

CONTENTS

<i>Chapter</i>	<i>Page</i>
I. U.S.-CANADIAN RAIL SAFETY: COMPARATIVE ANALYSIS. . .	3
Rail Systems.	3
Accident Picture.	4
Government Structures and Statutes	8
Government, Industry, and Labor Approaches to Safety	12
II. CANADIAN RAILROAD SYSTEM	19
Background	19
History.	19
Canadian Rail System Physical Plant and Equipment	21
Railroad Financial Picture	24
U.S.-Canadian Rail System Comparison	27
III. GOVERNMENT INSTITUTIONS AND RAIL SAFETY	31
Government Institutions	31
Laws Directly Affecting Rail Safety	33
Summary.	41
IV. THE ACCIDENT PICTURE	45
RTC Data.	45
Comparisons with the United States.	50
Labour Canada Data	56
Railroad Accident Data and Reporting Procedures.	58
v. THE RAIL SAFETY INQUIRY	65
Events Leading to Safety Inquiry	65
Safety Inquiry: Process, Findings, and Recommendations	66
VI. GOVERNMENT PROGRAMS	71
Canadian Transport Commission Activities.	71
Labour Canada's Occupational Safety and Health	85
Railway Safety Advisory Committee	86
VII. RAILROAD SAFETY PROGRAMS	89
Introduction.	89
Supervisor Accountability	89
Preventive Programs	90
Participation in Regulatory Efforts	95
VIII. RAILROAD LABOUR AND SAFETY	99
Introduction.	99
Labour/Railroad Relations.	100
Labour/Government Relations.	103
 APPENDIXES	
Appendix A: Persons Interviewed	107
Appendix B: Canadian Accident Information.	108
Appendix C: Hazard Information Emergency Response Form.	109

LIST OF TABLES

<i>Table No.</i>	<i>Page</i>
1. Selected Comparative Characteristics United States—Canada	3
2. Fatalities in the United States and Canada, 1966-76	4
3. Trespasser Fatalities in the United States and Canada, 1966-76.	5
4. Grade-Crossing Fatalities in the United States and Canada, 1966-76.	5
5. Employee Fatalities in the United States and Canada, 1966-76.	6
6. Collisions/Derailments in the United States and Canada, 1966-74	6
7. Derailments in the United States and Canada, 1975-77	6
8. U.S. Derailments by Cause	6
9. Mainline/Branchlike—Derailments by Year and Railroad	7
10. Canadian Derailments by Cause	8
11. U.S. and Canadian Safety Regulations	10
12. Railway Trackage.	21
13. Locomotive Equipment	23
14. Freight Rolling Stock.	24
15. Intercity Freight by Mode of Transportation in Canada (excluding pipelines), 1944-68	25
16. Commodities Accounting for More Than 2 Percent of Rail Ton-Miles in 1969 and 1974 in Canada	25
17. Canadian Pacific Rail Financial Fact Sheet.	26
18. Maintenance Expenditures for the Canadian Pacific Railroad, 1973-77.	26
19. Capital Expenditures for the Canadian Pacific Railway, 1973-77	26
20. Capital Expenditures—U.S. Class I Carriers.	26
21. Canadian Casualties by Type of Accident, 1966-77	47
22. Casualties, 1966-76	48
23. Canadian Accidents by Type, 1966-77.	48
24. Statement of Canadian Derailments According to Major Causes, 1966-76	48
25. Canadian Incidents Involving Dangerous Commodities.	49
26. Casualties, 1966-76	52
27. Fatalities in Canada and the United States, 1966-76	53
28. Employee Fatalities in Canada and the United States, 1966-76	53
29. Grade-Crossing Fatalities in Canada and the United States, 1966-76	53
30. Trespasser Fatalities in Canada and the United States, 1966-76	53
31. Statement of Derailments According to Major Causes in Canada, 1966-76	54
32. U.S. Train Accidents by Class, 1966-74	55
33. U.S. Train Accidents by Class, 1975-77	55
34. Mainline/Branchlike—Derailments by Year and Railroad.	55
35. U.S. Derailments by Contributing Cause, 1966-74	56
36. U.S. Derailments by Contributing Cause, 1975-77	56
37. Labour Canada Work Injury Experience for Industries Under Federal Jurisdiction, 5-Year Comparison	57
38. Accidents Resulting From Transportation Problems or Rule Violations	59
39. Engineering (Track) Responsibility	59
40. Equipment Responsibility Accidents for CN.	60
41. Entrain and Yard Accidents by Cause, 1972-76	61
42. CN 5-Year Disabling Injury Ratio	61
43. FRA Comparative Statistics--Train Accidents	61
44. FRA Comparative Statistics--Employee Disabling Injuries	62
45. CPT Train Accidents on FRA Basis	62
46. U.S. and Canadian Railroad Safety Regulations	72
47. Canadian Incidents Involving Dangerous Commodities	81

LIST OF FIGURES

<i>Figure No.</i>	<i>Page</i>
1. Transport Canada	32
2. Relationship of Ministry "Family" to Transportation Regulation	33
3. Rate of Disabling Injuries	58