

APPENDIX G

RAIL-TRAIL MAINTENANCE SOURCES LISTING

INTRODUCTION

Rail-trail maintenance involves more than just cleaning and repair. The issues involved in rail-trail maintenance begin in the development stage of a rail-trail project and last virtually forever. With the constant battle for funding that rail-trail developers and parks and recreation departments face, it is critical that maintenance becomes an important issue from the very beginning. With a critical eye towards site selection and innovative design, rail-trails can become low maintenance havens where safety issues are addressed and crime is controlled.

The effectiveness of addressing maintenance issues can determine the success or failure of a rail-trail system. Therefore, the responsibility of maintaining the rail-trail must lie with every person involved in its development and use. Designers need to take into account the type of use and abuse the rail-trail will endure, either at the hands of man or nature, and employ design aspects that will be able to handle the stress. Politicians need to accept and support rail-trails. This means, in most cases, that the public needs to accept and allow tax allocations. Users need to be involved as well, by respecting and protecting their rail-trails. All of us are responsible for the development and preservation of our nations rail-trails.

The purpose of this section is to provide a listing of references by category for use in further research. Due to the enormity and complex nature of the maintenance issue, all resource material available regarding these categories could not be listed. The following list contains those items which were current, relevant and available. Please refer to the annotated reference list in Appendix G for specific reference information.

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APPENDIX H

ANNOTATED REFERENCES

Bay Area Ridge Trail Council 1991. Bay Area Ridge Trail Council Management Guide. Bay Area Ridge Trail Council, San Francisco, CA.

This guide includes a brief outline of important factors involved in the planning, management, construction and maintenance of a multi-use trail.

Christiansen, M. 1983. Vandalism Control Management for Parks and Recreation Areas. Venture Publishing, Inc., State College, PA.

Monty Christiansen is a landscape architect who completed this study at the request of the National Park Service. The study contains numerous examples of the different types of vandalism with suggestions for reducing or eliminating vandalism.

Cole, D., Petersen, M. and Lucas R. 1987. Managing Wilderness Recreation Use: Common Problems and Potential Solutions. Intermountain Research Station, Odgen, UT.

This problem solving handbook begins by identifying problems common to public parks. Several solutions to these problems are then analyzed.

Doell, C. and Twardzik, L. 1979. Elements of Park and Recreation Administration. Burgess Publishing Co., Minneapolis, MN.

Includes a historic overview of parks and recreation. Impacts of war and the great depression are also included. A detailed chapter on safety and law enforcement with an outline for training of park and recreation law enforcement personnel is still relevant today.

Flink, C. 1993. Greenways: Serving Infrastructure Needs in the 21st Century. Urban, Regional, and National Greenways and Open Space Planning. ASLA Council of Open Committees, American Society of Landscape Architects, Washington, D.C.

A persuasive article regarding the aging infrastructure challenges facing the U.S. during the next 25 years and the ways in which greenways are being used to solve some of these problems. Includes results of government studies.

Flink, C. and Searns, R. 1993. Greenways: A Guide to Planning, Design, and Development. Island Press, Washington, D.C.

"A 'how-to' guide for planning and designing greenway projects. The guide takes a step-by-step approach to greenway development and addresses many issues that face greenway planners and designers" (Ryan, 1993).

Hultsman, J., Cottrell, R. and Hultsman, W. 1987. Planning Parks for People. Venture Publishing, Inc.

A detailed "how-to" book describing ways to design parks to handle human use and environmental factors in the most cost efficient and environmentally effective way. Illustrations and photos are used extensively throughout the book. Examples are given for most problem/solution scenarios.

- Lancaster, R. 1990. Recreation, Park and Open Space Standards and Guidelines. National Recreation and Park Association, Alexandria, Vir.
A guide for establishing park and recreation standards. Listing of nationally recognized standards for areas of park, recreation and open space development.
- Larson, M. 1992. Rails to Trails: Factors That Influence The Success of Conversion. Thesis report for Kansas State University. Manhattan, KS.
Contains a limited history of Railroads and trail development. The thesis analysis is based on the results of a survey regarding suitability, political and social issues and the legal aspects of developing a rail-trail.
- Little, C. 1990. Greenways for America. The John Hopkins University Press, Baltimore, Maryland.
"Traces the history of the greenway movement and its efforts to preserve and restore linear open space. Describes many benefits of greenways, particularly those used as bicycle and pedestrian trails, and includes a valuable bibliography of published and unpublished sources" (Ryan, 1993).
- Lynch, K. and Hack, G. 1990. Site Planning. The MIT Press, Cambridge, Mass.
A comprehensive guide for site analysis, planning, development and construction. This book takes the reader through the entire process of developing a site; from site selection and analysis through circulation and planting concerns, to construction of buildings. Guidelines and standards are noted for each topic and are recapped in appendixes at the end of the book.
- Macdonald, S. 1994. Green Threads in the Urban Fabric. Unpublished copy of original article.
Stuart Macdonald is the State Trails Coordinator for the Colorado State Parks. He is also chair of both the National Recreational Trails Advisory Committee and the National Association of State Trails Administrators. This article covers the diversity of trail users with valuable information on developing interest and funding for multi-use trail corridors. A listing of creative ways to include trails and greenways in comprehensive plans is also included.
- Mazour, L. 1988. Converted Railroad Trails: The Impact on Adjacent Property. A thesis report for Kansas State University. Manhattan, KS.
This thesis contains a limited history of linear parks in the U.S., opposition to rail-trails and adjacent landowner concerns. The analysis was based on surveys done at the Root River Trail and the Luce Line Trail. Results of this analysis includes comparisons of owner/property characteristics, trail desirability, landowner/professional opinions and adjacent property values.

- Moore, R., Graefe, A., Gitelson, R. and Porter, E. 1992. The Impact of Rail-Trails: A Study of the Users and Property Owners from Three Trails. Rivers, Trails and Conservation Assistance Program, Washington, D.C.
A detailed study which compares the economic and social characteristics of the Heritage Trail, St. Mark's Trail and the Lafayette/Moraga Trail.
- Patten, R. 1994. ISTEA and Trails: Merging Transportation Needs and Recreation Values. Rails-to-Trails Conservancy & American Trails; published for the 12th National Trails Symposium, Anchorage, Alaska.
This comprehensive guide provides an introduction and detailed explanation of the ISTEA program, as well as information on NRTFA and reauthorization. This is also available free on the world wide web.
- Rivers, Trails and Conservation Assistance. 1992. Economic Impacts of Protecting Rivers, Trails and Greenway Corridors. National Park Service. Third Edition.
This economic development handbook offers valuable guideline and examples for determining the economic feasibility of a trail project. Included is information on real property values, resident expenditures, tourism, commercial influences, public cost reduction and benefit estimation.
- Robb, S. 1991. How to Vandal-Proof Your Restrooms. Parks and Recreation. National Recreation and Park Association, Alexandria, Vir. July 1991 pp 56 - 57.
A short, solution packed article regarding the reduction of damage due to vandalism in park restrooms.
- RTC, 1992. Integrating Rail-Trails into Statewide and Metropolitan Long Range Plans. Rails-to-Trails Conservancy.
A general guide book for implementing rail-trail policies into long range plans. This book offers policy recommendations and examples with an outline of planning activities. An updated version is available free on the world wide web.
- Rutledge, A. 1971. Anatomy of a Park. McGraw-Hill Book Company.
"This book lays bare the essentials of park design." The author and illustrator (Donald Molnar), who are both landscape architects, have defined the keys to creating a successful park by examining the elements of design. These elements include ways to reduce maintenance and vandalism. Illustrations are valuable for quick reference. Contains useful charts, lists and survey forms in appendixes at end of book. Update available.
- Ryan, K. 1993. Trails for the Twenty-First Century. Island Press, Washington, D.C.
A how-to guide for planning, designing and building multi-use trails. This guide includes information on making your trail unique, involving the public, management and safety concerns and a plan for marketing and expanding your

trail. Includes a valuable annotated resource directory of published and unpublished sources.

Ryan, K. and Winterich, J. 1993. Secrets of Successful Rail-Trails. Rails-To-Trails Conservancy.

This very valuable book contains "how-to" tips on beginning a citizen based coalition; developing feasibility studies; how to determine when a line will be abandoned and what to do when it is and funding issues. It also has several appendices containing extensive reference and resource information.

Smith, D. and Hellmund P. 1993. Ecology of Greenways. University of Minnesota Press, Minneapolis, MN.

A detailed handbook for understanding environmental concerns regarding greenway development and use. Includes "how-to" information for planning, development and maintenance of a greenway with minimal damage to the environment. This book is written for use by the general public. It does not, for example, try to educate the reader on every aspect of soil impaction. Instead, the authors have only provided information important to greenway development. A valuable all-in-one resource.

Sternloff, R. and Warren, R. 1977. Park and Recreation Maintenance Management. Holbrook Press, Inc., Boston, Mass.

A detailed handbook specifically written to address the maintenance concerns of urban green space including parks, parkways, trails and athletic fields. Designed to help establish a maintenance business. Although this book was written in 1977, the information it contains is still relevant today.

Walker, T. 1992. Site Design and Construction Detailing. Van Nostrand Reinhold, NY.

A handbook covering many aspects of park and public space construction. Includes a considerable number of detail drawings and photos. Excellent idea resource.

APPENDIX I

RESOURCES

RESOURCE LIST

American Trails

P.O. Box 200787
Denver, CO 80220
(303) 321-6606 Phone

Bicycle Federation of America

1506 21st Street, NW
Suite 200
Washington, DC 20036
(202) 463-6622 Phone
(202) 463-6625 Fax

Center of Excellence for Sustainable Development

U.S. Department of Energy
Office of Energy Efficiency and Renewable Energy
Denver Regional Support Office
1617 Cole Boulevard
Golden, Colorado 80401
(303) 275-4826 Phone
(800) 357-7732 Toll Free
(303) 275-4830 Fax
E-mail: sustainable.development@hq.doe.gov
World Wide Web: <http://www.sustainable.doe.gov>

Kansas Horseman Foundation

Mike Engeman, Director
1895 East 56 Road
Lecompton, Kansas 66050
(913) 887-6391

National Bicycle and Pedestrian Clearinghouse

1506 21st Street, NW
Suite 210
Washington, DC 20036
(202) 463-8405 Phone
(800) 760-6272 Toll Free
(202) 463-6625 Fax
E-mail: nbpc96@bikefed.org

National Park Service

Mary Mae Hardt, Regional Trails Coordinator
1709 Jackson Street
Omaha, NE 68102
(402) 221-3350 Phone
(402) 221-3465 Fax

National Transportation Enhancements Clearinghouse

1506 21st Street, NW
Suite 210
Washington, DC 20036
(202) 463-0641 Phone
(888) 388-6832 Toll Free
(202) 463-0875 Fax
E-mail: ntec@transact.org

National Trust for Historic Preservation

(202) 673-4000 Phone

Prairie Spirit Rail-Trail Management Office

Trent McCown, Trail Manager
134 E. Fifth Ave.
Garnett, KS 66032
(913) 448-6767 Phone
(913) 448-5877 Fax
<http://www.usa.net/~garnetks/trail.html>

Rails-to-Trails Conservancy

1400 16th St. NW
Suite 300
Washington, DC 20036
(202) 797-5400 Phone
(202) 797-5411 Fax
Attn: Transportation Enhancements Clearinghouse

Rivers, Trails and Conservation Assistance

National Park Service
Economics Clearinghouse
600 Harrison Street
Suite 600
San Francisco, CA 94107-1372
(415) 744-3975 Phone

Surface Transportation Policy Project

(202) 939-3470 Phone