.227272727	288
24	4.4	1985	2	105671.47 7	BEFORE Y	3	0.454545455	288
24	4.4	1985	1	104709.46 8	BEFORE Y	3	0.227272727	288
24	4.4	1985	2	101058.42 9	BEFORE Y	4	0.454545455	288
24	4.4	1985	0	102264.71 10	BEFORE Y	4	0.000000000	288
24	4.4	1985	0	96027.71 11	BEFORE Y	4	0.000000000	288
24	4.4	1985	2	99466.93 12	BEFORE Y	1	0.454545455	288
24	4.4	1986	0	90957.01 1	BEFORE Y	1	0.000000000	288
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24	4.4	1986	0	106017.31 6	BEFORE Y	3	0.000000000	288
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24	4.4	1986	1	104183.36 10	BEFORE Y	4	0.227272727	288
24	4.4	1986	0	97829.34 11	BEFORE Y	4	0.000000000	288
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24	4.4	1987	0	101411.89 3	BEFORE Y	2	0.000000000	288
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24	4.4	1987	0	109630.52 5	BEFORE Y	2	0.000000000	288
24	4.4	1987	0	107792.69 6	BEFORE Y	3	0.000000000	288
24	4.4	1987	0	109456.83 7	BEFORE Y	3	0.000000000	288
24	4.4	1987	2	108460.35 8	BEFORE Y	3	0.454545455	288
24	4.4	1987	0	104678.52 9	BEFORE Y	4	0.000000000	288
24	4.4	1987	2	105928.02 10	BEFORE Y	4	0.454545455	288
24	4.4	1987	1	99467.60 11	BEFORE Y	4	0.227272727	288
24	4.4	1987	1	103030.02 12	BEFORE Y	1	0.227272727	288
24	4.4	1988	0	96965.32 1	BEFORE Y	1	0.000000000	288
24	4.4	1988	2	93758.25 2	BEFORE Y	1	0.454545455	288
24	4.4	1988	1	106330.20 3	BEFORE Y	2	0.227272727	288
24	4.4	1988	0	110757.09 4	BEFORE Y	2	0.000000000	288
24	4.4	1988	0	114947.43 5	BEFORE Y	2	0.000000000	288
24	4.4	1988	1	113020.46 6	BEFORE Y	3	0.227272727	288
24	4.4	1988	0	114765.31 7	BEFORE Y	3	0.000000000	288
24	4.4	1988	0	113720.50 8	BEFORE Y	3	0.000000000	288
24	4.4	1988	1	109755.26 9	BEFORE Y	4	0.227272727	288
24	4.4	1988	0	111065.36 10	BEFORE Y	4	0.000000000	288
24	4.4	1988	1	104291.62 11	BEFORE Y	4	0.227272727	288
24	4.4	1988	2	108026.81 12	BEFORE Y	1	0.454545455	288
24	4.4	1989	1	99963.15 1	BEFORE Y	1	0.227272727	288
24	4.4	1989	2	93323.93 2	BEFORE Y	1	0.454545455	288
24	4.4	1989	0	109617.56 3	BEFORE Y	2	0.000000000	288
24	4.4	1989	2	114181.31 4	BEFORE Y	2	0.454545455	288
24	4.4	1989	1	118501.20 5	BEFORE Y	2	0.227272727	288
24	4.4	1989	0	116514.66 6	BEFORE Y	3	0.000000000	288
24	4.4	1989	0	118313.45 7	BEFORE Y	3	0.000000000	288
24	4.4	1989	0	117236.34 8	BEFORE Y	3	0.000000000	288
24	4.4	1989	0	113148.51 9	BEFORE Y	4	0.000000000	288
24	4.4	1989	1	114499.12 10	BEFORE Y	4	0.227272727	288
24	4.4	1989	3	107515.95 11	BEFORE Y	4	0.681818182	288
24	4.4	1989	1	111366.62 12	BEFORE Y	1	0.227272727	288
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24	4.4	1990	1	96043.88 2	BEFORE Y	1	0.227272727	288
24	4.4	1990	2	112812.39 3	BEFORE Y	2	0.454545455	288
24	4.4	1990	1	117509.14 4	BEFORE Y	2	0.227272727	288
24	4.4	1990	4	121954.94 5	BEFORE Y	2	0.909090909	288
24	4.4	1990	1	119910.50 6	BEFORE Y	3	0.227272727	288
24	4.4	1990	1	121761.71 7	BEFORE Y	3	0.227272727	288
24	4.4	1990	1	120653.22 8	BEFORE Y	3	0.227272727	288
24	4.4	1990	2	116446.25 9	BEFORE Y	4	0.454545455	288
24	4.4	1990	3	117836.21 10	BEFORE Y	4	0.681818182	288
24	4.4	1990	1	110649.52 11	BEFORE Y	4	0.227272727	288
24	4.4	1990	3	114612.42 12	BEFORE Y	1	0.681818182	288

24	4.4	1991	3	105483.08 1	BEFORE Y	1	0.681818182	288
24	4.4	1991	0	98477.25 2	BEFORE Y	1	0.000000000	288
24	4.4	1991	1	115670.61 3	BEFORE Y	2	0.227272727	288
24	4.4	1991	3	120486.36 4	BEFORE Y	2	0.681818182	288
24	4.4	1991	1	125044.79 5	BEFORE Y	2	0.227272727	288
24	4.4	1991	1	122948.56 6	BEFORE Y	3	0.227272727	288
24	4.4	1991	0	124846.67 7	BEFORE Y	3	0.000000000	288
24	4.4	1991	0	123710.09 8	BEFORE Y	3	0.000000000	288
24	4.4	1991	0	119396.53 9	BEFORE Y	4	0.000000000	288
24	4.4	1991	1	120821.72 10	BEFORE Y	4	0.227272727	288
24	4.4	1991	0	113452.94 11	BEFORE Y	4	0.000000000	288
24	4.4	1991	1	117516.25 12	BEFORE Y	1	0.227272727	288
24	4.4	1992	0	108410.24 1	BEFORE Y	1	0.000000000	288
24	4.4	1992	0	104824.64 2	BEFORE Y	1	0.000000000	288
24	4.4	1992	2	118880.47 3	BEFORE Y	2	0.454545455	288
24	4.4	1992	1	123829.86 4	BEFORE Y	2	0.227272727	288
24	4.4	1992	2	128514.79 5	BEFORE Y	2	0.454545455	288
24	4.4	1992	2	126360.38 6	BEFORE Y	3	0.454545455	288
24	4.4	1992	1	128311.17 7	BEFORE Y	3	0.227272727	288
24	4.4	1992	1	127143.05 8	BEFORE Y	3	0.227272727	288
24	4.4	1992	3	122709.79 9	BEFORE Y	4	0.681818182	288
24	4.4	1992	3	124174.52 10	BEFORE Y	4	0.681818182	288
24	4.4	1992	4	116601.26 11	BEFORE Y	4	0.909090909	288
24	4.4	1992	1	120777.32 12	BEFORE Y	1	0.227272727	288
24	4.4	1993	1	112784.62 1	BEFORE Y	1	0.227272727	288
24	4.4	1993	0	105293.84 2	BEFORE Y	1	0.000000000	288
24	4.4	1993	5	123677.33 3	BEFORE Y	2	1.136363636	288
24	4.4	1993	2	128826.43 4	BEFORE Y	2	0.454545455	288
24	4.4	1993	1	133700.40 5	BEFORE Y	2	0.227272727	288
24	4.4	1993	3	131459.06 6	BEFORE Y	3	0.681818182	288
24	4.4	1993	2	133488.56 7	BEFORE Y	3	0.454545455	288
24	4.4	1993	1	132273.31 8	BEFORE Y	3	0.227272727	288
24	4.4	1993	2	127661.16 9	BEFORE Y	4	0.454545455	288
24	4.4	1993	2	129185.00 10	BEFORE Y	4	0.454545455	288
24	4.4	1993	0	121306.16 11	BEFORE Y	4	0.000000000	288
24	4.4	1993	1	125650.72 12	BEFORE Y	1	0.227272727	288
24	4.4	1994	3	115640.05 1	BEFORE Y	1	0.681818182	288
24	4.4	1994	0	107959.62 2	BEFORE Y	1	0.000000000	288
24	4.4	1994	0	126808.53 3	BEFORE Y	2	0.000000000	288
24	4.4	1994	3	132087.99 4	BEFORE Y	2	0.681818182	288
24	4.4	1994	3	137085.36 5	BEFORE Y	2	0.681818182	288
24	4.4	1994	0	134787.28 6	BEFORE Y	3	0.000000000	288
24	4.4	1994	0	136868.16 7	BEFORE Y	3	0.000000000	288
24	4.4	1994	2	135622.14 8	BEFORE Y	3	0.454545455	288
24	4.4	1994	0	130893.23 9	BEFORE Y	4	0.000000000	288
24	4.4	1994	0	132455.64 10	BEFORE Y	4	0.000000000	288
24	4.4	1994	1	124377.33 11	BEFORE Y	4	0.227272727	288
24	4.4	1994	3	128831.89 12	BEFORE Y	1	0.681818182	288
24	4.4	1995	2	118393.16 1	BEFORE Y	1	0.454545455	288
24	4.4	1995	1	110529.88 2	BEFORE Y	1	0.227272727	288
24	4.4	1995	0	129827.53 3	BEFORE Y	2	0.000000000	288
24	4.4	1995	2	135232.69 4	BEFORE Y	2	0.454545455	288
24	4.4	1995	0	140349.03 5	BEFORE Y	2	0.000000000	288
24	4.4	1995	2	137996.23 6	BEFORE Y	3	0.454545455	288
24	4.4	1995	1	140126.66 7	BEFORE Y	3	0.227272727	288
24	4.4	1995	1	138850.97 8	BEFORE Y	3	0.227272727	288
24	4.4	1995	0	134009.48 9	BEFORE Y	4	0.000000000	288
24	4.4	1995	1	135609.09 10	BEFORE Y	4	0.227272727	288
24	4.4	1995	4	127338.45 11	BEFORE Y	4	0.909090909	288
24	4.4	1995	0	131899.06 12	BEFORE Y	1	0.000000000	288
24	4.4	1996	1	122514.38 1	BEFORE Y	1	0.227272727	288
24	4.4	1996	2	118462.29 2	BEFORE Y	1	0.454545455	288
24	4.4	1996	0	134346.78 3	BEFORE Y	2	0.000000000	288
24	4.4	1996	2	139940.09 4	BEFORE Y	2	0.454545455	288
24	4.4	1996	3	145234.53 5	BEFORE Y	2	0.681818182	288
24	4.4	1996	3	142799.84 6	BEFORE Y	3	0.681818182	288
24	4.4	1996	1	145004.42 7	BEFORE Y	3	0.227272727	288
24	4.4	1996	1	143684.33 8	BEFORE Y	3	0.227272727	288

24	4.4	1996	2	138674.30 9	BEFORE Y	4	0.454545455	288
24	4.4	1996	1	140329.59 10	BEFORE Y	4	0.227272727	288
24	4.4	1996	0	131771.06 11	BEFORE Y	4	0.000000000	288
24	4.4	1996	2	136490.42 12	BEFORE Y	1	0.454545455	288
24	4.4	1997	3	124470.04 1	BEFORE Y	1	0.681818182	288
24	4.4	1997	2	116203.15 2	BEFORE Y	1	0.454545455	288
24	4.4	1997	2	136491.31 3	BEFORE Y	2	0.454545455	288
24	4.4	1997	1	142173.90 4	BEFORE Y	2	0.227272727	288
24	4.4	1997	3	147552.86 5	BEFORE Y	2	0.681818182	288
24	4.4	1997	1	145079.30 6	BEFORE Y	3	0.227272727	288
24	4.4	1997	1	147319.08 7	BEFORE Y	3	0.227272727	288
24	4.4	1997	1	145977.91 8	BEFORE Y	3	0.227272727	288
24	4.4	1997	0	140887.91 9	BEFORE Y	4	0.000000000	288
24	4.4	1997	0	142569.63 10	BEFORE Y	4	0.000000000	288
24	4.4	1997	2	133874.47 11	BEFORE Y	4	0.454545455	288
24	4.4	1997	2	138669.17 12	BEFORE Y	1	0.454545455	288
24	4.4	1998	0	163957.63 1	BEFORE Y	1	0.000000000	288
24	4.4	1998	1	153068.11 2	BEFORE Y	1	0.227272727	288
24	4.4	1998	0	179792.61 3	BEFORE Y	2	0.000000000	288
24	4.4	1998	1	187277.97 4	BEFORE Y	2	0.227272727	288
24	4.4	1998	2	194363.38 5	BEFORE Y	2	0.454545455	288
24	4.4	1998	0	191105.09 6	BEFORE Y	3	0.000000000	288
24	4.4	1998	1	194055.43 7	BEFORE Y	3	0.227272727	288
24	4.4	1998	5	192288.78 8	BEFORE Y	3	1.136363636	288
24	4.4	1998	1	185584.00 9	BEFORE Y	4	0.227272727	288
24	4.4	1998	0	187799.24 10	BEFORE Y	4	0.000000000	288
24	4.4	1998	2	176345.58 11	BEFORE Y	4	0.454545455	288
24	4.4	1998	0	182661.38 12	BEFORE Y	1	0.000000000	288
24	4.4	1999	2	165619.08 1	BEFORE Y	1	0.454545455	288
24	4.4	1999	2	154619.22 2	BEFORE Y	1	0.454545455	288
24	4.4	1999	1	181614.52 3	BEFORE Y	2	0.227272727	288
24	4.4	1999	1	189175.74 4	BEFORE Y	2	0.227272727	288
24	4.4	1999	1	196332.94 5	BEFORE Y	2	0.227272727	288
24	4.4	1999	1	193041.64 6	BEFORE Y	3	0.227272727	288
24	4.4	1999	0	196021.87 7	BEFORE Y	3	0.000000000	288
24	4.4	1999	1	194237.33 8	BEFORE Y	3	0.227272727	288
24	4.4	1999	1	187464.60 9	BEFORE Y	4	0.227272727	288
24	4.4	1999	1	189702.29 10	BEFORE Y	4	0.227272727	288
24	4.4	1999	0	178132.57 11	BEFORE Y	4	0.000000000	288
24	4.4	1999	1	184512.36 12	BEFORE Y	1	0.227272727	288
24	4.4	2000	0	161181.45 1	BEFORE Y	1	0.000000000	288
24	4.4	2000	0	155850.47 2	BEFORE Y	1	0.000000000	288
24	4.4	2000	0	176748.30 3	BEFORE Y	2	0.000000000	288
24	4.4	2000	2	184106.93 4	BEFORE Y	2	0.454545455	288
24	4.4	2000	2	191072.36 5	BEFORE Y	2	0.454545455	288
24	4.4	2000	3	187869.25 6	BEFORE Y	3	0.681818182	288
24	4.4	2000	3	190769.62 7	BEFORE Y	3	0.681818182	288
24	4.4	2000	1	189032.89 8	BEFORE Y	3	0.227272727	288
24	4.4	2000	1	182441.64 9	BEFORE Y	4	0.227272727	288
24	4.4	2000	1	184619.36 10	BEFORE Y	4	0.227272727	288
24	4.4	2000	3	173359.65 11	BEFORE Y	4	0.681818182	288
24	4.4	2000	6	179568.50 12	BEFORE Y	1	1.363636364	288
24	4.4	2001	4	161642.95 1	BEFORE Y	1	0.909090909	288
24	4.4	2001	1	150907.16 2	BEFORE Y	1	0.227272727	288
24	4.4	2001	2	177254.37 3	BEFORE Y	2	0.454545455	288
24	4.4	2001	4	184634.06 4	BEFORE Y	2	0.909090909	288
24	4.4	2001	4	191619.44 5	BEFORE Y	2	0.909090909	288
24	4.4	2001	1	188407.15 6	BEFORE Y	3	0.227272727	288
24	4.4	2001	1	191315.84 7	BEFORE Y	3	0.227272727	288
24	4.4	2001	1	189574.13 8	BEFORE Y	3	0.227272727	288
24	4.4	2001	4	182964.01 9	BEFORE Y	4	0.909090909	288
24	4.4	2001	6	185147.97 10	BEFORE Y	4	1.363636364	288
24	4.4	2001	4	173856.01 11	BEFORE Y	4	0.909090909	288
24	4.4	2001	2	180082.64 12	BEFORE Y	1	0.454545455	288
24	4.4	2002	3	218417.13 1	BEFORE Y	1	0.681818182	288
24	4.4	2002	3	203910.60 2	BEFORE Y	1	0.681818182	288
24	4.4	2002	0	239511.79 3	BEFORE Y	2	0.000000000	288
24	4.4	2002	4	249483.47 4	BEFORE Y	2	0.909090909	288

24	4.4	2002	4	258922.33	5	BEFORE	Y	2	0.909090909	288
24	4.4	2002	0	254581.79	6	BEFORE	Y	3	0.000000000	288
24	4.4	2002	1	258512.09	7	BEFORE	Y	3	0.227272727	288
24	4.4	2002	4	256158.65	8	BEFORE	Y	3	0.909090909	288
24	4.4	2002	0	247226.83	9	BEFORE	Y	4	0.000000000	288
24	4.4	2002	5	250177.87	10	BEFORE	Y	4	1.136363636	288
24	4.4	2002	5	234919.82	11	BEFORE	Y	4	1.136363636	288
24	4.4	2002	1	243333.44	12	BEFORE	Y	1	0.227272727	288
24	4.39	2003	0	219001.72	1	BEFORE	Y	1	0.000000000	288
24	4.39	2003	1	204456.35	2	BEFORE	Y	1	0.227790433	288
24	4.39	2003	1	240152.83	3	BEFORE	Y	2	0.227790433	288
24	4.39	2003	2	250151.20	4	BEFORE	Y	2	0.455580866	288
24	4.39	2003	1	259615.32	5	BEFORE	Y	2	0.227790433	288
24	4.39	2003	1	255263.16	6	BEFORE	Y	3	0.227790433	288
24	4.39	2003	1	259203.99	7	BEFORE	Y	3	0.227790433	288
24	4.39	2003	1	256844.24	8	BEFORE	Y	3	0.227790433	288
24	4.39	2003	1	247888.52	9	BEFORE	Y	4	0.227790433	288
24	4.39	2003	2	250847.46	10	BEFORE	Y	4	0.455580866	288
24	4.39	2003	1	235548.57	11	BEFORE	Y	4	0.227790433	288
24	4.39	2003	2	243984.71	12	BEFORE	Y	1	0.455580866	288
24	4.39	2004	4	147950.79	1	BEFORE	Y	1	0.911161731	288
24	4.39	2004	2	143057.40	2	BEFORE	Y	1	0.455580866	288
24	4.39	2004	1	162239.83	3	BEFORE	Y	2	0.227790433	288
24	4.39	2004	2	168994.41	4	BEFORE	Y	2	0.455580866	288
24	4.39	2004	2	175388.08	5	BEFORE	Y	2	0.455580866	288
24	4.39	2004	2	172447.90	6	BEFORE	Y	3	0.455580866	288
24	4.39	2004	1	175110.20	7	BEFORE	Y	3	0.227790433	288
24	4.39	2004	2	173516.03	8	BEFORE	Y	3	0.455580866	288
24	4.39	2004	2	167465.82	9	BEFORE	Y	4	0.455580866	288
24	4.39	2004	0	169464.79	10	BEFORE	Y	4	0.000000000	288
24	4.39	2004	0	159129.33	11	BEFORE	Y	4	0.000000000	288
24	4.39	2004	1	164828.53	12	BEFORE	Y	1	0.227790433	288
24	4.39	2005	4	147950.79	1	BEFORE	Y	1	0.911161731	288
24	4.39	2005	2	143057.40	2	BEFORE	Y	1	0.455580866	288
24	4.39	2005	1	162239.83	3	BEFORE	Y	2	0.227790433	288
24	4.39	2005	2	168994.41	4	BEFORE	Y	2	0.455580866	288
24	4.39	2005	2	175388.08	5	BEFORE	Y	2	0.455580866	288
24	4.39	2005	2	172447.90	6	BEFORE	Y	3	0.455580866	288
24	4.39	2005	1	175110.20	7	BEFORE	Y	3	0.227790433	288
24	4.39	2005	2	173516.03	8	BEFORE	Y	3	0.455580866	288
24	4.39	2005	2	167465.82	9	BEFORE	Y	4	0.455580866	288
24	4.39	2005	0	169464.79	10	BEFORE	Y	4	0.000000000	288
24	4.39	2005	0	159129.33	11	BEFORE	Y	4	0.000000000	288
24	4.39	2005	1	164828.53	12	BEFORE	Y	1	0.227790433	288
25	4.27	1982	0	79657.46	1	BEFORE	Y	1	0.000000000	288
25	4.27	1982	1	74366.88	2	BEFORE	Y	1	0.234192037	288
25	4.27	1982	0	87350.75	3	BEFORE	Y	2	0.000000000	288
25	4.27	1982	0	90987.45	4	BEFORE	Y	2	0.000000000	288
25	4.27	1982	1	94429.84	5	BEFORE	Y	2	0.234192037	288
25	4.27	1982	0	92846.83	6	BEFORE	Y	3	0.000000000	288
25	4.27	1982	2	94280.23	7	BEFORE	Y	3	0.468384075	288
25	4.27	1982	0	93421.92	8	BEFORE	Y	3	0.000000000	288
25	4.27	1982	0	90164.45	9	BEFORE	Y	4	0.000000000	288
25	4.27	1982	1	91240.71	10	BEFORE	Y	4	0.234192037	288
25	4.27	1982	0	85676.04	11	BEFORE	Y	4	0.000000000	288
25	4.27	1982	0	88744.52	12	BEFORE	Y	1	0.000000000	288
25	4.27	1983	0	80976.64	1	BEFORE	Y	1	0.000000000	288
25	4.27	1983	0	75598.45	2	BEFORE	Y	1	0.000000000	288
25	4.27	1983	1	88797.34	3	BEFORE	Y	2	0.234192037	288
25	4.27	1983	0	92494.27	4	BEFORE	Y	2	0.000000000	288
25	4.27	1983	1	95993.66	5	BEFORE	Y	2	0.234192037	288
25	4.27	1983	1	94384.44	6	BEFORE	Y	3	0.234192037	288
25	4.27	1983	0	95841.57	7	BEFORE	Y	3	0.000000000	288
25	4.27	1983	0	94969.05	8	BEFORE	Y	3	0.000000000	288
25	4.27	1983	0	91657.64	9	BEFORE	Y	4	0.000000000	288
25	4.27	1983	0	92751.72	10	BEFORE	Y	4	0.000000000	288
25	4.27	1983	0	87094.90	11	BEFORE	Y	4	0.000000000	288
25	4.27	1983	0	90214.19	12	BEFORE	Y	1	0.000000000	288

25	4.27	1984	3	84136.05	1	BEFORE Y	1	0.702576112	288
25	4.27	1984	1	81353.30	2	BEFORE Y	1	0.234192037	288
25	4.27	1984	0	92261.88	3	BEFORE Y	2	0.000000000	288
25	4.27	1984	1	96103.05	4	BEFORE Y	2	0.234192037	288
25	4.27	1984	2	99738.98	5	BEFORE Y	2	0.468384075	288
25	4.27	1984	2	98066.97	6	BEFORE Y	3	0.468384075	288
25	4.27	1984	0	99580.95	7	BEFORE Y	3	0.000000000	288
25	4.27	1984	0	98674.39	8	BEFORE Y	3	0.000000000	288
25	4.27	1984	0	95233.78	9	BEFORE Y	4	0.000000000	288
25	4.27	1984	0	96370.54	10	BEFORE Y	4	0.000000000	288
25	4.27	1984	0	90493.02	11	BEFORE Y	4	0.000000000	288
25	4.27	1984	1	93734.01	12	BEFORE Y	1	0.234192037	288
25	4.27	1985	0	82586.59	1	BEFORE Y	1	0.000000000	288
25	4.27	1985	0	77101.47	2	BEFORE Y	1	0.000000000	288
25	4.27	1985	0	90562.78	3	BEFORE Y	2	0.000000000	288
25	4.27	1985	0	94333.21	4	BEFORE Y	2	0.000000000	288
25	4.27	1985	1	97902.18	5	BEFORE Y	2	0.234192037	288
25	4.27	1985	0	96260.96	6	BEFORE Y	3	0.000000000	288
25	4.27	1985	0	97747.06	7	BEFORE Y	3	0.000000000	288
25	4.27	1985	1	96857.19	8	BEFORE Y	3	0.234192037	288
25	4.27	1985	0	93479.95	9	BEFORE Y	4	0.000000000	288
25	4.27	1985	0	94595.78	10	BEFORE Y	4	0.000000000	288
25	4.27	1985	1	88826.49	11	BEFORE Y	4	0.234192037	288
25	4.27	1985	0	92007.80	12	BEFORE Y	1	0.000000000	288
25	4.27	1986	0	84136.05	1	BEFORE Y	1	0.000000000	288
25	4.27	1986	0	78548.02	2	BEFORE Y	1	0.000000000	288
25	4.27	1986	1	92261.88	3	BEFORE Y	2	0.234192037	288
25	4.27	1986	1	96103.05	4	BEFORE Y	2	0.234192037	288
25	4.27	1986	0	99738.98	5	BEFORE Y	2	0.000000000	288
25	4.27	1986	1	98066.97	6	BEFORE Y	3	0.234192037	288
25	4.27	1986	1	99580.95	7	BEFORE Y	3	0.234192037	288
25	4.27	1986	1	98674.39	8	BEFORE Y	3	0.234192037	288
25	4.27	1986	0	95233.78	9	BEFORE Y	4	0.000000000	288
25	4.27	1986	0	96370.54	10	BEFORE Y	4	0.000000000	288
25	4.27	1986	0	90493.02	11	BEFORE Y	4	0.000000000	288
25	4.27	1986	0	93734.01	12	BEFORE Y	1	0.000000000	288
25	4.27	1987	0	85545.00	1	BEFORE Y	1	0.000000000	288
25	4.27	1987	0	79863.39	2	BEFORE Y	1	0.000000000	288
25	4.27	1987	2	93806.91	3	BEFORE Y	2	0.468384075	288
25	4.27	1987	0	97712.41	4	BEFORE Y	2	0.000000000	288
25	4.27	1987	1	101409.22	5	BEFORE Y	2	0.234192037	288
25	4.27	1987	0	99709.21	6	BEFORE Y	3	0.000000000	288
25	4.27	1987	0	101248.55	7	BEFORE Y	3	0.000000000	288
25	4.27	1987	1	100326.80	8	BEFORE Y	3	0.234192037	288
25	4.27	1987	0	96828.58	9	BEFORE Y	4	0.000000000	288
25	4.27	1987	0	97984.38	10	BEFORE Y	4	0.000000000	288
25	4.27	1987	0	92008.42	11	BEFORE Y	4	0.000000000	288
25	4.27	1987	0	95303.69	12	BEFORE Y	1	0.000000000	288
25	4.27	1988	0	89693.80	1	BEFORE Y	1	0.000000000	288
25	4.27	1988	0	86727.23	2	BEFORE Y	1	0.000000000	288
25	4.27	1988	0	98356.40	3	BEFORE Y	2	0.000000000	288
25	4.27	1988	0	102451.30	4	BEFORE Y	2	0.000000000	288
25	4.27	1988	1	106327.40	5	BEFORE Y	2	0.234192037	288
25	4.27	1988	0	104544.95	6	BEFORE Y	3	0.000000000	288
25	4.27	1988	0	106158.94	7	BEFORE Y	3	0.000000000	288
25	4.27	1988	1	105192.49	8	BEFORE Y	3	0.234192037	288
25	4.27	1988	0	101524.61	9	BEFORE Y	4	0.000000000	288
25	4.27	1988	2	102736.46	10	BEFORE Y	4	0.468384075	288
25	4.27	1988	2	96470.69	11	BEFORE Y	4	0.468384075	288
25	4.27	1988	2	99925.77	12	BEFORE Y	1	0.468384075	288
25	4.27	1989	0	92466.82	1	BEFORE Y	1	0.000000000	288
25	4.27	1989	0	86325.48	2	BEFORE Y	1	0.000000000	288
25	4.27	1989	0	101397.23	3	BEFORE Y	2	0.000000000	288
25	4.27	1989	0	105618.74	4	BEFORE Y	2	0.000000000	288
25	4.27	1989	0	109614.68	5	BEFORE Y	2	0.000000000	288
25	4.27	1989	1	107777.11	6	BEFORE Y	3	0.234192037	288
25	4.27	1989	0	109441.00	7	BEFORE Y	3	0.000000000	288
25	4.27	1989	1	108444.67	8	BEFORE Y	3	0.234192037	288

25	4.27	1989	1	104663.39 9	BEFORE Y	4	0.234192037	288
25	4.27	1989	0	105912.71 10	BEFORE Y	4	0.000000000	288
25	4.27	1989	1	99453.22 11	BEFORE Y	4	0.234192037	288
25	4.27	1989	0	103015.13 12	BEFORE Y	1	0.000000000	288
25	4.27	1990	0	95161.78 1	BEFORE Y	1	0.000000000	288
25	4.27	1990	0	88841.45 2	BEFORE Y	1	0.000000000	288
25	4.27	1990	1	104352.47 3	BEFORE Y	2	0.234192037	288
25	4.27	1990	0	108697.01 4	BEFORE Y	2	0.000000000	288
25	4.27	1990	0	112809.41 5	BEFORE Y	2	0.000000000	288
25	4.27	1990	0	110918.29 6	BEFORE Y	3	0.000000000	288
25	4.27	1990	1	112630.68 7	BEFORE Y	3	0.234192037	288
25	4.27	1990	0	111605.31 8	BEFORE Y	3	0.000000000	288
25	4.27	1990	1	107713.82 9	BEFORE Y	4	0.234192037	288
25	4.27	1990	0	108999.56 10	BEFORE Y	4	0.000000000	288
25	4.27	1990	0	102351.80 11	BEFORE Y	4	0.000000000	288
25	4.27	1990	2	106017.52 12	BEFORE Y	1	0.468384075	288
25	4.27	1991	2	97572.80 1	BEFORE Y	1	0.468384075	288
25	4.27	1991	0	91092.34 2	BEFORE Y	1	0.000000000	288
25	4.27	1991	0	106996.35 3	BEFORE Y	2	0.000000000	288
25	4.27	1991	1	111450.97 4	BEFORE Y	2	0.234192037	288
25	4.27	1991	0	115667.56 5	BEFORE Y	2	0.000000000	288
25	4.27	1991	1	113728.52 6	BEFORE Y	3	0.234192037	288
25	4.27	1991	2	115484.30 7	BEFORE Y	3	0.468384075	288
25	4.27	1991	0	114432.95 8	BEFORE Y	3	0.000000000	288
25	4.27	1991	0	110442.87 9	BEFORE Y	4	0.000000000	288
25	4.27	1991	1	111761.18 10	BEFORE Y	4	0.234192037	288
25	4.27	1991	0	104944.99 11	BEFORE Y	4	0.000000000	288
25	4.27	1991	0	108703.59 12	BEFORE Y	1	0.000000000	288
25	4.27	1992	0	100280.45 1	BEFORE Y	1	0.000000000	288
25	4.27	1992	0	96963.73 2	BEFORE Y	1	0.000000000	288
25	4.27	1992	0	109965.50 3	BEFORE Y	2	0.000000000	288
25	4.27	1992	0	114543.73 4	BEFORE Y	2	0.000000000	288
25	4.27	1992	1	118877.33 5	BEFORE Y	2	0.234192037	288
25	4.27	1992	1	116884.49 6	BEFORE Y	3	0.234192037	288
25	4.27	1992	0	118688.99 7	BEFORE Y	3	0.000000000	288
25	4.27	1992	0	117608.46 8	BEFORE Y	3	0.000000000	288
25	4.27	1992	0	113507.66 9	BEFORE Y	4	0.000000000	288
25	4.27	1992	1	114862.55 10	BEFORE Y	4	0.234192037	288
25	4.27	1992	1	107857.22 11	BEFORE Y	4	0.234192037	288
25	4.27	1992	0	111720.11 12	BEFORE Y	1	0.000000000	288
25	4.27	1993	1	104326.79 1	BEFORE Y	1	0.234192037	288
25	4.27	1993	1	97397.75 2	BEFORE Y	1	0.234192037	288
25	4.27	1993	0	114402.64 3	BEFORE Y	2	0.000000000	288
25	4.27	1993	1	119165.60 4	BEFORE Y	2	0.234192037	288
25	4.27	1993	0	123674.07 5	BEFORE Y	2	0.000000000	288
25	4.27	1993	2	121600.81 6	BEFORE Y	3	0.468384075	288
25	4.27	1993	0	123478.12 7	BEFORE Y	3	0.000000000	288
25	4.27	1993	0	122354.00 8	BEFORE Y	3	0.000000000	288
25	4.27	1993	0	118087.72 9	BEFORE Y	4	0.000000000	288
25	4.27	1993	2	119497.28 10	BEFORE Y	4	0.468384075	288
25	4.27	1993	1	112209.29 11	BEFORE Y	4	0.234192037	288
25	4.27	1993	1	116228.05 12	BEFORE Y	1	0.234192037	288
25	4.27	1994	0	106968.09 1	BEFORE Y	1	0.000000000	288
25	4.27	1994	1	99863.62 2	BEFORE Y	1	0.234192037	288
25	4.27	1994	0	117299.03 3	BEFORE Y	2	0.000000000	288
25	4.27	1994	2	122182.58 4	BEFORE Y	2	0.468384075	288
25	4.27	1994	2	126805.19 5	BEFORE Y	2	0.468384075	288
25	4.27	1994	0	124679.44 6	BEFORE Y	3	0.000000000	288
25	4.27	1994	0	126604.28 7	BEFORE Y	3	0.000000000	288
25	4.27	1994	2	125451.70 8	BEFORE Y	3	0.468384075	288
25	4.27	1994	1	121077.41 9	BEFORE Y	4	0.234192037	288
25	4.27	1994	1	122522.66 10	BEFORE Y	4	0.234192037	288
25	4.27	1994	1	115050.15 11	BEFORE Y	4	0.234192037	288
25	4.27	1994	1	119170.65 12	BEFORE Y	1	0.234192037	288
25	4.27	1995	0	109514.74 1	BEFORE Y	1	0.000000000	288
25	4.27	1995	0	102241.13 2	BEFORE Y	1	0.000000000	288
25	4.27	1995	0	120091.63 3	BEFORE Y	2	0.000000000	288
25	4.27	1995	1	125091.45 4	BEFORE Y	2	0.234192037	288

25	4.27	1995	0	129824.11 5	BEFORE Y	2	0.000000000	288
25	4.27	1995	0	127647.76 6	BEFORE Y	3	0.000000000	288
25	4.27	1995	1	129618.42 7	BEFORE Y	3	0.234192037	288
25	4.27	1995	0	128438.40 8	BEFORE Y	3	0.000000000	288
25	4.27	1995	1	123959.97 9	BEFORE Y	4	0.234192037	288
25	4.27	1995	0	125439.63 10	BEFORE Y	4	0.000000000	288
25	4.27	1995	1	117789.21 11	BEFORE Y	4	0.234192037	288
25	4.27	1995	0	122007.82 12	BEFORE Y	1	0.000000000	288
25	4.27	1996	0	113326.91 1	BEFORE Y	1	0.000000000	288
25	4.27	1996	0	109578.69 2	BEFORE Y	1	0.000000000	288
25	4.27	1996	0	124271.98 3	BEFORE Y	2	0.000000000	288
25	4.27	1996	0	129445.84 4	BEFORE Y	2	0.000000000	288
25	4.27	1996	0	134343.24 5	BEFORE Y	2	0.000000000	288
25	4.27	1996	1	132091.13 6	BEFORE Y	3	0.234192037	288
25	4.27	1996	0	134130.39 7	BEFORE Y	3	0.000000000	288
25	4.27	1996	0	132909.29 8	BEFORE Y	3	0.000000000	288
25	4.27	1996	2	128274.97 9	BEFORE Y	4	0.468384075	288
25	4.27	1996	0	129806.13 10	BEFORE Y	4	0.000000000	288
25	4.27	1996	2	121889.41 11	BEFORE Y	4	0.468384075	288
25	4.27	1996	2	126254.87 12	BEFORE Y	1	0.468384075	288
25	4.27	1997	0	115135.91 1	BEFORE Y	1	0.000000000	288
25	4.27	1997	1	107488.96 2	BEFORE Y	1	0.234192037	288
25	4.27	1997	0	126255.69 3	BEFORE Y	2	0.000000000	288
25	4.27	1997	0	131512.14 4	BEFORE Y	2	0.000000000	288
25	4.27	1997	1	136487.72 5	BEFORE Y	2	0.234192037	288
25	4.27	1997	0	134199.66 6	BEFORE Y	3	0.000000000	288
25	4.27	1997	0	136271.47 7	BEFORE Y	3	0.000000000	288
25	4.27	1997	0	135030.88 8	BEFORE Y	3	0.000000000	288
25	4.27	1997	0	130322.58 9	BEFORE Y	4	0.000000000	288
25	4.27	1997	1	131878.19 10	BEFORE Y	4	0.234192037	288
25	4.27	1997	2	123835.09 11	BEFORE Y	4	0.468384075	288
25	4.27	1997	0	128270.23 12	BEFORE Y	1	0.000000000	288
25	4.27	1998	1	123941.78 1	BEFORE Y	1	0.234192037	288
25	4.27	1998	1	115709.98 2	BEFORE Y	1	0.234192037	288
25	4.27	1998	0	135912.03 3	BEFORE Y	2	0.000000000	288
25	4.27	1998	0	141570.51 4	BEFORE Y	2	0.000000000	288
25	4.27	1998	2	146926.63 5	BEFORE Y	2	0.468384075	288
25	4.27	1998	1	144463.57 6	BEFORE Y	3	0.234192037	288
25	4.27	1998	0	146693.84 7	BEFORE Y	3	0.000000000	288
25	4.27	1998	1	145358.37 8	BEFORE Y	3	0.234192037	288
25	4.27	1998	0	140289.97 9	BEFORE Y	4	0.000000000	288
25	4.27	1998	2	141964.55 10	BEFORE Y	4	0.468384075	288
25	4.27	1998	3	133306.30 11	BEFORE Y	4	0.702576112	288
25	4.27	1998	1	138080.65 12	BEFORE Y	1	0.234192037	288
25	4.27	1999	0	116143.91 1	BEFORE Y	1	0.000000000	288
25	4.27	1999	0	108430.02 2	BEFORE Y	1	0.000000000	288
25	4.27	1999	0	127361.05 3	BEFORE Y	2	0.000000000	288
25	4.27	1999	0	132663.52 4	BEFORE Y	2	0.000000000	288
25	4.27	1999	0	137682.66 5	BEFORE Y	2	0.000000000	288
25	4.27	1999	0	135374.57 6	BEFORE Y	3	0.000000000	288
25	4.27	1999	0	137464.52 7	BEFORE Y	3	0.000000000	288
25	4.27	1999	1	136213.06 8	BEFORE Y	3	0.234192037	288
25	4.27	1999	1	131463.55 9	BEFORE Y	4	0.234192037	288
25	4.27	1999	1	133032.77 10	BEFORE Y	4	0.234192037	288
25	4.27	1999	2	124919.26 11	BEFORE Y	4	0.468384075	288
25	4.27	1999	0	129393.23 12	BEFORE Y	1	0.000000000	288
25	4.27	2000	1	114234.26 1	BEFORE Y	1	0.234192037	288
25	4.27	2000	0	110456.03 2	BEFORE Y	1	0.000000000	288
25	4.27	2000	0	125266.96 3	BEFORE Y	2	0.000000000	288
25	4.27	2000	1	130482.25 4	BEFORE Y	2	0.234192037	288
25	4.27	2000	0	135418.86 5	BEFORE Y	2	0.000000000	288
25	4.27	2000	0	133148.72 6	BEFORE Y	3	0.000000000	288
25	4.27	2000	0	135204.30 7	BEFORE Y	3	0.000000000	288
25	4.27	2000	1	133973.43 8	BEFORE Y	3	0.234192037	288
25	4.27	2000	1	129302.00 9	BEFORE Y	4	0.234192037	288
25	4.27	2000	2	130845.43 10	BEFORE Y	4	0.468384075	288
25	4.27	2000	1	122865.32 11	BEFORE Y	4	0.234192037	288
25	4.27	2000	1	127265.72 12	BEFORE Y	1	0.234192037	288

25	4.27	2001	0	115910.39 1	BEFORE Y	1	0.000000000	288
25	4.27	2001	2	108212.01 2	BEFORE Y	1	0.468384075	288
25	4.27	2001	0	127104.98 3	BEFORE Y	2	0.000000000	288
25	4.27	2001	0	132396.78 4	BEFORE Y	2	0.000000000	288
25	4.27	2001	1	137405.83 5	BEFORE Y	2	0.234192037	288
25	4.27	2001	1	135102.38 6	BEFORE Y	3	0.234192037	288
25	4.27	2001	0	137188.13 7	BEFORE Y	3	0.000000000	288
25	4.27	2001	0	135939.19 8	BEFORE Y	3	0.000000000	288
25	4.27	2001	0	131199.22 9	BEFORE Y	4	0.000000000	288
25	4.27	2001	1	132765.29 10	BEFORE Y	4	0.234192037	288
25	4.27	2001	0	124668.09 11	BEFORE Y	4	0.000000000	288
25	4.27	2001	1	129133.06 12	BEFORE Y	1	0.234192037	288
25	4.27	2002	0	121624.16 1	BEFORE Y	1	0.000000000	288
25	4.27	2002	0	113546.29 2	BEFORE Y	1	0.000000000	288
25	4.27	2002	0	133370.58 3	BEFORE Y	2	0.000000000	288
25	4.27	2002	0	138923.25 4	BEFORE Y	2	0.000000000	288
25	4.27	2002	0	144179.21 5	BEFORE Y	2	0.000000000	288
25	4.27	2002	1	141762.21 6	BEFORE Y	3	0.234192037	288
25	4.27	2002	1	143950.78 7	BEFORE Y	3	0.234192037	288
25	4.27	2002	1	142640.28 8	BEFORE Y	3	0.234192037	288
25	4.27	2002	0	137666.65 9	BEFORE Y	4	0.000000000	288
25	4.27	2002	0	139309.92 10	BEFORE Y	4	0.000000000	288
25	4.27	2002	0	130813.57 11	BEFORE Y	4	0.000000000	288
25	4.27	2002	0	135498.64 12	BEFORE Y	1	0.000000000	288
25	4.27	2003	0	122488.84 1	BEFORE Y	1	0.000000000	288
25	4.27	2003	0	114353.54 2	BEFORE Y	1	0.000000000	288
25	4.27	2003	1	134318.78 3	BEFORE Y	2	0.234192037	288
25	4.27	2003	0	139910.92 4	BEFORE Y	2	0.000000000	288
25	4.27	2003	1	145204.25 5	BEFORE Y	2	0.234192037	288
25	4.27	2003	0	142770.07 6	BEFORE Y	3	0.000000000	288
25	4.27	2003	0	144974.19 7	BEFORE Y	3	0.000000000	288
25	4.27	2003	2	143654.37 8	BEFORE Y	3	0.468384075	288
25	4.27	2003	1	138645.39 9	BEFORE Y	4	0.234192037	288
25	4.27	2003	1	140300.34 10	BEFORE Y	4	0.234192037	288
25	4.27	2003	0	131743.59 11	BEFORE Y	4	0.000000000	288
25	4.27	2003	0	136461.97 12	BEFORE Y	1	0.000000000	288
25	4.27	2004	0	127644.73 1	BEFORE Y	1	0.000000000	288
25	4.27	2004	0	123422.96 2	BEFORE Y	1	0.000000000	288
25	4.27	2004	0	139972.62 3	BEFORE Y	2	0.000000000	288
25	4.27	2004	3	145800.15 4	BEFORE Y	2	0.702576112	288
25	4.27	2004	1	151316.29 5	BEFORE Y	2	0.234192037	288
25	4.27	2004	0	148779.65 6	BEFORE Y	3	0.000000000	288
25	4.27	2004	0	151076.55 7	BEFORE Y	3	0.000000000	288
25	4.27	2004	1	149701.17 8	BEFORE Y	3	0.234192037	288
25	4.27	2004	2	144481.35 9	BEFORE Y	4	0.468384075	288
25	4.27	2004	0	146205.96 10	BEFORE Y	4	0.000000000	288
25	4.27	2004	1	137289.03 11	BEFORE Y	4	0.234192037	288
25	4.27	2004	1	142206.02 12	BEFORE Y	1	0.234192037	288
25	4.27	2005	0	127644.73 1	BEFORE Y	1	0.000000000	288
25	4.27	2005	0	123422.96 2	BEFORE Y	1	0.000000000	288
25	4.27	2005	0	139972.62 3	BEFORE Y	2	0.000000000	288
25	4.27	2005	0	145800.15 4	BEFORE Y	2	0.000000000	288
25	4.27	2005	1	151316.29 5	BEFORE Y	2	0.234192037	288
25	4.27	2005	0	148779.65 6	BEFORE Y	3	0.000000000	288
25	4.27	2005	0	151076.55 7	BEFORE Y	3	0.000000000	288
25	4.27	2005	0	149701.17 8	BEFORE Y	3	0.000000000	288
25	4.27	2005	2	144481.35 9	BEFORE Y	4	0.468384075	288
25	4.27	2005	0	146205.96 10	BEFORE Y	4	0.000000000	288
25	4.27	2005	1	137289.03 11	BEFORE Y	4	0.234192037	288
25	4.27	2005	1	142206.02 12	BEFORE Y	1	0.234192037	288

APPENDIX G. ROAD CITIZEN DATA

SID	LENGTH	YEAR	MONTH	CRASH_SITE	MADT PERIOD	CONTROL	SEASON	CRT	COMPLETE	
1	10.9	1994	1	16	347197.52	BEFORE	N	1	1.467889908	84
1	10.9	1994	2	18	324137.82	BEFORE	N	1	1.651376147	84
1	10.9	1994	3	8	380729.75	BEFORE	N	2	0.733944954	84
1	10.9	1994	4	7	396580.80	BEFORE	N	2	0.642201835	84
1	10.9	1994	5	8	411584.88	BEFORE	N	2	0.733944954	84
1	10.9	1994	6	11	404685.13	BEFORE	N	3	1.009174312	84
1	10.9	1994	7	9	410932.77	BEFORE	N	3	0.825688073	84
1	10.9	1994	8	10	407191.72	BEFORE	N	3	0.917431193	84
1	10.9	1994	9	10	392993.64	BEFORE	N	4	0.917431193	84
1	10.9	1994	10	13	397684.63	BEFORE	N	4	1.192660550	84
1	10.9	1994	11	9	373430.31	BEFORE	N	4	0.825688073	84
1	10.9	1994	12	9	386804.67	BEFORE	N	1	0.825688073	84
1	10.9	1995	1	6	355463.45	BEFORE	N	1	0.550458716	84
1	10.9	1995	2	4	331854.76	BEFORE	N	1	0.366972477	84
1	10.9	1995	3	8	389794.00	BEFORE	N	2	0.733944954	84
1	10.9	1995	4	3	406022.43	BEFORE	N	2	0.275229358	84
1	10.9	1995	5	10	421383.72	BEFORE	N	2	0.917431193	84
1	10.9	1995	6	4	414319.70	BEFORE	N	3	0.366972477	84
1	10.9	1995	7	10	420716.08	BEFORE	N	3	0.917431193	84
1	10.9	1995	8	4	416885.96	BEFORE	N	3	0.366972477	84
1	10.9	1995	9	7	402349.86	BEFORE	N	4	0.642201835	84
1	10.9	1995	10	16	407152.53	BEFORE	N	4	1.467889908	84
1	10.9	1995	11	10	382320.78	BEFORE	N	4	0.917431193	84
1	10.9	1995	12	11	396013.55	BEFORE	N	1	1.009174312	84
1	10.9	1996	1	13	367837.01	BEFORE	N	1	1.192660550	84
1	10.9	1996	2	9	355671.02	BEFORE	N	1	0.825688073	84
1	10.9	1996	3	9	403362.59	BEFORE	N	2	0.825688073	84
1	10.9	1996	4	8	420155.92	BEFORE	N	2	0.733944954	84
1	10.9	1996	5	9	436051.94	BEFORE	N	2	0.825688073	84
1	10.9	1996	6	11	428742.02	BEFORE	N	3	1.009174312	84
1	10.9	1996	7	9	435361.06	BEFORE	N	3	0.825688073	84
1	10.9	1996	8	8	431397.62	BEFORE	N	3	0.733944954	84
1	10.9	1996	9	6	416355.52	BEFORE	N	4	0.550458716	84
1	10.9	1996	10	13	421325.37	BEFORE	N	4	1.192660550	84
1	10.9	1996	11	9	395629.23	BEFORE	N	4	0.825688073	84
1	10.9	1996	12	13	409798.65	BEFORE	N	1	1.192660550	84
1	10.9	1997	1	10	373708.67	BEFORE	N	1	0.917431193	84
1	10.9	1997	2	7	348888.19	BEFORE	N	1	0.642201835	84
1	10.9	1997	3	5	409801.33	BEFORE	N	2	0.458715596	84
1	10.9	1997	4	7	426862.73	BEFORE	N	2	0.642201835	84
1	10.9	1997	5	5	443012.49	BEFORE	N	2	0.458715596	84
1	10.9	1997	6	10	435585.89	BEFORE	N	3	0.917431193	84
1	10.9	1997	7	7	442310.59	BEFORE	N	3	0.642201835	84
1	10.9	1997	8	4	438283.87	BEFORE	N	3	0.366972477	84
1	10.9	1997	9	8	423001.66	BEFORE	N	4	0.733944954	84
1	10.9	1997	10	2	428050.85	BEFORE	N	4	0.183486239	84
1	10.9	1997	11	10	401944.53	BEFORE	N	4	0.917431193	84
1	10.9	1997	12	7	416340.12	BEFORE	N	1	0.642201835	84
1	10.9	1998	1	5	387447.51	BEFORE	N	1	0.458715596	84
1	10.9	1998	2	7	361714.54	BEFORE	N	1	0.642201835	84
1	10.9	1998	3	6	424867.07	BEFORE	N	2	0.550458716	84
1	10.9	1998	4	6	442555.71	BEFORE	N	2	0.550458716	84
1	10.9	1998	5	11	459299.19	BEFORE	N	2	1.009174312	84
1	10.9	1998	6	8	451599.56	BEFORE	N	3	0.733944954	84
1	10.9	1998	7	7	458571.48	BEFORE	N	3	0.642201835	84
1	10.9	1998	8	6	454396.73	BEFORE	N	3	0.550458716	84
1	10.9	1998	9	9	438552.69	BEFORE	N	4	0.825688073	84
1	10.9	1998	10	9	443787.50	BEFORE	N	4	0.825688073	84
1	10.9	1998	11	11	416721.43	BEFORE	N	4	1.009174312	84
1	10.9	1998	12	9	431646.25	BEFORE	N	1	0.825688073	84
1	10.9	1999	1	14	367550.91	BEFORE	N	1	1.284403670	84
1	10.9	1999	2	8	343139.40	BEFORE	N	1	0.733944954	84
1	10.9	1999	3	6	403048.86	BEFORE	N	2	0.550458716	84
1	10.9	1999	4	12	419829.13	BEFORE	N	2	1.100917431	84

1	10.9	1999	5	6	435712.78 BEFORE	N	2	0.550458716	84
1	10.9	1999	6	10	428408.55 BEFORE	N	3	0.917431193	84
1	10.9	1999	7	7	435022.44 BEFORE	N	3	0.642201835	84
1	10.9	1999	8	10	431062.08 BEFORE	N	3	0.917431193	84
1	10.9	1999	9	7	416031.68 BEFORE	N	4	0.642201835	84
1	10.9	1999	10	13	420997.66 BEFORE	N	4	1.192660550	84
1	10.9	1999	11	8	395321.52 BEFORE	N	4	0.733944954	84
1	10.9	1999	12	8	409479.91 BEFORE	N	1	0.733944954	84
1	11	2000	1	11	350906.67 BEFORE	N	1	1.000000000	84
1	11	2000	2	11	339300.64 BEFORE	N	1	1.000000000	84
1	11	2000	3	7	384797.12 BEFORE	N	2	0.636363636	84
1	11	2000	4	3	400817.51 BEFORE	N	2	0.272727273	84
1	11	2000	5	7	415981.89 BEFORE	N	2	0.636363636	84
1	11	2000	6	12	409008.42 BEFORE	N	3	1.090909091	84
1	11	2000	7	6	415322.81 BEFORE	N	3	0.545454545	84
1	11	2000	8	6	411541.79 BEFORE	N	3	0.545454545	84
1	11	2000	9	5	397192.03 BEFORE	N	4	0.454545455	84
1	11	2000	10	6	401933.13 BEFORE	N	4	0.545454545	84
1	11	2000	11	10	377419.71 BEFORE	N	4	0.909090909	84
1	11	2000	12	6	390936.95 BEFORE	N	1	0.545454545	84
1	11.3	2001	1	9	286714.17 AFTER	N	1	0.796460177	84
1	11.3	2001	2	13	267671.58 AFTER	N	1	1.150442478	84
1	11.3	2001	3	7	314404.94 AFTER	N	2	0.619469027	84
1	11.3	2001	4	7	327494.67 AFTER	N	2	0.619469027	84
1	11.3	2001	5	5	339884.97 AFTER	N	2	0.442477876	84
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3	10.9	1998	1	4	110035.87	AFTER	N	1	0.366972477	36
3	10.9	1998	2	3	102727.66	AFTER	N	1	0.275229358	36
3	10.9	1998	3	1	120663.10	AFTER	N	2	0.091743119	36
3	10.9	1998	4	3	125686.71	AFTER	N	2	0.275229358	36
3	10.9	1998	5	8	130441.90	AFTER	N	2	0.733944954	36
3	10.9	1998	6	3	128255.18	AFTER	N	3	0.275229358	36
3	10.9	1998	7	4	130235.22	AFTER	N	3	0.366972477	36
3	10.9	1998	8	2	129049.59	AFTER	N	3	0.183486239	36
3	10.9	1998	9	4	124549.85	AFTER	N	4	0.366972477	36
3	10.9	1998	10	8	126036.54	AFTER	N	4	0.733944954	36
3	10.9	1998	11	7	118349.72	AFTER	N	4	0.642201835	36
3	10.9	1998	12	4	122588.41	AFTER	N	1	0.366972477	36
3	10.9	1999	1	5	94950.82	AFTER	N	1	0.458715596	36
3	10.9	1999	2	4	88644.51	AFTER	N	1	0.366972477	36
3	10.9	1999	3	4	104121.14	AFTER	N	2	0.366972477	36
3	10.9	1999	4	2	108456.05	AFTER	N	2	0.183486239	36
3	10.9	1999	5	1	112559.34	AFTER	N	2	0.091743119	36
3	10.9	1999	6	2	110672.41	AFTER	N	3	0.183486239	36
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3	10.9	1999	10	4	108757.93	AFTER	N	4	0.366972477	36
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3	10.9	2000	3	2	101001.00	AFTER	N	2	0.183486239	36
3	10.9	2000	4	4	105206.01	AFTER	N	2	0.366972477	36
3	10.9	2000	5	3	109186.34	AFTER	N	2	0.275229358	36
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3	10.9	2002	3	5	102013.90	AFTER	N	2	0.458715596	36
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3	10.9	2003	1	4	99861.25	AFTER	N	1	0.366972477	36
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3	10.9	2003	6	3	116395.88	AFTER	N	3	0.275229358	36
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3	10.9	2004	9	5	113841.18	AFTER	N	4	0.458715596	36
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3	10.9	2005	3	2	110564.88	AFTER	N	2	0.183486239	36
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3	10.9	2005	9	2	114126.34	AFTER	N	4	0.183486239	36
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3	10.9	2005	12	2	112329.05	AFTER	N	1	0.183486239	36
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4	4.51	1994	2	0	122678.29	BEFORE	N	1	0.000000000	108
4	4.51	1994	3	0	144096.96	BEFORE	N	2	0.000000000	108
4	4.51	1994	4	1	150096.20	BEFORE	N	2	0.221729490	108
4	4.51	1994	5	0	155774.88	BEFORE	N	2	0.000000000	108
4	4.51	1994	6	0	153163.49	BEFORE	N	3	0.000000000	108
4	4.51	1994	7	0	155528.07	BEFORE	N	3	0.000000000	108
4	4.51	1994	8	2	154112.17	BEFORE	N	3	0.443458980	108
4	4.51	1994	9	0	148738.54	BEFORE	N	4	0.000000000	108
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4	4.51	1994	12	0	146396.17	BEFORE	N	1	0.000000000	108
4	4.51	1995	1	1	134534.28	BEFORE	N	1	0.221729490	108
4	4.51	1995	2	0	125598.96	BEFORE	N	1	0.000000000	108
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4	4.51	1996	11	1	149736.05	BEFORE	N	4	0.221729490	108
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4	4.51	1999	3	0	153705.34 BEFORE	N	2	0.000000000	108
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4	4.55	2003	4	0	74537.98	AFTER	N	2	0.000000000	108
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4	4.55	2003	6	0	76061.20	AFTER	N	3	0.000000000	108
4	4.55	2003	7	0	77235.46	AFTER	N	3	0.000000000	108
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4	4.55	2004	11	1	75318.09	AFTER	N	4	0.219780220	108
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4	4.48	2005	2	0	66142.82	AFTER	N	1	0.000000000	108
4	4.48	2005	3	0	77690.84	AFTER	N	2	0.000000000	108
4	4.48	2005	4	1	80925.37	AFTER	N	2	0.223214286	108
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4	4.48	2005	6	0	82579.12	AFTER	N	3	0.000000000	108
4	4.48	2005	7	0	83854.00	AFTER	N	3	0.000000000	108
4	4.48	2005	8	0	83090.61	AFTER	N	3	0.000000000	108
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5	4.24	1994	2	0	71033.85	BEFORE	N	1	0.000000000	48
5	4.24	1994	3	1	83435.81	BEFORE	N	2	0.235849057	48
5	4.24	1994	4	1	86909.52	BEFORE	N	2	0.235849057	48
5	4.24	1994	5	0	90197.62	BEFORE	N	2	0.000000000	48
5	4.24	1994	6	1	88685.56	BEFORE	N	3	0.235849057	48
5	4.24	1994	7	0	90054.71	BEFORE	N	3	0.000000000	48
5	4.24	1994	8	2	89234.87	BEFORE	N	3	0.471698113	48
5	4.24	1994	9	1	86123.40	BEFORE	N	4	0.235849057	48
5	4.24	1994	10	1	87151.42	BEFORE	N	4	0.235849057	48
5	4.24	1994	11	0	81836.16	BEFORE	N	4	0.000000000	48
5	4.24	1994	12	0	84767.11	BEFORE	N	1	0.000000000	48
5	4.24	1995	1	0	77898.77	BEFORE	N	1	0.000000000	48
5	4.24	1995	2	0	72724.99	BEFORE	N	1	0.000000000	48
5	4.24	1995	3	1	85422.21	BEFORE	N	2	0.235849057	48
5	4.24	1995	4	0	88978.62	BEFORE	N	2	0.000000000	48
5	4.24	1995	5	0	92345.00	BEFORE	N	2	0.000000000	48
5	4.24	1995	6	0	90796.95	BEFORE	N	3	0.000000000	48
5	4.24	1995	7	1	92198.69	BEFORE	N	3	0.235849057	48
5	4.24	1995	8	1	91359.33	BEFORE	N	3	0.235849057	48
5	4.24	1995	9	0	88173.79	BEFORE	N	4	0.000000000	48
5	4.24	1995	10	0	89226.28	BEFORE	N	4	0.000000000	48
5	4.24	1995	11	0	83784.48	BEFORE	N	4	0.000000000	48
5	4.24	1995	12	0	86785.21	BEFORE	N	1	0.000000000	48
5	4.24	1996	1	0	80610.40	BEFORE	N	1	0.000000000	48
5	4.24	1996	2	1	77944.26	BEFORE	N	1	0.235849057	48
5	4.24	1996	3	0	88395.73	BEFORE	N	2	0.000000000	48
5	4.24	1996	4	0	92075.94	BEFORE	N	2	0.000000000	48
5	4.24	1996	5	0	95559.50	BEFORE	N	2	0.000000000	48
5	4.24	1996	6	1	93957.56	BEFORE	N	3	0.235849057	48
5	4.24	1996	7	0	95408.10	BEFORE	N	3	0.000000000	48
5	4.24	1996	8	0	94539.52	BEFORE	N	3	0.000000000	48

5	4.24	1996	9	0	91243.09	BEFORE	N	4	0.000000000	48
5	4.24	1996	10	0	92332.22	BEFORE	N	4	0.000000000	48
5	4.24	1996	11	1	86700.98	BEFORE	N	4	0.235849057	48
5	4.24	1996	12	1	89806.17	BEFORE	N	1	0.235849057	48
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5	4.24	1997	2	1	76457.82	BEFORE	N	1	0.235849057	48
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5	4.24	1997	4	0	93545.71	BEFORE	N	2	0.000000000	48
5	4.24	1997	5	0	97084.89	BEFORE	N	2	0.000000000	48
5	4.24	1997	6	1	95457.37	BEFORE	N	3	0.235849057	48
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5	4.24	1997	8	1	96048.62	BEFORE	N	3	0.235849057	48
5	4.24	1997	9	0	92699.57	BEFORE	N	4	0.000000000	48
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5	4.24	1997	12	0	91239.72	BEFORE	N	1	0.000000000	48
5	4.24	1998	1	0	49975.40	AFTER	N	1	0.000000000	48
5	4.24	1998	2	0	46656.20	AFTER	N	1	0.000000000	48
5	4.24	1998	3	1	54802.01	AFTER	N	2	0.235849057	48
5	4.24	1998	4	0	57083.60	AFTER	N	2	0.000000000	48
5	4.24	1998	5	0	59243.27	AFTER	N	2	0.000000000	48
5	4.24	1998	6	1	58250.13	AFTER	N	3	0.235849057	48
5	4.24	1998	7	0	59149.41	AFTER	N	3	0.000000000	48
5	4.24	1998	8	1	58610.92	AFTER	N	3	0.235849057	48
5	4.24	1998	9	1	56567.26	AFTER	N	4	0.235849057	48
5	4.24	1998	10	1	57242.48	AFTER	N	4	0.235849057	48
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5	4.24	1998	12	1	55676.43	AFTER	N	1	0.235849057	48
5	4.2	1999	1	0	51393.59	AFTER	N	1	0.000000000	48
5	4.2	1999	2	0	47980.20	AFTER	N	1	0.000000000	48
5	4.2	1999	3	0	56357.17	AFTER	N	2	0.000000000	48
5	4.2	1999	4	0	58703.51	AFTER	N	2	0.000000000	48
5	4.2	1999	5	0	60924.47	AFTER	N	2	0.000000000	48
5	4.2	1999	6	0	59903.14	AFTER	N	3	0.000000000	48
5	4.2	1999	7	0	60827.94	AFTER	N	3	0.000000000	48
5	4.2	1999	8	0	60274.18	AFTER	N	3	0.000000000	48
5	4.2	1999	9	0	58172.52	AFTER	N	4	0.000000000	48
5	4.2	1999	10	0	58866.90	AFTER	N	4	0.000000000	48
5	4.2	1999	11	0	55276.68	AFTER	N	4	0.000000000	48
5	4.2	1999	12	0	57256.40	AFTER	N	1	0.000000000	48
5	4.25	2000	1	0	50343.42	AFTER	N	1	0.000000000	48
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5	4.25	2000	3	0	55205.57	AFTER	N	2	0.000000000	48
5	4.25	2000	4	0	57503.97	AFTER	N	2	0.000000000	48
5	4.25	2000	5	1	59679.55	AFTER	N	2	0.235294118	48
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5	4.25	2000	7	0	59584.99	AFTER	N	3	0.000000000	48
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5	4.25	2000	11	0	54147.16	AFTER	N	4	0.000000000	48
5	4.25	2000	12	0	56086.44	AFTER	N	1	0.000000000	48
5	4.25	2001	1	0	50443.77	AFTER	N	1	0.000000000	48
5	4.25	2001	2	0	47093.47	AFTER	N	1	0.000000000	48
5	4.25	2001	3	0	55315.62	AFTER	N	2	0.000000000	48
5	4.25	2001	4	0	57618.59	AFTER	N	2	0.000000000	48
5	4.25	2001	5	0	59798.51	AFTER	N	2	0.000000000	48
5	4.25	2001	6	0	58796.06	AFTER	N	3	0.000000000	48
5	4.25	2001	7	0	59703.77	AFTER	N	3	0.000000000	48
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5	4.25	2001	9	1	57097.42	AFTER	N	4	0.235294118	48
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5	4.25	2001	12	0	56198.23	AFTER	N	1	0.000000000	48
5	4.24	2002	1	0	48646.03	AFTER	N	1	0.000000000	48
5	4.24	2002	2	0	45415.12	AFTER	N	1	0.000000000	48
5	4.24	2002	3	0	53344.25	AFTER	N	2	0.000000000	48
5	4.24	2002	4	0	55565.15	AFTER	N	2	0.000000000	48

5	4.24	2002	5	0	57667.38	AFTER	N	2	0.000000000	48
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5	4.24	2002	7	0	57576.01	AFTER	N	3	0.000000000	48
5	4.24	2002	8	0	57051.85	AFTER	N	3	0.000000000	48
5	4.24	2002	9	0	55062.55	AFTER	N	4	0.000000000	48
5	4.24	2002	10	1	55719.80	AFTER	N	4	0.235849057	48
5	4.24	2002	11	0	52321.52	AFTER	N	4	0.000000000	48
5	4.24	2002	12	0	54195.41	AFTER	N	1	0.000000000	48
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5	4.19	2003	2	0	47574.52	AFTER	N	1	0.000000000	48
5	4.19	2003	3	0	55880.65	AFTER	N	2	0.000000000	48
5	4.19	2003	4	1	58207.15	AFTER	N	2	0.238663484	48
5	4.19	2003	5	0	60409.34	AFTER	N	2	0.000000000	48
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5	4.19	2003	7	0	60313.63	AFTER	N	3	0.000000000	48
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5	4.19	2003	10	0	58369.16	AFTER	N	4	0.000000000	48
5	4.19	2003	11	0	54809.30	AFTER	N	4	0.000000000	48
5	4.19	2003	12	0	56772.29	AFTER	N	1	0.000000000	48
5	4.16	2004	1	0	49444.08	AFTER	N	1	0.000000000	48
5	4.16	2004	2	0	47808.75	AFTER	N	1	0.000000000	48
5	4.16	2004	3	0	54219.38	AFTER	N	2	0.000000000	48
5	4.16	2004	4	0	56476.71	AFTER	N	2	0.000000000	48
5	4.16	2004	5	1	58613.43	AFTER	N	2	0.240384615	48
5	4.16	2004	6	0	57630.84	AFTER	N	3	0.000000000	48
5	4.16	2004	7	0	58520.56	AFTER	N	3	0.000000000	48
5	4.16	2004	8	0	57987.80	AFTER	N	3	0.000000000	48
5	4.16	2004	9	0	55965.87	AFTER	N	4	0.000000000	48
5	4.16	2004	10	0	56633.91	AFTER	N	4	0.000000000	48
5	4.16	2004	11	0	53179.87	AFTER	N	4	0.000000000	48
5	4.16	2004	12	0	55084.50	AFTER	N	1	0.000000000	48
5	4.2	2005	1	0	51349.30	AFTER	N	1	0.000000000	48
5	4.2	2005	2	0	47938.86	AFTER	N	1	0.000000000	48
5	4.2	2005	3	0	56308.60	AFTER	N	2	0.000000000	48
5	4.2	2005	4	0	58652.92	AFTER	N	2	0.000000000	48
5	4.2	2005	5	0	60871.97	AFTER	N	2	0.000000000	48
5	4.2	2005	6	0	59851.52	AFTER	N	3	0.000000000	48
5	4.2	2005	7	0	60775.53	AFTER	N	3	0.000000000	48
5	4.2	2005	8	0	60222.24	AFTER	N	3	0.000000000	48
5	4.2	2005	9	0	58122.39	AFTER	N	4	0.000000000	48
5	4.2	2005	10	0	58816.17	AFTER	N	4	0.000000000	48
5	4.2	2005	11	1	55229.04	AFTER	N	4	0.238095238	48
5	4.2	2005	12	0	57207.06	AFTER	N	1	0.000000000	48
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6	4.35	1994	2	0	130910.07	BEFORE	N	1	0.000000000	60
6	4.35	1994	3	0	153765.94	BEFORE	N	2	0.000000000	60
6	4.35	1994	4	0	160167.73	BEFORE	N	2	0.000000000	60
6	4.35	1994	5	1	166227.45	BEFORE	N	2	0.229885057	60
6	4.35	1994	6	1	163440.84	BEFORE	N	3	0.229885057	60
6	4.35	1994	7	2	165964.08	BEFORE	N	3	0.459770115	60
6	4.35	1994	8	1	164453.18	BEFORE	N	3	0.229885057	60
6	4.35	1994	9	0	158718.97	BEFORE	N	4	0.000000000	60
6	4.35	1994	10	0	160613.53	BEFORE	N	4	0.000000000	60
6	4.35	1994	11	0	150817.90	BEFORE	N	4	0.000000000	60
6	4.35	1994	12	0	156219.43	BEFORE	N	1	0.000000000	60
6	4.35	1995	1	0	143561.60	BEFORE	N	1	0.000000000	60
6	4.35	1995	2	1	134026.72	BEFORE	N	1	0.229885057	60
6	4.35	1995	3	0	157426.73	BEFORE	N	2	0.000000000	60
6	4.35	1995	4	0	163980.93	BEFORE	N	2	0.000000000	60
6	4.35	1995	5	0	170184.92	BEFORE	N	2	0.000000000	60
6	4.35	1995	6	1	167331.97	BEFORE	N	3	0.229885057	60
6	4.35	1995	7	0	169915.28	BEFORE	N	3	0.000000000	60
6	4.35	1995	8	1	168368.41	BEFORE	N	3	0.229885057	60
6	4.35	1995	9	0	162497.69	BEFORE	N	4	0.000000000	60
6	4.35	1995	10	1	164437.35	BEFORE	N	4	0.229885057	60
6	4.35	1995	11	1	154408.51	BEFORE	N	4	0.229885057	60
6	4.35	1995	12	2	159938.63	BEFORE	N	1	0.459770115	60

6	4.35	1996	1	0	148558.93	BEFORE	N	1	0.000000000	60
6	4.35	1996	2	1	143645.43	BEFORE	N	1	0.229885057	60
6	4.35	1996	3	2	162906.70	BEFORE	N	2	0.459770115	60
6	4.35	1996	4	0	169689.05	BEFORE	N	2	0.000000000	60
6	4.35	1996	5	0	176109.00	BEFORE	N	2	0.000000000	60
6	4.35	1996	6	0	173156.73	BEFORE	N	3	0.000000000	60
6	4.35	1996	7	1	175829.98	BEFORE	N	3	0.229885057	60
6	4.35	1996	8	0	174229.25	BEFORE	N	3	0.000000000	60
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6	4.35	1996	10	2	170161.36	BEFORE	N	4	0.459770115	60
6	4.35	1996	11	1	159783.42	BEFORE	N	4	0.229885057	60
6	4.35	1996	12	0	165506.04	BEFORE	N	1	0.000000000	60
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6	4.35	1997	2	0	140906.03	BEFORE	N	1	0.000000000	60
6	4.35	1997	3	0	165507.13	BEFORE	N	2	0.000000000	60
6	4.35	1997	4	0	172397.74	BEFORE	N	2	0.000000000	60
6	4.35	1997	5	0	178920.17	BEFORE	N	2	0.000000000	60
6	4.35	1997	6	0	175920.78	BEFORE	N	3	0.000000000	60
6	4.35	1997	7	1	178636.69	BEFORE	N	3	0.229885057	60
6	4.35	1997	8	1	177010.41	BEFORE	N	3	0.229885057	60
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6	4.35	1997	10	0	172877.59	BEFORE	N	4	0.000000000	60
6	4.35	1997	11	0	162333.99	BEFORE	N	4	0.000000000	60
6	4.35	1997	12	1	168147.96	BEFORE	N	1	0.229885057	60
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6	4.35	1998	2	0	170667.47	BEFORE	N	1	0.000000000	60
6	4.35	1998	3	1	200464.67	BEFORE	N	2	0.229885057	60
6	4.35	1998	4	0	208810.69	BEFORE	N	2	0.000000000	60
6	4.35	1998	5	0	216710.75	BEFORE	N	2	0.000000000	60
6	4.35	1998	6	0	213077.84	BEFORE	N	3	0.000000000	60
6	4.35	1998	7	0	216367.39	BEFORE	N	3	0.000000000	60
6	4.35	1998	8	1	214397.63	BEFORE	N	3	0.229885057	60
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6	4.14	1999	2	0	58222.95	AFTER	N	1	0.000000000	60
6	4.14	1999	3	0	68388.23	AFTER	N	2	0.000000000	60
6	4.14	1999	4	0	71235.46	AFTER	N	2	0.000000000	60
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6	4.14	1999	7	0	73813.42	AFTER	N	3	0.000000000	60
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6	4.14	1999	9	0	70591.12	AFTER	N	4	0.000000000	60
6	4.14	1999	10	1	71433.73	AFTER	N	4	0.241545894	60
6	4.14	1999	11	0	67077.07	AFTER	N	4	0.000000000	60
6	4.14	1999	12	0	69479.43	AFTER	N	1	0.000000000	60
6	4.14	2000	1	0	61731.25	AFTER	N	1	0.000000000	60
6	4.14	2000	2	1	59689.53	AFTER	N	1	0.241545894	60
6	4.14	2000	3	0	67693.24	AFTER	N	2	0.000000000	60
6	4.14	2000	4	0	70511.53	AFTER	N	2	0.000000000	60
6	4.14	2000	5	0	73179.24	AFTER	N	2	0.000000000	60
6	4.14	2000	6	0	71952.47	AFTER	N	3	0.000000000	60
6	4.14	2000	7	0	73063.29	AFTER	N	3	0.000000000	60
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6	4.14	2000	9	0	69873.74	AFTER	N	4	0.000000000	60
6	4.14	2000	10	0	70707.79	AFTER	N	4	0.000000000	60
6	4.14	2000	11	1	66395.41	AFTER	N	4	0.241545894	60
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6	4.14	2001	4	1	71289.15	AFTER	N	2	0.241545894	60
6	4.14	2001	5	1	73986.27	AFTER	N	2	0.241545894	60
6	4.14	2001	6	0	72745.98	AFTER	N	3	0.000000000	60
6	4.14	2001	7	0	73869.05	AFTER	N	3	0.000000000	60
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6	4.14	2001	11	0	67127.63	AFTER	N	4	0.000000000	60
6	4.14	2001	12	0	69531.80	AFTER	N	1	0.000000000	60
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6	4.14	2002	2	0	71893.85	AFTER	N	1	0.000000000	60
6	4.14	2002	3	0	84445.95	AFTER	N	2	0.000000000	60
6	4.14	2002	4	0	87961.72	AFTER	N	2	0.000000000	60
6	4.14	2002	5	0	91289.63	AFTER	N	2	0.000000000	60
6	4.14	2002	6	0	89759.26	AFTER	N	3	0.000000000	60
6	4.14	2002	7	0	91144.99	AFTER	N	3	0.000000000	60
6	4.14	2002	8	0	90315.22	AFTER	N	3	0.000000000	60
6	4.14	2002	9	0	87166.08	AFTER	N	4	0.000000000	60
6	4.14	2002	10	0	88206.55	AFTER	N	4	0.000000000	60
6	4.14	2002	11	0	82826.93	AFTER	N	4	0.000000000	60
6	4.14	2002	12	0	85793.37	AFTER	N	1	0.000000000	60
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6	4.16	2003	2	0	71487.66	AFTER	N	1	0.000000000	60
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6	4.16	2003	4	0	87464.74	AFTER	N	2	0.000000000	60
6	4.16	2003	5	0	90773.85	AFTER	N	2	0.000000000	60
6	4.16	2003	6	0	89252.13	AFTER	N	3	0.000000000	60
6	4.16	2003	7	0	90630.03	AFTER	N	3	0.000000000	60
6	4.16	2003	8	0	89804.95	AFTER	N	3	0.000000000	60
6	4.16	2003	9	0	86673.61	AFTER	N	4	0.000000000	60
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11	5.82	2005	2	2	87952.78	AFTER	N	1	0.343642612	72
11	5.82	2005	3	0	103308.65	AFTER	N	2	0.000000000	72
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11	5.82	2005	5	1	111680.99	AFTER	N	2	0.171821306	72
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11	5.82	2005	7	1	111504.05	AFTER	N	3	0.171821306	72
11	5.82	2005	8	1	110488.94	AFTER	N	3	0.171821306	72
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17	2.02	1994	3	1	69754.94	BEFORE	N	2	0.495049505	24
17	2.02	1994	4	0	72659.07	BEFORE	N	2	0.000000000	24

17	2.02	1994	5	0	75408.03	BEFORE	N	2	0.000000000	24
17	2.02	1994	6	0	74143.90	BEFORE	N	3	0.000000000	24
17	2.02	1994	7	0	75288.55	BEFORE	N	3	0.000000000	24
17	2.02	1994	8	0	74603.14	BEFORE	N	3	0.000000000	24
17	2.02	1994	9	0	72001.86	BEFORE	N	4	0.000000000	24
17	2.02	1994	10	1	72861.31	BEFORE	N	4	0.495049505	24
17	2.02	1994	11	0	68417.59	BEFORE	N	4	0.000000000	24
17	2.02	1994	12	0	70867.95	BEFORE	N	1	0.000000000	24
17	2.02	1995	1	0	65125.81	BEFORE	N	1	0.000000000	24
17	2.02	1995	2	0	60800.37	BEFORE	N	1	0.000000000	24
17	2.02	1995	3	0	71415.64	BEFORE	N	2	0.000000000	24
17	2.02	1995	4	0	74388.91	BEFORE	N	2	0.000000000	24
17	2.02	1995	5	0	77203.31	BEFORE	N	2	0.000000000	24
17	2.02	1995	6	1	75909.09	BEFORE	N	3	0.495049505	24
17	2.02	1995	7	0	77080.99	BEFORE	N	3	0.000000000	24
17	2.02	1995	8	0	76379.26	BEFORE	N	3	0.000000000	24
17	2.02	1995	9	0	73716.05	BEFORE	N	4	0.000000000	24
17	2.02	1995	10	1	74595.96	BEFORE	N	4	0.495049505	24
17	2.02	1995	11	1	70046.44	BEFORE	N	4	0.495049505	24
17	2.02	1995	12	1	72555.15	BEFORE	N	1	0.495049505	24
17	2.02	1996	1	0	67392.81	AFTER	N	1	0.000000000	24
17	2.02	1996	2	0	65163.84	AFTER	N	1	0.000000000	24
17	2.02	1996	3	0	73901.59	AFTER	N	2	0.000000000	24
17	2.02	1996	4	0	76978.36	AFTER	N	2	0.000000000	24
17	2.02	1996	5	0	79890.73	AFTER	N	2	0.000000000	24
17	2.02	1996	6	0	78551.45	AFTER	N	3	0.000000000	24
17	2.02	1996	7	0	79764.15	AFTER	N	3	0.000000000	24
17	2.02	1996	8	0	79037.99	AFTER	N	3	0.000000000	24
17	2.02	1996	9	0	76282.08	AFTER	N	4	0.000000000	24
17	2.02	1996	10	0	77192.62	AFTER	N	4	0.000000000	24
17	2.02	1996	11	0	72484.73	AFTER	N	4	0.000000000	24
17	2.02	1996	12	1	75080.77	AFTER	N	1	0.495049505	24
17	2.02	1997	1	0	68468.58	AFTER	N	1	0.000000000	24
17	2.02	1997	2	0	63921.13	AFTER	N	1	0.000000000	24
17	2.02	1997	3	1	75081.26	AFTER	N	2	0.495049505	24
17	2.02	1997	4	0	78207.14	AFTER	N	2	0.000000000	24
17	2.02	1997	5	0	81166.00	AFTER	N	2	0.000000000	24
17	2.02	1997	6	0	79805.34	AFTER	N	3	0.000000000	24
17	2.02	1997	7	0	81037.40	AFTER	N	3	0.000000000	24
17	2.02	1997	8	0	80299.65	AFTER	N	3	0.000000000	24
17	2.02	1997	9	0	77499.74	AFTER	N	4	0.000000000	24
17	2.02	1997	10	1	78424.82	AFTER	N	4	0.495049505	24
17	2.02	1997	11	0	73641.78	AFTER	N	4	0.000000000	24
17	2.02	1997	12	0	76279.25	AFTER	N	1	0.000000000	24
17	2.02	1998	1	1	67430.94	AFTER	N	1	0.495049505	24
17	2.02	1998	2	1	62952.41	AFTER	N	1	0.495049505	24
17	2.02	1998	3	0	73943.40	AFTER	N	2	0.000000000	24
17	2.02	1998	4	0	77021.91	AFTER	N	2	0.000000000	24
17	2.02	1998	5	0	79935.93	AFTER	N	2	0.000000000	24
17	2.02	1998	6	0	78595.90	AFTER	N	3	0.000000000	24
17	2.02	1998	7	0	79809.28	AFTER	N	3	0.000000000	24
17	2.02	1998	8	0	79082.71	AFTER	N	3	0.000000000	24
17	2.02	1998	9	0	76325.23	AFTER	N	4	0.000000000	24
17	2.02	1998	10	1	77236.29	AFTER	N	4	0.495049505	24
17	2.02	1998	11	1	72525.74	AFTER	N	4	0.495049505	24
17	2.02	1998	12	0	75123.24	AFTER	N	1	0.000000000	24
17	2.03	1999	1	3	68711.37	AFTER	N	1	1.477832512	24
17	2.03	1999	2	0	64147.79	AFTER	N	1	0.000000000	24
17	2.03	1999	3	0	75347.49	AFTER	N	2	0.000000000	24
17	2.03	1999	4	0	78484.46	AFTER	N	2	0.000000000	24
17	2.03	1999	5	0	81453.81	AFTER	N	2	0.000000000	24
17	2.03	1999	6	0	80088.33	AFTER	N	3	0.000000000	24
17	2.03	1999	7	0	81324.75	AFTER	N	3	0.000000000	24
17	2.03	1999	8	1	80584.39	AFTER	N	3	0.492610837	24
17	2.03	1999	9	0	77774.55	AFTER	N	4	0.000000000	24
17	2.03	1999	10	0	78702.91	AFTER	N	4	0.000000000	24
17	2.03	1999	11	0	73902.91	AFTER	N	4	0.000000000	24
17	2.03	1999	12	0	76549.74	AFTER	N	1	0.000000000	24

17	2.03	2000	1	0	68356.31	AFTER	N	1	0.000000000	24
17	2.03	2000	2	1	66095.47	AFTER	N	1	0.492610837	24
17	2.03	2000	3	1	74958.14	AFTER	N	2	0.492610837	24
17	2.03	2000	4	0	78078.90	AFTER	N	2	0.000000000	24
17	2.03	2000	5	0	81032.91	AFTER	N	2	0.000000000	24
17	2.03	2000	6	0	79674.49	AFTER	N	3	0.000000000	24
17	2.03	2000	7	0	80904.52	AFTER	N	3	0.000000000	24
17	2.03	2000	8	1	80167.98	AFTER	N	3	0.492610837	24
17	2.03	2000	9	0	77372.66	AFTER	N	4	0.000000000	24
17	2.03	2000	10	0	78296.22	AFTER	N	4	0.000000000	24
17	2.03	2000	11	0	73521.03	AFTER	N	4	0.000000000	24
17	2.03	2000	12	1	76154.18	AFTER	N	1	0.492610837	24
17	2.03	2001	1	0	76011.87	AFTER	N	1	0.000000000	24
17	2.03	2001	2	0	70963.41	AFTER	N	1	0.000000000	24
17	2.03	2001	3	0	83353.07	AFTER	N	2	0.000000000	24
17	2.03	2001	4	1	86823.34	AFTER	N	2	0.492610837	24
17	2.03	2001	5	0	90108.18	AFTER	N	2	0.000000000	24
17	2.03	2001	6	1	88597.62	AFTER	N	3	0.492610837	24
17	2.03	2001	7	0	89965.41	AFTER	N	3	0.000000000	24
17	2.03	2001	8	1	89146.38	AFTER	N	3	0.492610837	24
17	2.03	2001	9	1	86038.00	AFTER	N	4	0.492610837	24
17	2.03	2001	10	0	87065.00	AFTER	N	4	0.000000000	24
17	2.03	2001	11	0	81755.01	AFTER	N	4	0.000000000	24
17	2.03	2001	12	0	84683.05	AFTER	N	1	0.000000000	24
17	2.03	2002	1	0	77432.09	AFTER	N	1	0.000000000	24
17	2.03	2002	2	0	72289.31	AFTER	N	1	0.000000000	24
17	2.03	2002	3	0	84910.45	AFTER	N	2	0.000000000	24
17	2.03	2002	4	0	88445.56	AFTER	N	2	0.000000000	24
17	2.03	2002	5	0	91791.77	AFTER	N	2	0.000000000	24
17	2.03	2002	6	0	90252.99	AFTER	N	3	0.000000000	24
17	2.03	2002	7	1	91646.34	AFTER	N	3	0.492610837	24
17	2.03	2002	8	0	90812.01	AFTER	N	3	0.000000000	24
17	2.03	2002	9	1	87645.55	AFTER	N	4	0.492610837	24
17	2.03	2002	10	0	88691.73	AFTER	N	4	0.000000000	24
17	2.03	2002	11	1	83282.53	AFTER	N	4	0.492610837	24
17	2.03	2002	12	0	86265.28	AFTER	N	1	0.000000000	24
17	2.03	2003	1	0	77787.14	AFTER	N	1	0.000000000	24
17	2.03	2003	2	0	72620.78	AFTER	N	1	0.000000000	24
17	2.03	2003	3	0	85299.80	AFTER	N	2	0.000000000	24
17	2.03	2003	4	0	88851.11	AFTER	N	2	0.000000000	24
17	2.03	2003	5	0	92212.67	AFTER	N	2	0.000000000	24
17	2.03	2003	6	1	90666.83	AFTER	N	3	0.492610837	24
17	2.03	2003	7	0	92066.57	AFTER	N	3	0.000000000	24
17	2.03	2003	8	0	91228.41	AFTER	N	3	0.000000000	24
17	2.03	2003	9	0	88047.43	AFTER	N	4	0.000000000	24
17	2.03	2003	10	1	89098.42	AFTER	N	4	0.492610837	24
17	2.03	2003	11	1	83664.41	AFTER	N	4	0.492610837	24
17	2.03	2003	12	0	86660.84	AFTER	N	1	0.000000000	24
17	2.03	2004	1	0	78576.50	AFTER	N	1	0.000000000	24
17	2.03	2004	2	0	75977.63	AFTER	N	1	0.000000000	24
17	2.03	2004	3	0	86165.39	AFTER	N	2	0.000000000	24
17	2.03	2004	4	0	89752.75	AFTER	N	2	0.000000000	24
17	2.03	2004	5	0	93148.42	AFTER	N	2	0.000000000	24
17	2.03	2004	6	0	91586.89	AFTER	N	3	0.000000000	24
17	2.03	2004	7	0	93000.83	AFTER	N	3	0.000000000	24
17	2.03	2004	8	2	92154.17	AFTER	N	3	0.985221675	24
17	2.03	2004	9	0	88940.91	AFTER	N	4	0.000000000	24
17	2.03	2004	10	0	90002.56	AFTER	N	4	0.000000000	24
17	2.03	2004	11	0	84513.41	AFTER	N	4	0.000000000	24
17	2.03	2004	12	0	87540.25	AFTER	N	1	0.000000000	24
17	2.04	2005	1	2	83024.42	AFTER	N	1	0.980392157	24
17	2.04	2005	2	2	77510.22	AFTER	N	1	0.980392157	24
17	2.04	2005	3	1	91042.89	AFTER	N	2	0.490196078	24
17	2.04	2005	4	0	94833.31	AFTER	N	2	0.000000000	24
17	2.04	2005	5	1	98421.20	AFTER	N	2	0.490196078	24
17	2.04	2005	6	0	96771.28	AFTER	N	3	0.000000000	24
17	2.04	2005	7	1	98265.26	AFTER	N	3	0.490196078	24
17	2.04	2005	8	0	97370.68	AFTER	N	3	0.000000000	24

17	2.04	2005	9	0	93975.53	AFTER	N	4	0.000000000	24
17	2.04	2005	10	0	95097.27	AFTER	N	4	0.000000000	24
17	2.04	2005	11	0	89297.40	AFTER	N	4	0.000000000	24
17	2.04	2005	12	1	92495.58	AFTER	N	1	0.490196078	24
18	6.65	1994	1	1	205623.18	BEFORE	N	1	0.150375940	48
18	6.65	1994	2	6	191966.38	BEFORE	N	1	0.902255639	48
18	6.65	1994	3	1	225482.20	BEFORE	N	2	0.150375940	48
18	6.65	1994	4	6	234869.78	BEFORE	N	2	0.902255639	48
18	6.65	1994	5	4	243755.75	BEFORE	N	2	0.601503759	48
18	6.65	1994	6	2	239669.47	BEFORE	N	3	0.300751880	48
18	6.65	1994	7	2	243369.55	BEFORE	N	3	0.300751880	48
18	6.65	1994	8	3	241153.96	BEFORE	N	3	0.451127820	48
18	6.65	1994	9	3	232745.33	BEFORE	N	4	0.451127820	48
18	6.65	1994	10	4	235523.51	BEFORE	N	4	0.601503759	48
18	6.65	1994	11	3	221159.21	BEFORE	N	4	0.451127820	48
18	6.65	1994	12	4	229080.00	BEFORE	N	1	0.601503759	48
18	6.65	1995	1	3	210518.57	BEFORE	N	1	0.451127820	48
18	6.65	1995	2	1	196536.63	BEFORE	N	1	0.150375940	48
18	6.65	1995	3	4	230850.39	BEFORE	N	2	0.601503759	48
18	6.65	1995	4	2	240461.46	BEFORE	N	2	0.300751880	48
18	6.65	1995	5	1	249558.99	BEFORE	N	2	0.150375940	48
18	6.65	1995	6	3	245375.41	BEFORE	N	3	0.451127820	48
18	6.65	1995	7	3	249163.59	BEFORE	N	3	0.451127820	48
18	6.65	1995	8	4	246895.25	BEFORE	N	3	0.601503759	48
18	6.65	1995	9	2	238286.43	BEFORE	N	4	0.300751880	48
18	6.65	1995	10	1	241130.75	BEFORE	N	4	0.150375940	48
18	6.65	1995	11	2	226424.47	BEFORE	N	4	0.300751880	48
18	6.65	1995	12	5	234533.84	BEFORE	N	1	0.751879699	48
18	6.65	1996	1	3	217846.65	BEFORE	N	1	0.451127820	48
18	6.65	1996	2	5	210641.50	BEFORE	N	1	0.751879699	48
18	6.65	1996	3	1	238886.21	BEFORE	N	2	0.150375940	48
18	6.65	1996	4	3	248831.84	BEFORE	N	2	0.451127820	48
18	6.65	1996	5	2	258246.05	BEFORE	N	2	0.300751880	48
18	6.65	1996	6	1	253916.84	BEFORE	N	3	0.150375940	48
18	6.65	1996	7	2	257836.88	BEFORE	N	3	0.300751880	48
18	6.65	1996	8	5	255489.58	BEFORE	N	3	0.751879699	48
18	6.65	1996	9	3	246581.10	BEFORE	N	4	0.451127820	48
18	6.65	1996	10	5	249524.43	BEFORE	N	4	0.751879699	48
18	6.65	1996	11	0	234306.23	BEFORE	N	4	0.000000000	48
18	6.65	1996	12	0	242697.88	BEFORE	N	1	0.000000000	48
18	6.65	1997	1	1	221324.06	BEFORE	N	1	0.150375940	48
18	6.65	1997	2	2	206624.46	BEFORE	N	1	0.300751880	48
18	6.65	1997	3	2	242699.47	BEFORE	N	2	0.300751880	48
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18	6.65	1997	5	0	262368.34	BEFORE	N	2	0.000000000	48
18	6.65	1997	6	1	257970.03	BEFORE	N	3	0.150375940	48
18	6.65	1997	7	0	261952.65	BEFORE	N	3	0.000000000	48
18	6.65	1997	8	2	259567.88	BEFORE	N	3	0.300751880	48
18	6.65	1997	9	1	250517.19	BEFORE	N	4	0.150375940	48
18	6.65	1997	10	1	253507.50	BEFORE	N	4	0.150375940	48
18	6.65	1997	11	1	238046.38	BEFORE	N	4	0.150375940	48
18	6.65	1997	12	1	246571.98	BEFORE	N	1	0.150375940	48
18	6.65	1998	1	2	127642.28	AFTER	N	1	0.300751880	48
18	6.65	1998	2	1	119164.71	AFTER	N	1	0.150375940	48
18	6.65	1998	3	2	139969.94	AFTER	N	2	0.300751880	48
18	6.65	1998	4	1	145797.35	AFTER	N	2	0.150375940	48
18	6.65	1998	5	1	151313.39	AFTER	N	2	0.150375940	48
18	6.65	1998	6	1	148776.80	AFTER	N	3	0.150375940	48
18	6.65	1998	7	2	151073.65	AFTER	N	3	0.300751880	48
18	6.65	1998	8	0	149698.31	AFTER	N	3	0.000000000	48
18	6.65	1998	9	0	144478.58	AFTER	N	4	0.000000000	48
18	6.65	1998	10	2	146203.16	AFTER	N	4	0.300751880	48
18	6.65	1998	11	0	137286.40	AFTER	N	4	0.000000000	48
18	6.65	1998	12	4	142203.30	AFTER	N	1	0.601503759	48
18	6.65	1999	1	3	128262.55	AFTER	N	1	0.451127820	48
18	6.65	1999	2	2	119743.78	AFTER	N	1	0.300751880	48
18	6.65	1999	3	2	140650.10	AFTER	N	2	0.300751880	48
18	6.65	1999	4	2	146505.83	AFTER	N	2	0.300751880	48

18	6.65	1999	5	2	152048.68	AFTER	N	2	0.300751880	48
18	6.65	1999	6	5	149499.76	AFTER	N	3	0.751879699	48
18	6.65	1999	7	4	151807.78	AFTER	N	3	0.601503759	48
18	6.65	1999	8	1	150425.75	AFTER	N	3	0.150375940	48
18	6.65	1999	9	0	145180.66	AFTER	N	4	0.000000000	48
18	6.65	1999	10	2	146913.61	AFTER	N	4	0.300751880	48
18	6.65	1999	11	1	137953.53	AFTER	N	4	0.150375940	48
18	6.65	1999	12	3	142894.31	AFTER	N	1	0.451127820	48
18	6.64	2000	1	2	128074.45	AFTER	N	1	0.301204819	48
18	6.64	2000	2	1	123838.47	AFTER	N	1	0.150602410	48
18	6.64	2000	3	1	140443.84	AFTER	N	2	0.150602410	48
18	6.64	2000	4	0	146290.99	AFTER	N	2	0.000000000	48
18	6.64	2000	5	0	151825.71	AFTER	N	2	0.000000000	48
18	6.64	2000	6	1	149280.52	AFTER	N	3	0.150602410	48
18	6.64	2000	7	1	151585.16	AFTER	N	3	0.150602410	48
18	6.64	2000	8	1	150205.15	AFTER	N	3	0.150602410	48
18	6.64	2000	9	1	144967.76	AFTER	N	4	0.150602410	48
18	6.64	2000	10	3	146698.17	AFTER	N	4	0.451807229	48
18	6.64	2000	11	3	137751.22	AFTER	N	4	0.451807229	48
18	6.64	2000	12	2	142684.77	AFTER	N	1	0.301204819	48
18	6.64	2001	1	2	126289.89	AFTER	N	1	0.301204819	48
18	6.64	2001	2	3	117902.14	AFTER	N	1	0.451807229	48
18	6.64	2001	3	0	138486.93	AFTER	N	2	0.000000000	48
18	6.64	2001	4	2	144252.60	AFTER	N	2	0.301204819	48
18	6.64	2001	5	2	149710.20	AFTER	N	2	0.301204819	48
18	6.64	2001	6	3	147200.48	AFTER	N	3	0.451807229	48
18	6.64	2001	7	2	149473.00	AFTER	N	3	0.301204819	48
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18	6.64	2001	9	3	142947.80	AFTER	N	4	0.451807229	48
18	6.64	2001	10	5	144654.11	AFTER	N	4	0.753012048	48
18	6.64	2001	11	2	135831.83	AFTER	N	4	0.301204819	48
18	6.64	2001	12	2	140696.63	AFTER	N	1	0.301204819	48
18	6.64	2002	1	1	127884.46	AFTER	N	1	0.150602410	48
18	6.64	2002	2	2	119390.80	AFTER	N	1	0.301204819	48
18	6.64	2002	3	2	140235.49	AFTER	N	2	0.301204819	48
18	6.64	2002	4	1	146073.97	AFTER	N	2	0.150602410	48
18	6.64	2002	5	4	151600.47	AFTER	N	2	0.602409639	48
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18	6.62	2003	4	4	146303.22	AFTER	N	2	0.604229607	48
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19	5.86	1994	4	2	265692.27	BEFORE	Y	2	0.341296928	144
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19	5.86	1994	7	5	275307.48	BEFORE	Y	3	0.853242321	144
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21	3.2	2000	12	1	99057.67 BEFORE Y	1	0.312500000	144
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21	3.2	2003	3	0	107295.77	BEFORE	Y	2	0.000000000	144
21	3.2	2003	4	0	111762.85	BEFORE	Y	2	0.000000000	144
21	3.2	2003	5	0	115991.24	BEFORE	Y	2	0.000000000	144
21	3.2	2003	6	1	114046.78	BEFORE	Y	3	0.312500000	144
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21	3.2	2003	9	0	110751.93	BEFORE	Y	4	0.000000000	144
21	3.2	2003	10	0	112073.93	BEFORE	Y	4	0.000000000	144
21	3.2	2003	11	2	105238.67	BEFORE	Y	4	0.625000000	144
21	3.2	2003	12	0	109007.78	BEFORE	Y	1	0.000000000	144
21	3.2	2004	1	0	99751.85	BEFORE	Y	1	0.000000000	144
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21	3.2	2004	5	0	118250.71	BEFORE	Y	2	0.000000000	144
21	3.2	2004	6	0	116268.38	BEFORE	Y	3	0.000000000	144
21	3.2	2004	7	0	118063.36	BEFORE	Y	3	0.000000000	144
21	3.2	2004	8	0	116988.53	BEFORE	Y	3	0.000000000	144
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21	3.2	2004	10	0	114257.09	BEFORE	Y	4	0.000000000	144
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21	3.2	2005	5	0	118250.71	BEFORE	Y	2	0.000000000	144
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22	4.4	1994	3	0	126808.53	BEFORE	Y	2	0.000000000	144
22	4.4	1994	4	0	132087.99	BEFORE	Y	2	0.000000000	144
22	4.4	1994	5	0	137085.36	BEFORE	Y	2	0.000000000	144
22	4.4	1994	6	0	134787.28	BEFORE	Y	3	0.000000000	144
22	4.4	1994	7	0	136868.16	BEFORE	Y	3	0.000000000	144
22	4.4	1994	8	0	135622.14	BEFORE	Y	3	0.000000000	144
22	4.4	1994	9	0	130893.23	BEFORE	Y	4	0.000000000	144
22	4.4	1994	10	0	132455.64	BEFORE	Y	4	0.000000000	144
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22	4.4	1995	1	0	118393.16	BEFORE	Y	1	0.000000000	144
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22	4.4	1995	3	0	129827.53	BEFORE	Y	2	0.000000000	144
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22	4.4	1995	5	0	140349.03	BEFORE	Y	2	0.000000000	144
22	4.4	1995	6	0	137996.23	BEFORE	Y	3	0.000000000	144
22	4.4	1995	7	0	140126.66	BEFORE	Y	3	0.000000000	144
22	4.4	1995	8	0	138850.97	BEFORE	Y	3	0.000000000	144
22	4.4	1995	9	0	134009.48	BEFORE	Y	4	0.000000000	144
22	4.4	1995	10	0	135609.09	BEFORE	Y	4	0.000000000	144
22	4.4	1995	11	2	127338.45	BEFORE	Y	4	0.454545455	144
22	4.4	1995	12	0	131899.06	BEFORE	Y	1	0.000000000	144
22	4.4	1996	1	1	122514.38	BEFORE	Y	1	0.227272727	144
22	4.4	1996	2	0	118462.29	BEFORE	Y	1	0.000000000	144
22	4.4	1996	3	0	134346.78	BEFORE	Y	2	0.000000000	144
22	4.4	1996	4	0	139940.09	BEFORE	Y	2	0.000000000	144
22	4.4	1996	5	1	145234.53	BEFORE	Y	2	0.227272727	144
22	4.4	1996	6	1	142799.84	BEFORE	Y	3	0.227272727	144
22	4.4	1996	7	0	145004.42	BEFORE	Y	3	0.000000000	144
22	4.4	1996	8	1	143684.33	BEFORE	Y	3	0.227272727	144

22	4.4	1996	9	1	138674.30	BEFORE	Y	4	0.227272727	144
22	4.4	1996	10	1	140329.59	BEFORE	Y	4	0.227272727	144
22	4.4	1996	11	0	131771.06	BEFORE	Y	4	0.000000000	144
22	4.4	1996	12	0	136490.42	BEFORE	Y	1	0.000000000	144
22	4.4	1997	1	1	124470.04	BEFORE	Y	1	0.227272727	144
22	4.4	1997	2	1	116203.15	BEFORE	Y	1	0.227272727	144
22	4.4	1997	3	1	136491.31	BEFORE	Y	2	0.227272727	144
22	4.4	1997	4	1	142173.90	BEFORE	Y	2	0.227272727	144
22	4.4	1997	5	1	147552.86	BEFORE	Y	2	0.227272727	144
22	4.4	1997	6	0	145079.30	BEFORE	Y	3	0.000000000	144
22	4.4	1997	7	0	147319.08	BEFORE	Y	3	0.000000000	144
22	4.4	1997	8	0	145977.91	BEFORE	Y	3	0.000000000	144
22	4.4	1997	9	0	140887.91	BEFORE	Y	4	0.000000000	144
22	4.4	1997	10	0	142569.63	BEFORE	Y	4	0.000000000	144
22	4.4	1997	11	1	133874.47	BEFORE	Y	4	0.227272727	144
22	4.4	1997	12	0	138669.17	BEFORE	Y	1	0.000000000	144
22	4.4	1998	1	0	163957.63	BEFORE	Y	1	0.000000000	144
22	4.4	1998	2	1	153068.11	BEFORE	Y	1	0.227272727	144
22	4.4	1998	3	0	179792.61	BEFORE	Y	2	0.000000000	144
22	4.4	1998	4	0	187277.97	BEFORE	Y	2	0.000000000	144
22	4.4	1998	5	1	194363.38	BEFORE	Y	2	0.227272727	144
22	4.4	1998	6	0	191105.09	BEFORE	Y	3	0.000000000	144
22	4.4	1998	7	0	194055.43	BEFORE	Y	3	0.000000000	144
22	4.4	1998	8	1	192288.78	BEFORE	Y	3	0.227272727	144
22	4.4	1998	9	0	185584.00	BEFORE	Y	4	0.000000000	144
22	4.4	1998	10	0	187799.24	BEFORE	Y	4	0.000000000	144
22	4.4	1998	11	0	176345.58	BEFORE	Y	4	0.000000000	144
22	4.4	1998	12	0	182661.38	BEFORE	Y	1	0.000000000	144
22	4.4	1999	1	1	165619.08	BEFORE	Y	1	0.227272727	144
22	4.4	1999	2	0	154619.22	BEFORE	Y	1	0.000000000	144
22	4.4	1999	3	1	181614.52	BEFORE	Y	2	0.227272727	144
22	4.4	1999	4	0	189175.74	BEFORE	Y	2	0.000000000	144
22	4.4	1999	5	0	196332.94	BEFORE	Y	2	0.000000000	144
22	4.4	1999	6	1	193041.64	BEFORE	Y	3	0.227272727	144
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22	4.4	1999	9	1	187464.60	BEFORE	Y	4	0.227272727	144
22	4.4	1999	10	1	189702.29	BEFORE	Y	4	0.227272727	144
22	4.4	1999	11	0	178132.57	BEFORE	Y	4	0.000000000	144
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22	4.4	2000	1	0	161181.45	BEFORE	Y	1	0.000000000	144
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22	4.4	2000	3	0	176748.30	BEFORE	Y	2	0.000000000	144
22	4.4	2000	4	0	184106.93	BEFORE	Y	2	0.000000000	144
22	4.4	2000	5	1	191072.36	BEFORE	Y	2	0.227272727	144
22	4.4	2000	6	1	187869.25	BEFORE	Y	3	0.227272727	144
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22	4.4	2000	8	0	189032.89	BEFORE	Y	3	0.000000000	144
22	4.4	2000	9	1	182441.64	BEFORE	Y	4	0.227272727	144
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22	4.4	2001	3	0	177254.37	BEFORE	Y	2	0.000000000	144
22	4.4	2001	4	2	184634.06	BEFORE	Y	2	0.454545455	144
22	4.4	2001	5	1	191619.44	BEFORE	Y	2	0.227272727	144
22	4.4	2001	6	0	188407.15	BEFORE	Y	3	0.000000000	144
22	4.4	2001	7	1	191315.84	BEFORE	Y	3	0.227272727	144
22	4.4	2001	8	1	189574.13	BEFORE	Y	3	0.227272727	144
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22	4.4	2001	10	3	185147.97	BEFORE	Y	4	0.681818182	144
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22	4.4	2002	11	2	234919.82 BEFORE Y	4	0.454545455	144
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22	4.39	2004	4	0	168994.41 BEFORE Y	2	0.000000000	144
22	4.39	2004	5	2	175388.08 BEFORE Y	2	0.455580866	144
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22	4.39	2004	7	0	175110.20 BEFORE Y	3	0.000000000	144
22	4.39	2004	8	0	173516.03 BEFORE Y	3	0.000000000	144
22	4.39	2004	9	0	167465.82 BEFORE Y	4	0.000000000	144
22	4.39	2004	10	0	169464.79 BEFORE Y	4	0.000000000	144
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23	4.27	1994	2	0	99863.62 BEFORE Y	1	0.000000000	144
23	4.27	1994	3	0	117299.03 BEFORE Y	2	0.000000000	144
23	4.27	1994	4	1	122182.58 BEFORE Y	2	0.234192037	144
23	4.27	1994	5	1	126805.19 BEFORE Y	2	0.234192037	144
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23	4.27	1994	7	0	126604.28 BEFORE Y	3	0.000000000	144
23	4.27	1994	8	0	125451.70 BEFORE Y	3	0.000000000	144
23	4.27	1994	9	0	121077.41 BEFORE Y	4	0.000000000	144
23	4.27	1994	10	0	122522.66 BEFORE Y	4	0.000000000	144
23	4.27	1994	11	0	115050.15 BEFORE Y	4	0.000000000	144
23	4.27	1994	12	0	119170.65 BEFORE Y	1	0.000000000	144
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23	4.27	1995	3	0	120091.63 BEFORE Y	2	0.000000000	144
23	4.27	1995	4	1	125091.45 BEFORE Y	2	0.234192037	144
23	4.27	1995	5	0	129824.11 BEFORE Y	2	0.000000000	144
23	4.27	1995	6	0	127647.76 BEFORE Y	3	0.000000000	144
23	4.27	1995	7	0	129618.42 BEFORE Y	3	0.000000000	144
23	4.27	1995	8	0	128438.40 BEFORE Y	3	0.000000000	144
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23	4.27	1995	10	0	125439.63 BEFORE Y	4	0.000000000	144
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23	4.27	1996	3	0	124271.98 BEFORE	Y	2	0.000000000	144
23	4.27	1996	4	0	129445.84 BEFORE	Y	2	0.000000000	144
23	4.27	1996	5	0	134343.24 BEFORE	Y	2	0.000000000	144
23	4.27	1996	6	0	132091.13 BEFORE	Y	3	0.000000000	144
23	4.27	1996	7	0	134130.39 BEFORE	Y	3	0.000000000	144
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23	4.27	1996	9	2	128274.97 BEFORE	Y	4	0.468384075	144
23	4.27	1996	10	0	129806.13 BEFORE	Y	4	0.000000000	144
23	4.27	1996	11	0	121889.41 BEFORE	Y	4	0.000000000	144
23	4.27	1996	12	0	126254.87 BEFORE	Y	1	0.000000000	144
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23	4.27	1997	5	0	136487.72 BEFORE	Y	2	0.000000000	144
23	4.27	1997	6	0	134199.66 BEFORE	Y	3	0.000000000	144
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23	4.27	1997	12	0	128270.23 BEFORE	Y	1	0.000000000	144
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23	4.27	1998	2	0	115709.98 BEFORE	Y	1	0.000000000	144
23	4.27	1998	3	0	135912.03 BEFORE	Y	2	0.000000000	144
23	4.27	1998	4	0	141570.51 BEFORE	Y	2	0.000000000	144
23	4.27	1998	5	1	146926.63 BEFORE	Y	2	0.234192037	144
23	4.27	1998	6	0	144463.57 BEFORE	Y	3	0.000000000	144
23	4.27	1998	7	0	146693.84 BEFORE	Y	3	0.000000000	144
23	4.27	1998	8	0	145358.37 BEFORE	Y	3	0.000000000	144
23	4.27	1998	9	0	140289.97 BEFORE	Y	4	0.000000000	144
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23	4.27	1998	11	0	133306.30 BEFORE	Y	4	0.000000000	144
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23	4.27	1999	3	0	127361.05 BEFORE	Y	2	0.000000000	144
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23	4.27	1999	5	0	137682.66 BEFORE	Y	2	0.000000000	144
23	4.27	1999	6	0	135374.57 BEFORE	Y	3	0.000000000	144
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23	4.27	2000	3	0	125266.96 BEFORE	Y	2	0.000000000	144
23	4.27	2000	4	0	130482.25 BEFORE	Y	2	0.000000000	144
23	4.27	2000	5	0	135418.86 BEFORE	Y	2	0.000000000	144
23	4.27	2000	6	0	133148.72 BEFORE	Y	3	0.000000000	144
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23	4.27	2002	4	0	138923.25 BEFORE Y	2	0.000000000	144
23	4.27	2002	5	0	144179.21 BEFORE Y	2	0.000000000	144
23	4.27	2002	6	0	141762.21 BEFORE Y	3	0.000000000	144
23	4.27	2002	7	0	143950.78 BEFORE Y	3	0.000000000	144
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23	4.27	2002	9	0	137666.65 BEFORE Y	4	0.000000000	144
23	4.27	2002	10	0	139309.92 BEFORE Y	4	0.000000000	144
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23	4.27	2004	5	1	151316.29 BEFORE Y	2	0.234192037	144
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23	4.27	2004	8	0	149701.17 BEFORE Y	3	0.000000000	144
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23	4.27	2004	10	0	146205.96 BEFORE Y	4	0.000000000	144
23	4.27	2004	11	0	137289.03 BEFORE Y	4	0.000000000	144
23	4.27	2004	12	0	142206.02 BEFORE Y	1	0.000000000	144
23	4.27	2005	1	0	127644.73 BEFORE Y	1	0.000000000	144
23	4.27	2005	2	0	123422.96 BEFORE Y	1	0.000000000	144
23	4.27	2005	3	0	139972.62 BEFORE Y	2	0.000000000	144
23	4.27	2005	4	0	145800.15 BEFORE Y	2	0.000000000	144
23	4.27	2005	5	0	151316.29 BEFORE Y	2	0.000000000	144
23	4.27	2005	6	0	148779.65 BEFORE Y	3	0.000000000	144
23	4.27	2005	7	0	151076.55 BEFORE Y	3	0.000000000	144
23	4.27	2005	8	0	149701.17 BEFORE Y	3	0.000000000	144
23	4.27	2005	9	0	144481.35 BEFORE Y	4	0.000000000	144
23	4.27	2005	10	0	146205.96 BEFORE Y	4	0.000000000	144
23	4.27	2005	11	0	137289.03 BEFORE Y	4	0.000000000	144
23	4.27	2005	12	1	142206.02 BEFORE Y	1	0.234192037	144

APPENDIX H. SUM CITIZEN DATA

SID	LENGTH	YEAR	MONTH	CRASH_SITE	MADT	PERIOD	CONTROL	SEASON	COMPLETE	CRT
1	10.9	1994	1	16	347197.52	BEFORE	N	1	84	1.467889908
1	10.9	1994	2	18	324137.82	BEFORE	N	1	84	1.651376147
1	10.9	1994	3	8	380729.75	BEFORE	N	2	84	0.733944954
1	10.9	1994	4	7	396580.80	BEFORE	N	2	84	0.642201835
1	10.9	1994	5	8	411584.88	BEFORE	N	2	84	0.733944954
1	10.9	1994	6	11	404685.13	BEFORE	N	3	84	1.009174312
1	10.9	1994	7	9	410932.77	BEFORE	N	3	84	0.825688073
1	10.9	1994	8	10	407191.72	BEFORE	N	3	84	0.917431193
1	10.9	1994	9	10	392993.64	BEFORE	N	4	84	0.917431193
1	10.9	1994	10	13	397684.63	BEFORE	N	4	84	1.19266055
1	10.9	1994	11	9	373430.31	BEFORE	N	4	84	0.825688073
1	10.9	1994	12	9	386804.67	BEFORE	N	1	84	0.825688073
1	10.9	1995	1	6	355463.45	BEFORE	N	1	84	0.550458716
1	10.9	1995	2	4	331854.76	BEFORE	N	1	84	0.366972477
1	10.9	1995	3	8	389794.00	BEFORE	N	2	84	0.733944954
1	10.9	1995	4	3	406022.43	BEFORE	N	2	84	0.275229358
1	10.9	1995	5	10	421383.72	BEFORE	N	2	84	0.917431193
1	10.9	1995	6	4	414319.70	BEFORE	N	3	84	0.366972477
1	10.9	1995	7	10	420716.08	BEFORE	N	3	84	0.917431193
1	10.9	1995	8	4	416885.96	BEFORE	N	3	84	0.366972477
1	10.9	1995	9	7	402349.86	BEFORE	N	4	84	0.642201835
1	10.9	1995	10	16	407152.53	BEFORE	N	4	84	1.467889908
1	10.9	1995	11	10	382320.78	BEFORE	N	4	84	0.917431193
1	10.9	1995	12	11	396013.55	BEFORE	N	1	84	1.009174312
1	10.9	1996	1	13	367837.01	BEFORE	N	1	84	1.19266055
1	10.9	1996	2	9	355671.02	BEFORE	N	1	84	0.825688073
1	10.9	1996	3	9	403362.59	BEFORE	N	2	84	0.825688073
1	10.9	1996	4	8	420155.92	BEFORE	N	2	84	0.733944954
1	10.9	1996	5	9	436051.94	BEFORE	N	2	84	0.825688073
1	10.9	1996	6	11	428742.02	BEFORE	N	3	84	1.009174312
1	10.9	1996	7	9	435361.06	BEFORE	N	3	84	0.825688073
1	10.9	1996	8	8	431397.62	BEFORE	N	3	84	0.733944954
1	10.9	1996	9	6	416355.52	BEFORE	N	4	84	0.550458716
1	10.9	1996	10	13	421325.37	BEFORE	N	4	84	1.19266055
1	10.9	1996	11	9	395629.23	BEFORE	N	4	84	0.825688073
1	10.9	1996	12	13	409798.65	BEFORE	N	1	84	1.19266055
1	10.9	1997	1	10	373708.67	BEFORE	N	1	84	0.917431193
1	10.9	1997	2	7	348888.19	BEFORE	N	1	84	0.642201835
1	10.9	1997	3	5	409801.33	BEFORE	N	2	84	0.458715596
1	10.9	1997	4	7	426862.73	BEFORE	N	2	84	0.642201835
1	10.9	1997	5	5	443012.49	BEFORE	N	2	84	0.458715596
1	10.9	1997	6	10	435585.89	BEFORE	N	3	84	0.917431193
1	10.9	1997	7	7	442310.59	BEFORE	N	3	84	0.642201835
1	10.9	1997	8	4	438283.87	BEFORE	N	3	84	0.366972477
1	10.9	1997	9	8	423001.66	BEFORE	N	4	84	0.733944954
1	10.9	1997	10	2	428050.85	BEFORE	N	4	84	0.183486239
1	10.9	1997	11	10	401944.53	BEFORE	N	4	84	0.917431193
1	10.9	1997	12	7	416340.12	BEFORE	N	1	84	0.642201835
1	10.9	1998	1	5	387447.51	BEFORE	N	1	84	0.458715596
1	10.9	1998	2	7	361714.54	BEFORE	N	1	84	0.642201835
1	10.9	1998	3	6	424867.07	BEFORE	N	2	84	0.550458716
1	10.9	1998	4	6	442555.71	BEFORE	N	2	84	0.550458716
1	10.9	1998	5	11	459299.19	BEFORE	N	2	84	1.009174312
1	10.9	1998	6	8	451599.56	BEFORE	N	3	84	0.733944954
1	10.9	1998	7	7	458571.48	BEFORE	N	3	84	0.642201835
1	10.9	1998	8	6	454396.73	BEFORE	N	3	84	0.550458716
1	10.9	1998	9	9	438552.69	BEFORE	N	4	84	0.825688073
1	10.9	1998	10	9	443787.50	BEFORE	N	4	84	0.825688073
1	10.9	1998	11	11	416721.43	BEFORE	N	4	84	1.009174312
1	10.9	1998	12	9	431646.25	BEFORE	N	1	84	0.825688073
1	10.9	1999	1	14	367550.91	BEFORE	N	1	84	1.28440367
1	10.9	1999	2	8	343139.40	BEFORE	N	1	84	0.733944954
1	10.9	1999	3	6	403048.86	BEFORE	N	2	84	0.550458716
1	10.9	1999	4	12	419829.13	BEFORE	N	2	84	1.100917431

1	10.9	1999	5	6	435712.78 BEFORE	N	2	84	0.550458716
1	10.9	1999	6	10	428408.55 BEFORE	N	3	84	0.917431193
1	10.9	1999	7	7	435022.44 BEFORE	N	3	84	0.642201835
1	10.9	1999	8	10	431062.08 BEFORE	N	3	84	0.917431193
1	10.9	1999	9	7	416031.68 BEFORE	N	4	84	0.642201835
1	10.9	1999	10	13	420997.66 BEFORE	N	4	84	1.19266055
1	10.9	1999	11	8	395321.52 BEFORE	N	4	84	0.733944954
1	10.9	1999	12	8	409479.91 BEFORE	N	1	84	0.733944954
1	11	2000	1	11	350906.67 BEFORE	N	1	84	1
1	11	2000	2	11	339300.64 BEFORE	N	1	84	1
1	11	2000	3	7	384797.12 BEFORE	N	2	84	0.636363636
1	11	2000	4	3	400817.51 BEFORE	N	2	84	0.272727273
1	11	2000	5	7	415981.89 BEFORE	N	2	84	0.636363636
1	11	2000	6	12	409008.42 BEFORE	N	3	84	1.090909091
1	11	2000	7	6	415322.81 BEFORE	N	3	84	0.545454545
1	11	2000	8	6	411541.79 BEFORE	N	3	84	0.545454545
1	11	2000	9	5	397192.03 BEFORE	N	4	84	0.454545455
1	11	2000	10	6	401933.13 BEFORE	N	4	84	0.545454545
1	11	2000	11	10	377419.71 BEFORE	N	4	84	0.909090909
1	11	2000	12	6	390936.95 BEFORE	N	1	84	0.545454545
1	20.5	2001	1	9	214330.35 AFTER	N	1	84	0.43902439
1	20.5	2001	2	13	200095.24 AFTER	N	1	84	0.634146341
1	20.5	2001	3	7	235030.31 AFTER	N	2	84	0.341463415
1	20.5	2001	4	7	244815.40 AFTER	N	2	84	0.341463415
1	20.5	2001	5	6	254077.66 AFTER	N	2	84	0.292682927
1	20.5	2001	6	5	249818.33 AFTER	N	3	84	0.243902439
1	20.5	2001	7	3	253675.10 AFTER	N	3	84	0.146341463
1	20.5	2001	8	7	251365.69 AFTER	N	3	84	0.341463415
1	20.5	2001	9	8	242600.99 AFTER	N	4	84	0.390243902
1	20.5	2001	10	3	245496.81 AFTER	N	4	84	0.146341463
1	20.5	2001	11	3	230524.25 AFTER	N	4	84	0.146341463
1	20.5	2001	12	3	238780.45 AFTER	N	1	84	0.146341463
1	20.6	2002	1	5	215524.04 AFTER	N	1	84	0.242718447
1	20.6	2002	2	3	201209.65 AFTER	N	1	84	0.145631068
1	20.6	2002	3	8	236339.28 AFTER	N	2	84	0.388349515
1	20.6	2002	4	7	246178.87 AFTER	N	2	84	0.339805825
1	20.6	2002	5	4	255492.71 AFTER	N	2	84	0.194174757
1	20.6	2002	6	3	251209.66 AFTER	N	3	84	0.145631068
1	20.6	2002	7	4	255087.91 AFTER	N	3	84	0.194174757
1	20.6	2002	8	5	252765.63 AFTER	N	3	84	0.242718447
1	20.6	2002	9	5	243952.13 AFTER	N	4	84	0.242718447
1	20.6	2002	10	12	246864.08 AFTER	N	4	84	0.582524272
1	20.6	2002	11	14	231808.13 AFTER	N	4	84	0.67961165
1	20.6	2002	12	8	240110.31 AFTER	N	1	84	0.388349515
1	20.8	2003	1	6	241017.14 AFTER	N	1	84	0.288461538
1	20.8	2003	2	4	225009.59 AFTER	N	1	84	0.192307692
1	20.8	2003	3	6	264294.50 AFTER	N	2	84	0.288461538
1	20.8	2003	4	6	275297.97 AFTER	N	2	84	0.288461538
1	20.8	2003	5	5	285713.48 AFTER	N	2	84	0.240384615
1	20.8	2003	6	9	280923.82 AFTER	N	3	84	0.432692308
1	20.8	2003	7	11	285260.80 AFTER	N	3	84	0.528846154
1	20.8	2003	8	5	282663.84 AFTER	N	3	84	0.240384615
1	20.8	2003	9	6	272807.83 AFTER	N	4	84	0.288461538
1	20.8	2003	10	3	276064.22 AFTER	N	4	84	0.144230769
1	20.8	2003	11	12	259227.39 AFTER	N	4	84	0.576923077
1	20.8	2003	12	3	268511.59 AFTER	N	1	84	0.144230769
1	20.8	2004	1	11	244613.95 AFTER	N	1	84	0.528846154
1	20.8	2004	2	5	236523.49 AFTER	N	1	84	0.240384615
1	20.8	2004	3	8	268238.68 AFTER	N	2	84	0.384615385
1	20.8	2004	4	0	279406.36 AFTER	N	2	84	0
1	20.8	2004	5	5	289977.31 AFTER	N	2	84	0.240384615
1	20.8	2004	6	6	285116.17 AFTER	N	3	84	0.288461538
1	20.8	2004	7	3	289517.87 AFTER	N	3	84	0.144230769
1	20.8	2004	8	5	286882.16 AFTER	N	3	84	0.240384615
1	20.8	2004	9	5	276879.06 AFTER	N	4	84	0.240384615
1	20.8	2004	10	6	280184.05 AFTER	N	4	84	0.288461538
1	20.8	2004	11	7	263095.95 AFTER	N	4	84	0.336538462
1	20.8	2004	12	7	272518.70 AFTER	N	1	84	0.336538462

1	20.7	2005	1	4	245571.84	AFTER	N	1	84	0.193236715
1	20.7	2005	2	8	229261.78	AFTER	N	1	84	0.38647343
1	20.7	2005	3	3	269289.09	AFTER	N	2	84	0.144927536
1	20.7	2005	4	3	280500.50	AFTER	N	2	84	0.144927536
1	20.7	2005	5	8	291112.85	AFTER	N	2	84	0.38647343
1	20.7	2005	6	2	286232.67	AFTER	N	3	84	0.096618357
1	20.7	2005	7	2	290651.61	AFTER	N	3	84	0.096618357
1	20.7	2005	8	9	288005.57	AFTER	N	3	84	0.434782609
1	20.7	2005	9	8	277963.31	AFTER	N	4	84	0.38647343
1	20.7	2005	10	11	281281.23	AFTER	N	4	84	0.531400966
1	20.7	2005	11	10	264126.22	AFTER	N	4	84	0.483091787
1	20.7	2005	12	10	273585.87	AFTER	N	1	84	0.483091787
2	5.22	1994	1	0	92882.82	BEFORE	N	1	120	0
2	5.22	1994	2	0	86713.85	BEFORE	N	1	120	0
2	5.22	1994	3	0	101853.41	BEFORE	N	2	120	0
2	5.22	1994	4	0	106093.91	BEFORE	N	2	120	0
2	5.22	1994	5	1	110107.82	BEFORE	N	2	120	0.191570881
2	5.22	1994	6	1	108261.99	BEFORE	N	3	120	0.191570881
2	5.22	1994	7	0	109933.37	BEFORE	N	3	120	0
2	5.22	1994	8	1	108932.56	BEFORE	N	3	120	0.191570881
2	5.22	1994	9	2	105134.26	BEFORE	N	4	120	0.383141762
2	5.22	1994	10	1	106389.21	BEFORE	N	4	120	0.191570881
2	5.22	1994	11	1	99900.65	BEFORE	N	4	120	0.191570881
2	5.22	1994	12	0	103478.58	BEFORE	N	1	120	0
2	5.22	1995	1	0	95094.13	BEFORE	N	1	120	0
2	5.22	1995	2	1	88778.30	BEFORE	N	1	120	0.191570881
2	5.22	1995	3	1	104278.29	BEFORE	N	2	120	0.191570881
2	5.22	1995	4	0	108619.75	BEFORE	N	2	120	0
2	5.22	1995	5	0	112729.22	BEFORE	N	2	120	0
2	5.22	1995	6	0	110839.45	BEFORE	N	3	120	0
2	5.22	1995	7	0	112550.62	BEFORE	N	3	120	0
2	5.22	1995	8	0	111525.98	BEFORE	N	3	120	0
2	5.22	1995	9	0	107637.26	BEFORE	N	4	120	0
2	5.22	1995	10	0	108922.07	BEFORE	N	4	120	0
2	5.22	1995	11	0	102279.05	BEFORE	N	4	120	0
2	5.22	1995	12	4	105942.16	BEFORE	N	1	120	0.766283525
2	5.22	1996	1	0	98404.32	BEFORE	N	1	120	0
2	5.22	1996	2	0	95149.66	BEFORE	N	1	120	0
2	5.22	1996	3	0	107908.18	BEFORE	N	2	120	0
2	5.22	1996	4	0	112400.76	BEFORE	N	2	120	0
2	5.22	1996	5	0	116653.29	BEFORE	N	2	120	0
2	5.22	1996	6	0	114697.73	BEFORE	N	3	120	0
2	5.22	1996	7	0	116468.46	BEFORE	N	3	120	0
2	5.22	1996	8	0	115408.16	BEFORE	N	3	120	0
2	5.22	1996	9	0	111384.07	BEFORE	N	4	120	0
2	5.22	1996	10	0	112713.61	BEFORE	N	4	120	0
2	5.22	1996	11	0	105839.34	BEFORE	N	4	120	0
2	5.22	1996	12	0	109629.97	BEFORE	N	1	120	0
2	5.22	1997	1	0	99975.12	BEFORE	N	1	120	0
2	5.22	1997	2	1	93335.11	BEFORE	N	1	120	0.191570881
2	5.22	1997	3	0	109630.68	BEFORE	N	2	120	0
2	5.22	1997	4	0	114194.98	BEFORE	N	2	120	0
2	5.22	1997	5	0	118515.39	BEFORE	N	2	120	0
2	5.22	1997	6	2	116528.61	BEFORE	N	3	120	0.383141762
2	5.22	1997	7	0	118327.61	BEFORE	N	3	120	0
2	5.22	1997	8	0	117250.38	BEFORE	N	3	120	0
2	5.22	1997	9	2	113162.06	BEFORE	N	4	120	0.383141762
2	5.22	1997	10	0	114512.82	BEFORE	N	4	120	0
2	5.22	1997	11	0	107528.82	BEFORE	N	4	120	0
2	5.22	1997	12	0	111379.95	BEFORE	N	1	120	0
2	5.22	1998	1	1	106675.95	BEFORE	N	1	120	0.191570881
2	5.22	1998	2	0	99590.89	BEFORE	N	1	120	0
2	5.22	1998	3	0	116978.68	BEFORE	N	2	120	0
2	5.22	1998	4	0	121848.89	BEFORE	N	2	120	0
2	5.22	1998	5	0	126458.87	BEFORE	N	2	120	0
2	5.22	1998	6	1	124338.93	BEFORE	N	3	120	0.191570881
2	5.22	1998	7	0	126258.51	BEFORE	N	3	120	0
2	5.22	1998	8	0	125109.08	BEFORE	N	3	120	0

2	5.22	1998	9	0	120746.74 BEFORE	N	4	120	0
2	5.22	1998	10	0	122188.04 BEFORE	N	4	120	0
2	5.22	1998	11	0	114735.93 BEFORE	N	4	120	0
2	5.22	1998	12	1	118845.19 BEFORE	N	1	120	0.191570881
2	5.22	1999	1	1	105033.89 BEFORE	N	1	120	0.191570881
2	5.22	1999	2	0	98057.89 BEFORE	N	1	120	0
2	5.22	1999	3	0	115178.03 BEFORE	N	2	120	0
2	5.22	1999	4	0	119973.27 BEFORE	N	2	120	0
2	5.22	1999	5	0	124512.29 BEFORE	N	2	120	0
2	5.22	1999	6	1	122424.99 BEFORE	N	3	120	0.191570881
2	5.22	1999	7	1	124315.02 BEFORE	N	3	120	0.191570881
2	5.22	1999	8	0	123183.28 BEFORE	N	3	120	0
2	5.22	1999	9	1	118888.09 BEFORE	N	4	120	0.191570881
2	5.22	1999	10	0	120307.20 BEFORE	N	4	120	0
2	5.22	1999	11	0	112969.81 BEFORE	N	4	120	0
2	5.22	1999	12	0	117015.81 BEFORE	N	1	120	0
2	5.22	2000	1	0	102618.38 BEFORE	N	1	120	0
2	5.22	2000	2	0	99224.34 BEFORE	N	1	120	0
2	5.22	2000	3	0	112529.23 BEFORE	N	2	120	0
2	5.22	2000	4	0	117214.20 BEFORE	N	2	120	0
2	5.22	2000	5	1	121648.83 BEFORE	N	2	120	0.191570881
2	5.22	2000	6	0	119609.53 BEFORE	N	3	120	0
2	5.22	2000	7	0	121456.10 BEFORE	N	3	120	0
2	5.22	2000	8	0	120350.38 BEFORE	N	3	120	0
2	5.22	2000	9	0	116153.97 BEFORE	N	4	120	0
2	5.22	2000	10	0	117540.45 BEFORE	N	4	120	0
2	5.22	2000	11	0	110371.79 BEFORE	N	4	120	0
2	5.22	2000	12	0	114324.75 BEFORE	N	1	120	0
2	5.22	2001	1	0	103643.57 BEFORE	N	1	120	0
2	5.22	2001	2	0	96759.91 BEFORE	N	1	120	0
2	5.22	2001	3	1	113653.43 BEFORE	N	2	120	0.191570881
2	5.22	2001	4	0	118385.21 BEFORE	N	2	120	0
2	5.22	2001	5	0	122864.15 BEFORE	N	2	120	0
2	5.22	2001	6	0	120804.47 BEFORE	N	3	120	0
2	5.22	2001	7	0	122669.48 BEFORE	N	3	120	0
2	5.22	2001	8	0	121552.72 BEFORE	N	3	120	0
2	5.22	2001	9	0	117314.39 BEFORE	N	4	120	0
2	5.22	2001	10	0	118714.72 BEFORE	N	4	120	0
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13	9.07	2002	2	6	356151.23 AFTER	N	1	48	0.661521499
13	9.07	2002	3	7	418332.45 AFTER	N	2	48	0.771775083
13	9.07	2002	4	8	435749.03 AFTER	N	2	48	0.882028666
13	9.07	2002	5	11	452234.99 AFTER	N	2	48	1.212789416
13	9.07	2002	6	5	444653.78 AFTER	N	3	48	0.551267916
13	9.07	2002	7	14	451518.47 AFTER	N	3	48	1.543550165
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13	9.07	2002	11	12	410312.09	AFTER	N	4	48	1.323042999
13	9.07	2002	12	13	425007.36	AFTER	N	1	48	1.433296582
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14	7.69	1994	3	5	160554.27	BEFORE	N	2	60	0.650195059
14	7.69	1994	4	2	167238.69	BEFORE	N	2	60	0.260078023
14	7.69	1994	5	4	173565.93	BEFORE	N	2	60	0.520156047
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14	7.69	1994	12	5	163116.08	BEFORE	N	1	60	0.650195059
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14	7.69	1995	2	1	139943.62	BEFORE	N	1	60	0.130039012
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17	2.02	1994	4	0	72659.07	BEFORE	N	2	24	0

17	2.02	1994	5	0	75408.03	BEFORE	N	2	24	0
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17	2.02	1994	11	0	68417.59	BEFORE	N	4	24	0
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17	2.02	1995	11	1	70046.44	BEFORE	N	4	24	0.495049505
17	2.02	1995	12	1	72555.15	BEFORE	N	1	24	0.495049505
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17	5.8	1996	2	1	75740.35	AFTER	N	1	24	0.172413793
17	5.8	1996	3	0	85896.29	AFTER	N	2	24	0
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17	5.8	1997	4	1	90900.66	AFTER	N	2	24	0.172413793
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17	5.8	1998	3	0	81037.30	AFTER	N	2	24	0
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17	5.8	2000	12	1	81430.06	AFTER	N	1	24	0.172413793
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17	5.57	2005	2	3	79726.59	AFTER	N	1	24	0.538599641
17	5.57	2005	3	1	93646.23	AFTER	N	2	24	0.179533214
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18	6.65	1994	2	6	191966.38	BEFORE	N	1	48	0.902255639
18	6.65	1994	3	1	225482.20	BEFORE	N	2	48	0.15037594
18	6.65	1994	4	6	234869.78	BEFORE	N	2	48	0.902255639
18	6.65	1994	5	4	243755.75	BEFORE	N	2	48	0.601503759
18	6.65	1994	6	2	239669.47	BEFORE	N	3	48	0.30075188
18	6.65	1994	7	2	243369.55	BEFORE	N	3	48	0.30075188
18	6.65	1994	8	3	241153.96	BEFORE	N	3	48	0.45112782
18	6.65	1994	9	3	232745.33	BEFORE	N	4	48	0.45112782
18	6.65	1994	10	4	235523.51	BEFORE	N	4	48	0.601503759
18	6.65	1994	11	3	221159.21	BEFORE	N	4	48	0.45112782
18	6.65	1994	12	4	229080.00	BEFORE	N	1	48	0.601503759
18	6.65	1995	1	3	210518.57	BEFORE	N	1	48	0.45112782
18	6.65	1995	2	1	196536.63	BEFORE	N	1	48	0.15037594
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18	6.65	1995	4	2	240461.46	BEFORE	N	2	48	0.30075188
18	6.65	1995	5	1	249558.99	BEFORE	N	2	48	0.15037594
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18	6.65	1995	8	4	246895.25	BEFORE	N	3	48	0.601503759
18	6.65	1995	9	2	238286.43	BEFORE	N	4	48	0.30075188
18	6.65	1995	10	1	241130.75	BEFORE	N	4	48	0.15037594
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18	6.65	1996	1	3	217846.65	BEFORE	N	1	48	0.45112782
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18	6.65	1996	3	1	238886.21	BEFORE	N	2	48	0.15037594
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18	6.65	1997	6	1	257970.03	BEFORE	N	3	48	0.15037594
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18	15.5	1998	3	2	135616.85	AFTER	N	2	48	0.129032258
18	15.5	1998	4	2	141263.04	AFTER	N	2	48	0.129032258
18	15.5	1998	5	3	146607.53	AFTER	N	2	48	0.193548387
18	15.5	1998	6	1	144149.82	AFTER	N	3	48	0.064516129
18	15.5	1998	7	2	146375.25	AFTER	N	3	48	0.129032258
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18	15.5	1998	11	2	133016.78	AFTER	N	4	48	0.129032258
18	15.5	1998	12	4	137780.76	AFTER	N	1	48	0.258064516
18	15.5	1999	1	3	124583.13	AFTER	N	1	48	0.193548387
18	15.5	1999	2	2	116308.74	AFTER	N	1	48	0.129032258
18	15.5	1999	3	3	136615.33	AFTER	N	2	48	0.193548387
18	15.5	1999	4	3	142303.09	AFTER	N	2	48	0.193548387

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18	15.5	1999	6	5	145211.12	AFTER	N	3	48	0.322580645
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18	15.5	2000	1	3	121871.87	AFTER	N	1	48	0.193548387
18	15.5	2000	2	1	117841.03	AFTER	N	1	48	0.064516129
18	15.5	2000	3	2	133642.21	AFTER	N	2	48	0.129032258
18	15.5	2000	4	0	139206.18	AFTER	N	2	48	0
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18	15.5	2000	6	1	142050.93	AFTER	N	3	48	0.064516129
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18	15.5	2000	8	1	142930.79	AFTER	N	3	48	0.064516129
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18	15.5	2000	11	3	131079.99	AFTER	N	4	48	0.193548387
18	15.5	2000	12	3	135774.61	AFTER	N	1	48	0.193548387
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18	15.6	2001	5	3	175142.69	AFTER	N	2	48	0.192307692
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18	15.6	2001	7	2	174865.19	AFTER	N	3	48	0.128205128
18	15.6	2001	8	0	173273.25	AFTER	N	3	48	0
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18	15.6	2001	10	5	169227.68	AFTER	N	4	48	0.320512821
18	15.6	2001	11	2	158906.68	AFTER	N	4	48	0.128205128
18	15.6	2001	12	2	164597.90	AFTER	N	1	48	0.128205128
18	15.6	2002	1	1	150917.17	AFTER	N	1	48	0.064102564
18	15.6	2002	2	2	140893.75	AFTER	N	1	48	0.128205128
18	15.6	2002	3	2	165492.70	AFTER	N	2	48	0.128205128
18	15.6	2002	4	1	172382.72	AFTER	N	2	48	0.064102564
18	15.6	2002	5	4	178904.58	AFTER	N	2	48	0.256410256
18	15.6	2002	6	2	175905.44	AFTER	N	3	48	0.128205128
18	15.6	2002	7	1	178621.12	AFTER	N	3	48	0.064102564
18	15.6	2002	8	0	176994.99	AFTER	N	3	48	0
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18	15.6	2003	2	1	140598.42	AFTER	N	1	48	0.064102564
18	15.6	2003	3	2	165145.80	AFTER	N	2	48	0.128205128
18	15.6	2003	4	5	172021.37	AFTER	N	2	48	0.320512821
18	15.6	2003	5	3	178529.56	AFTER	N	2	48	0.192307692
18	15.6	2003	6	5	175536.72	AFTER	N	3	48	0.320512821
18	15.6	2003	7	1	178246.70	AFTER	N	3	48	0.064102564
18	15.6	2003	8	3	176623.97	AFTER	N	3	48	0.192307692
18	15.6	2003	9	4	170465.40	AFTER	N	4	48	0.256410256
18	15.6	2003	10	2	172500.17	AFTER	N	4	48	0.128205128
18	15.6	2003	11	3	161979.59	AFTER	N	4	48	0.192307692
18	15.6	2003	12	2	167780.87	AFTER	N	1	48	0.128205128
18	15.6	2004	1	1	152817.28	AFTER	N	1	48	0.064102564
18	15.6	2004	2	3	147762.94	AFTER	N	1	48	0.192307692
18	15.6	2004	3	4	167576.32	AFTER	N	2	48	0.256410256
18	15.6	2004	4	3	174553.09	AFTER	N	2	48	0.192307692
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18	15.4	2005	3	0	128188.99	AFTER	N	2	48	0
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18	15.4	2005	10	2	133897.58	AFTER	N	4	48	0.12987013
18	15.4	2005	11	3	125731.33	AFTER	N	4	48	0.194805195
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19	5.86	1994	3	4	255072.74	BEFORE	Y	2	144	0.682593857
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19	5.86	1994	5	5	275744.37	BEFORE	Y	2	144	0.853242321
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19	5.86	1994	7	5	275307.48	BEFORE	Y	3	144	0.853242321
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19	5.86	1995	6	5	277576.58	BEFORE	Y	3	144	0.853242321
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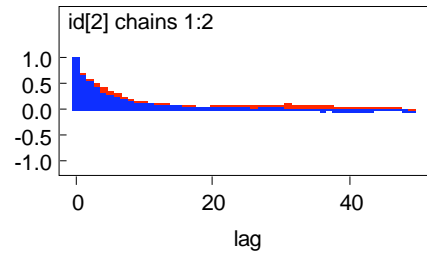
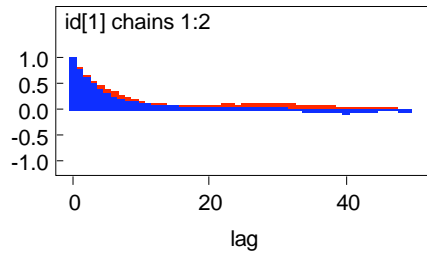
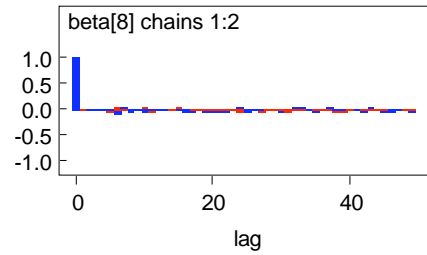
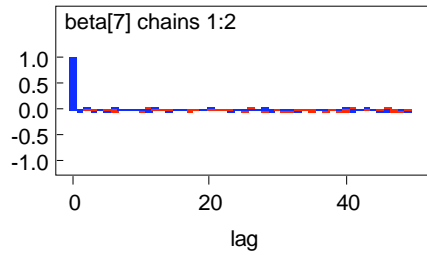
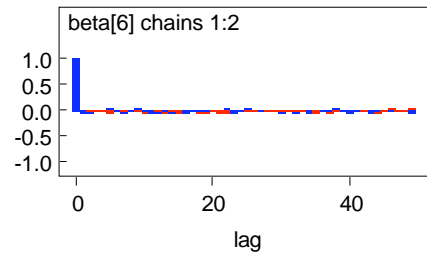
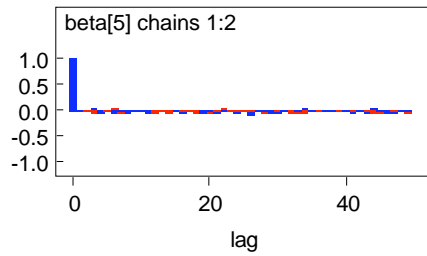
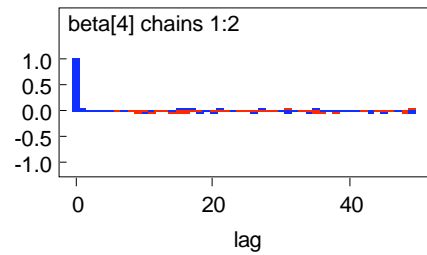
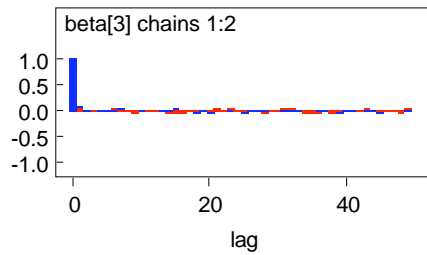
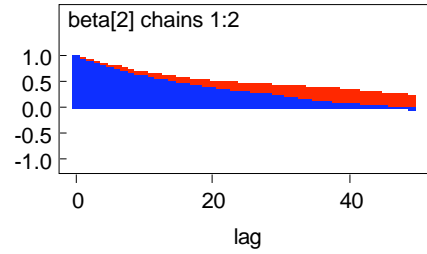
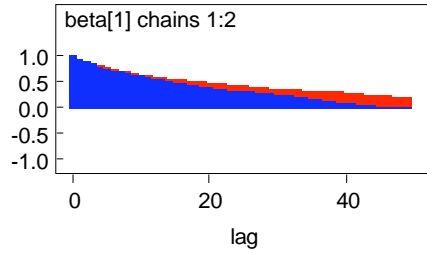
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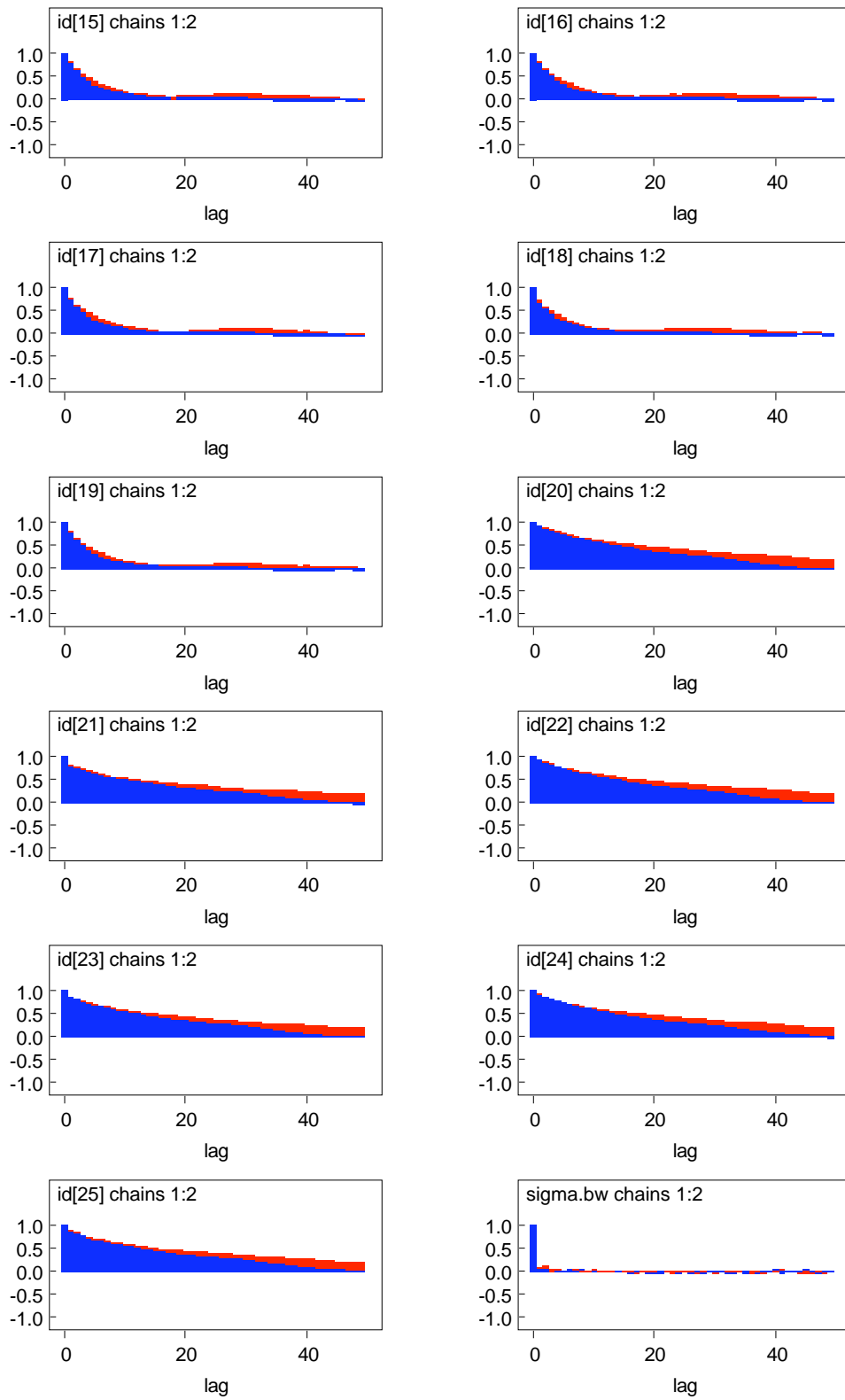
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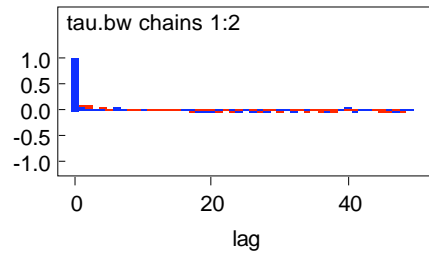
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APPENDIX I. WINBUGS OUTPUTS

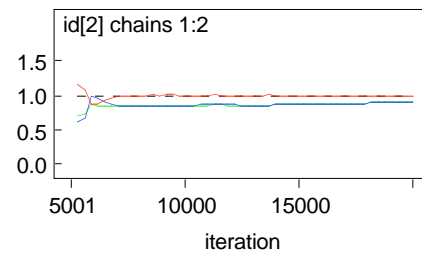
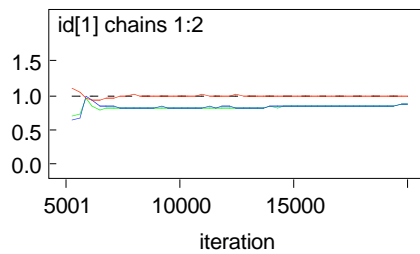
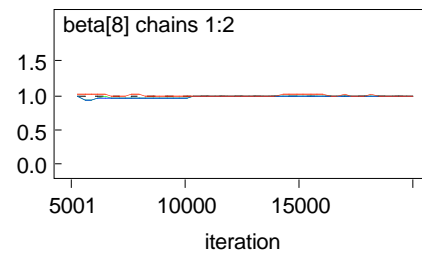
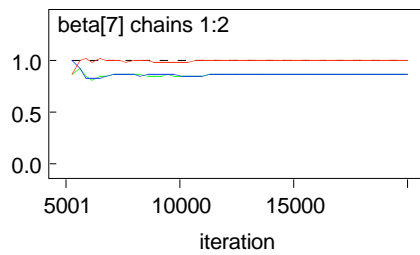
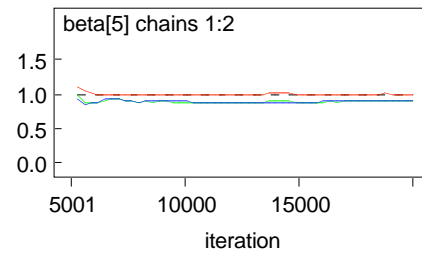
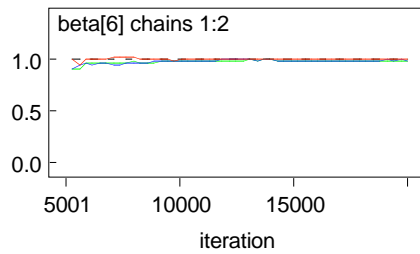
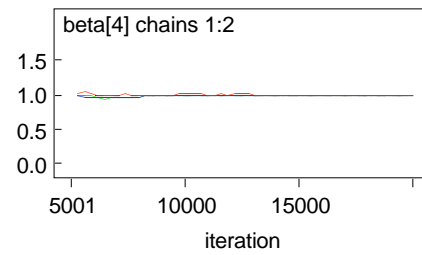
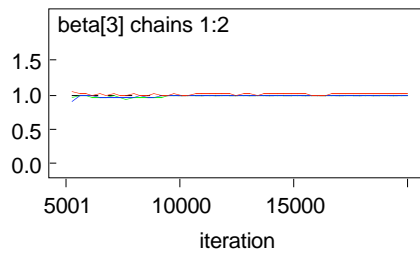
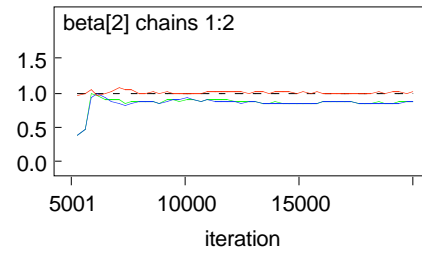
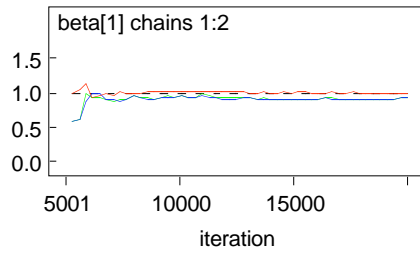
Road Data Auto Correlations

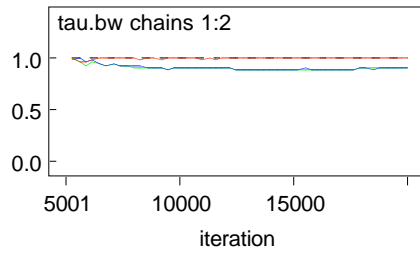




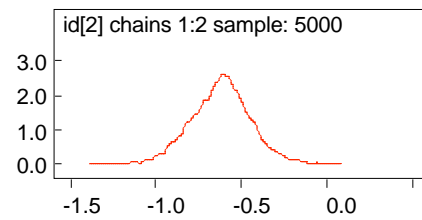
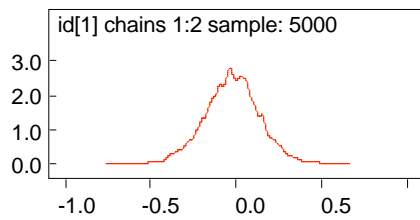
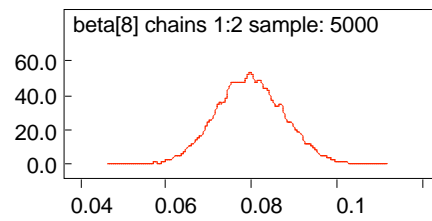
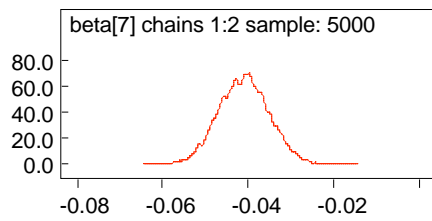
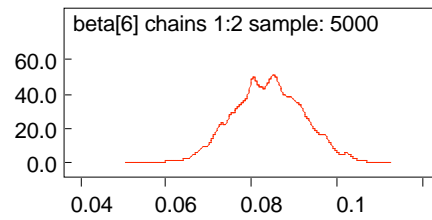
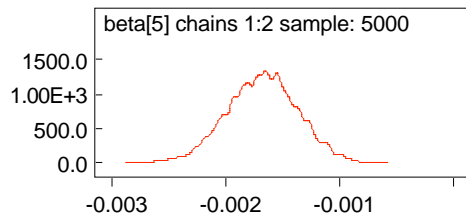
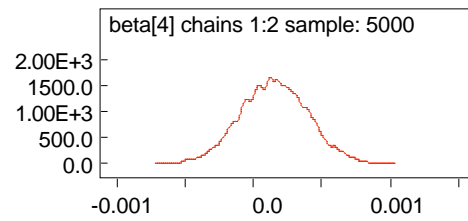
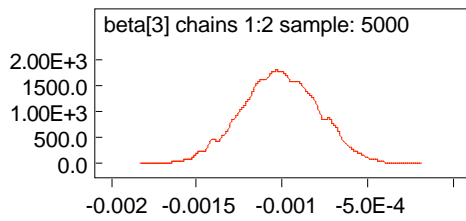
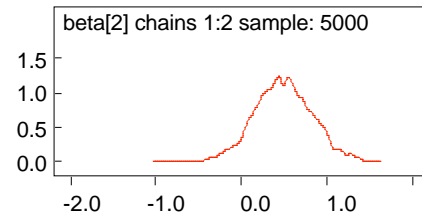
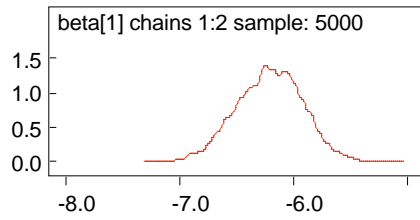


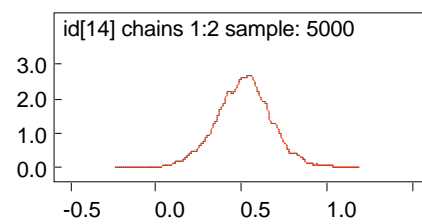
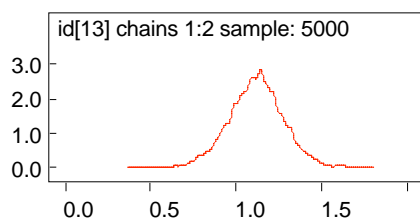
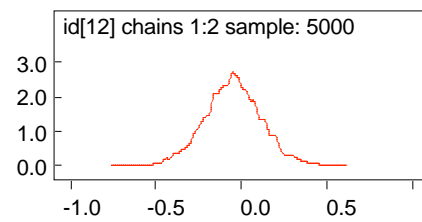
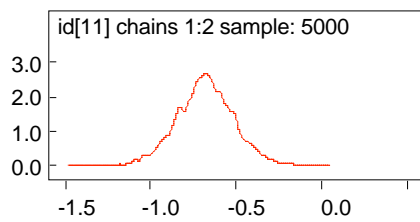
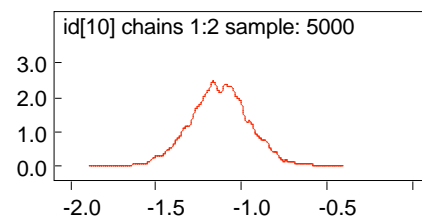
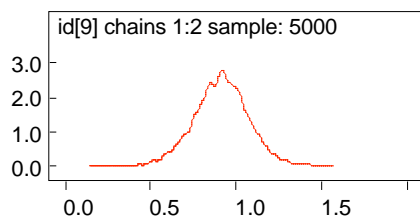
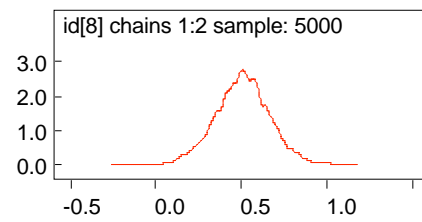
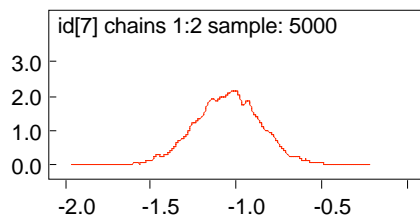
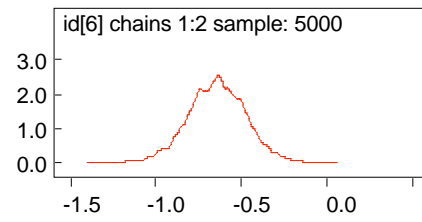
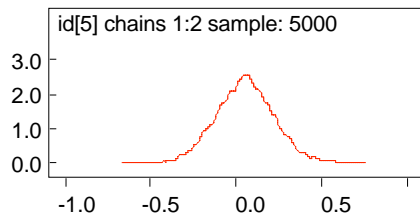
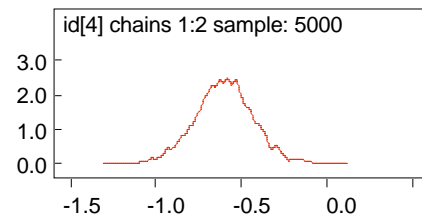
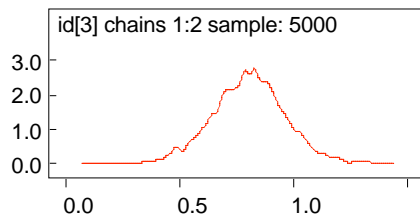
Road Data Gelman Rubin Statistic

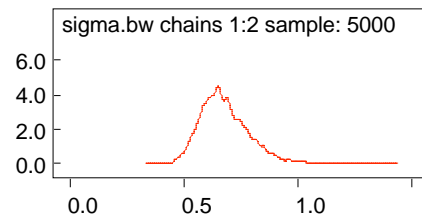
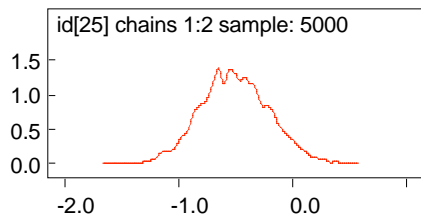
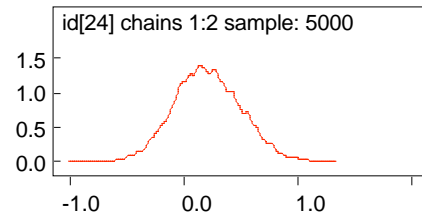
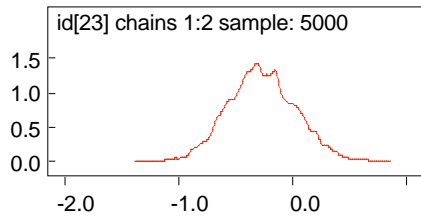
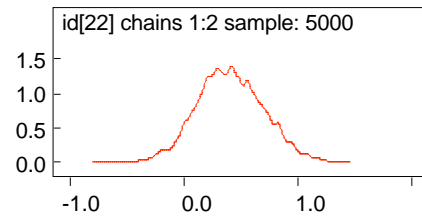
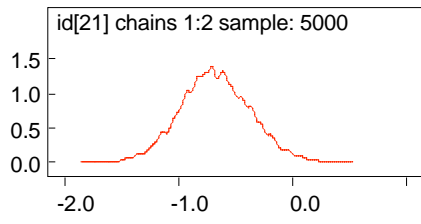
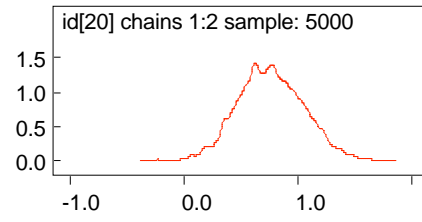
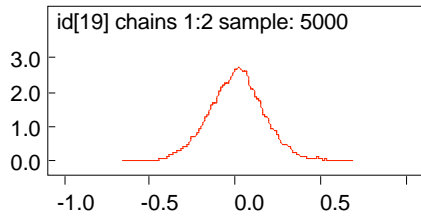
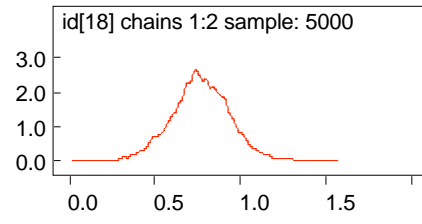
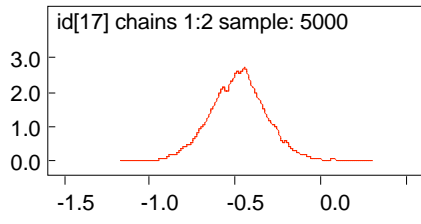
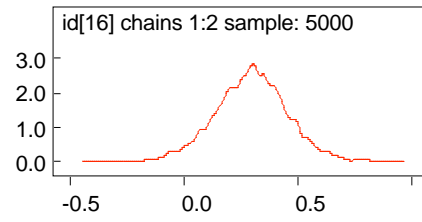
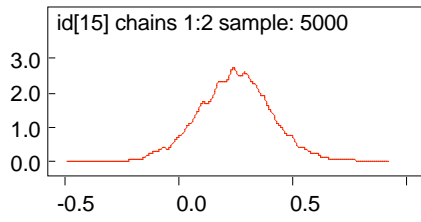


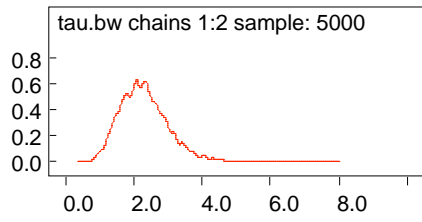


Road Data Kernel Densities

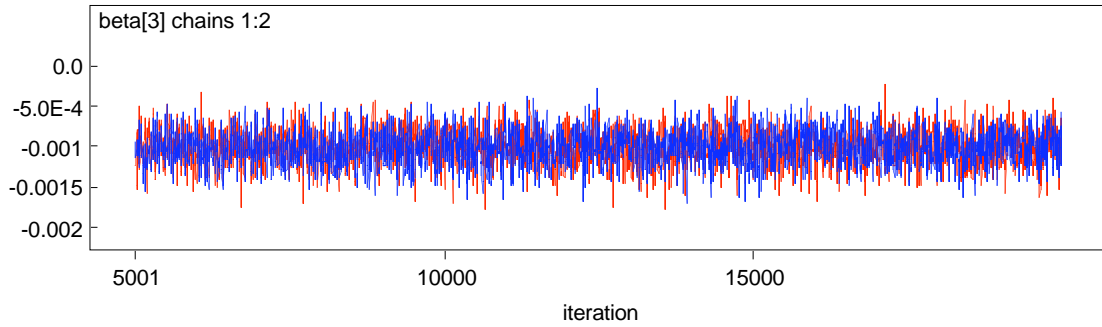
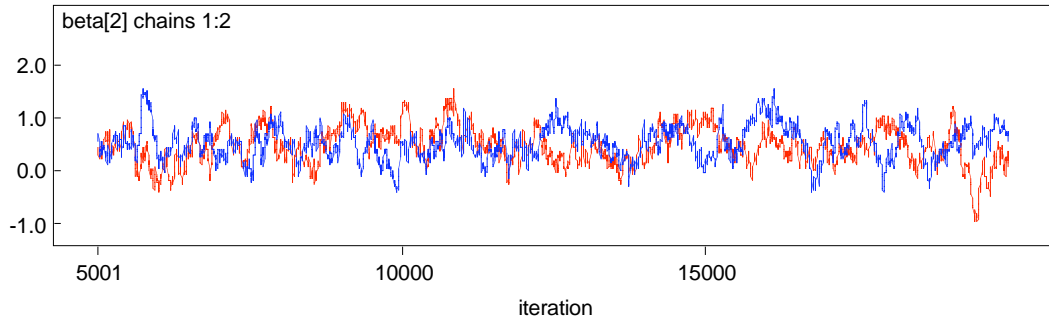
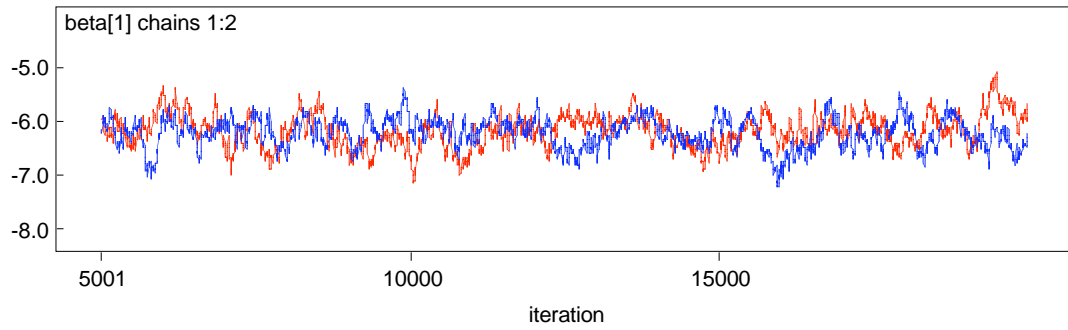


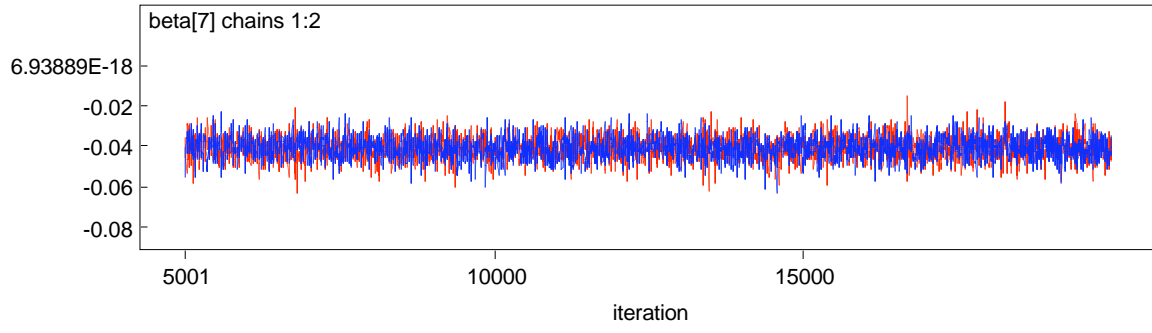
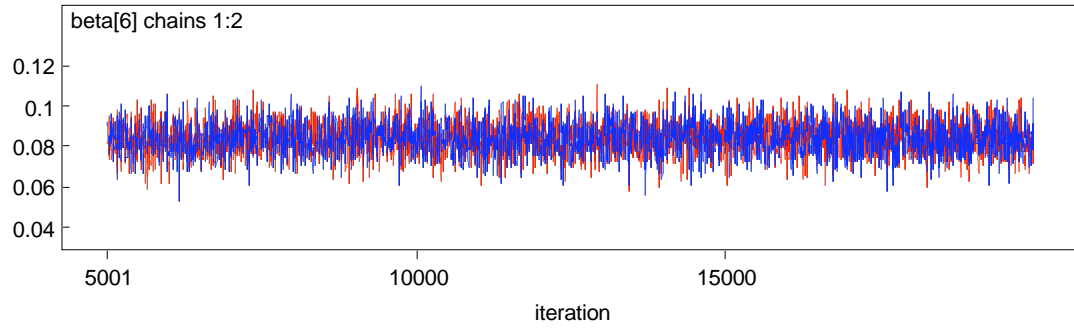
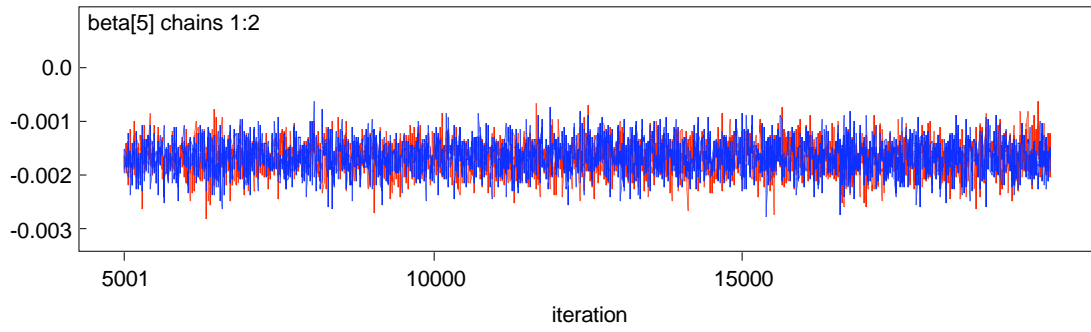
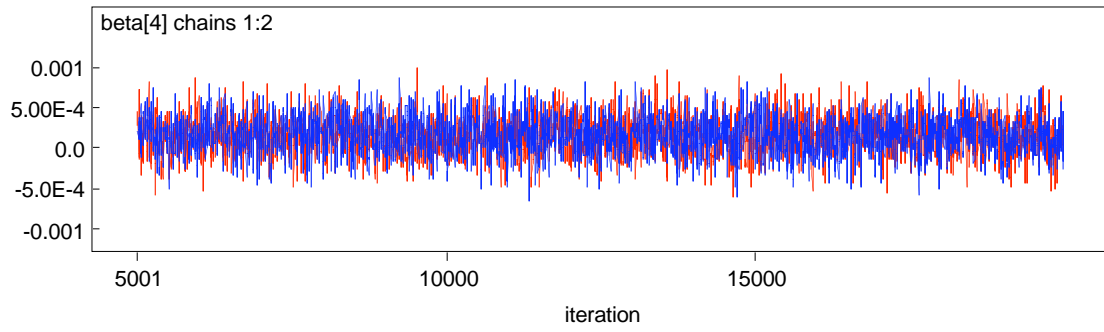


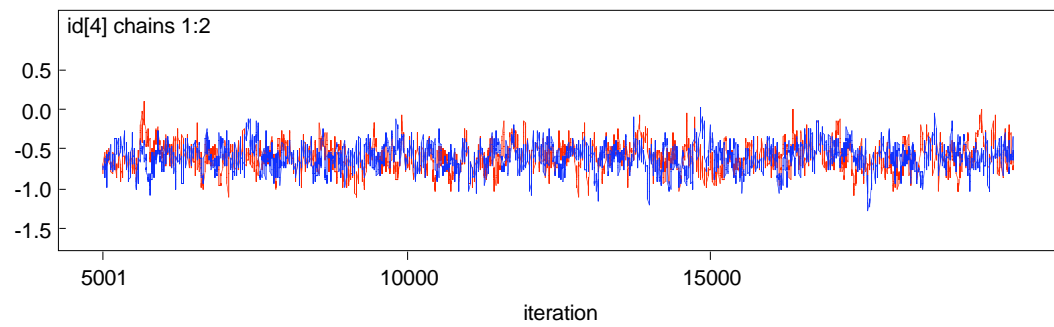
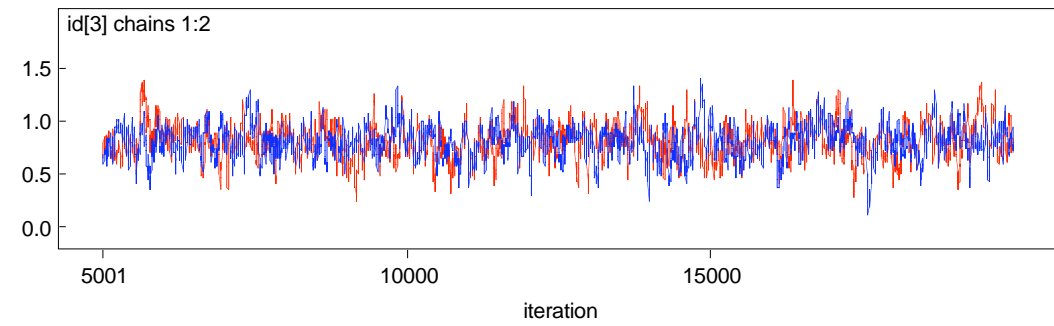
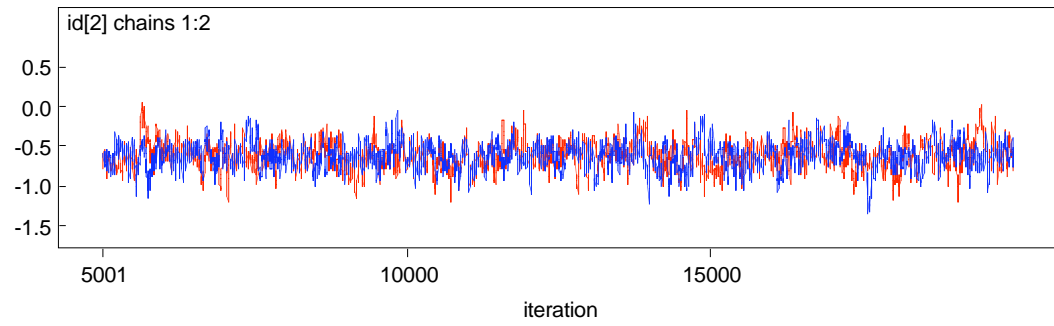
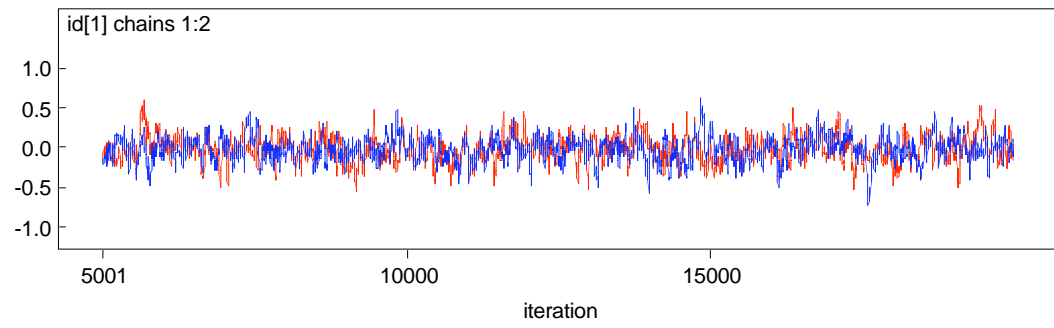
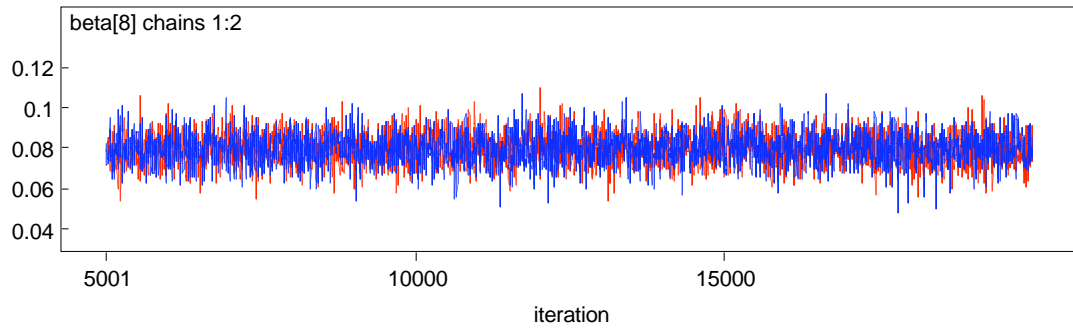


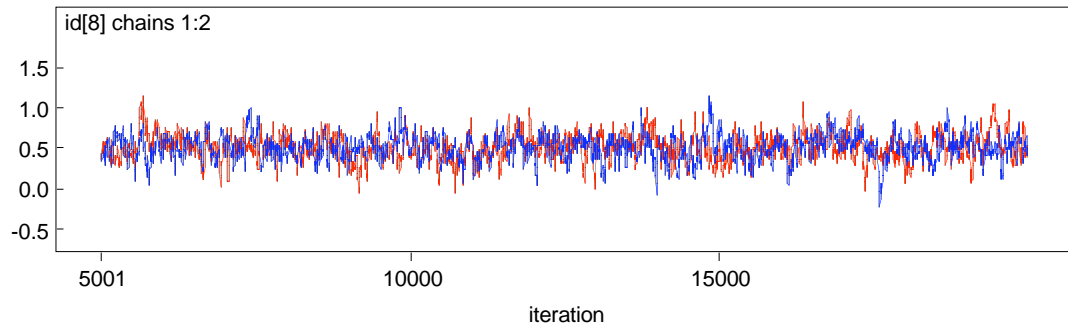
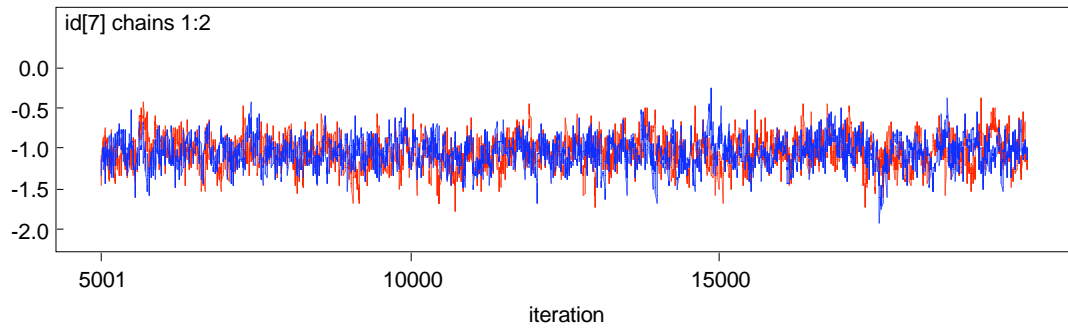
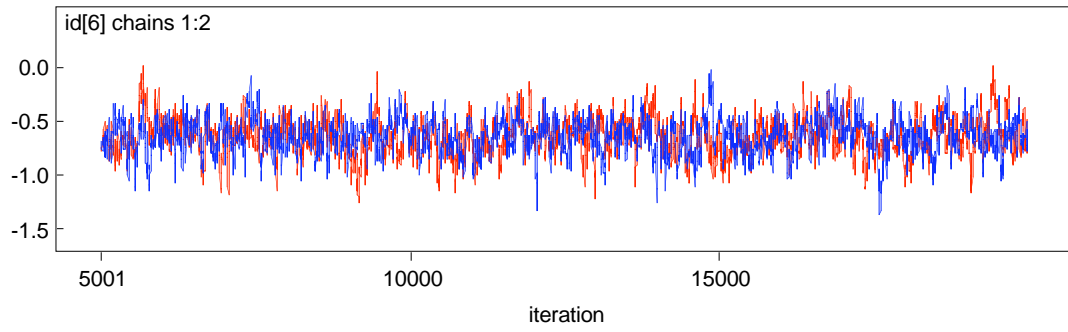
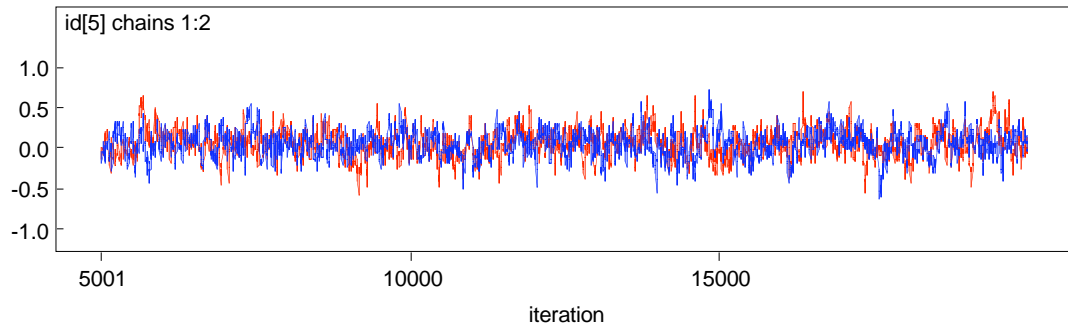


Road Data Time Series

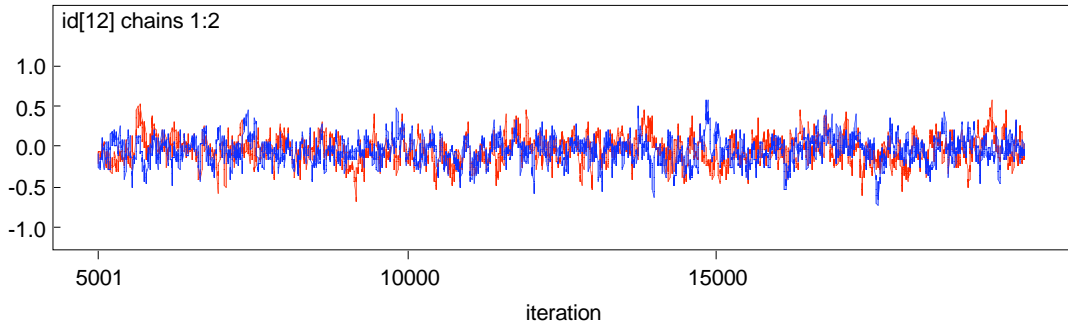
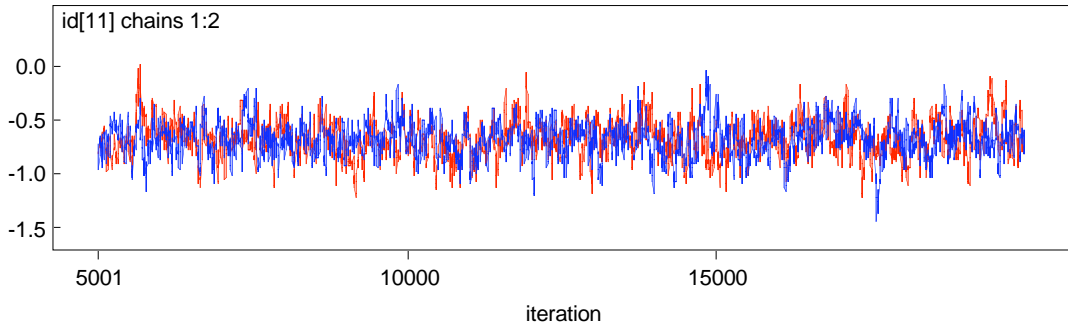
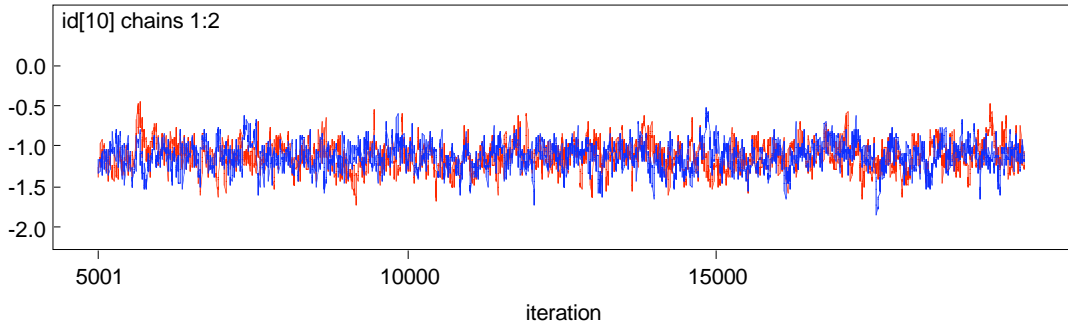
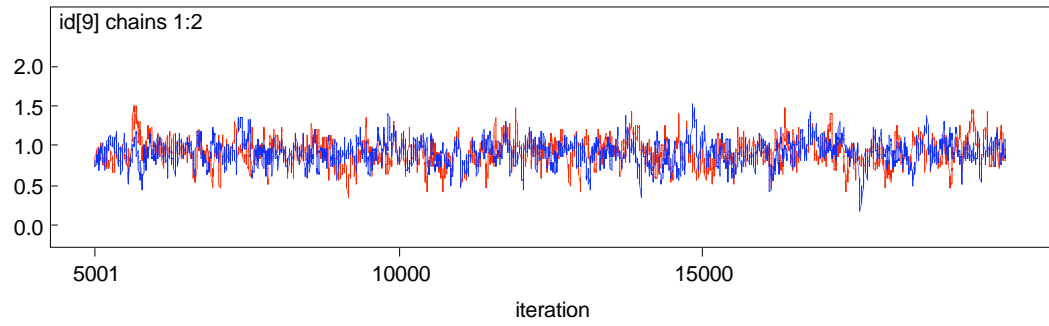


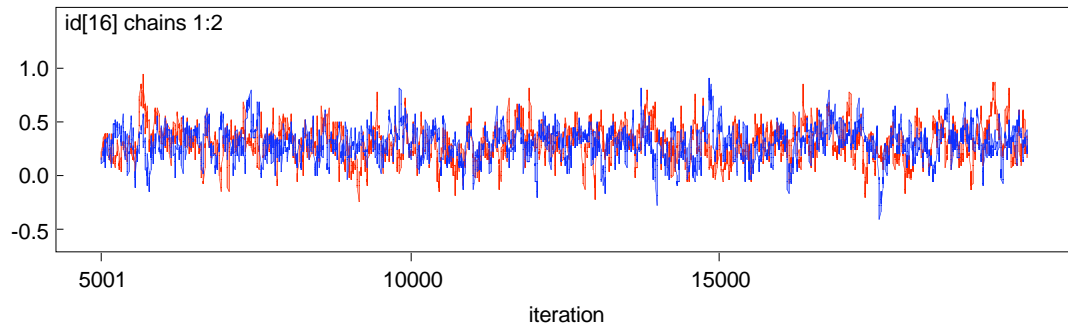
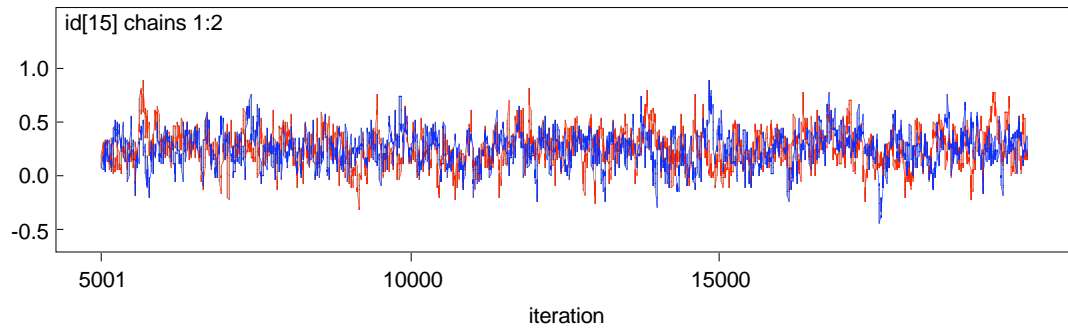
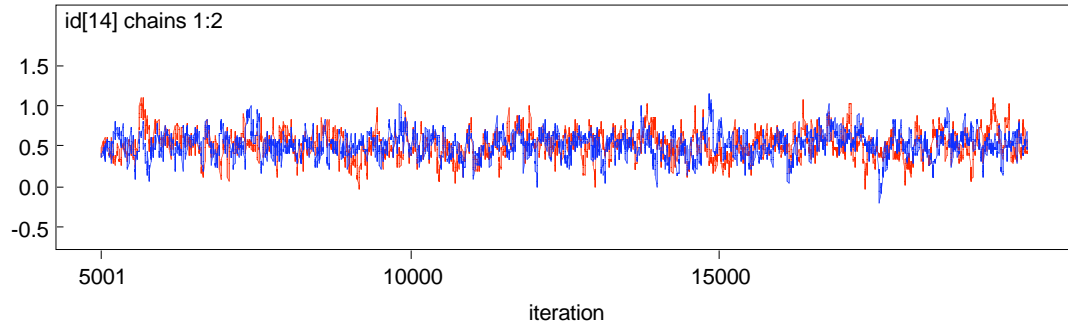
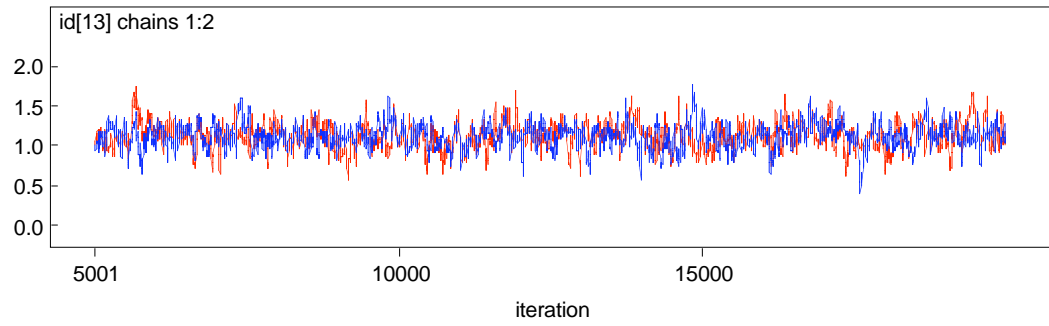


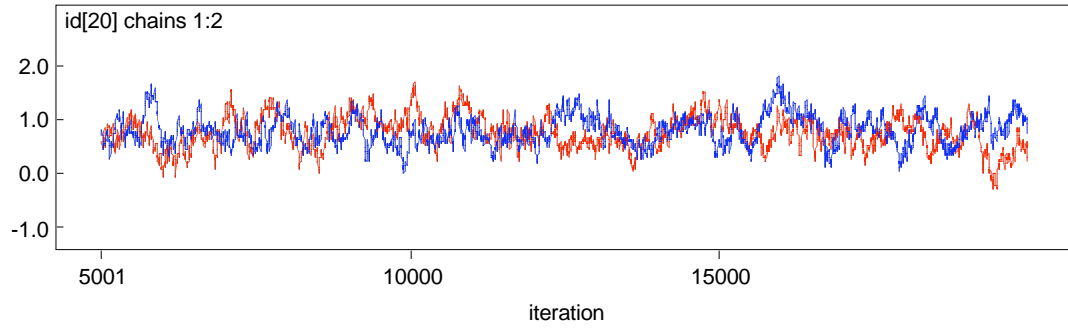
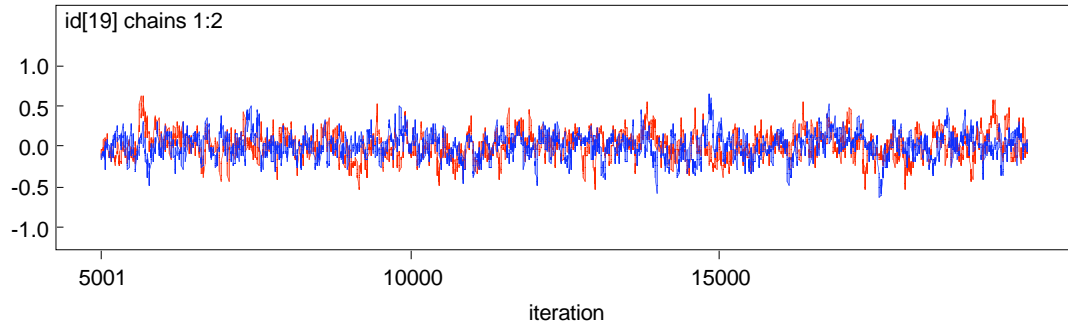
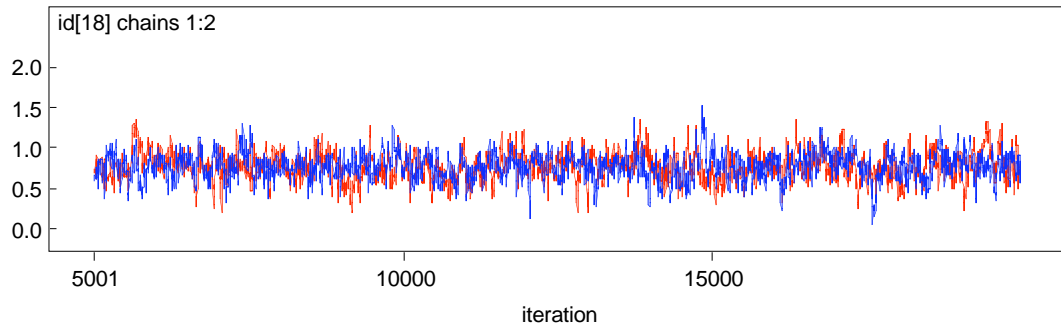
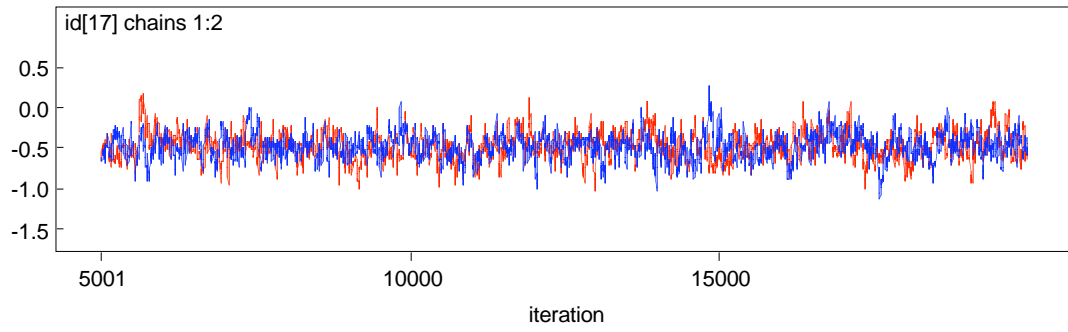


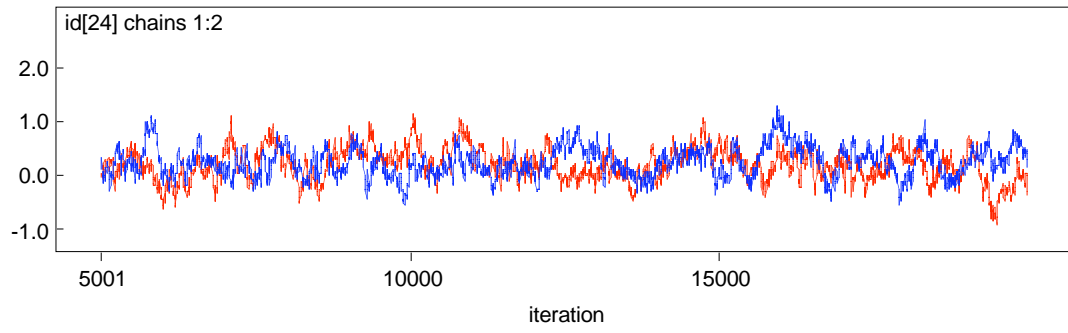
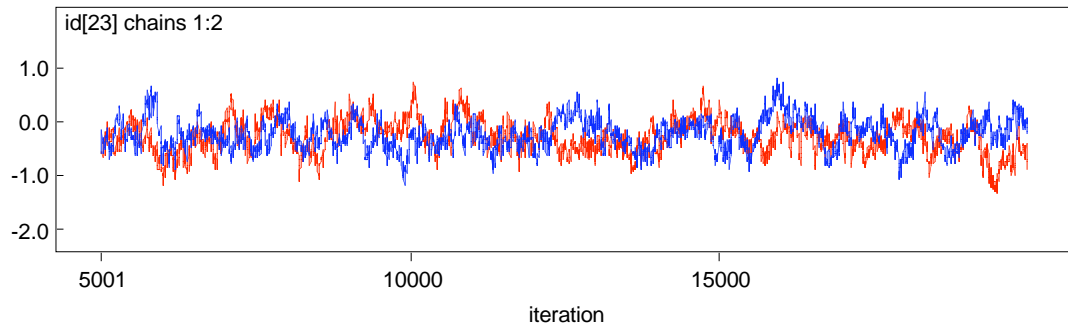
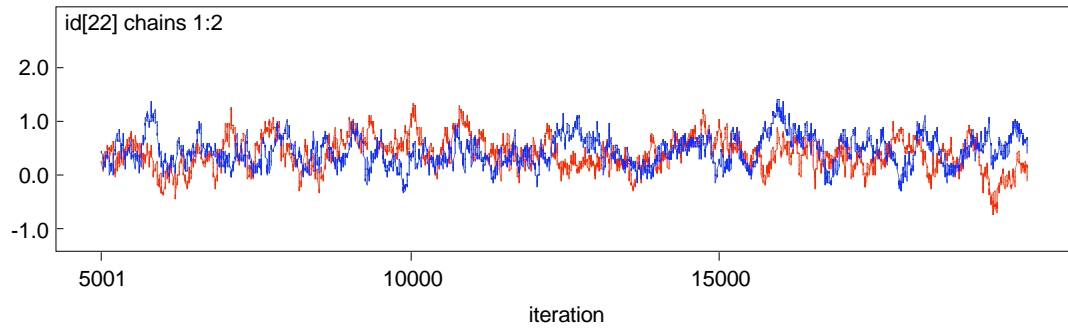
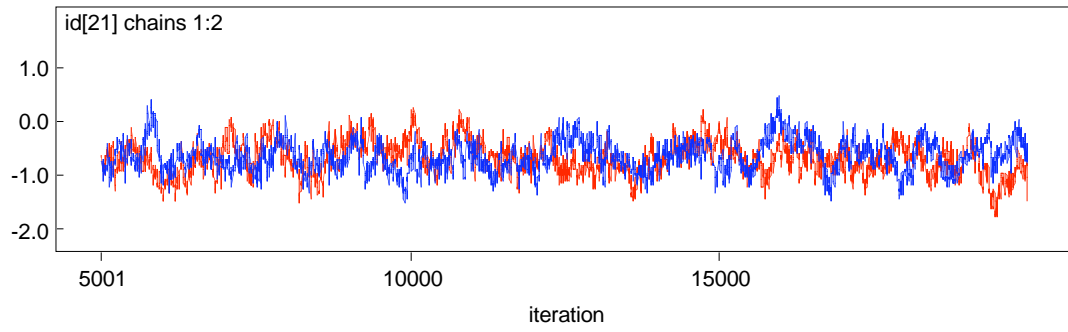


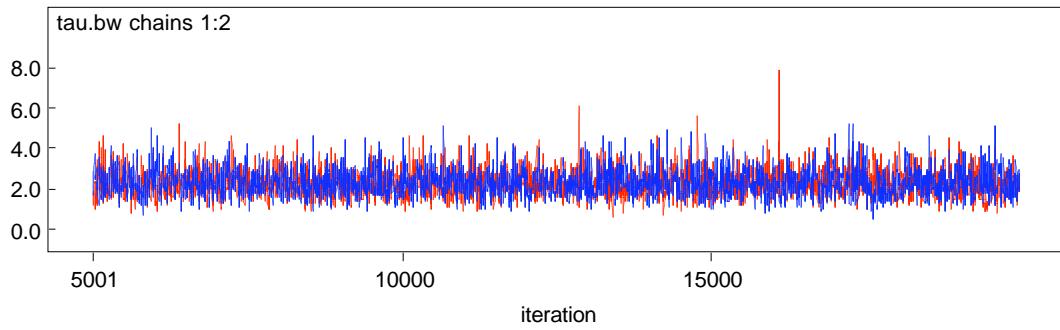
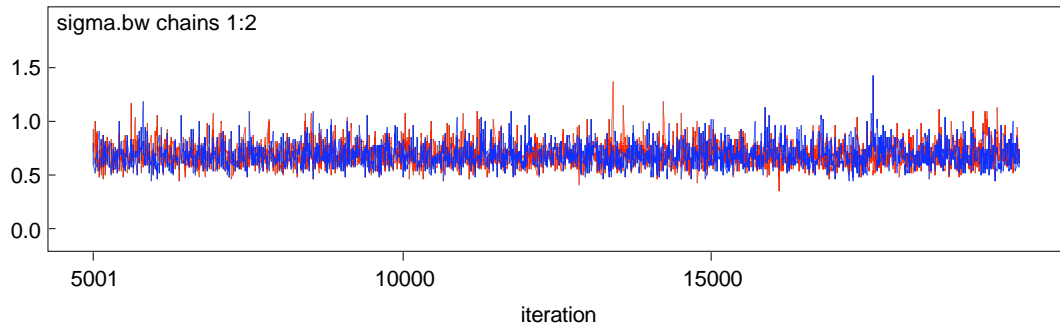
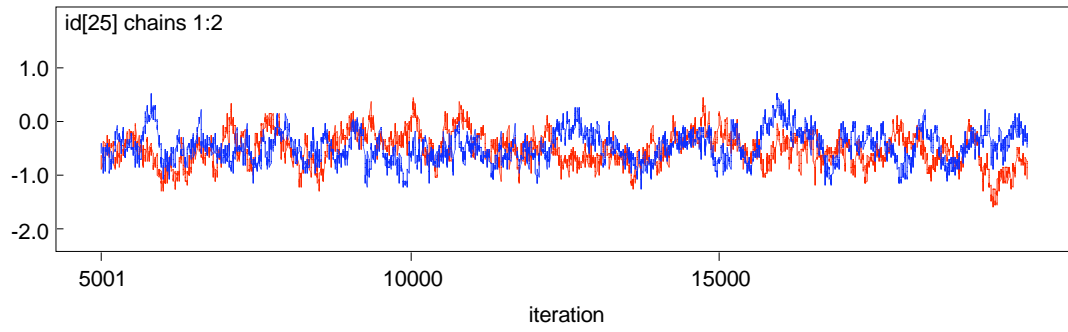
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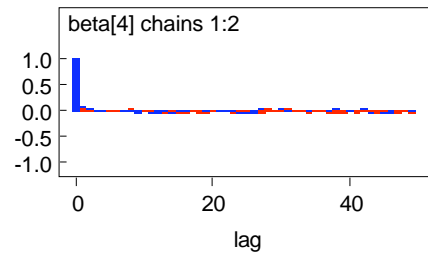
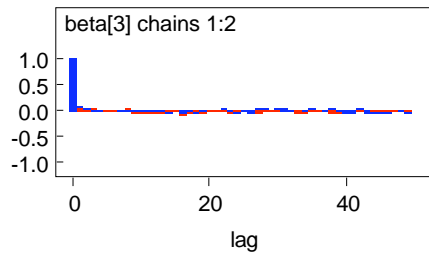
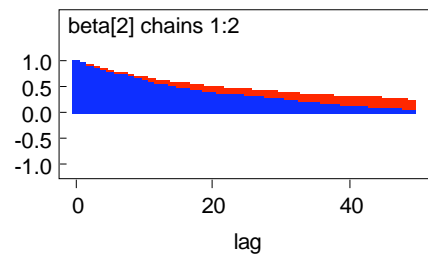
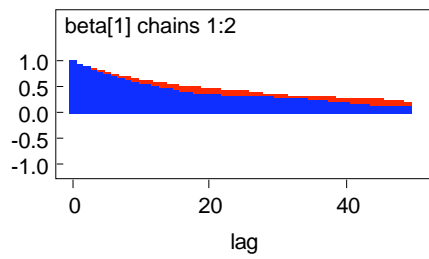


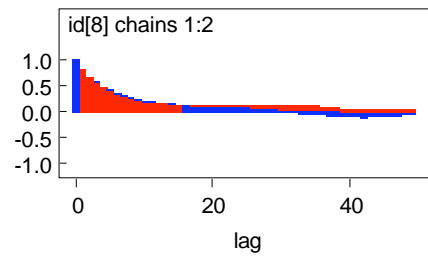
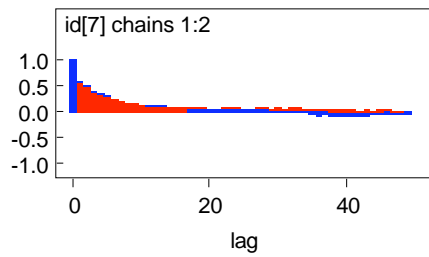
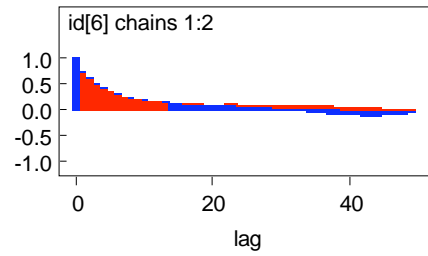
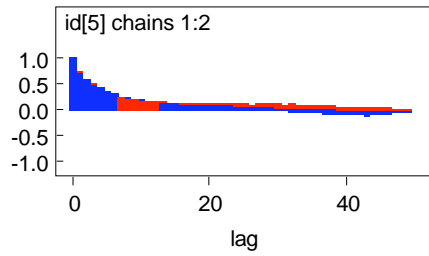
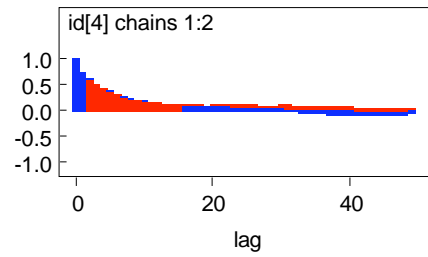
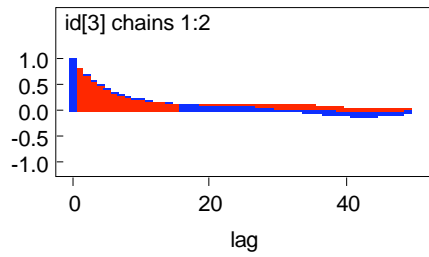
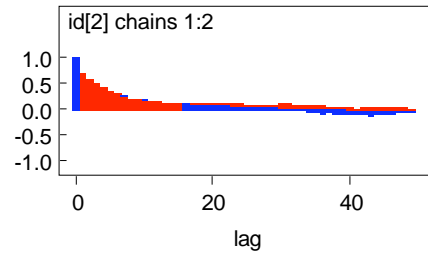
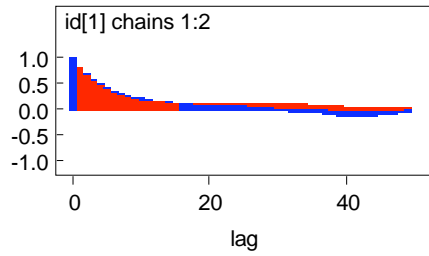
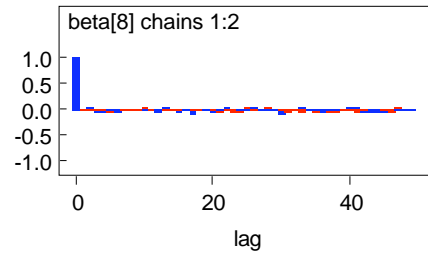
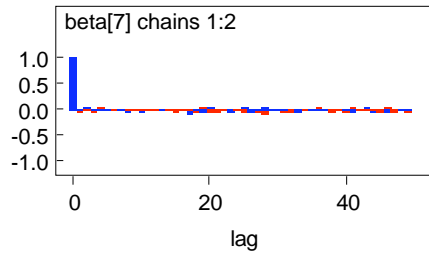
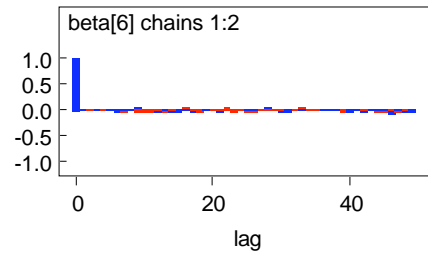
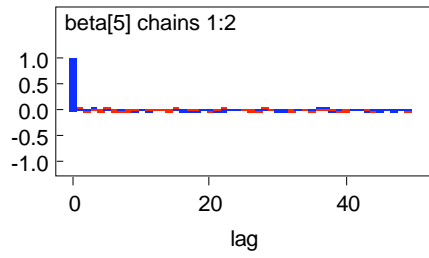


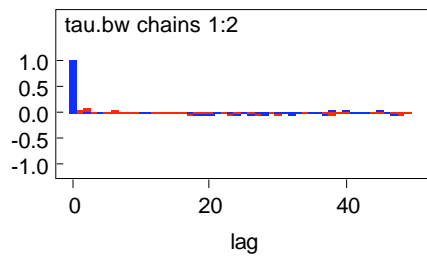
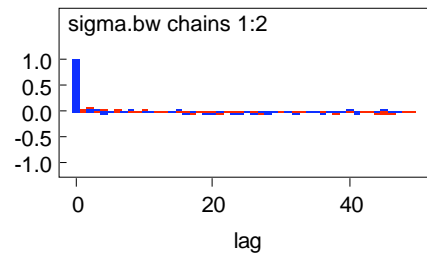
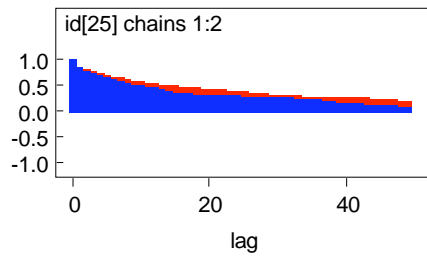
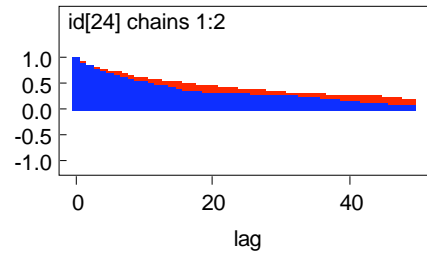
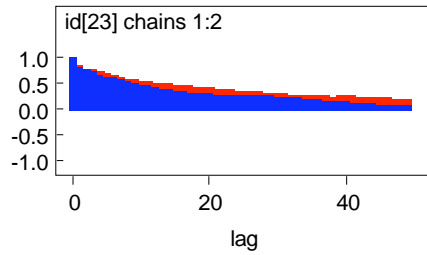
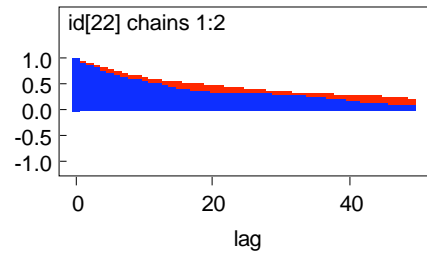
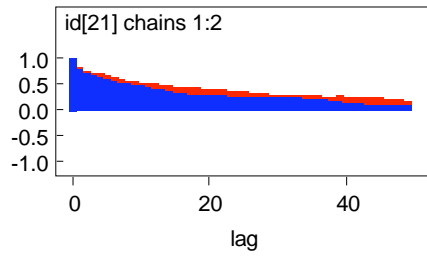




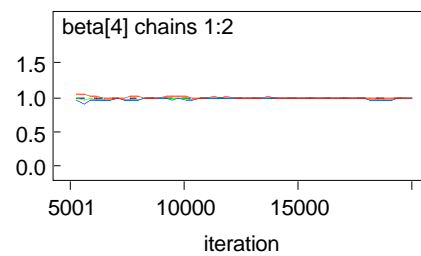
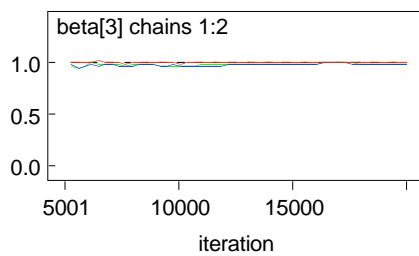
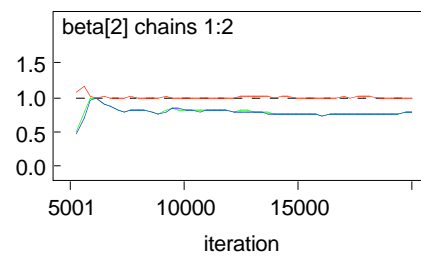
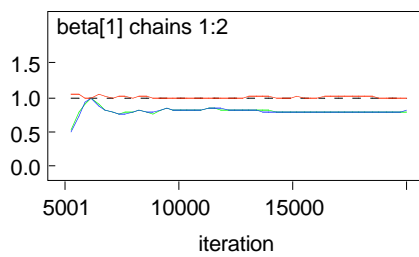
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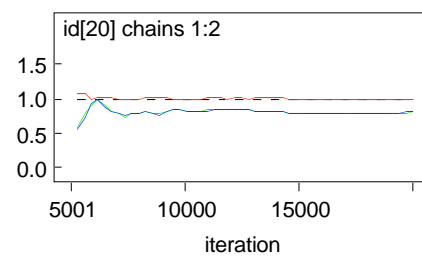
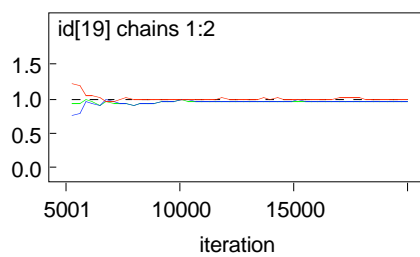
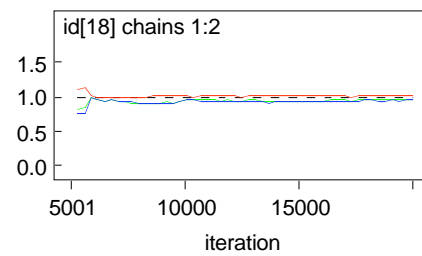
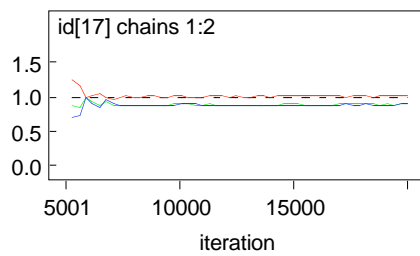
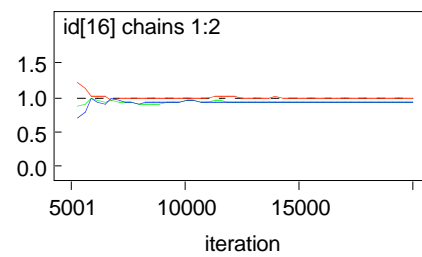
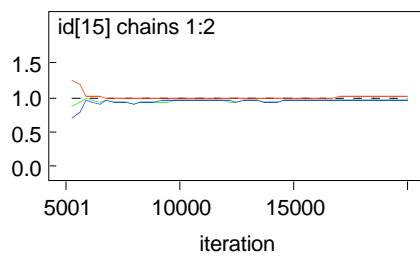
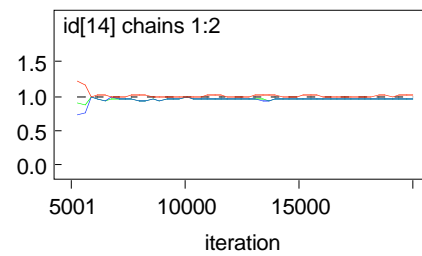
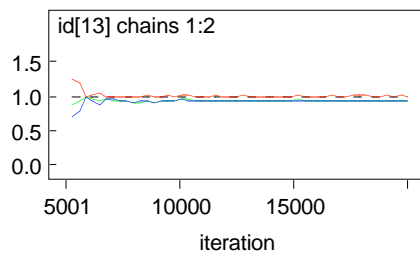
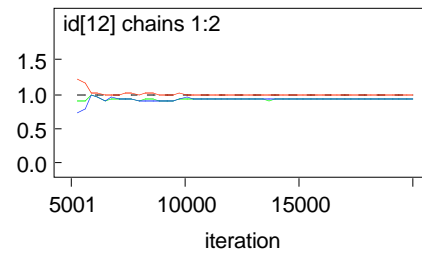
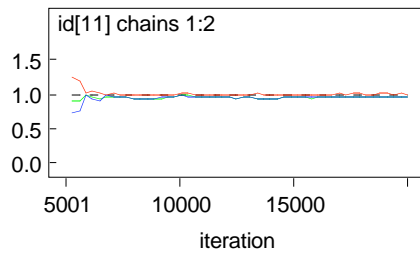
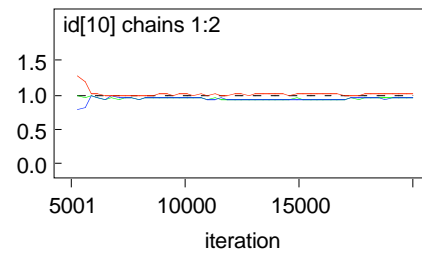
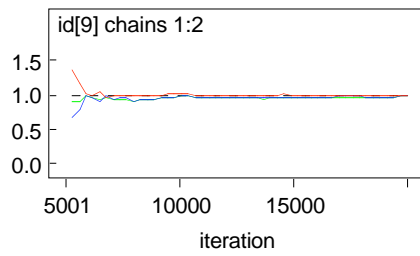


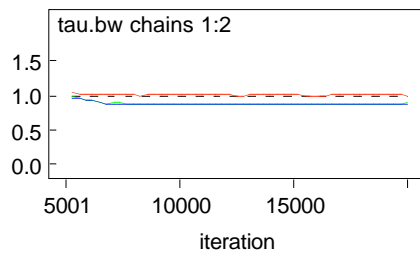
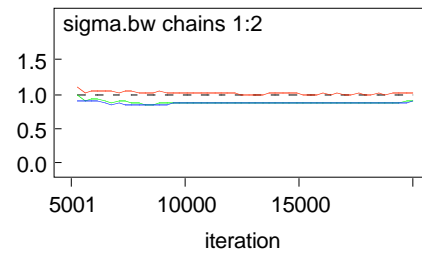
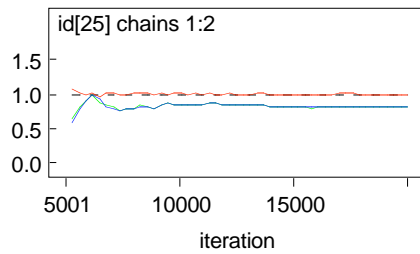
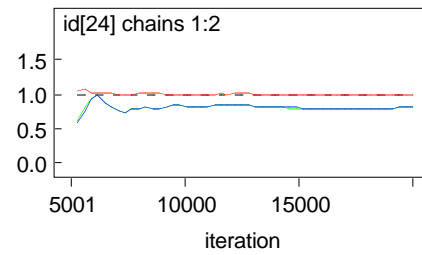
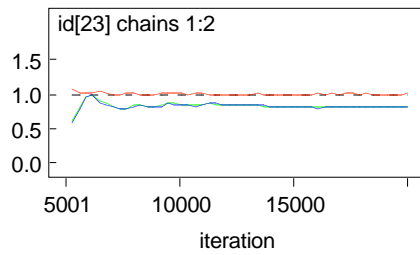
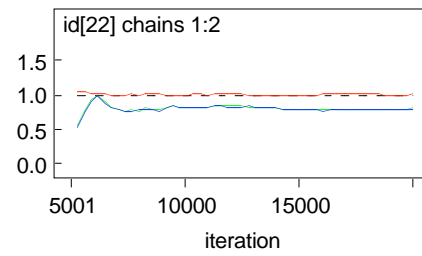
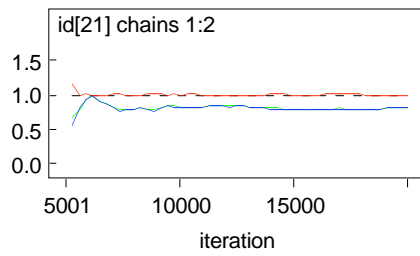




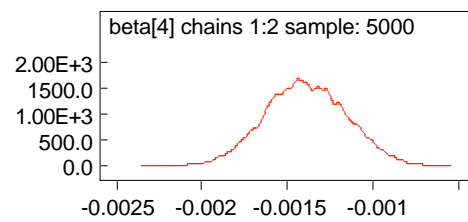
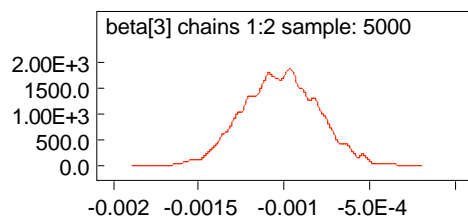
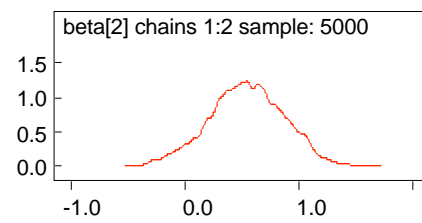
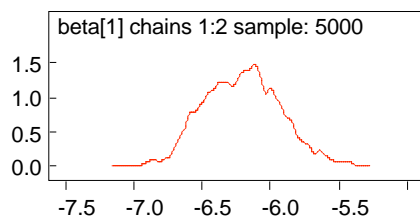
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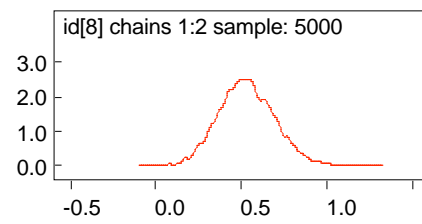
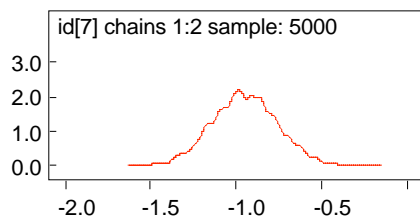
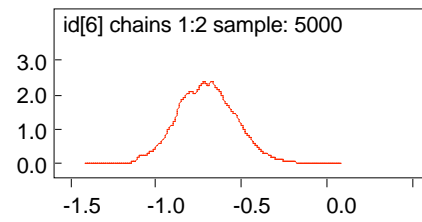
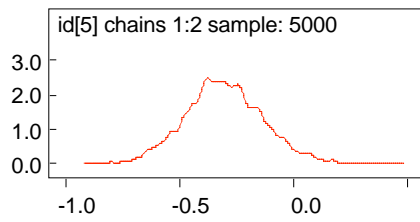
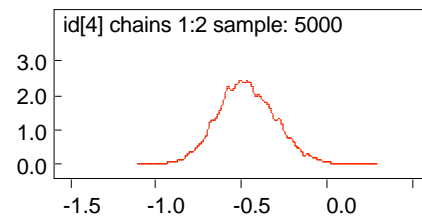
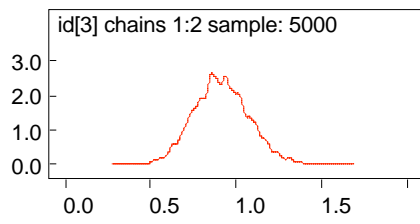
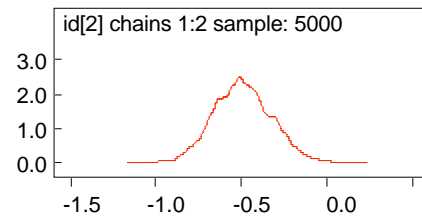
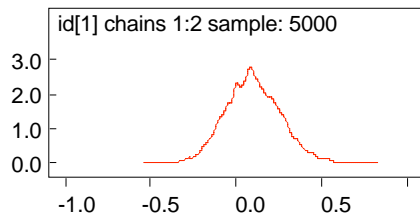
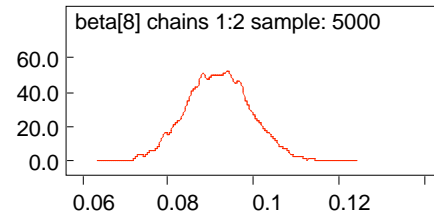
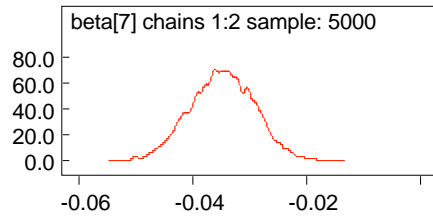
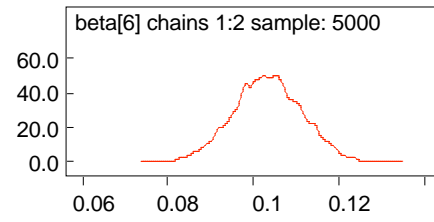
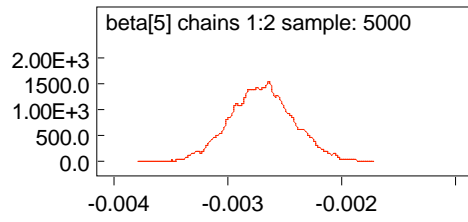


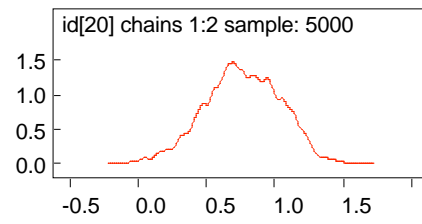
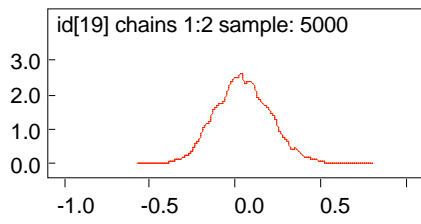
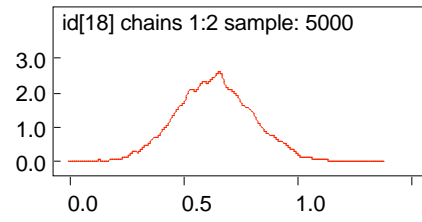
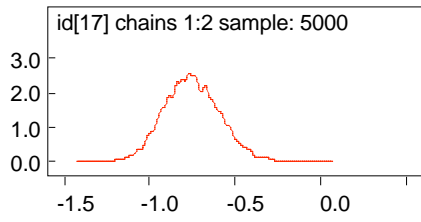
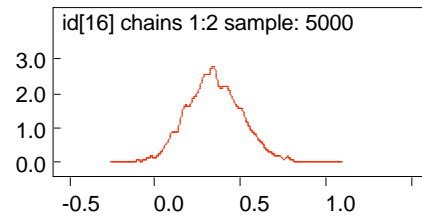
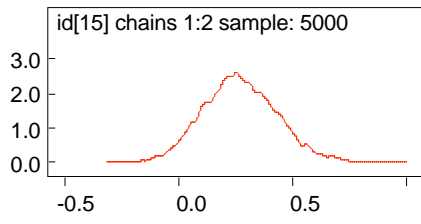
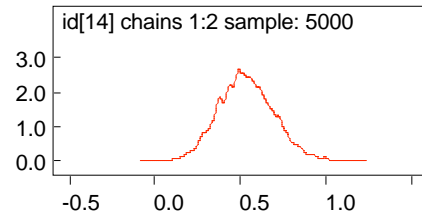
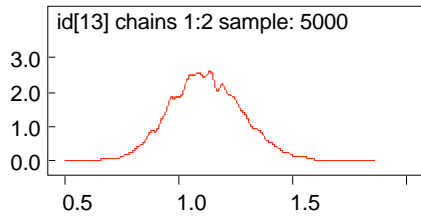
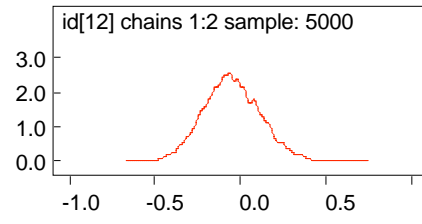
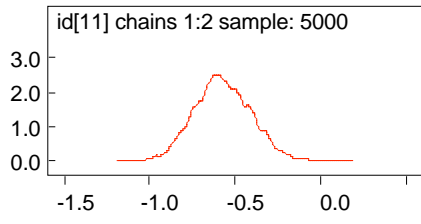
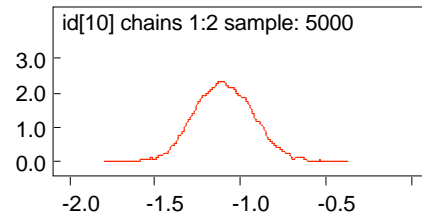
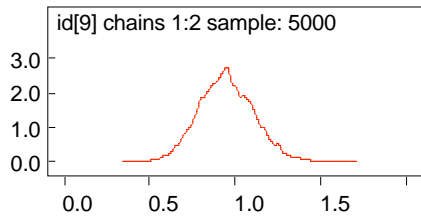


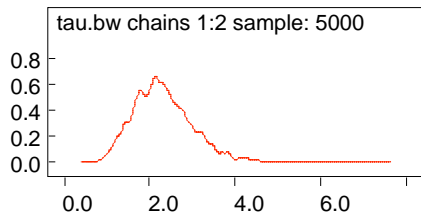
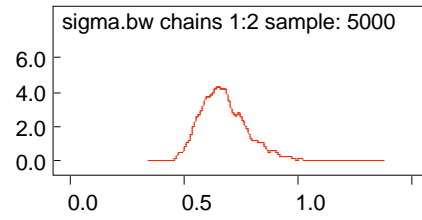
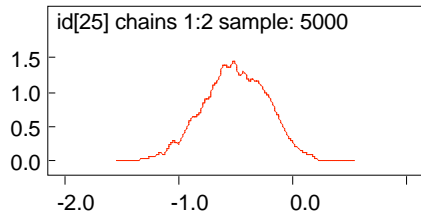
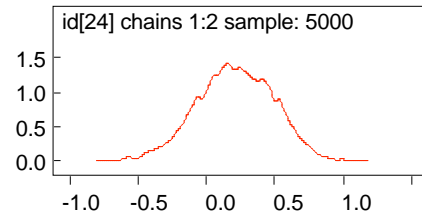
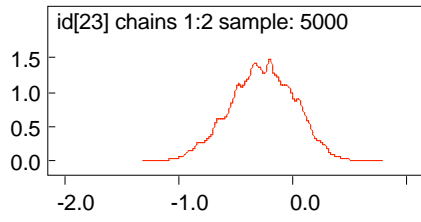
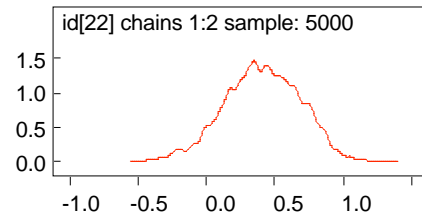
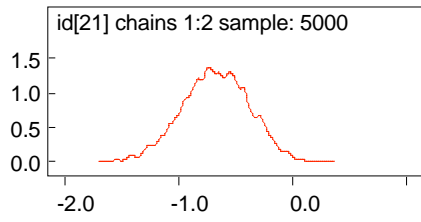


Sum Data Kernel Density

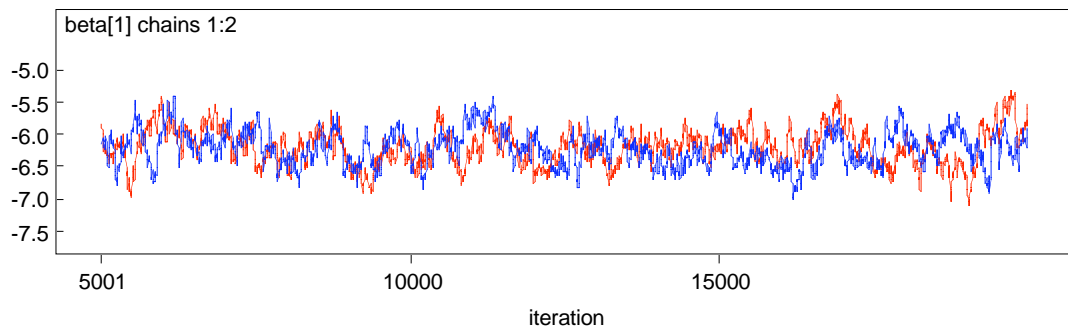


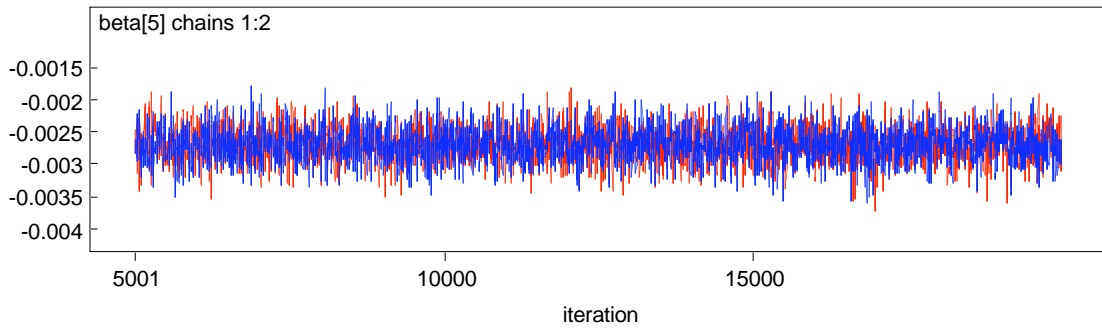
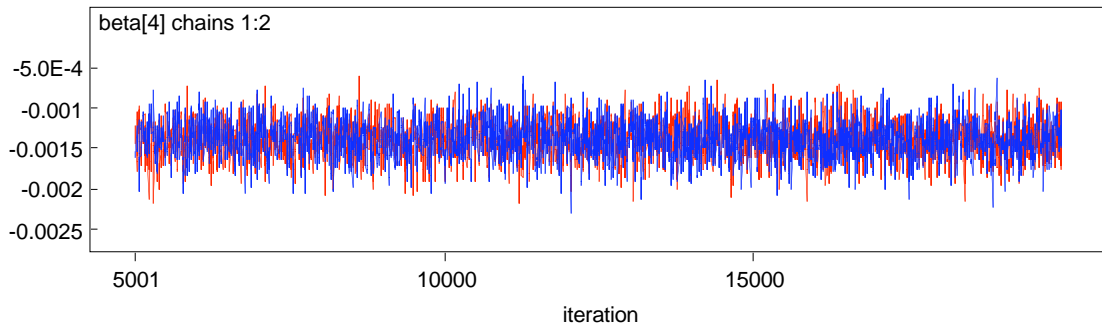
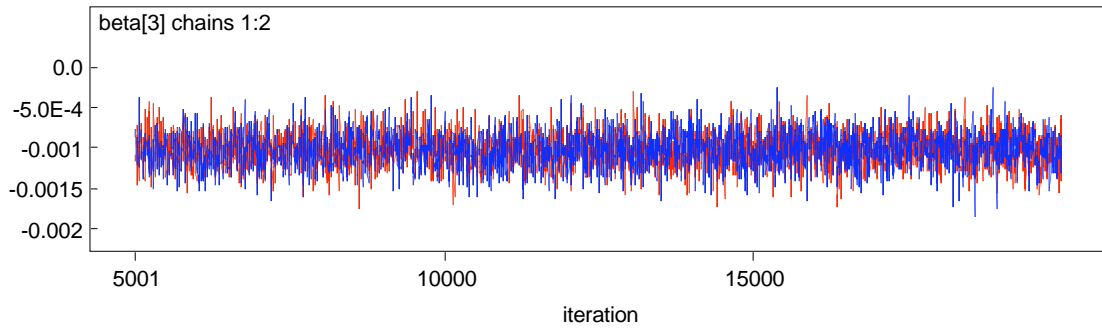
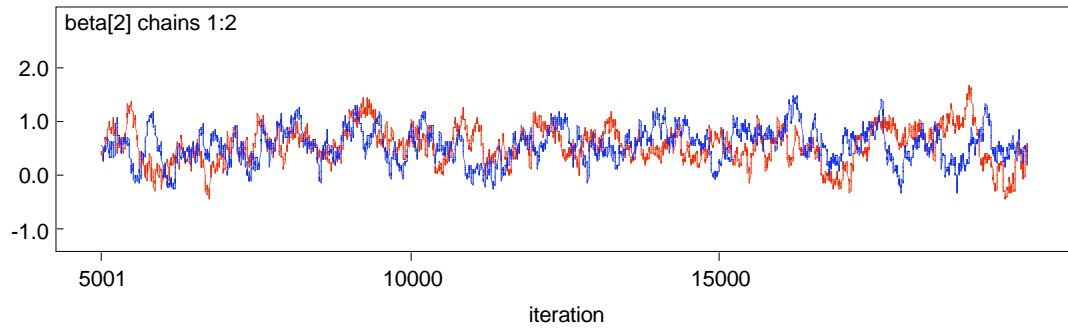


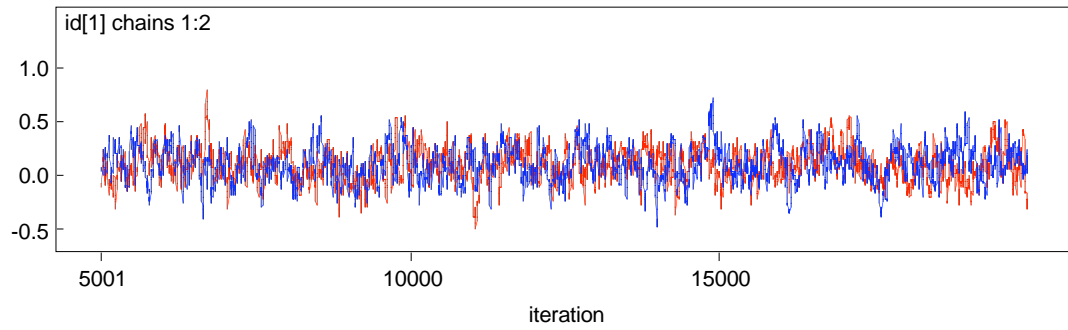
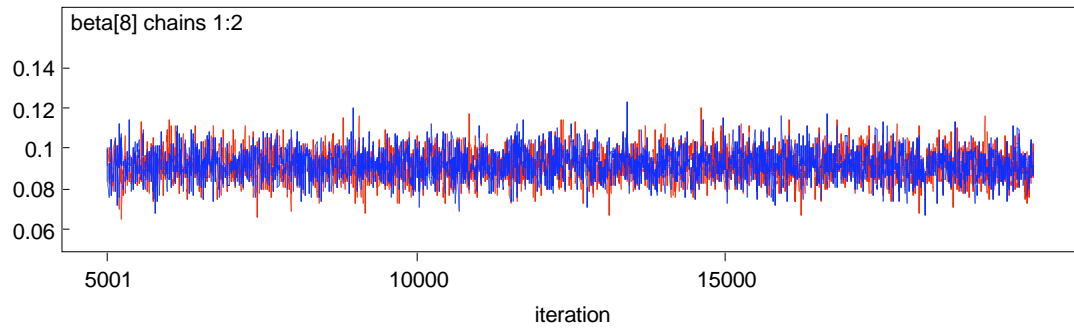
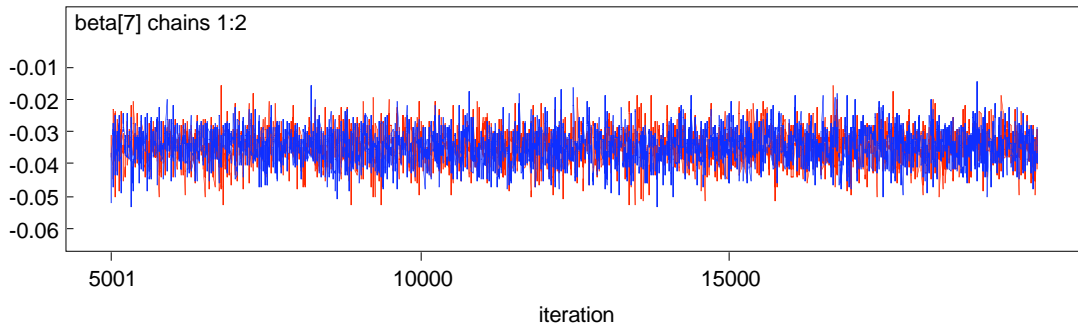
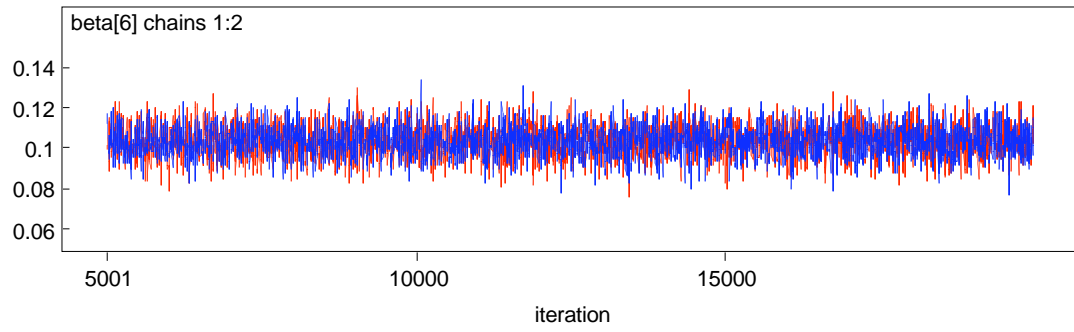


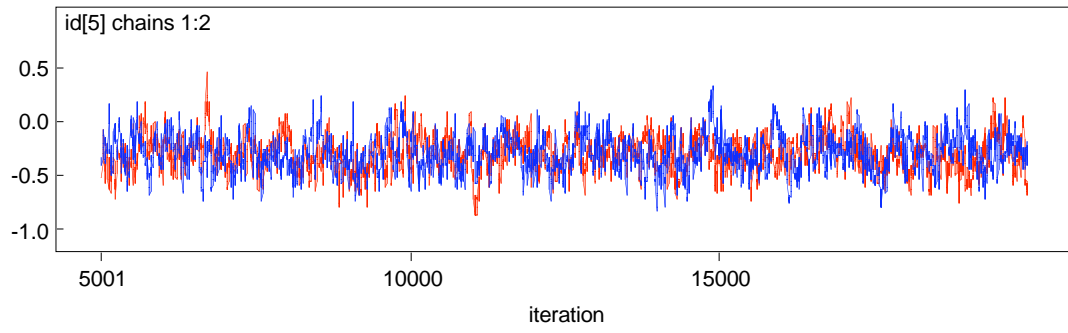
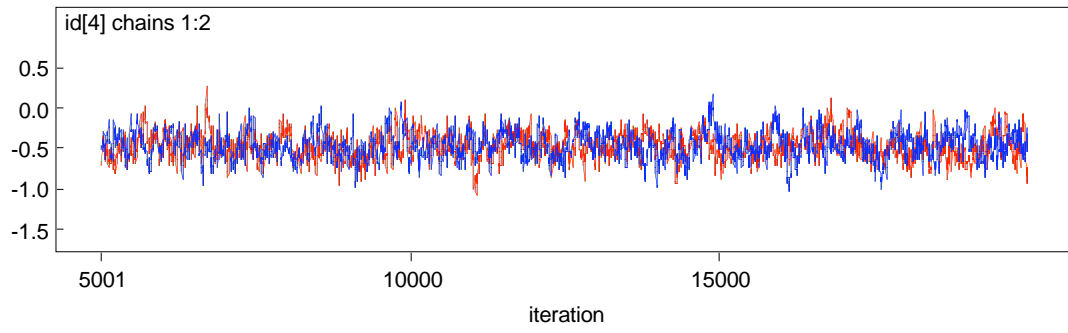
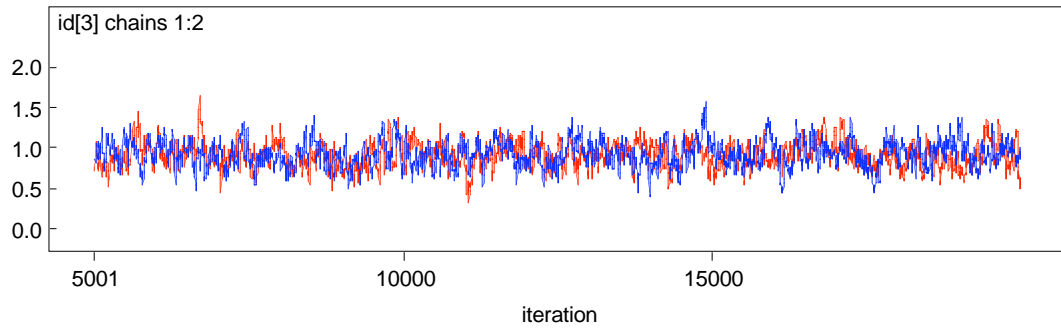
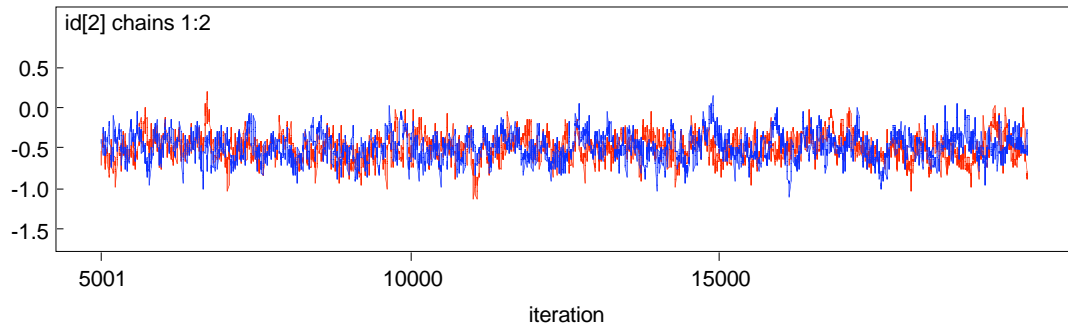


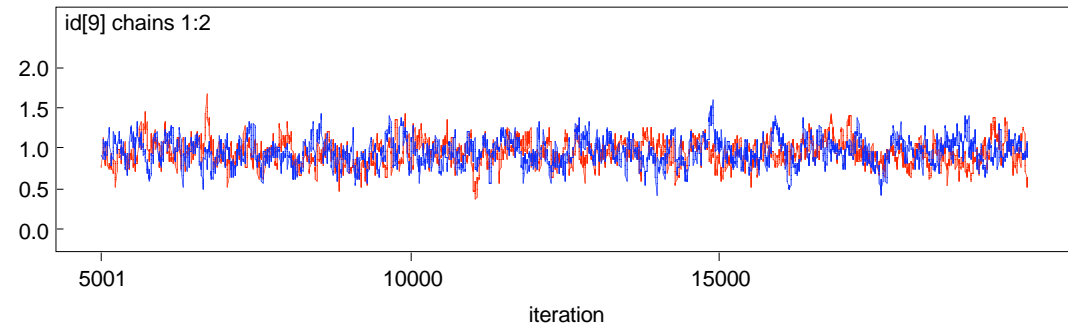
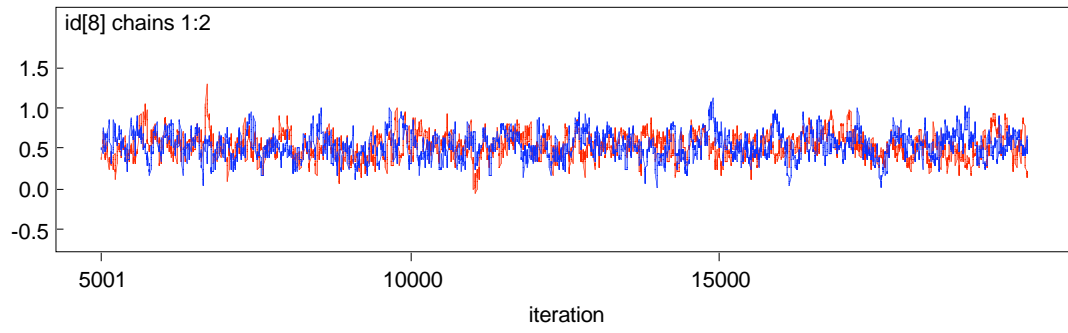
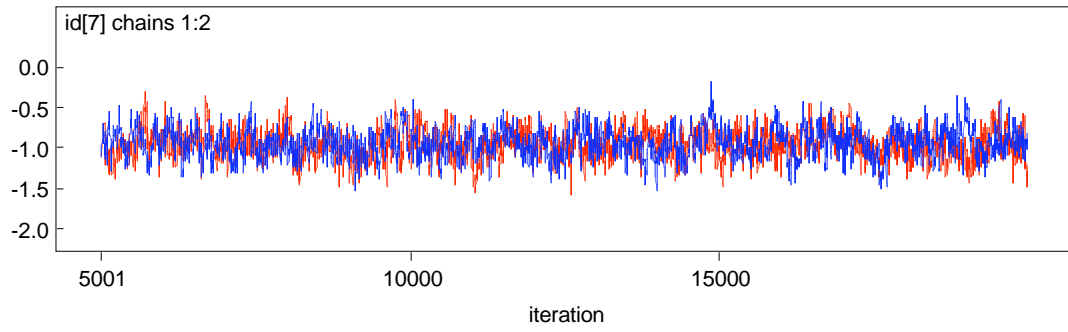
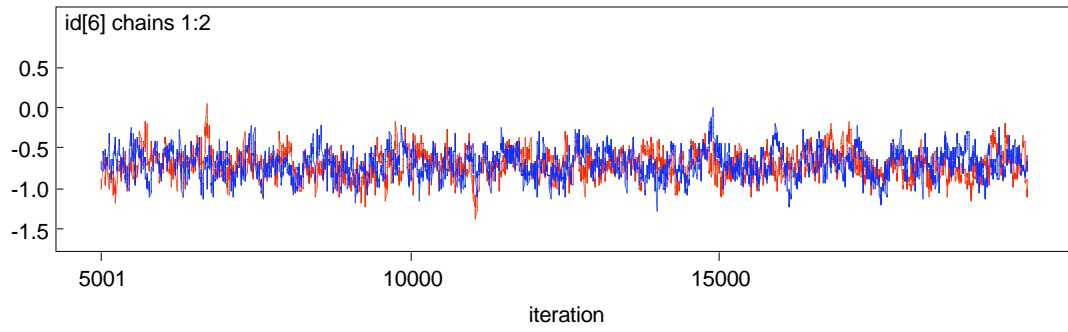
Sum Data Time Series

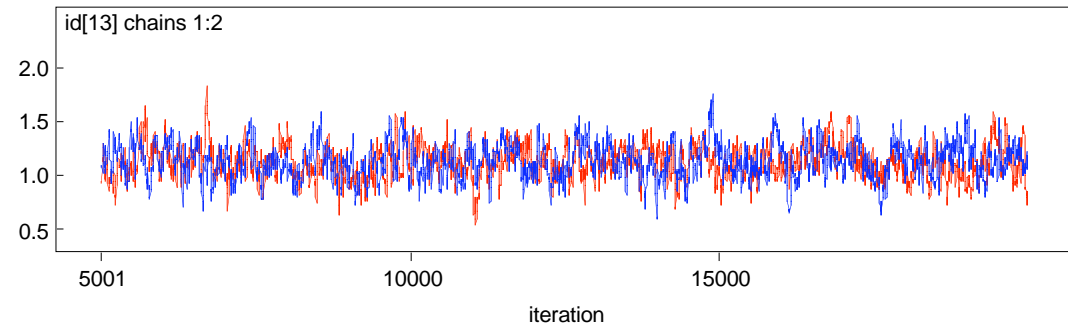
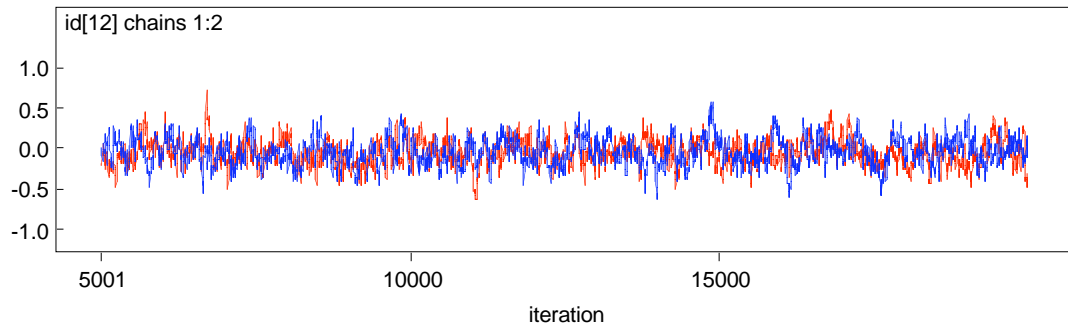
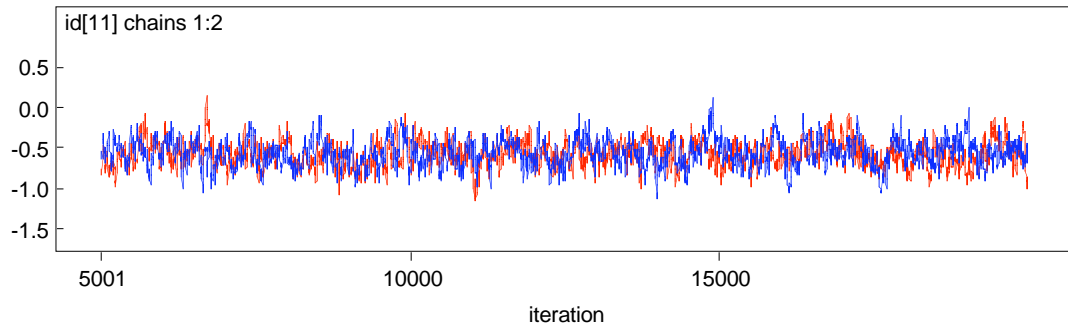
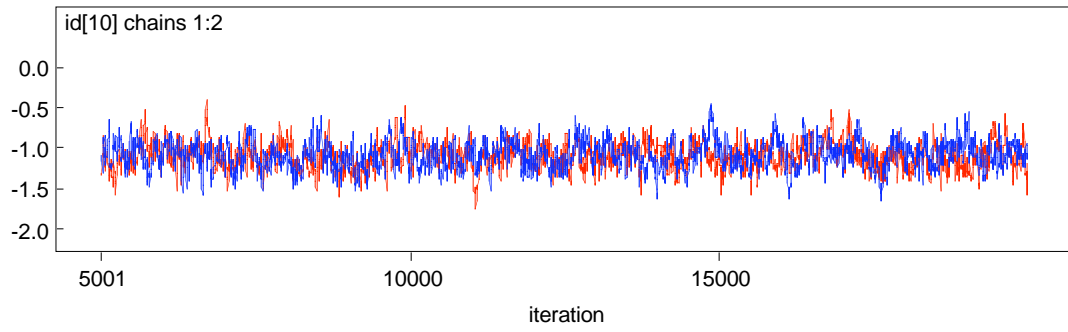


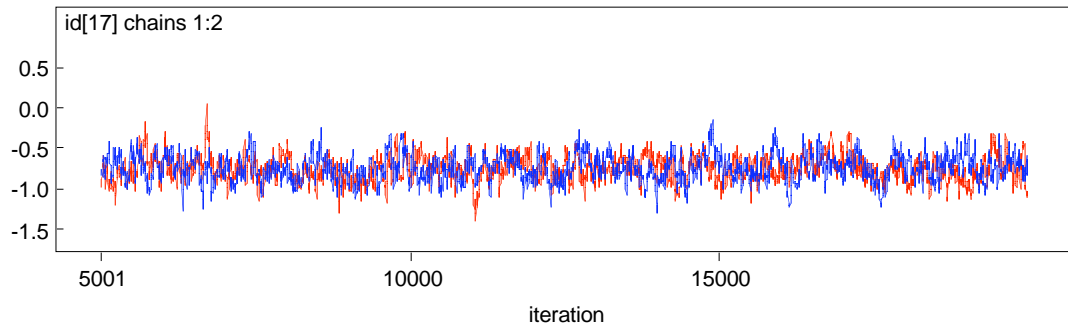
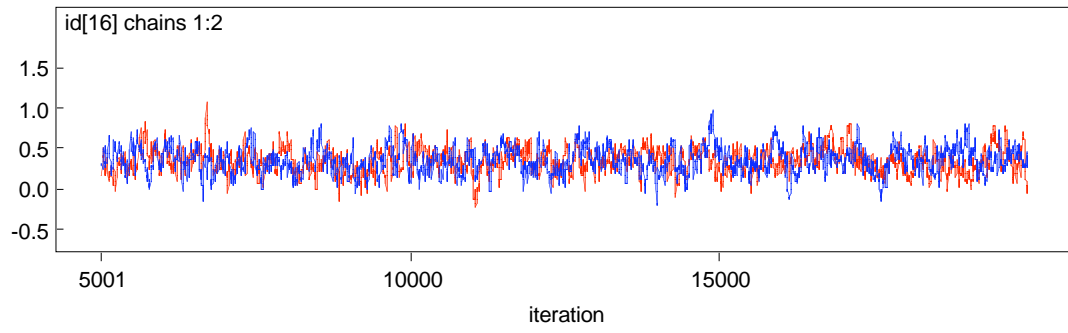
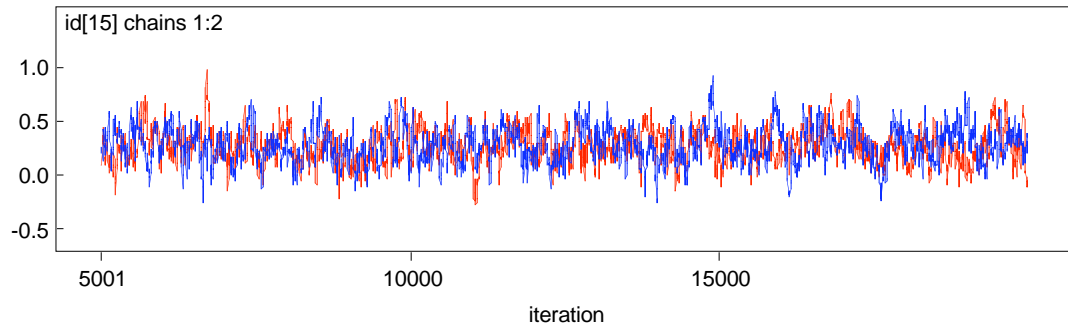
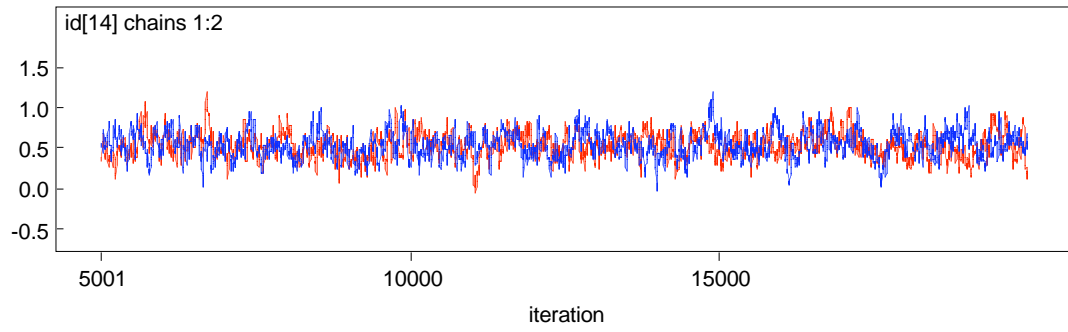


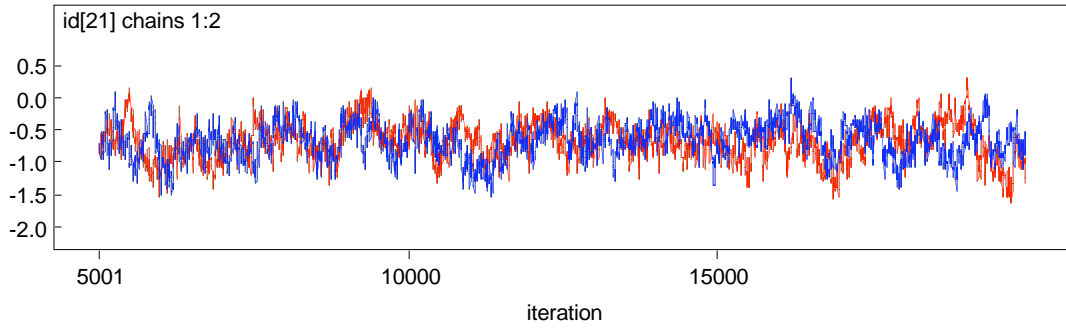
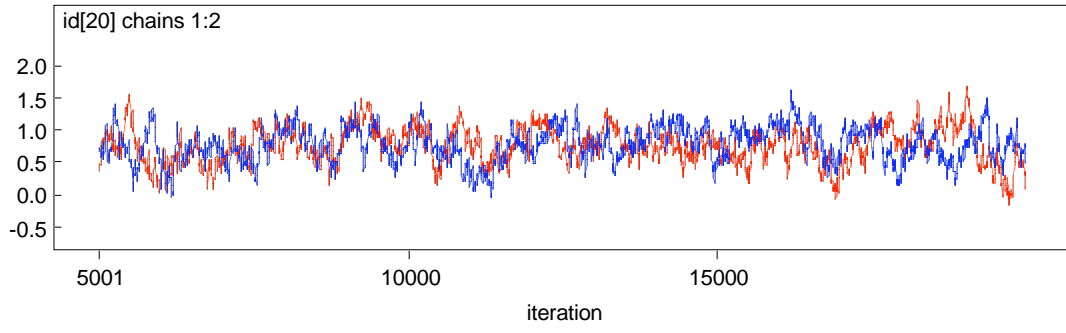
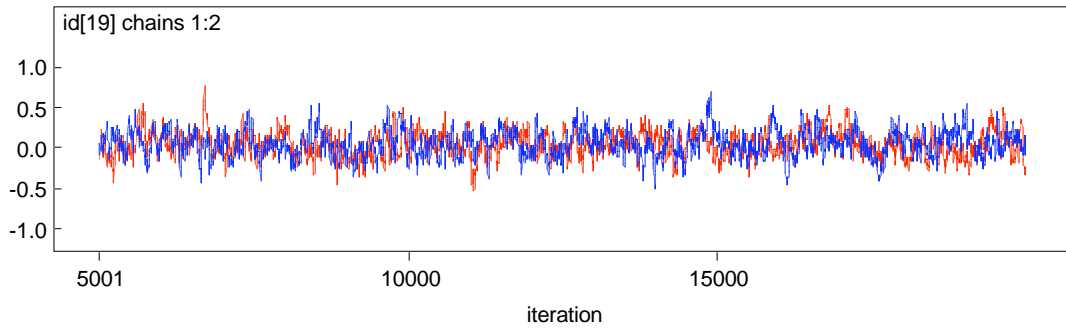
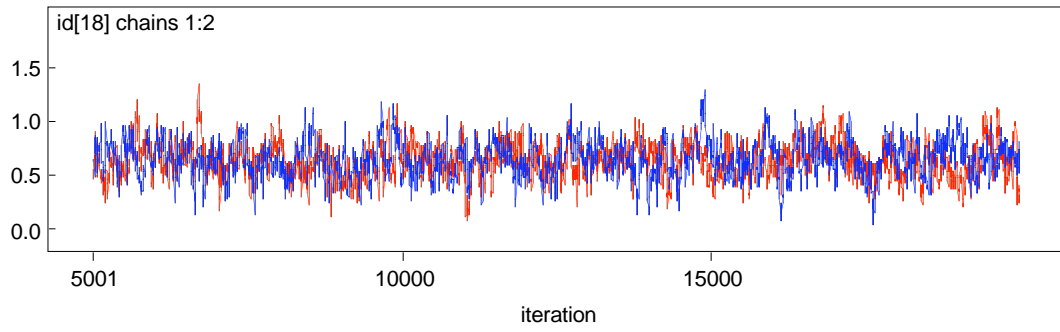


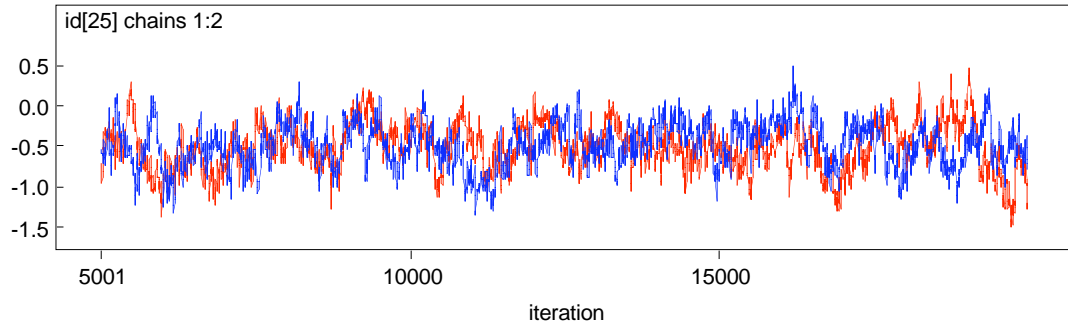
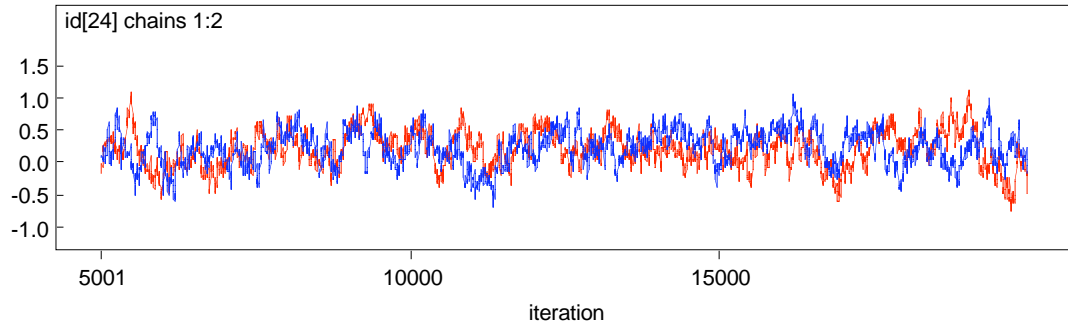
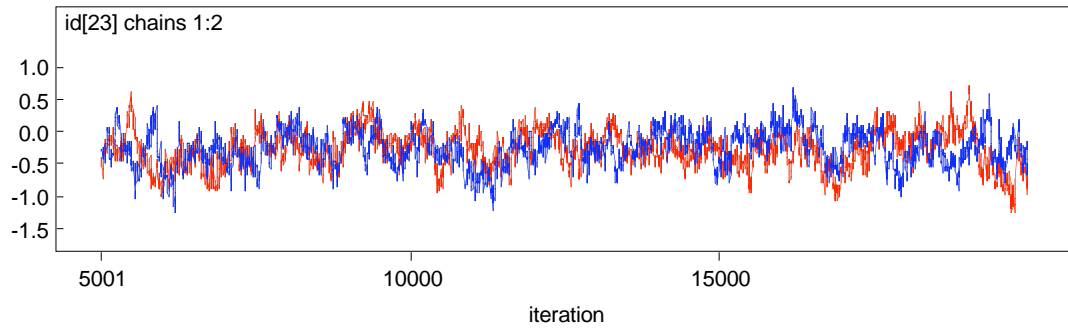
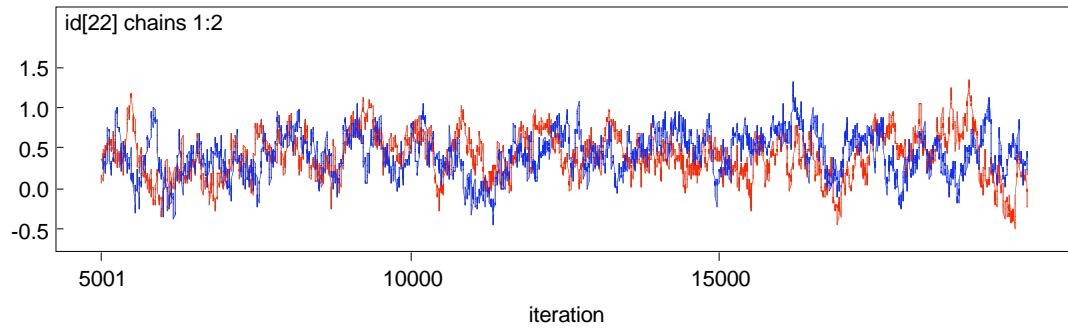


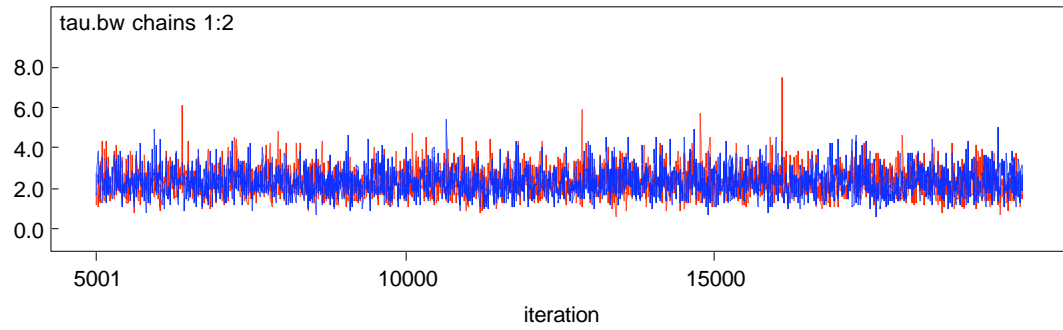
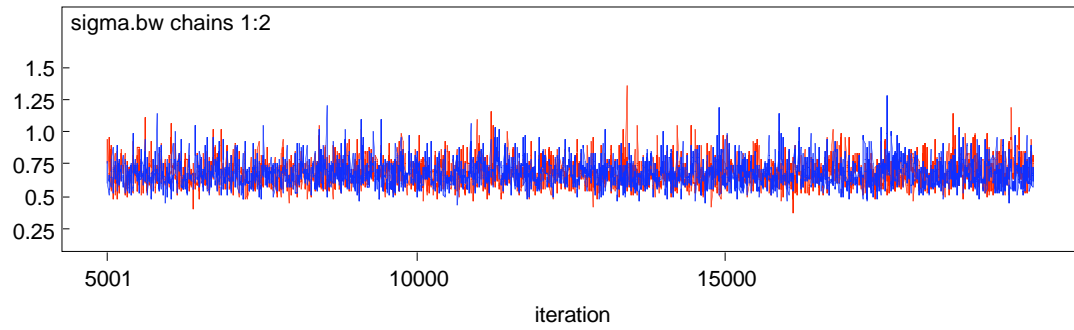




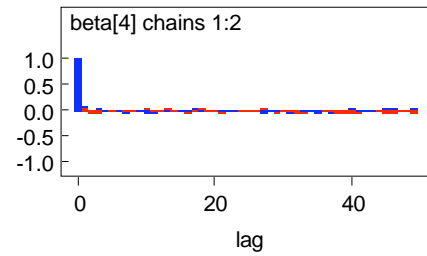
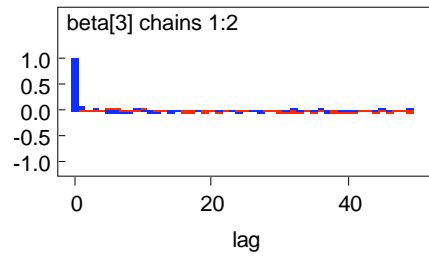
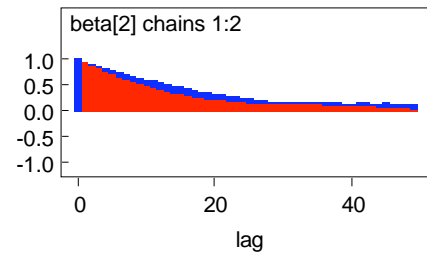
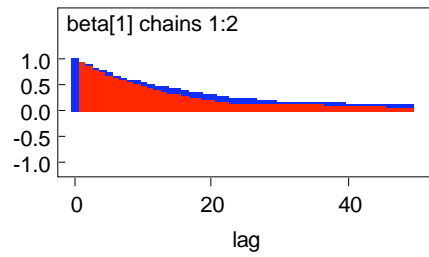


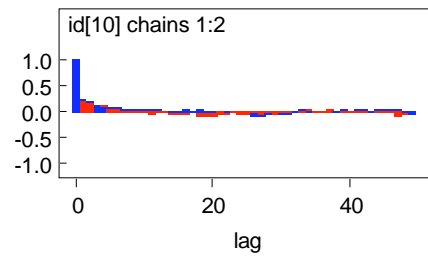
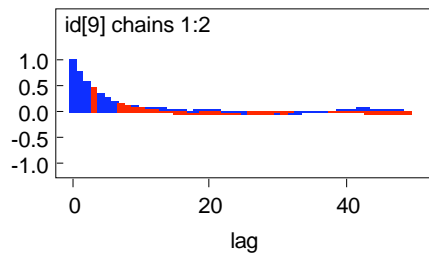
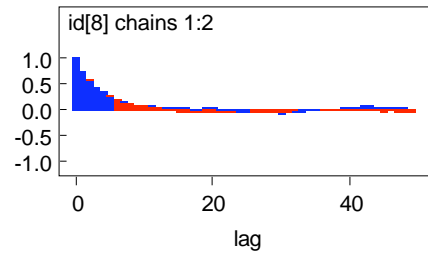
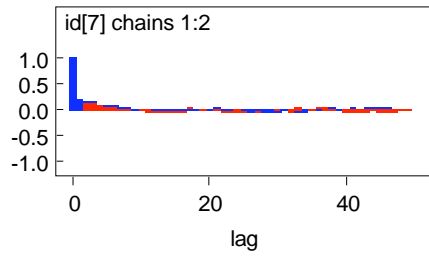
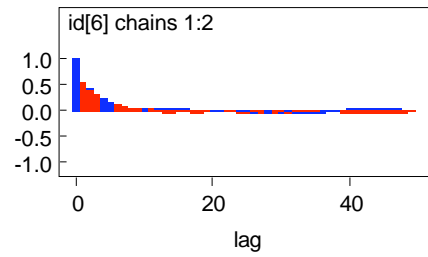
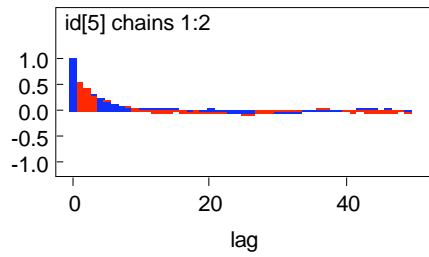
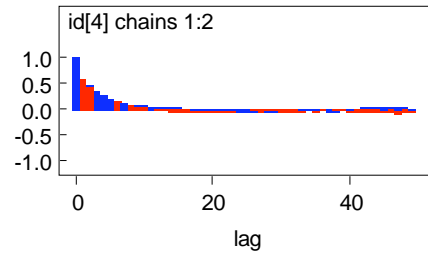
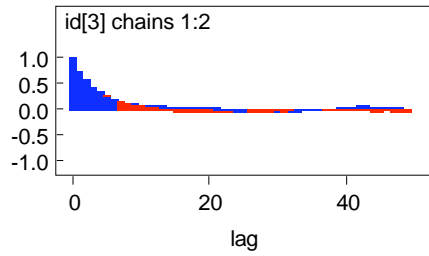
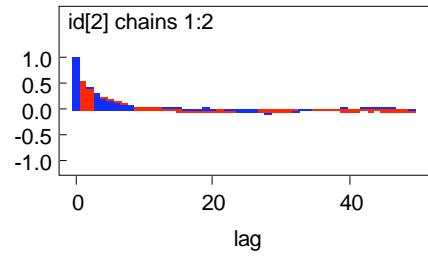
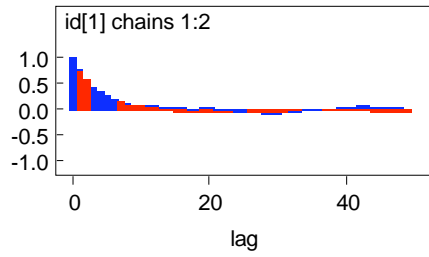
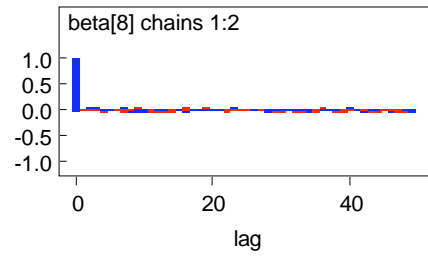
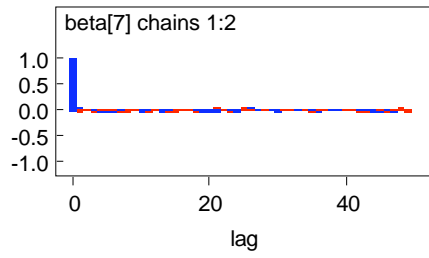


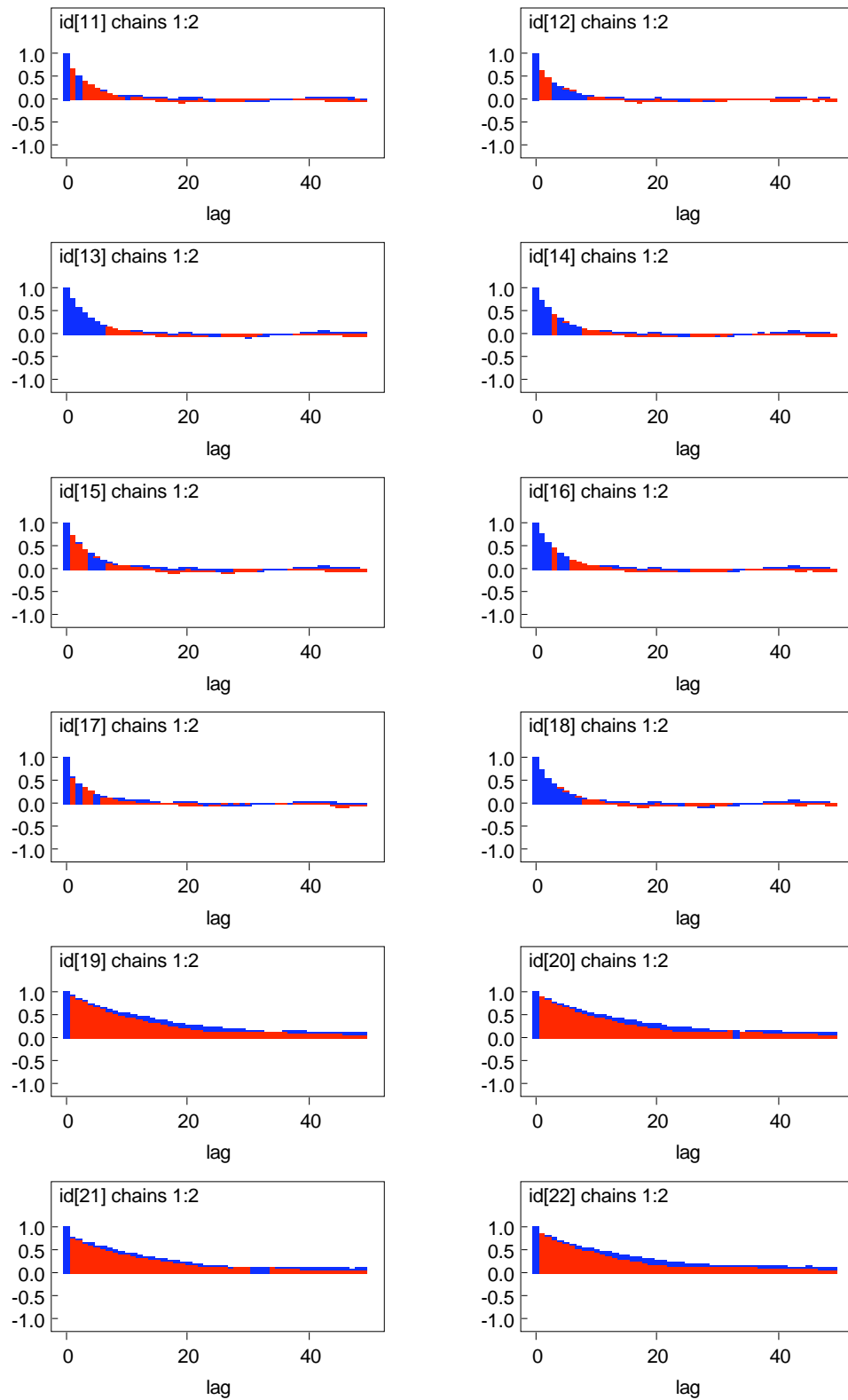


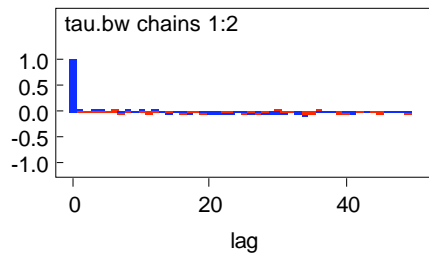
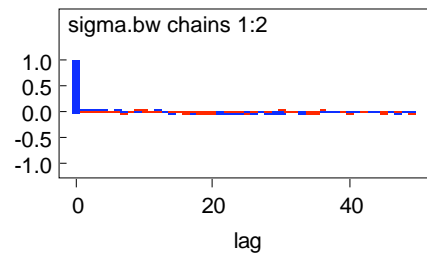
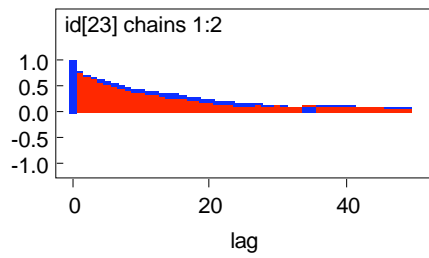


Road Citizenry Data Auto Correlation

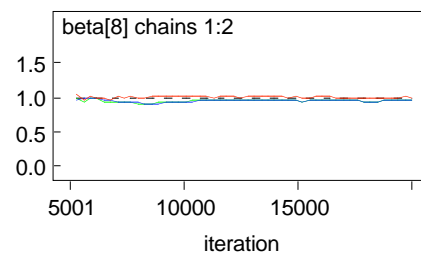
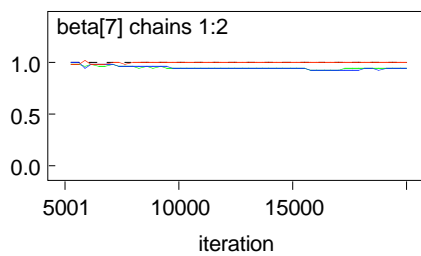
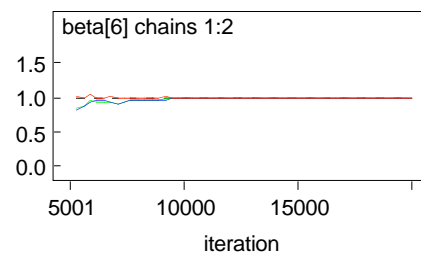
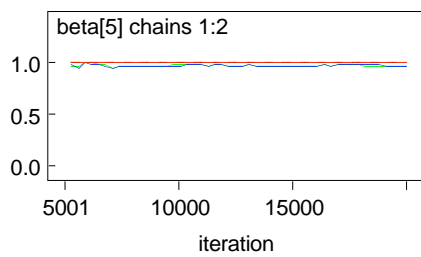
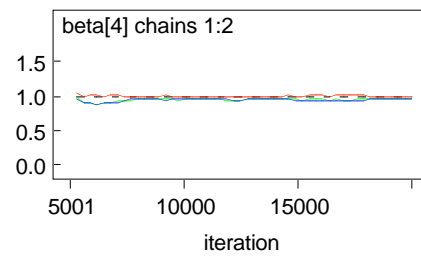
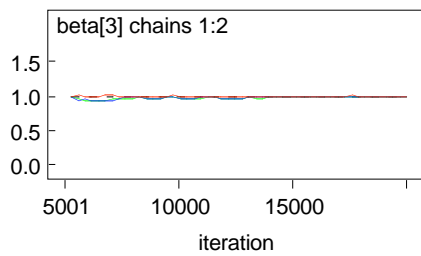
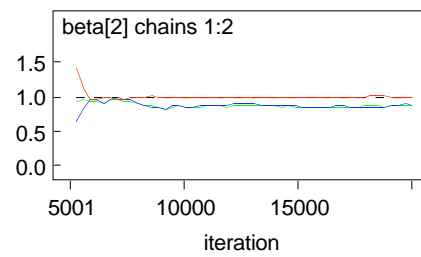
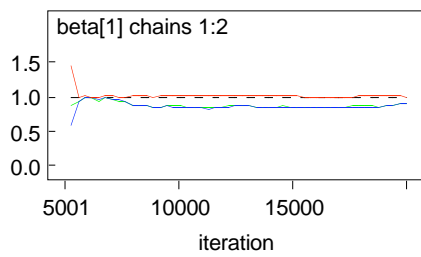


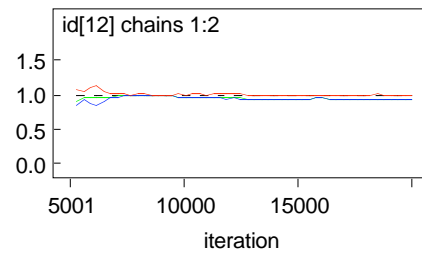
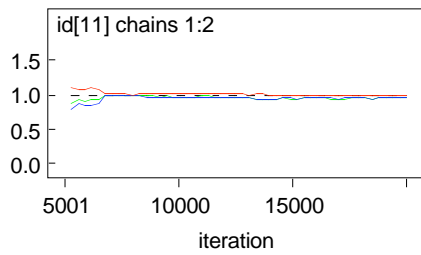
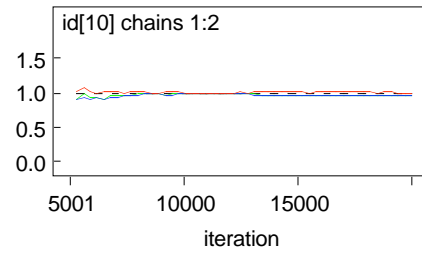
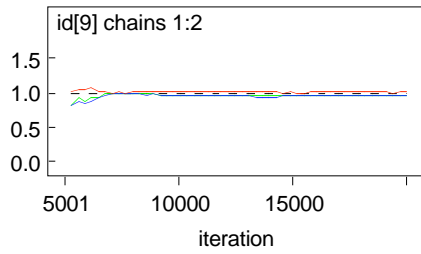
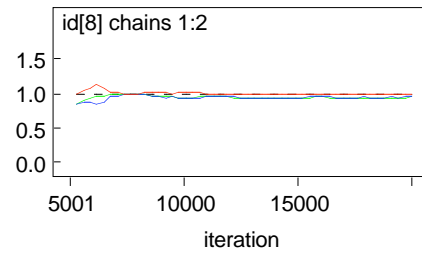
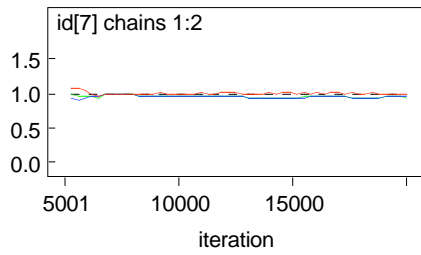
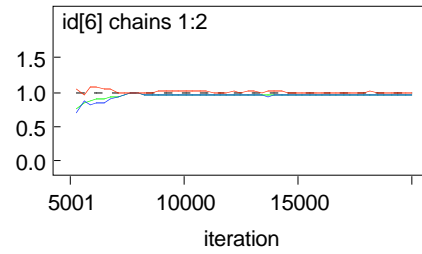
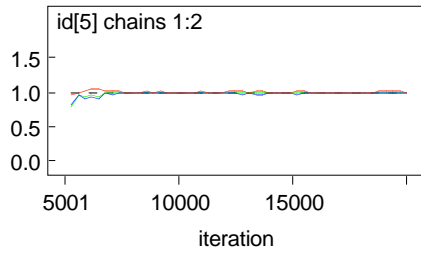
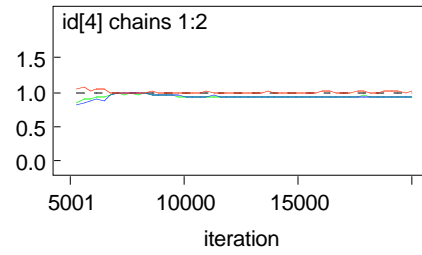
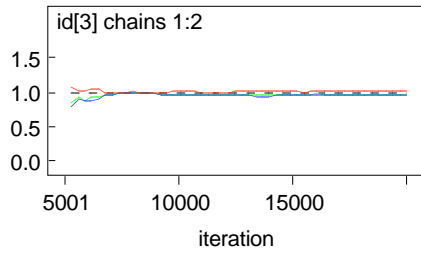
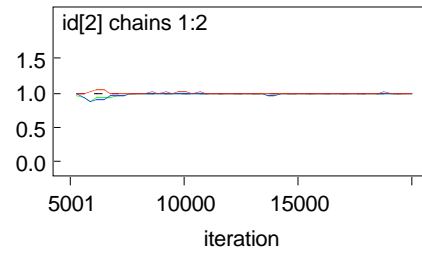
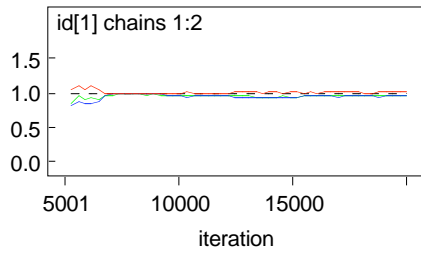


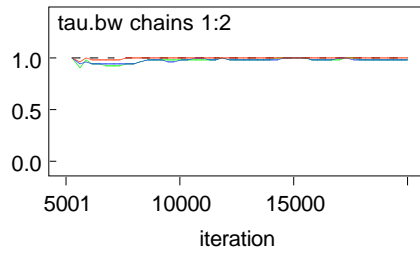




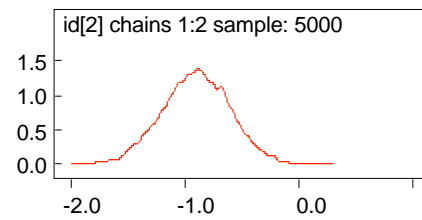
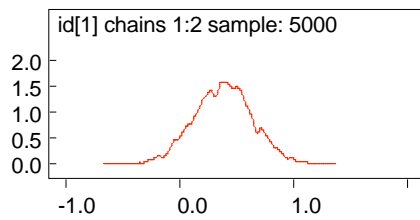
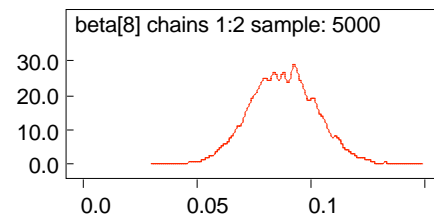
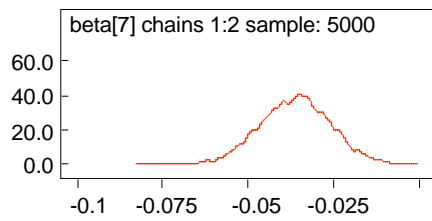
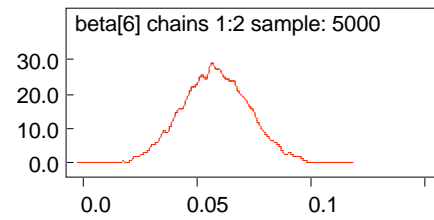
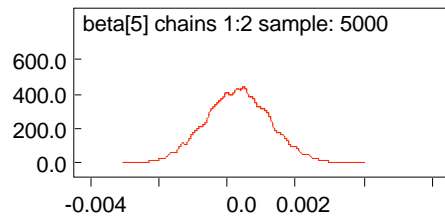
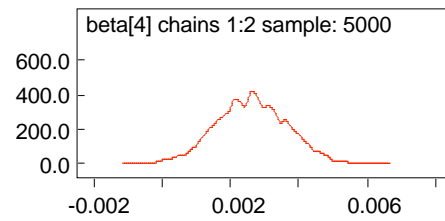
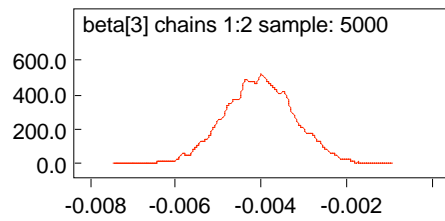
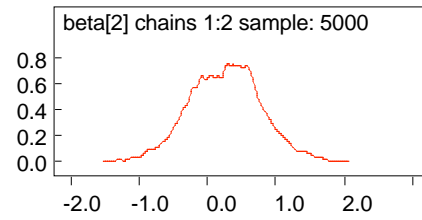
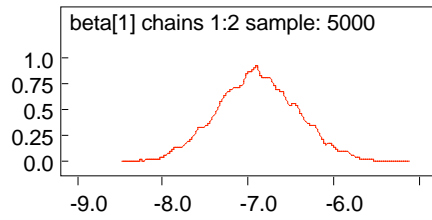
Road Citizenry Data Gelman Rubin Statistic

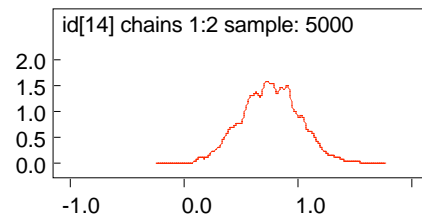
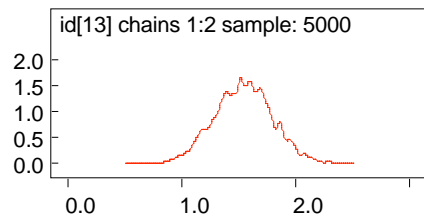
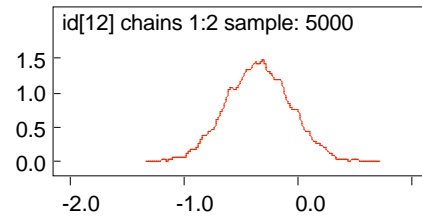
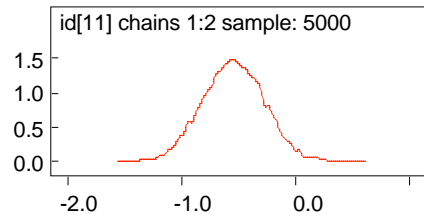
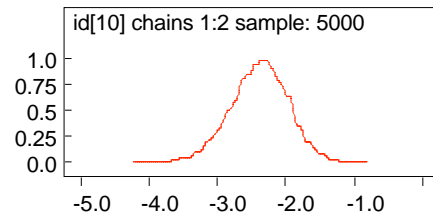
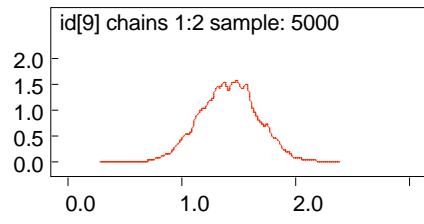
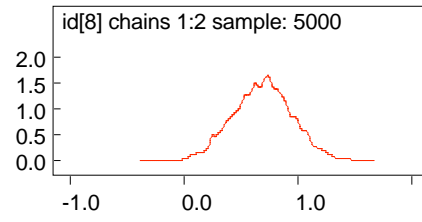
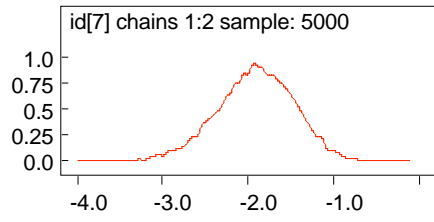
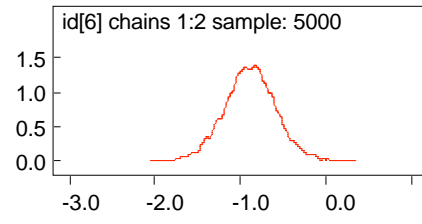
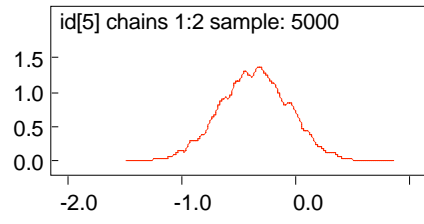
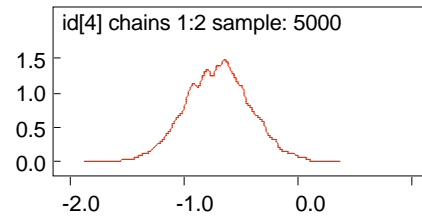
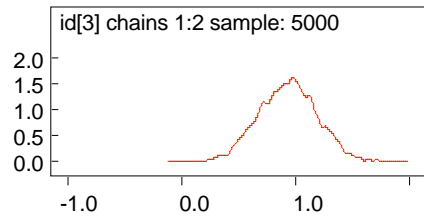


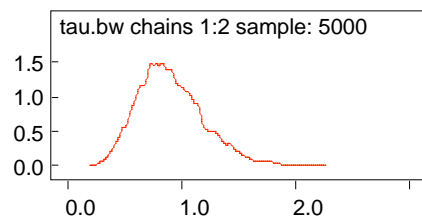
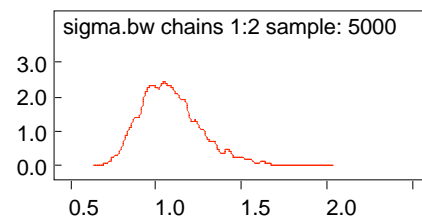
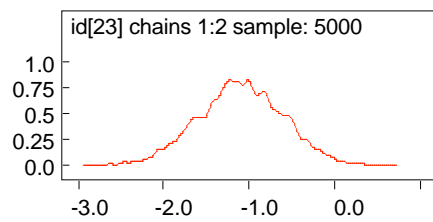
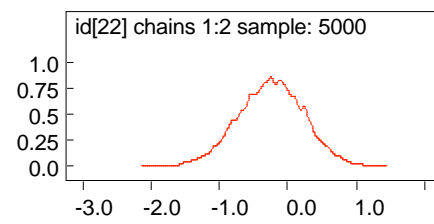
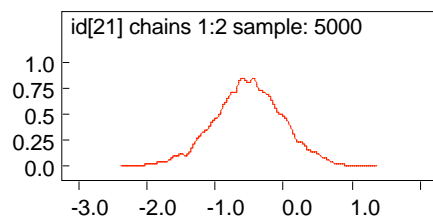
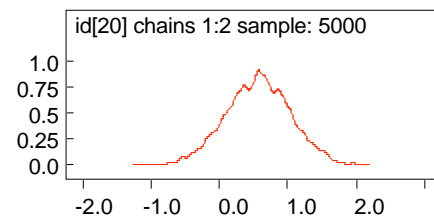
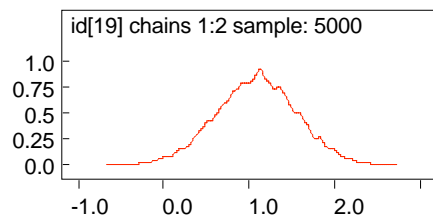
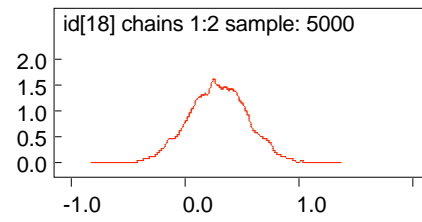
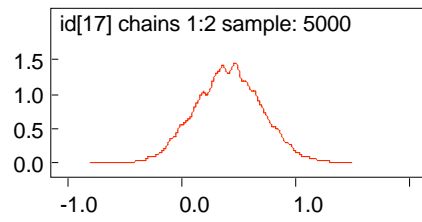
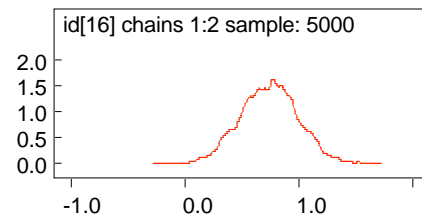
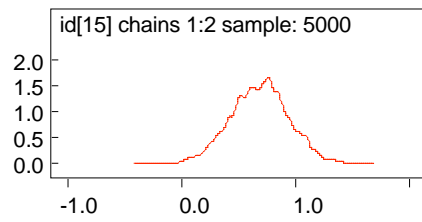




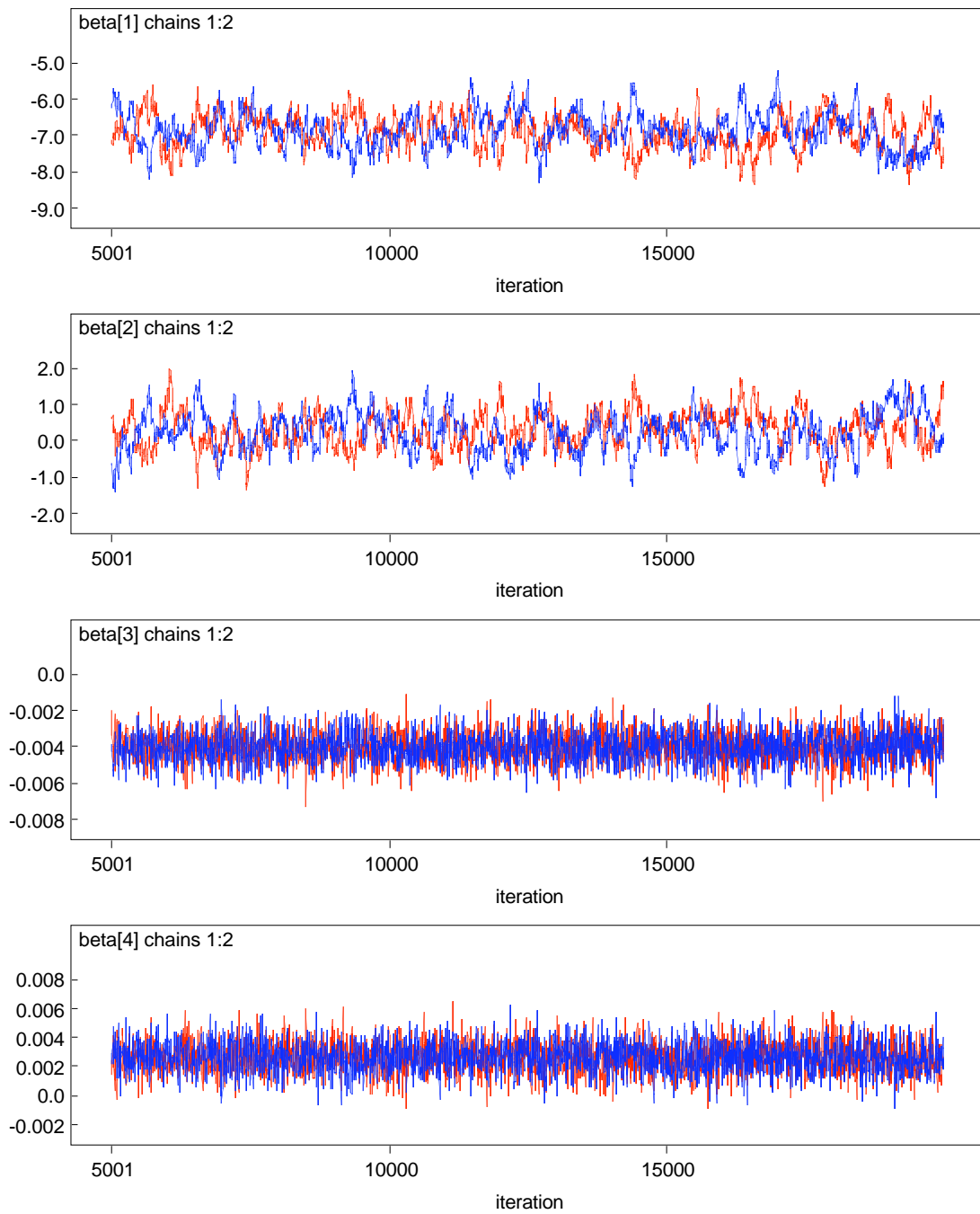
Road Citizenry Data Kernel Density

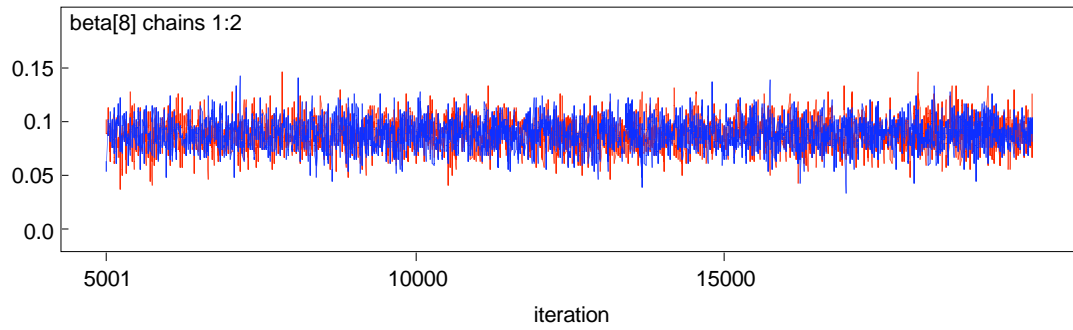
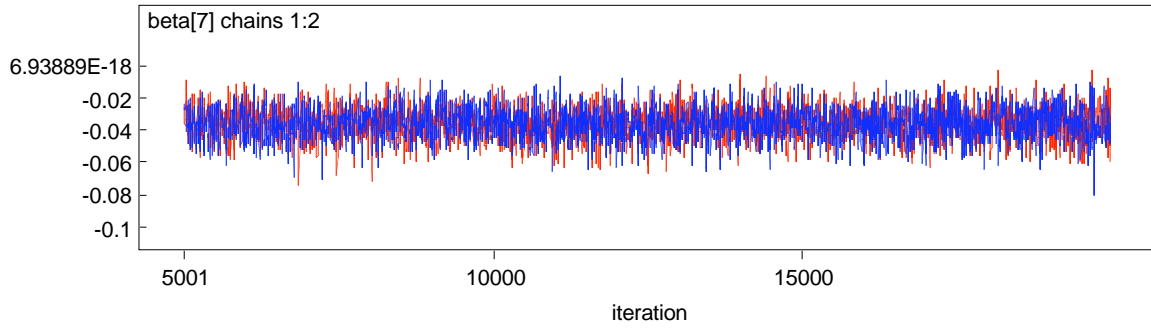
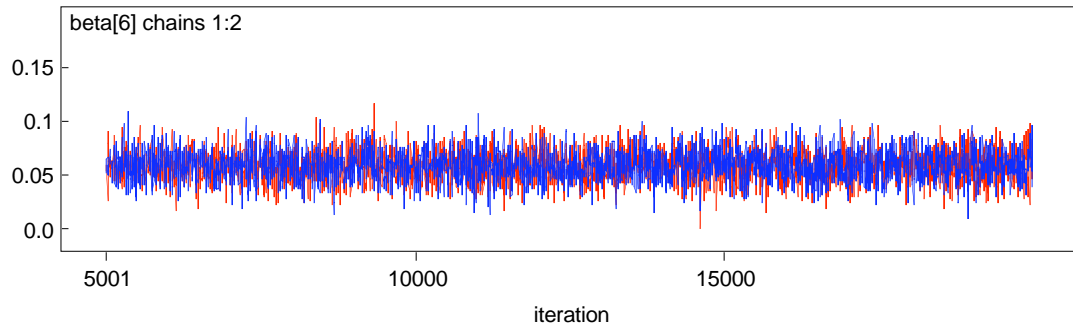
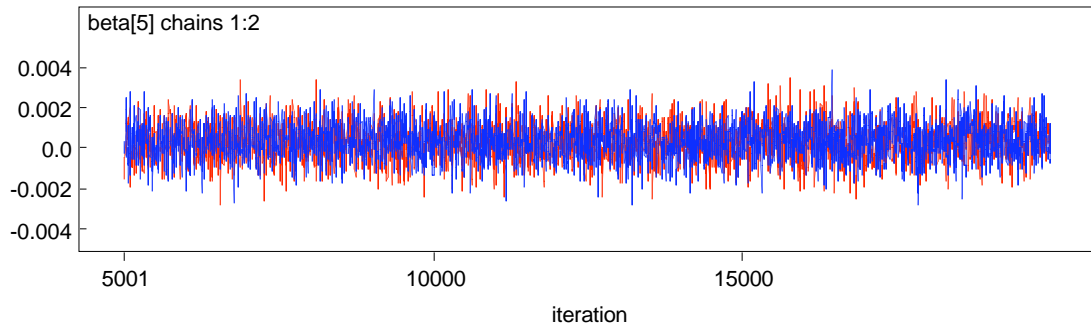


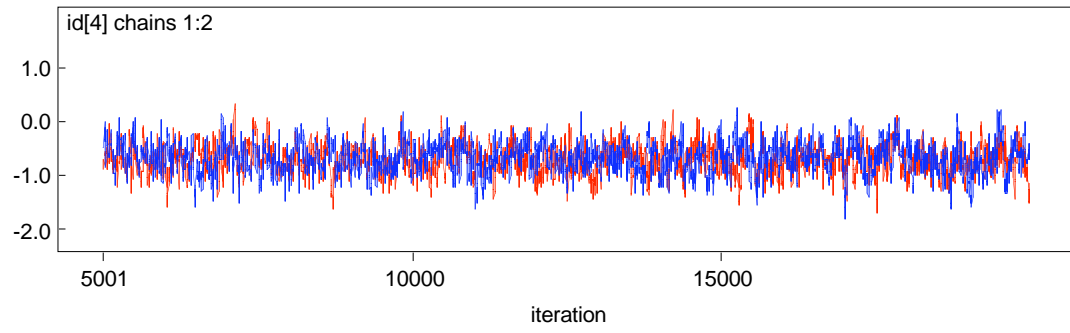
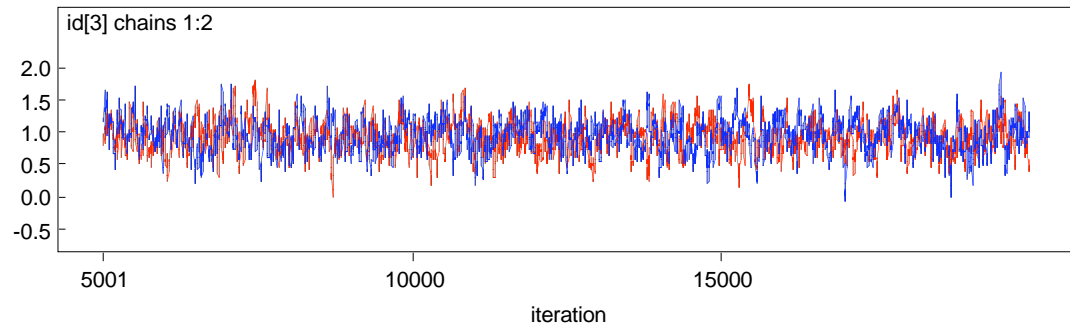
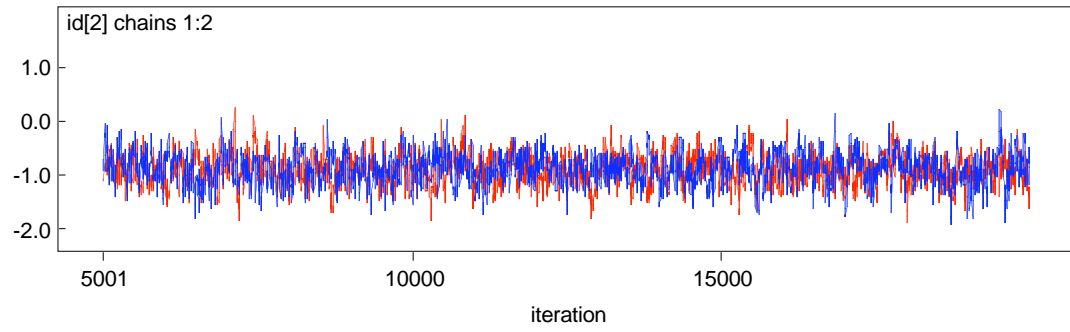
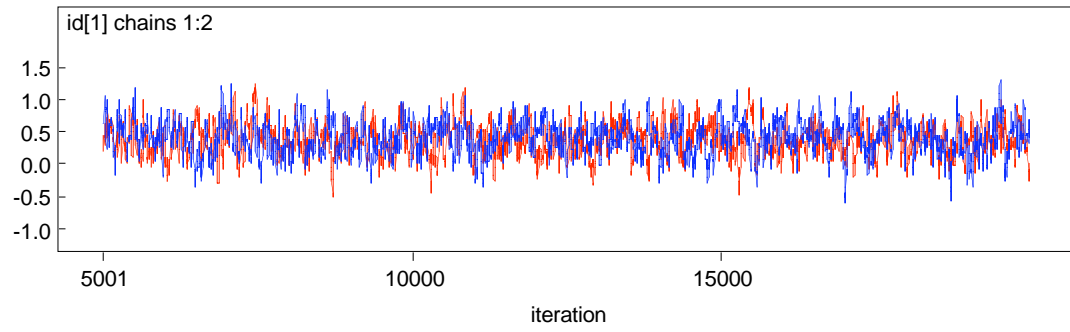


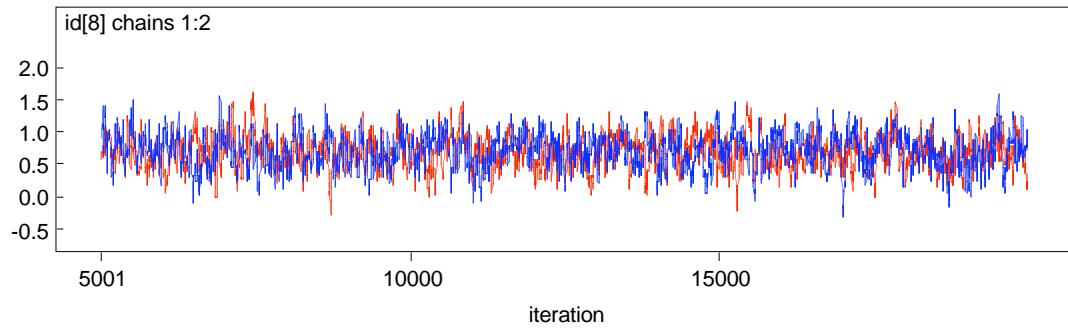
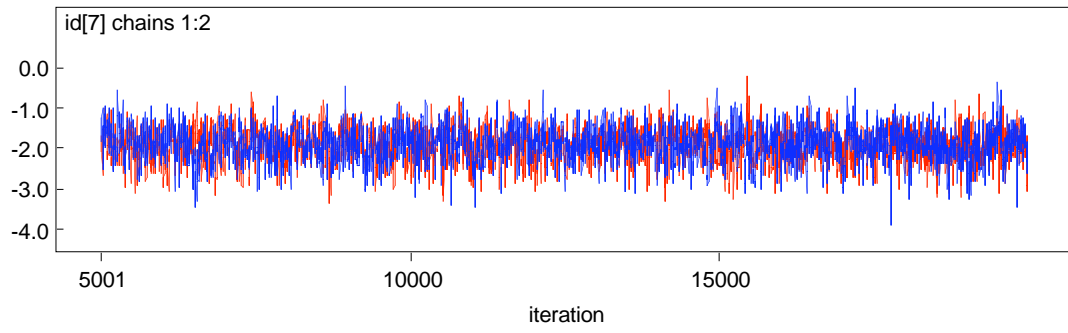
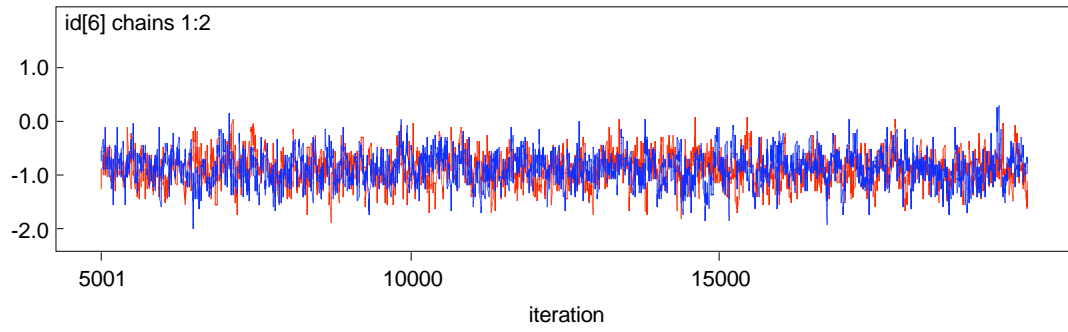
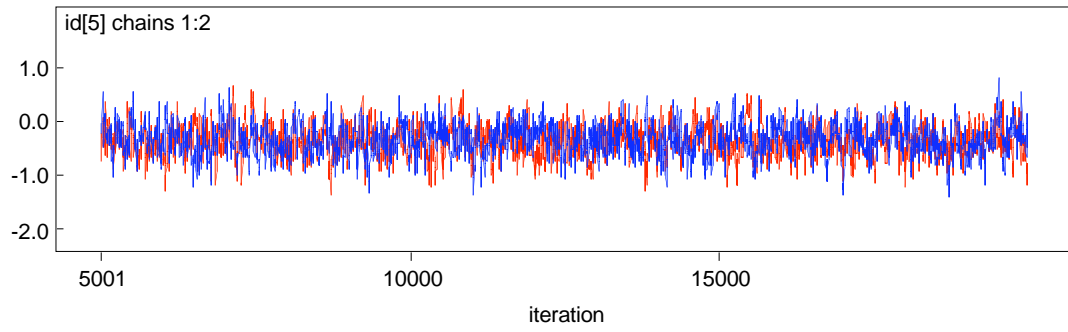


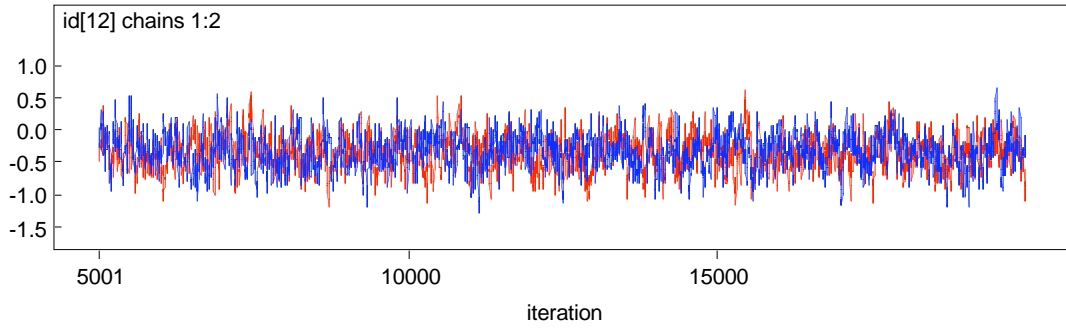
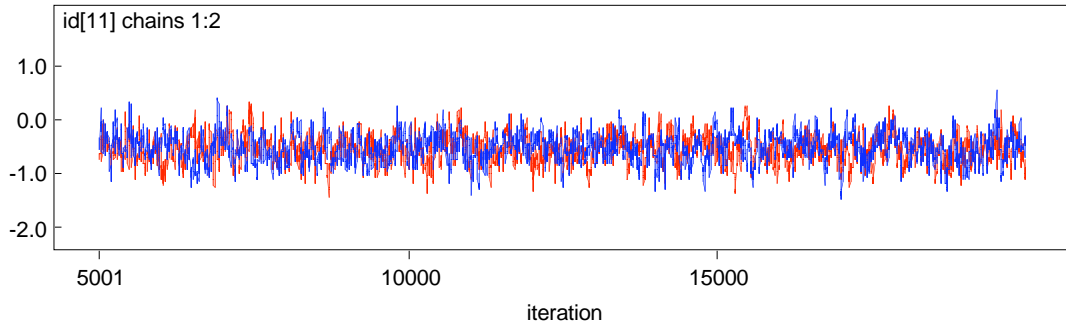
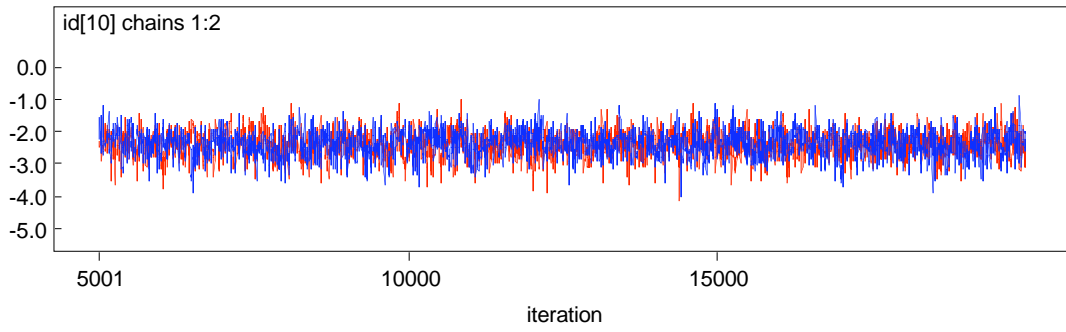
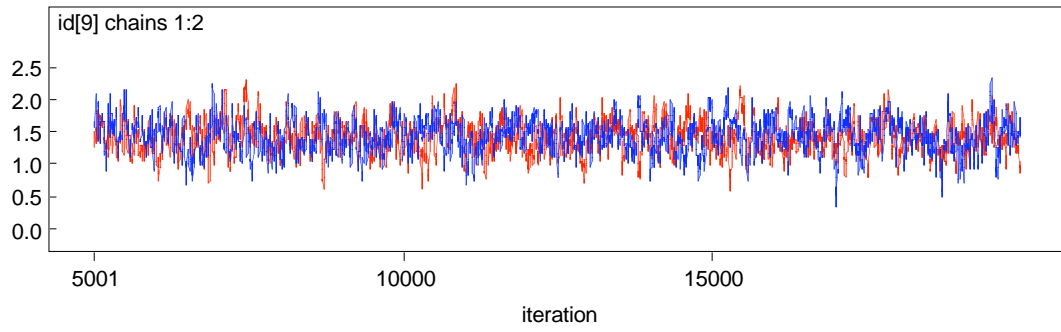
Road Citizenry Data Time Series

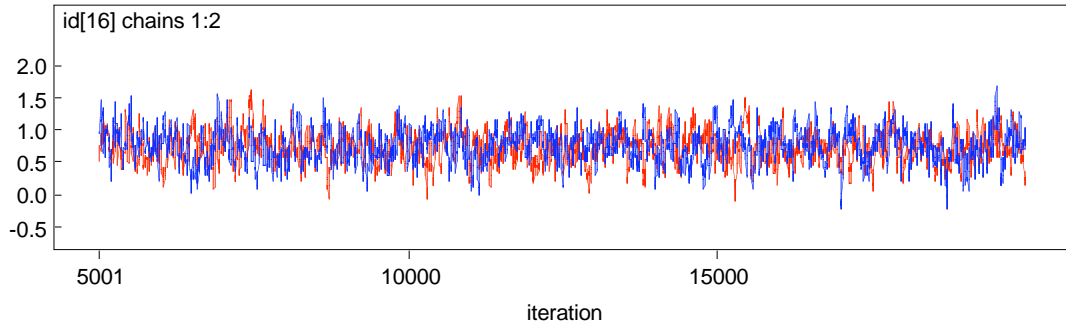
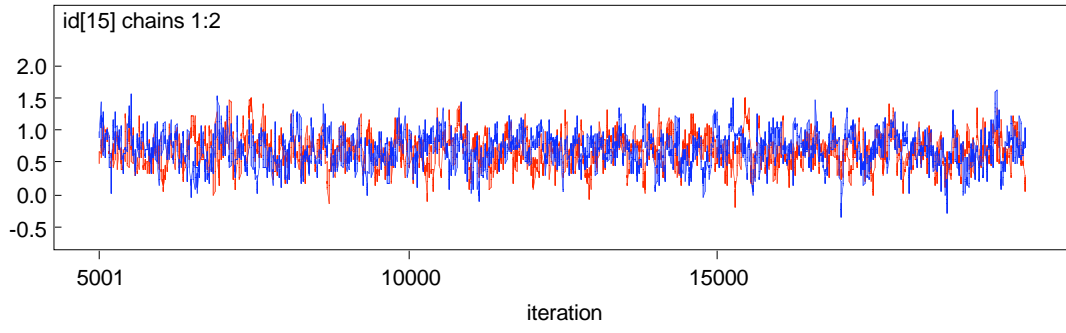
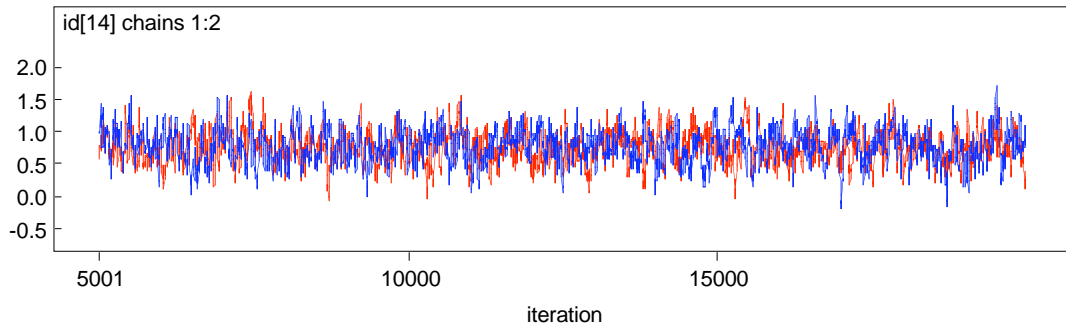
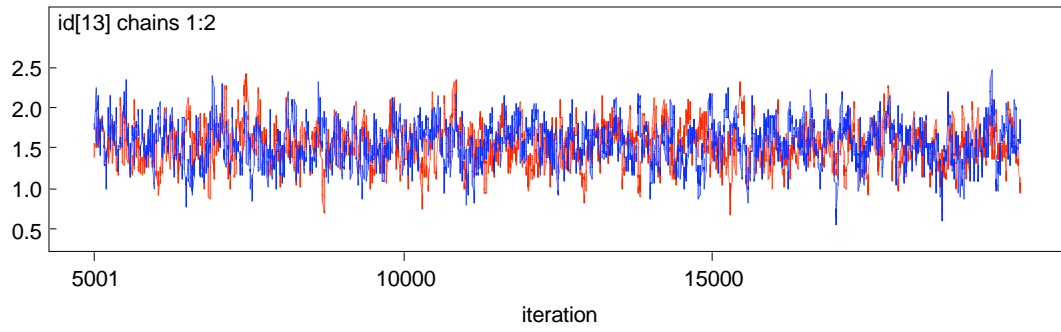


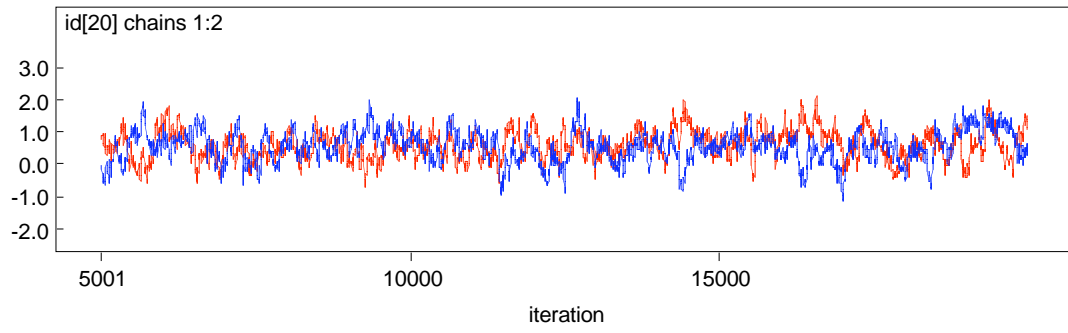
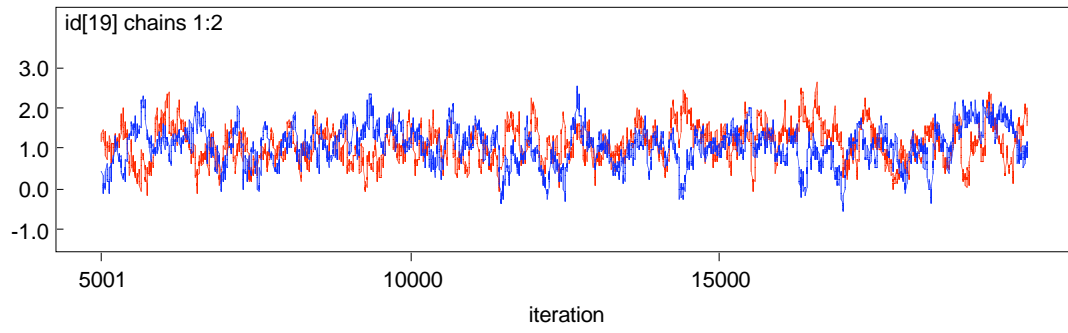
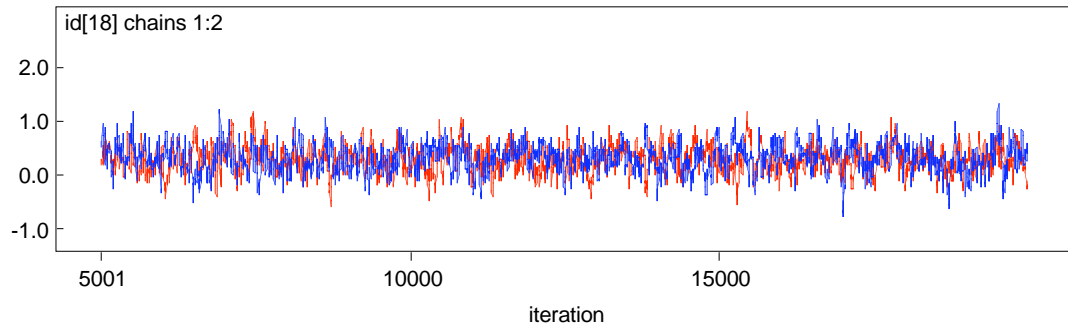
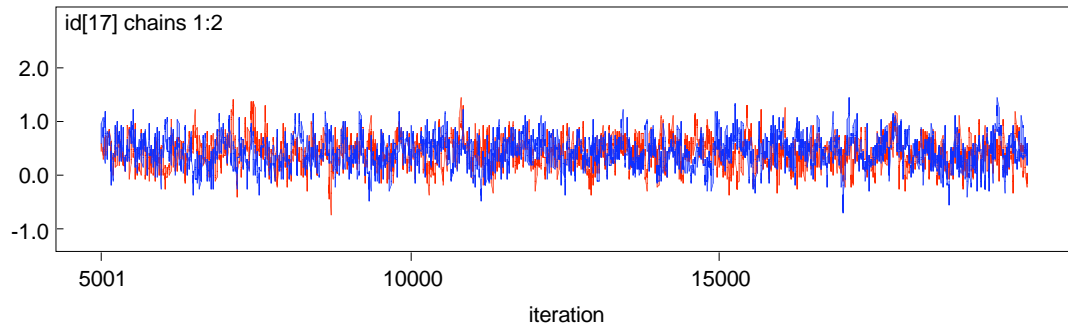


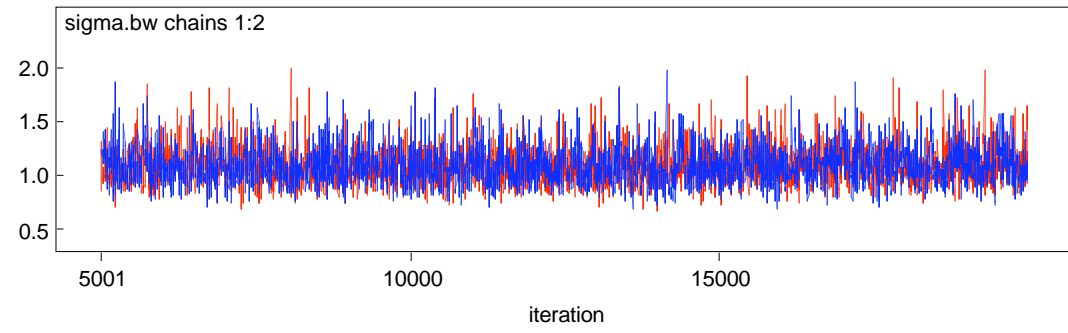
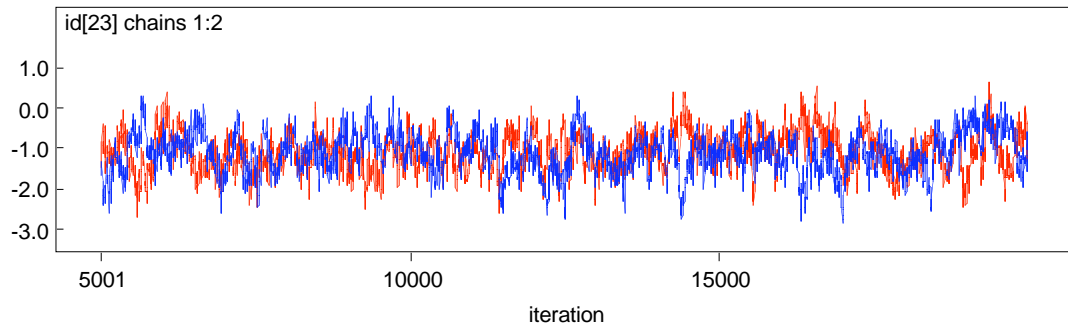
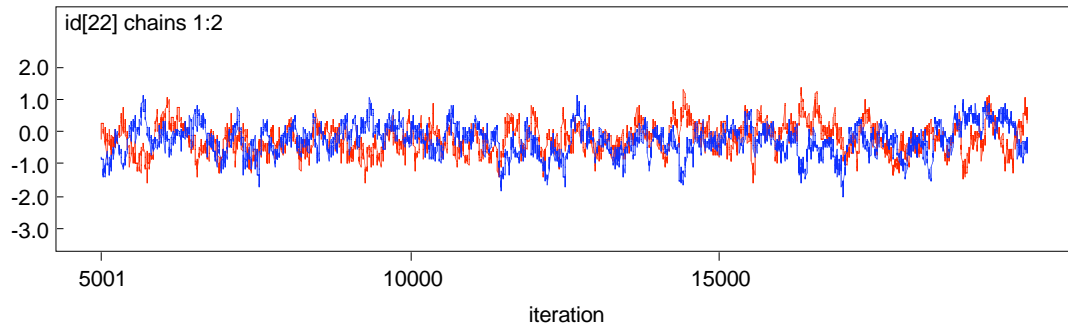
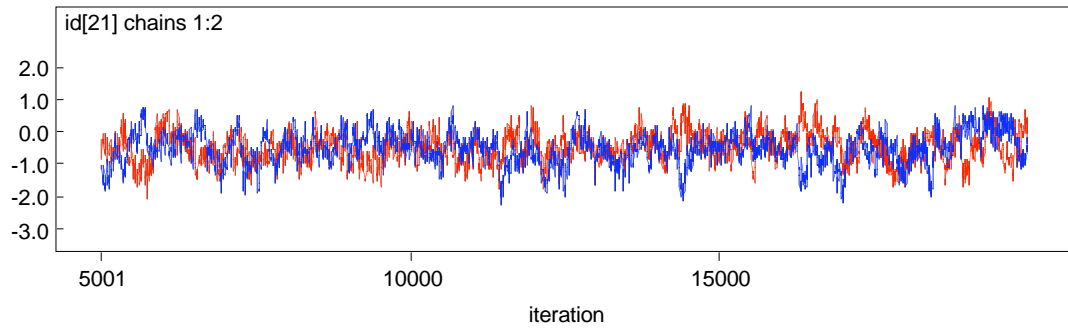


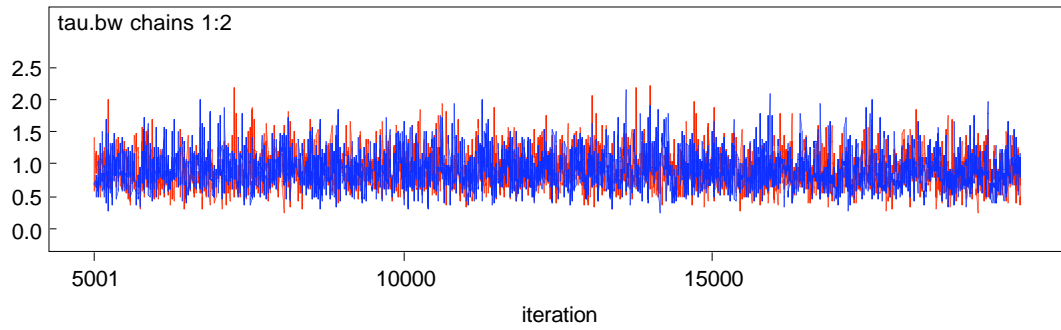




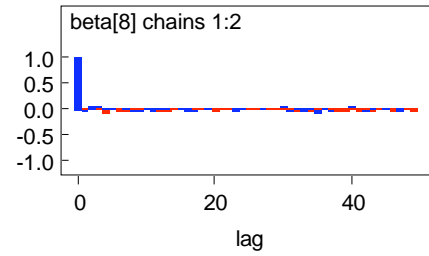
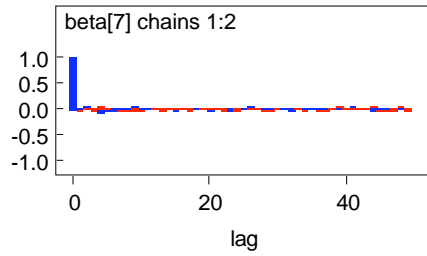
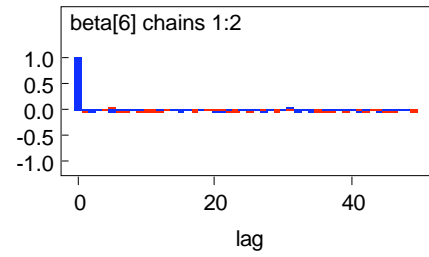
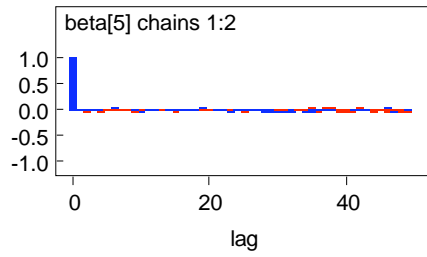
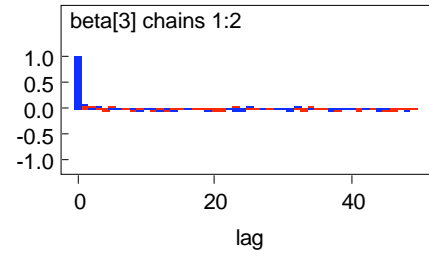
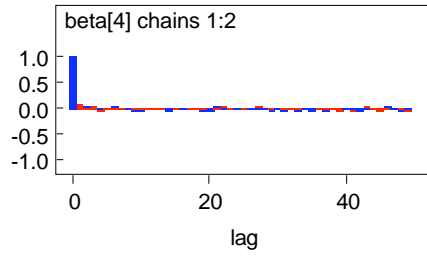
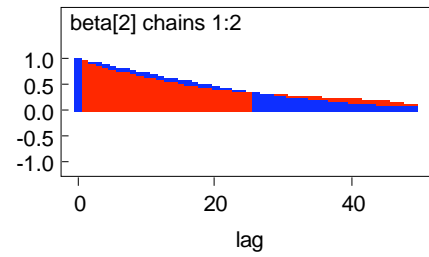
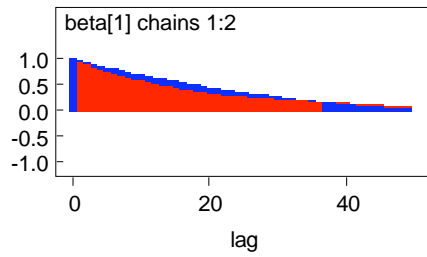


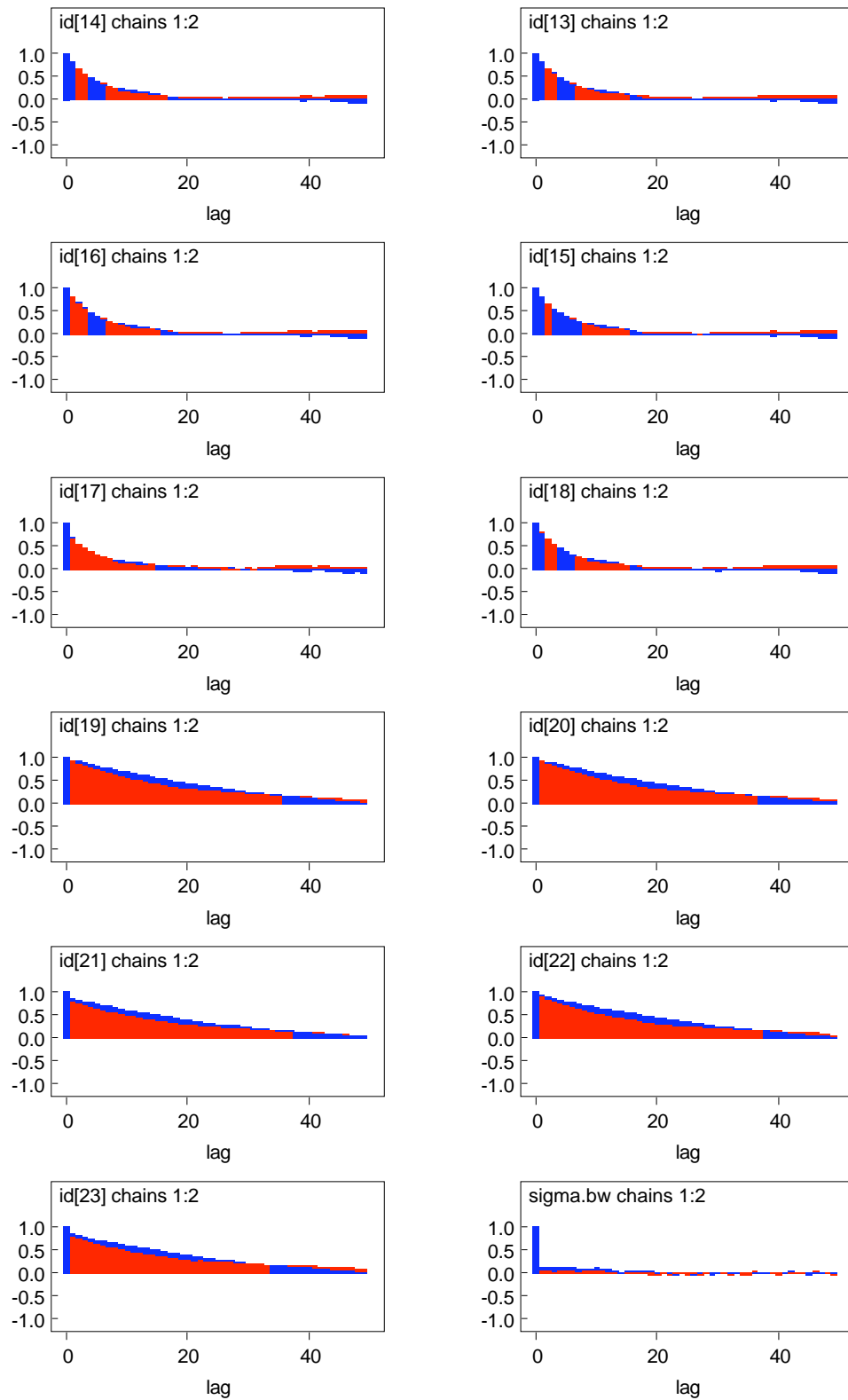


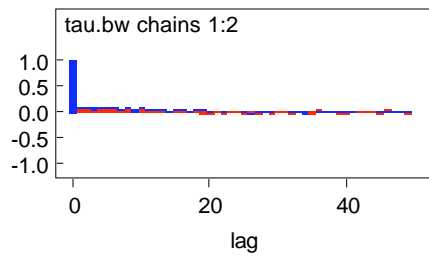




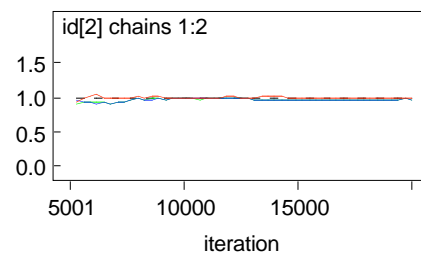
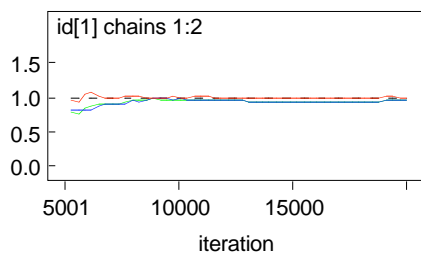
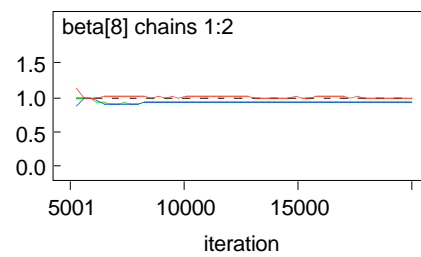
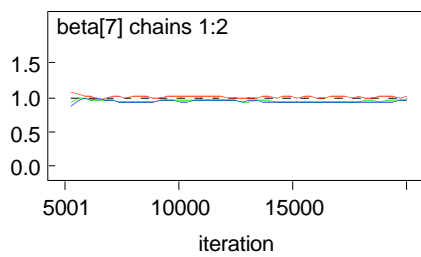
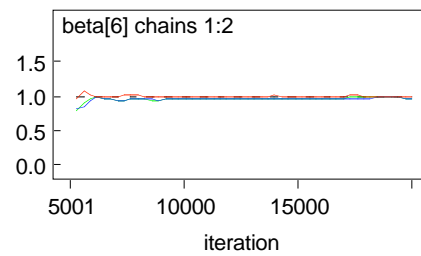
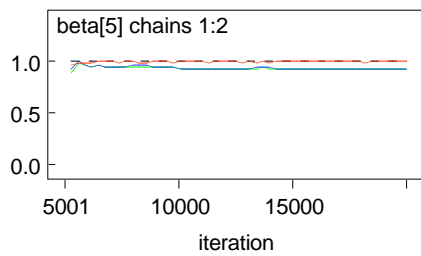
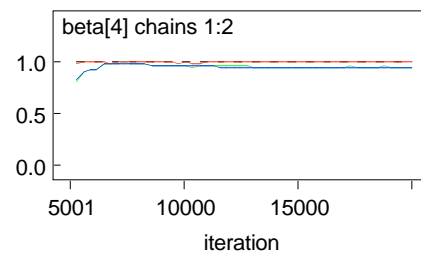
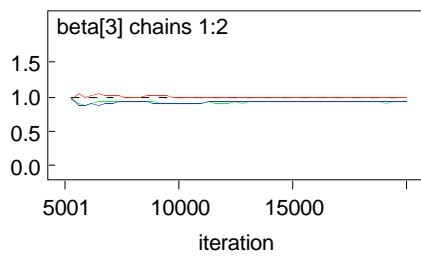
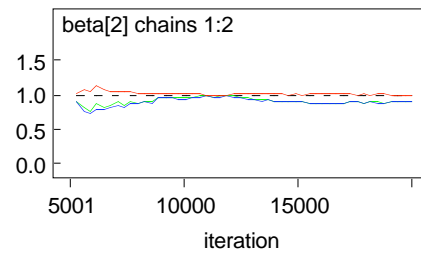
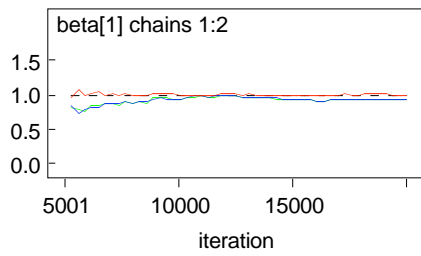
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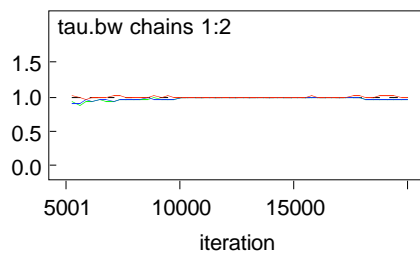
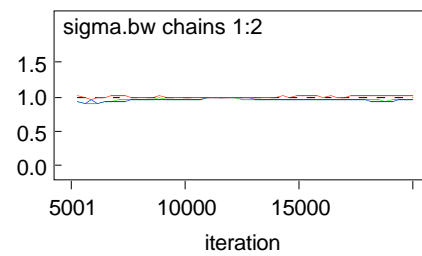
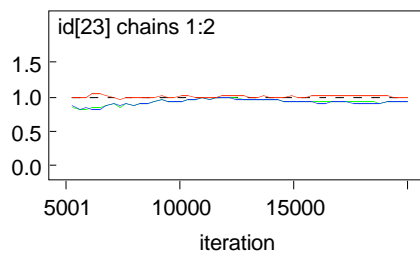
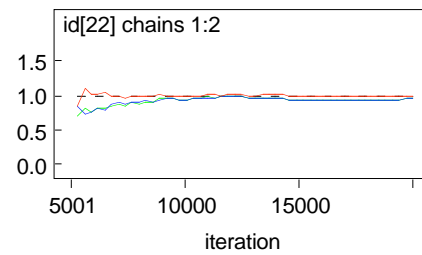
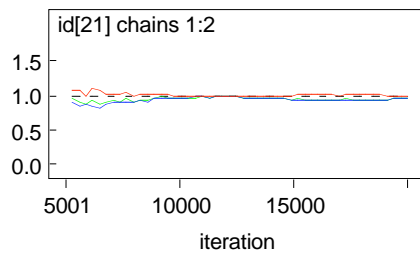
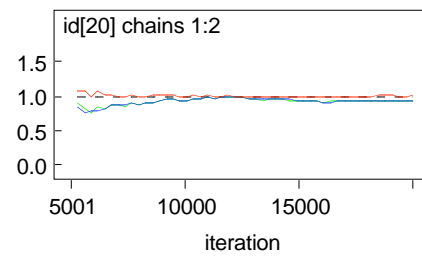
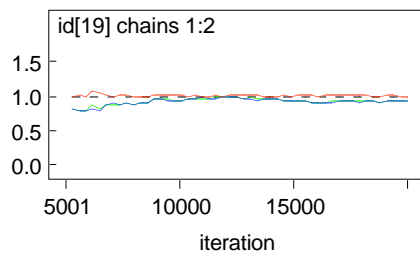
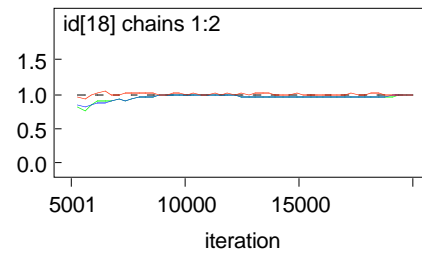
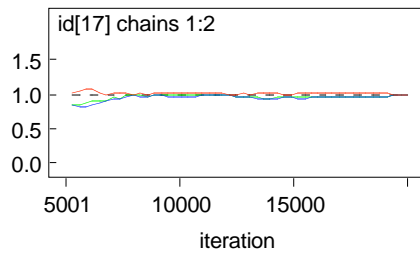
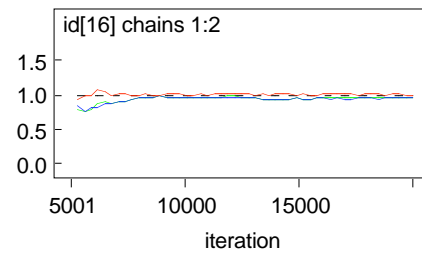
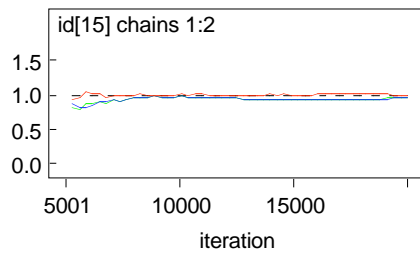




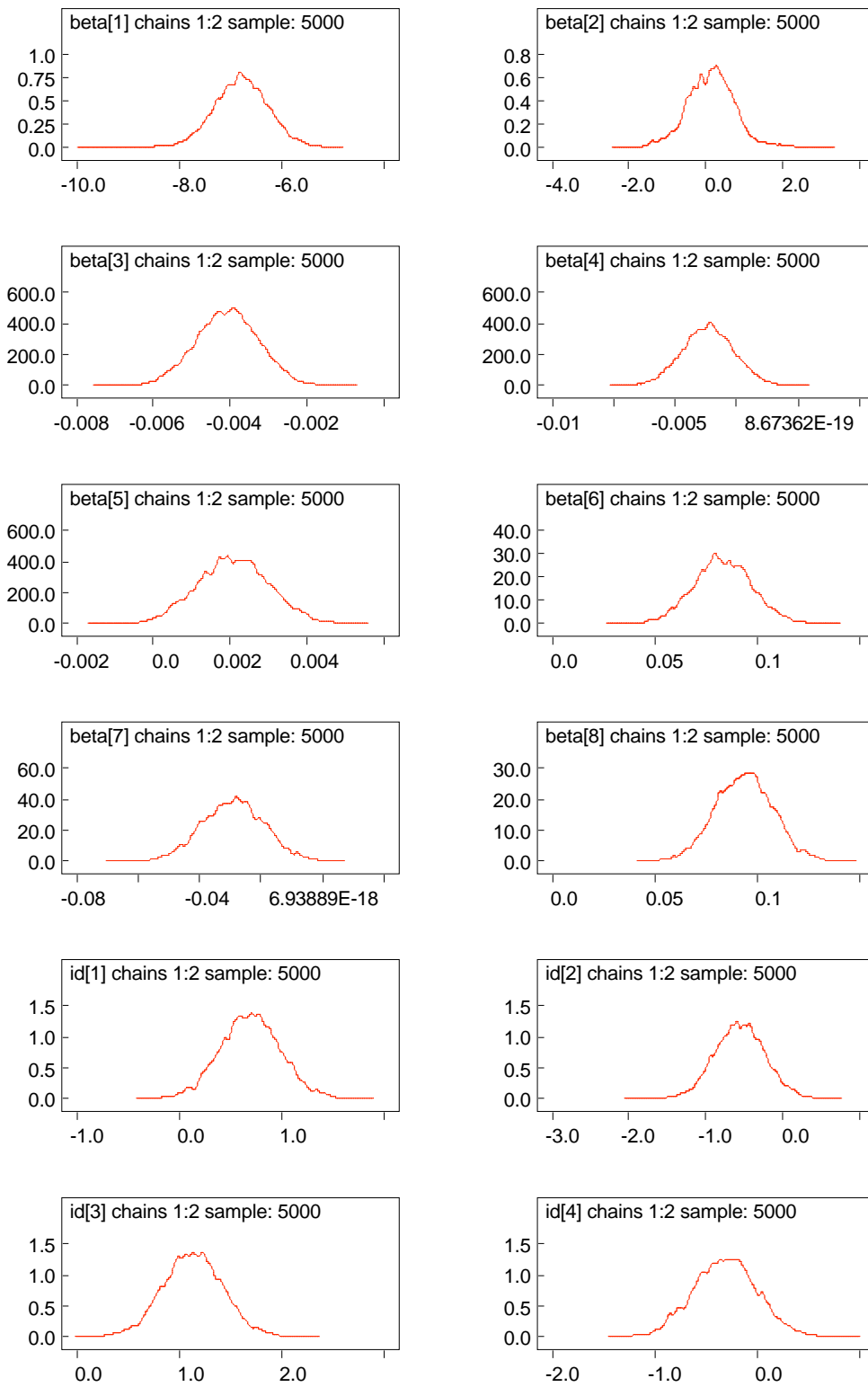


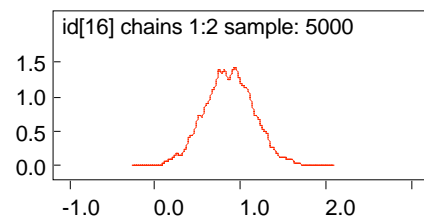
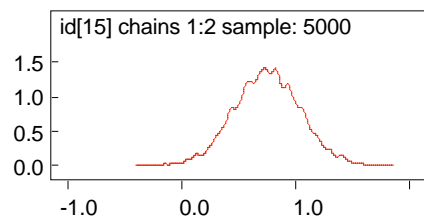
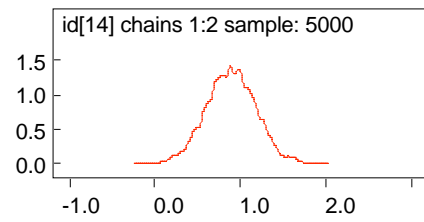
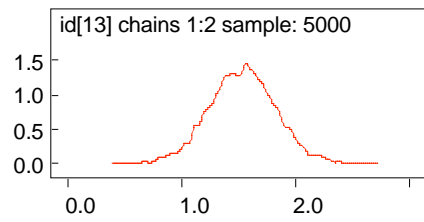
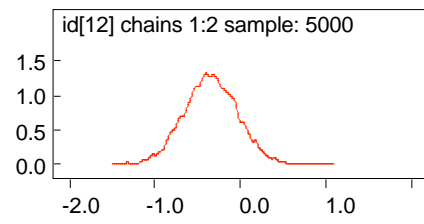
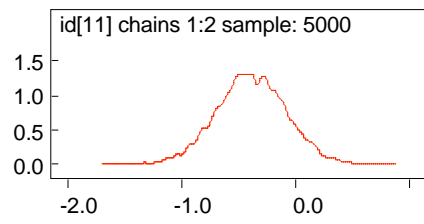
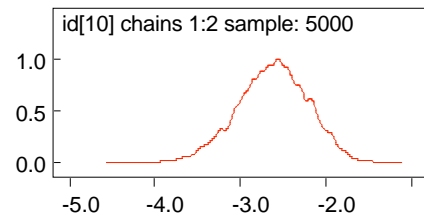
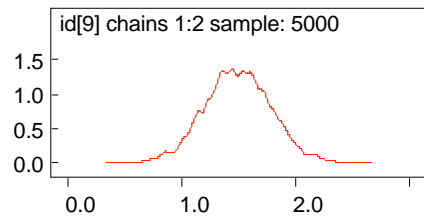
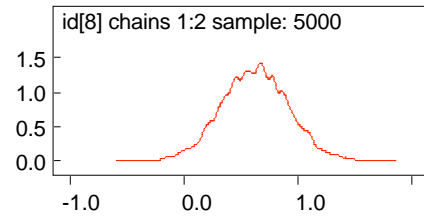
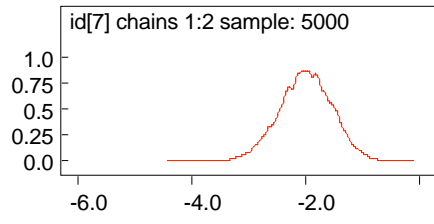
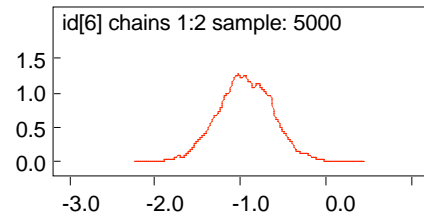
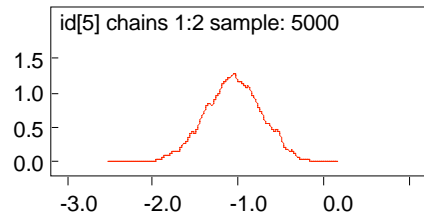
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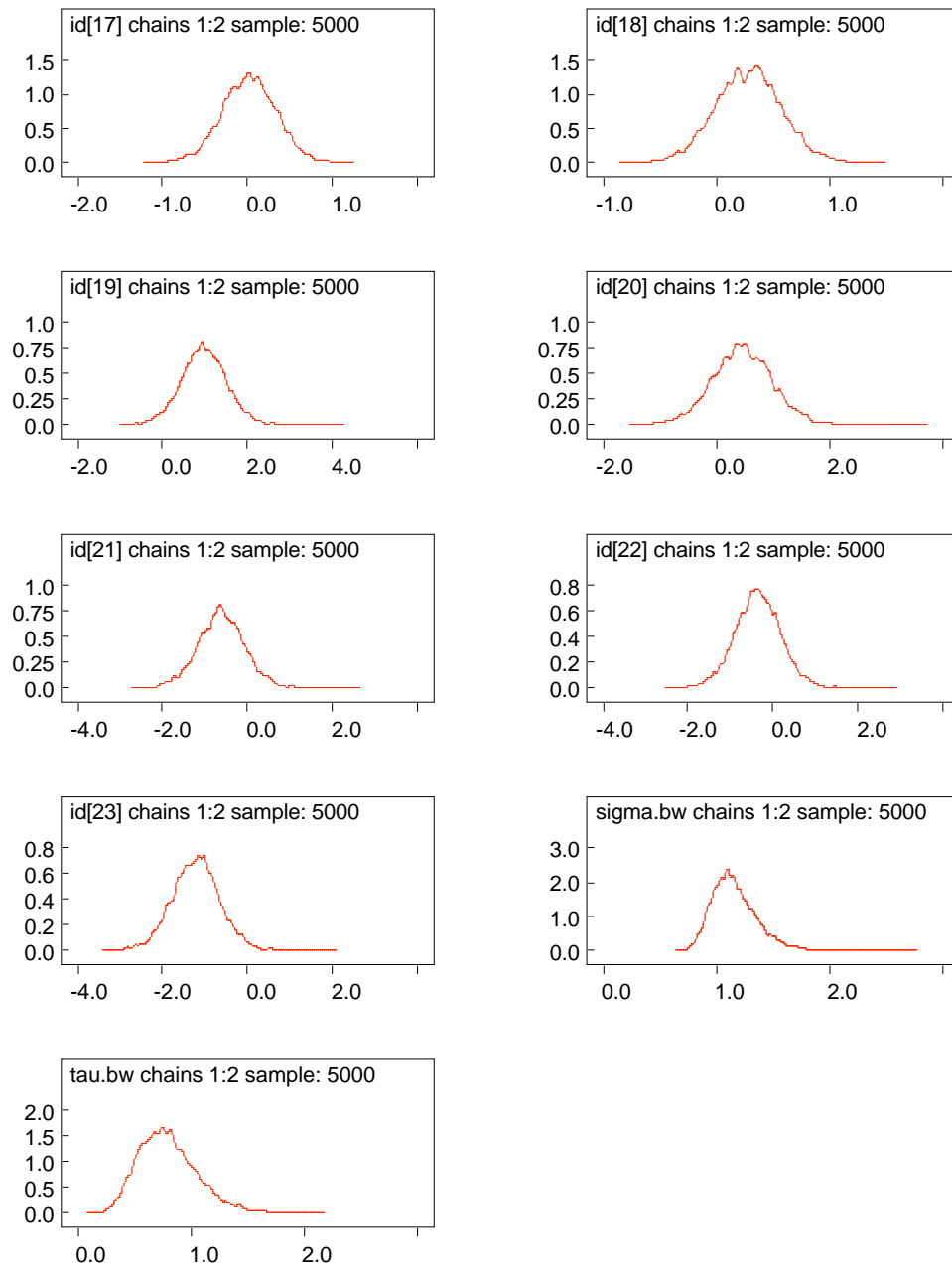




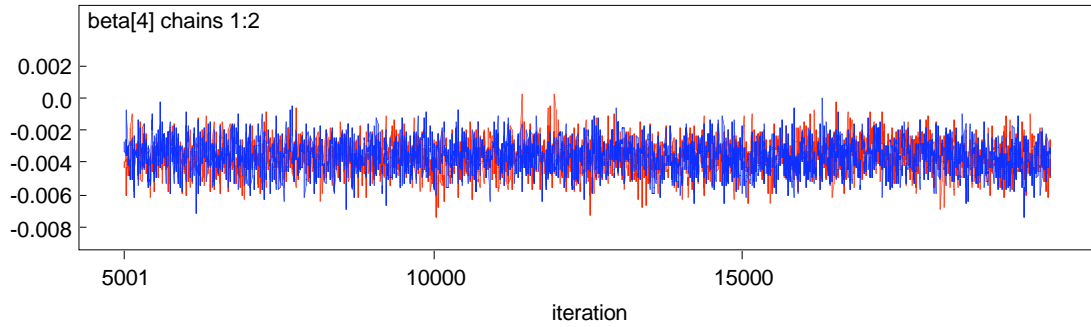
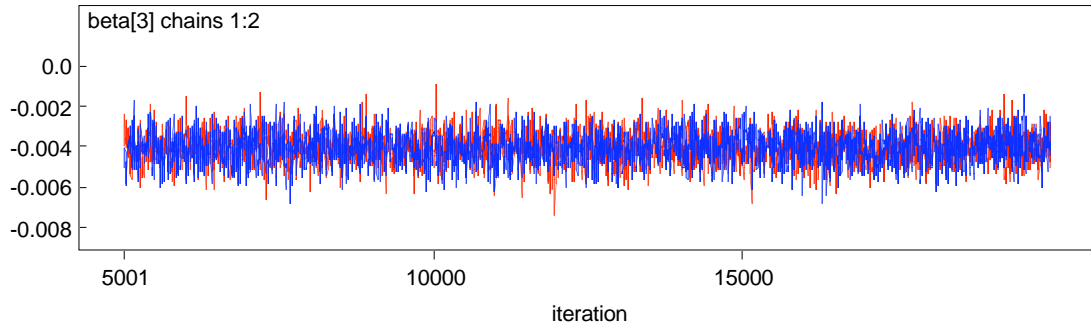
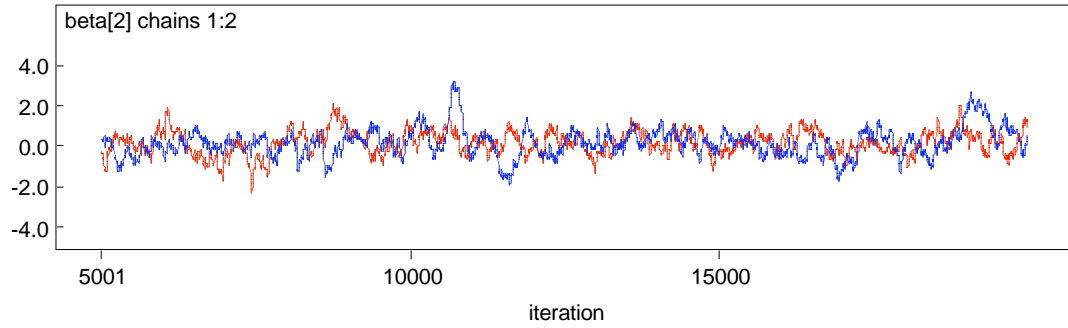
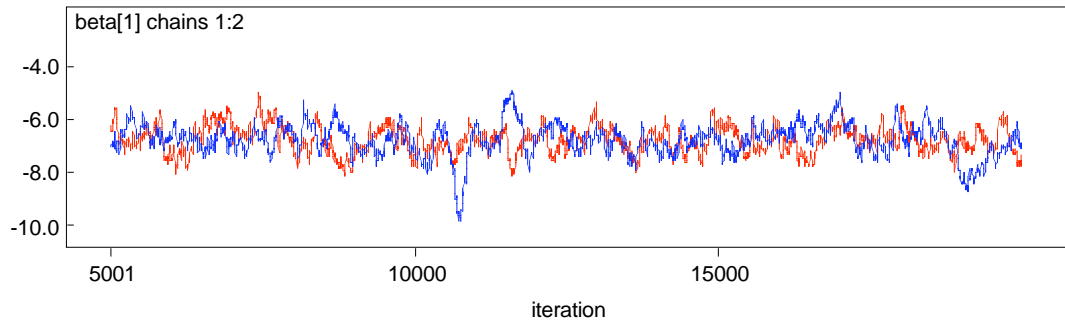
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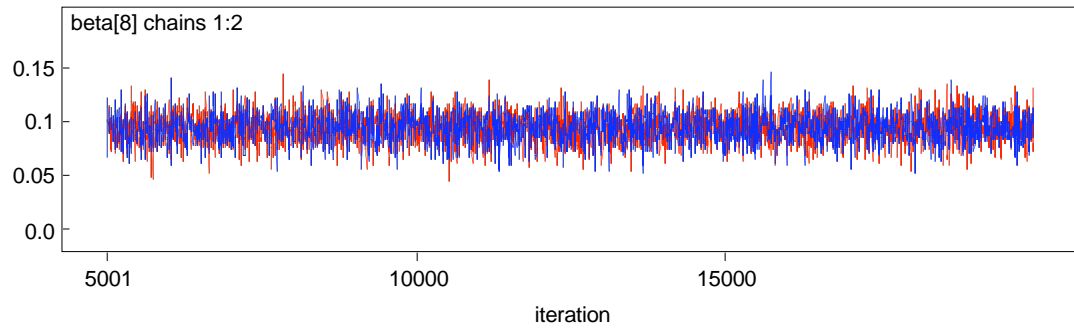
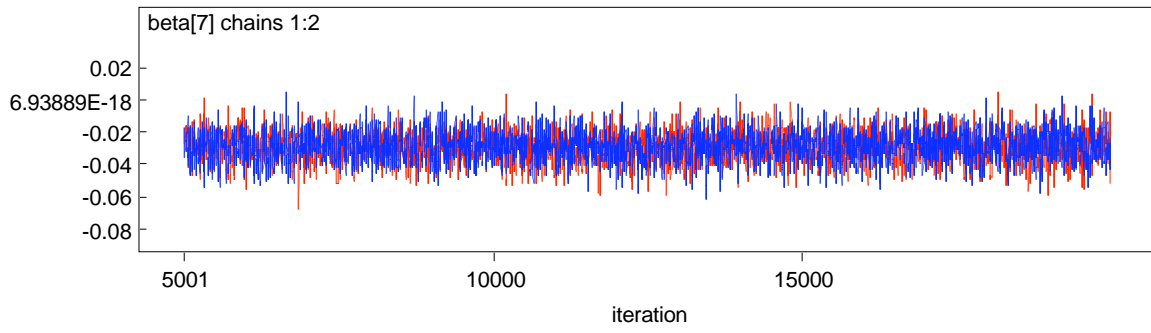
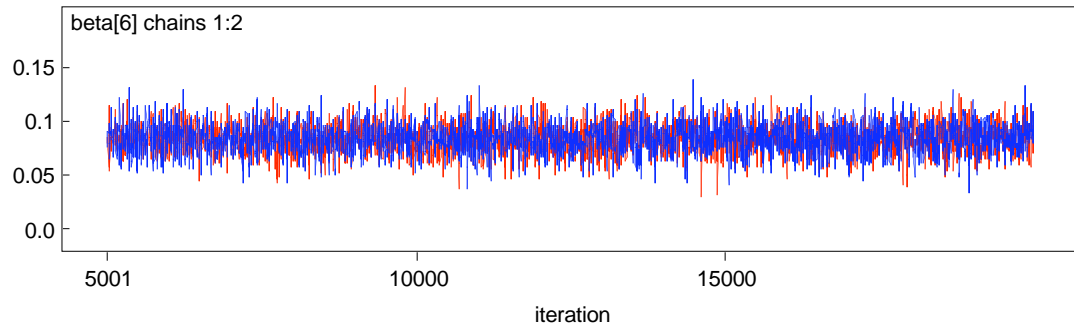
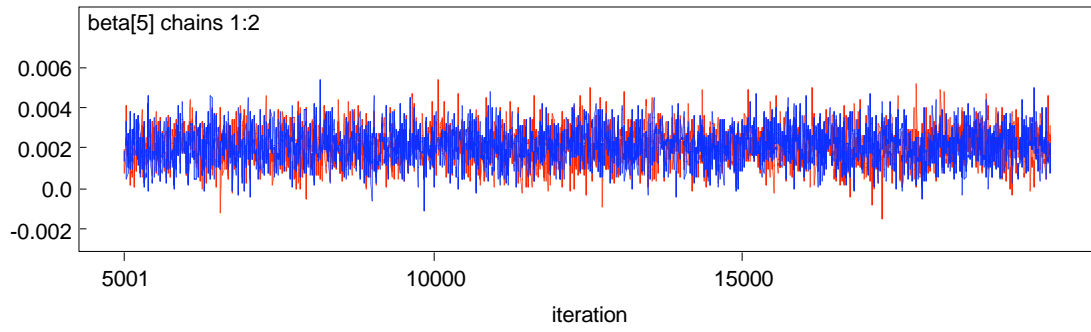


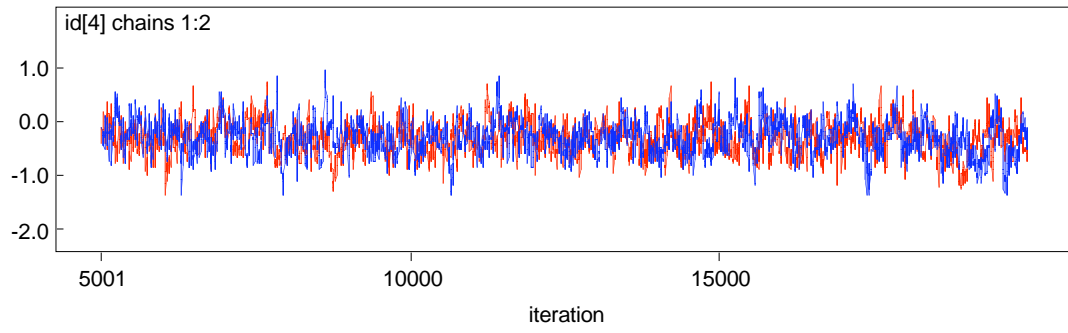
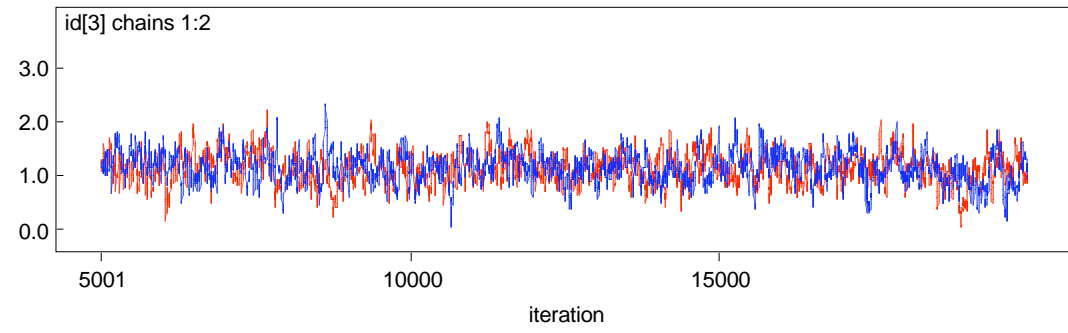
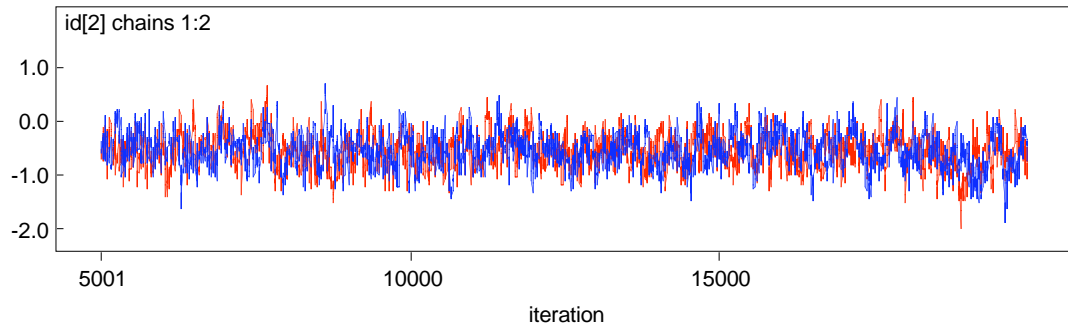
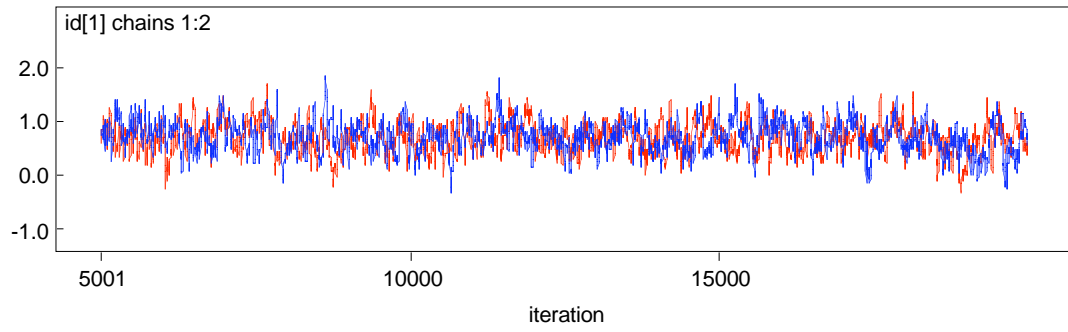


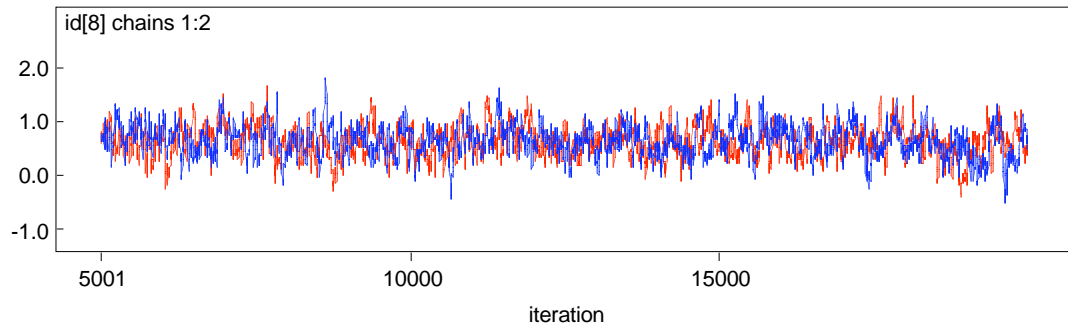
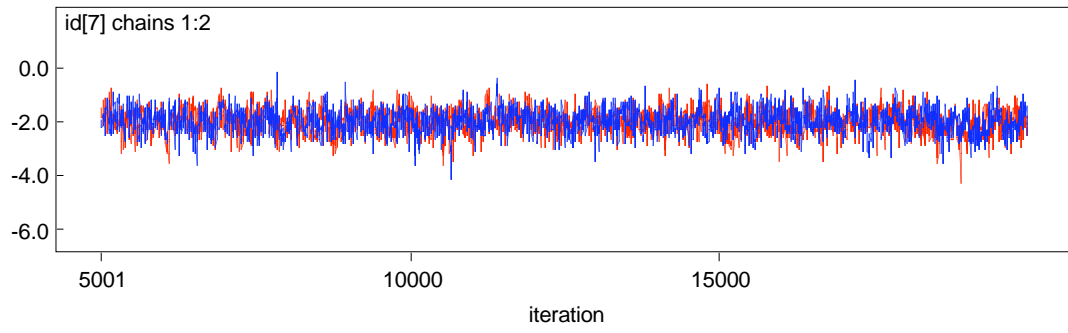
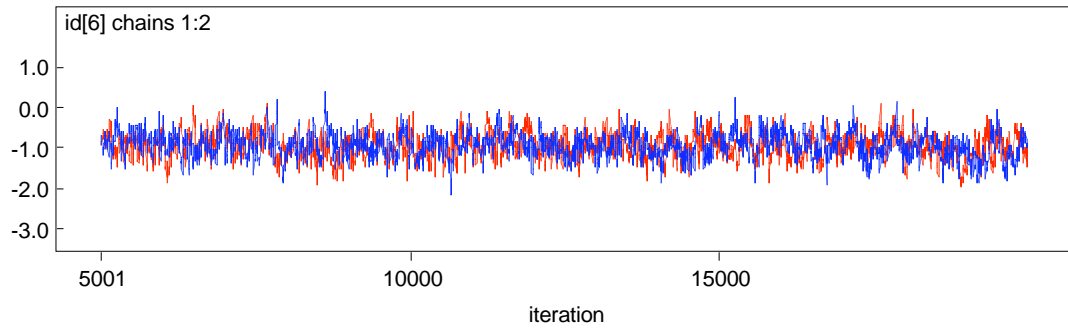
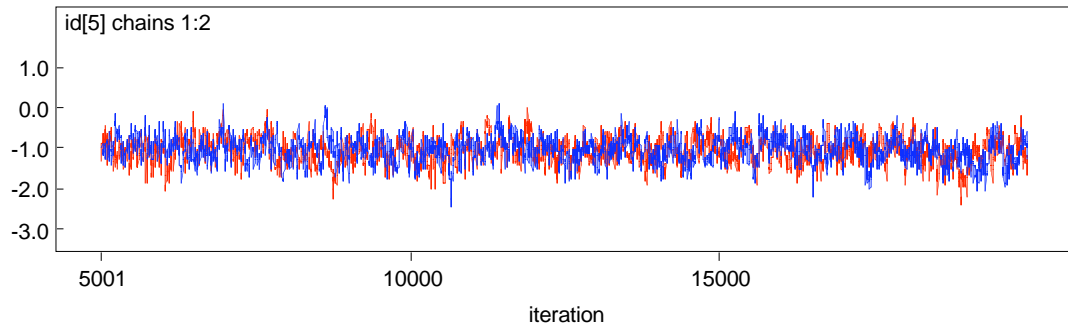


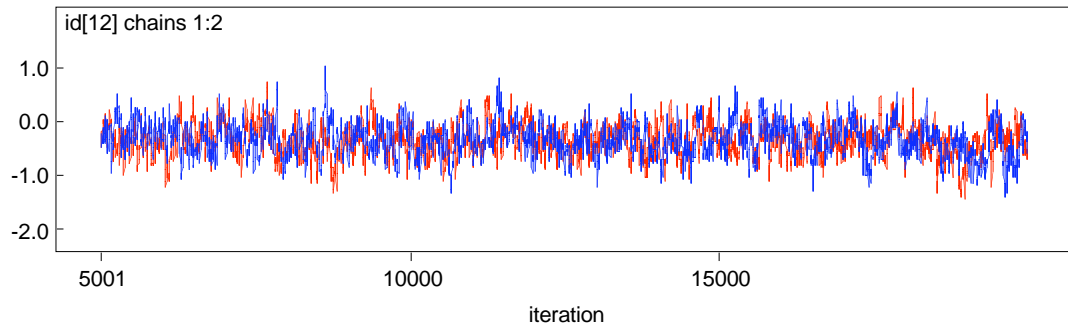
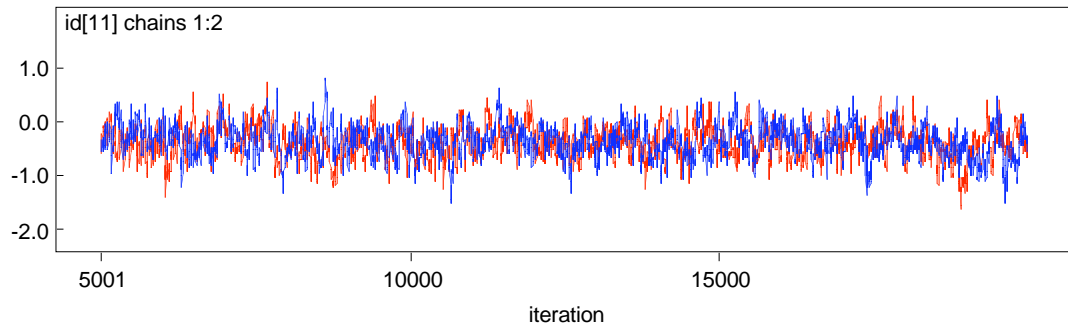
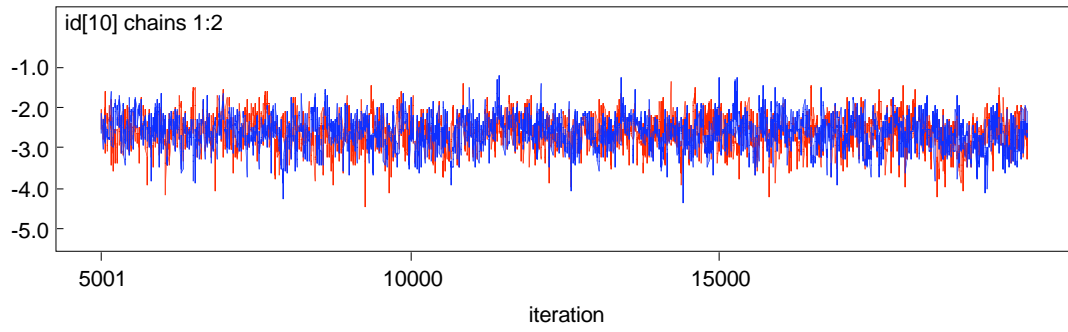
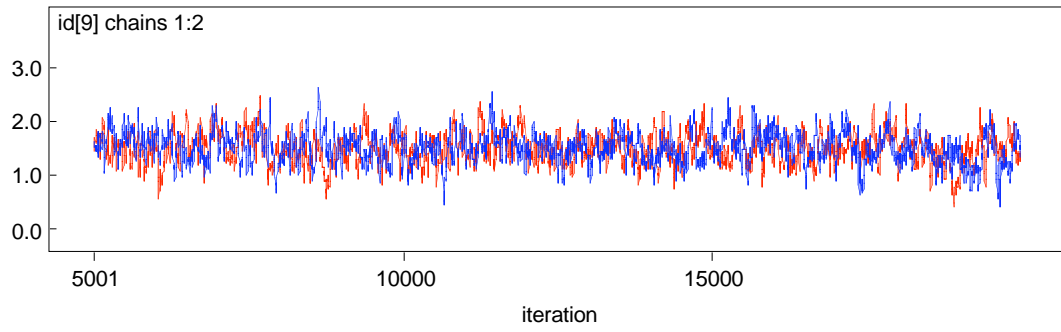
Sum Citizenry Data Time Series

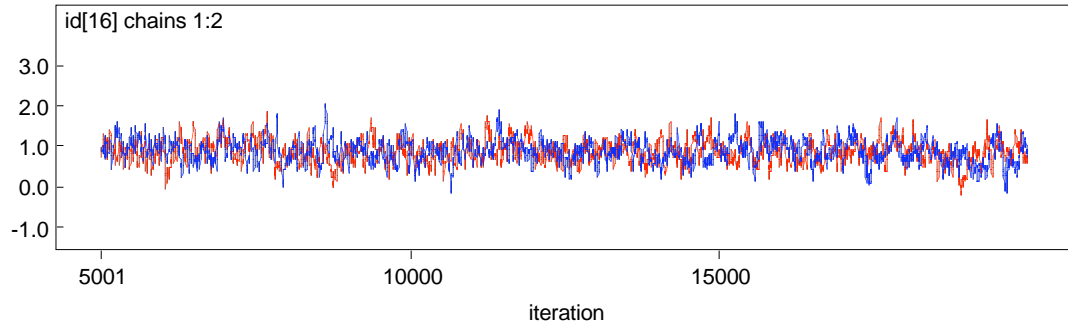
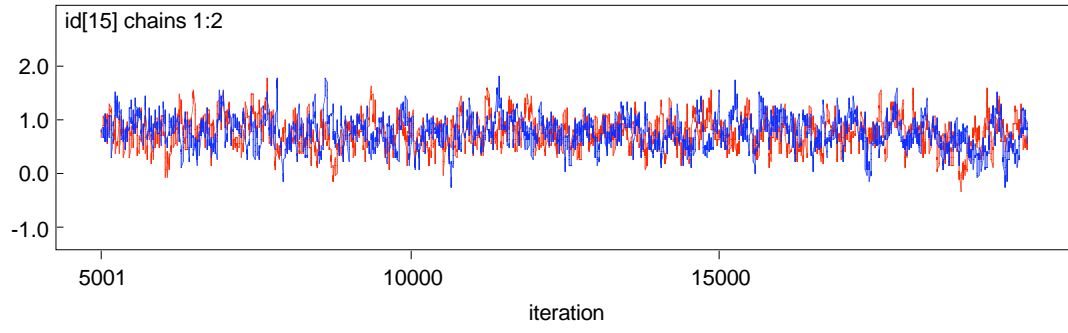
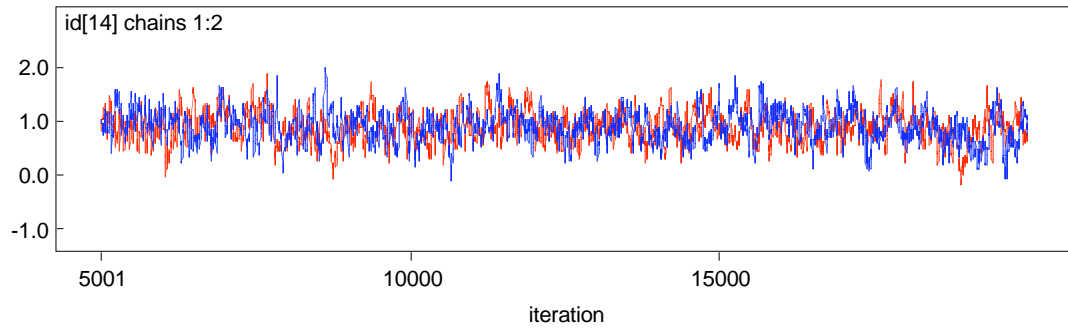
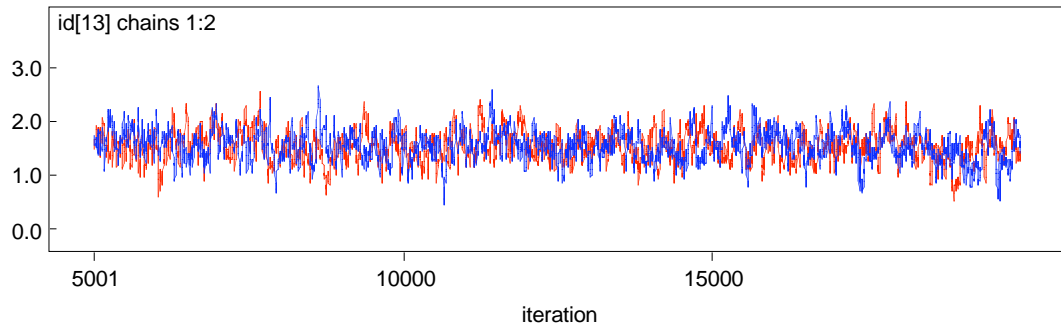


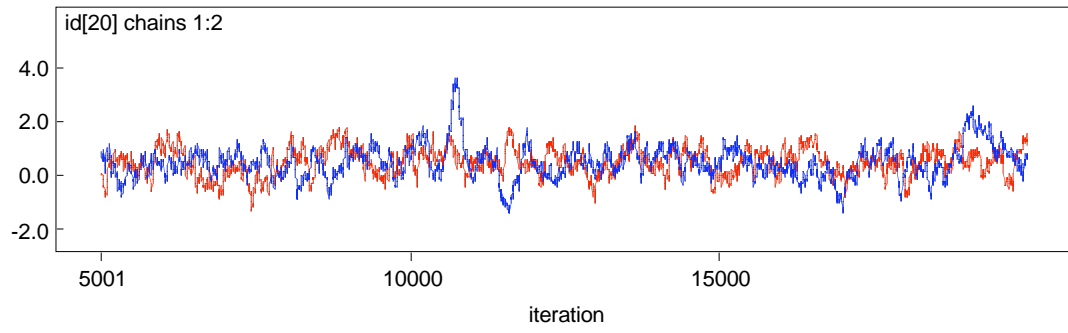
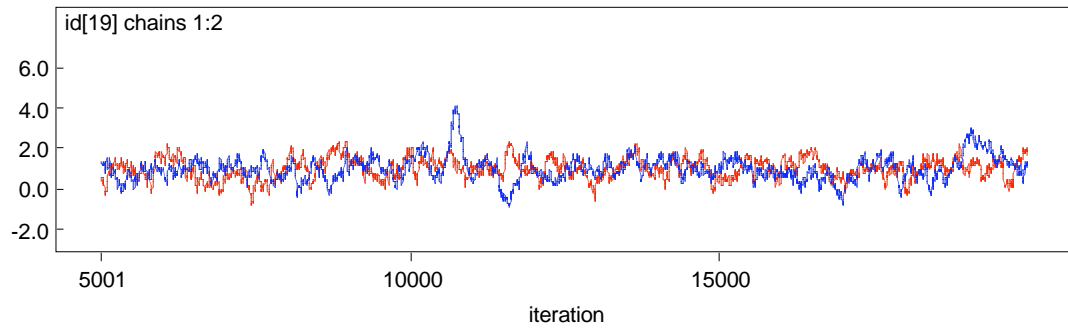
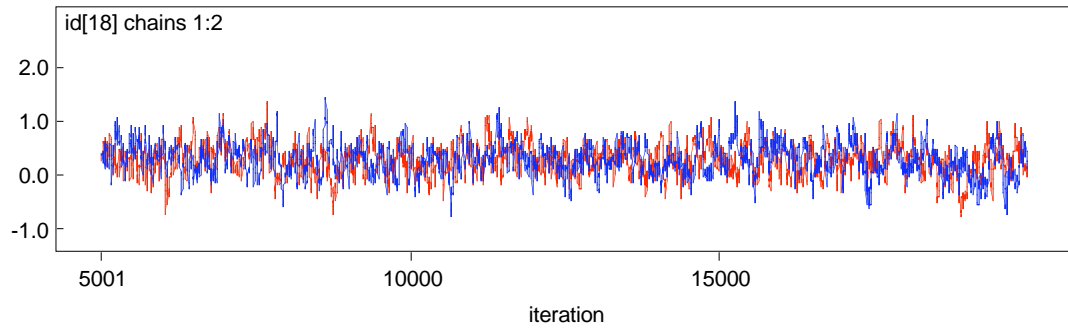
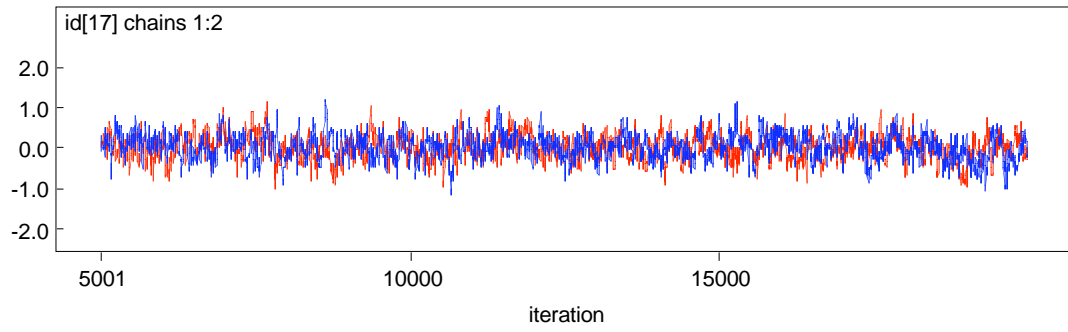


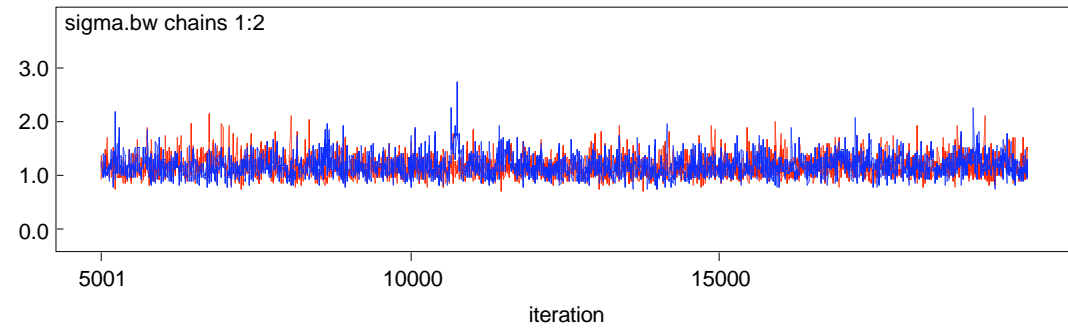
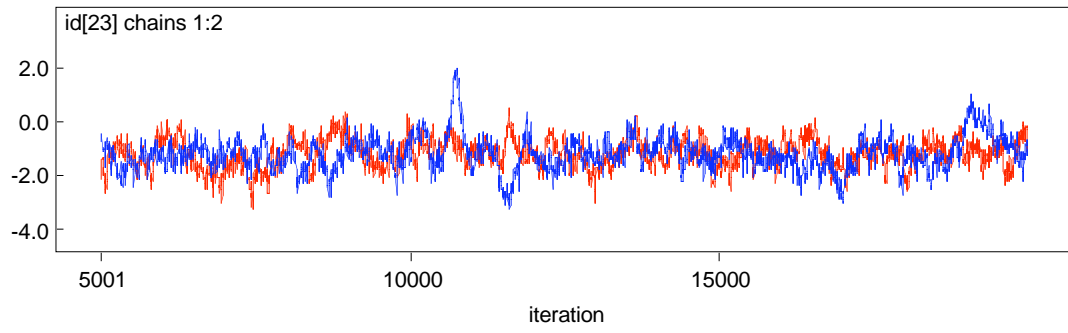
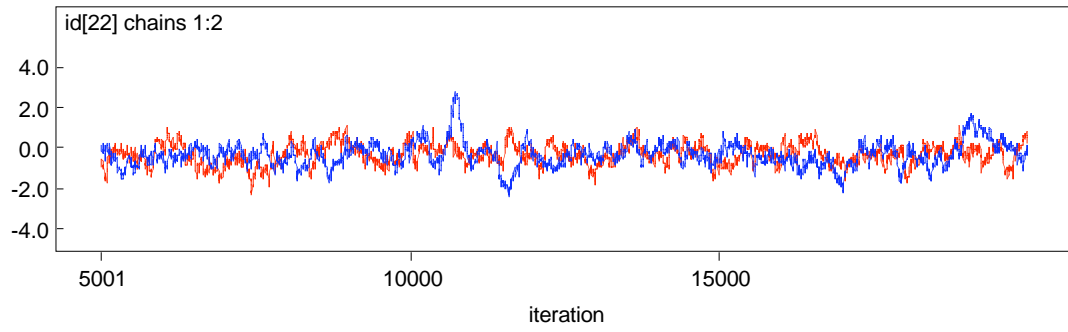
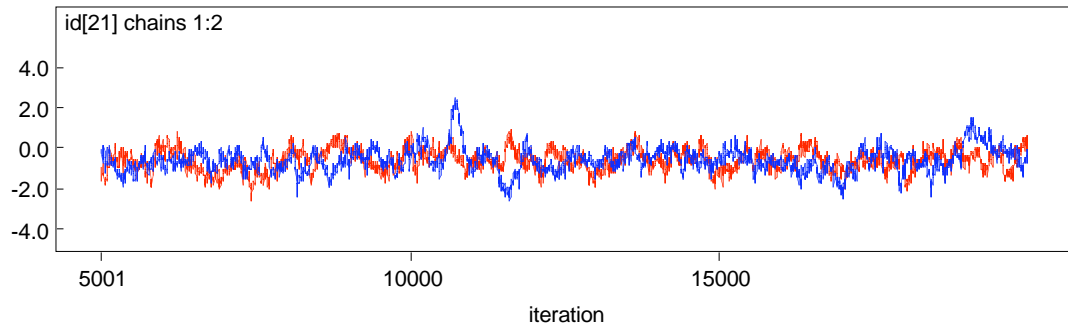


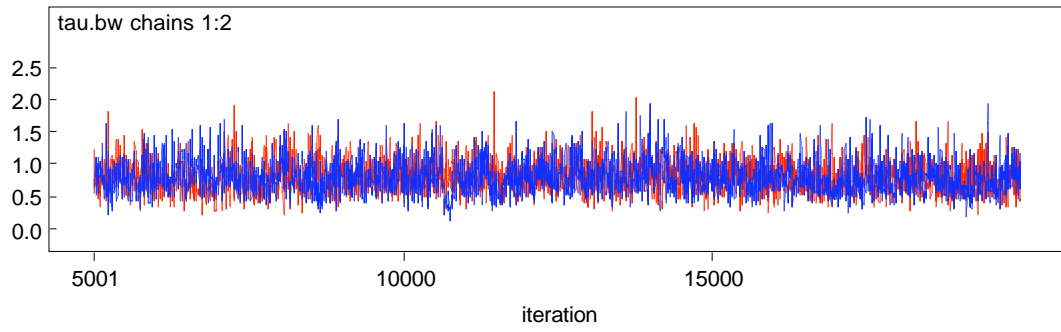












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