

CURRICULUM VITAE

Robert E. Manning

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PERSONAL

Date of Birth: December 11, 1946
Married, two children

EDUCATION

Ph.D. Resource Development, Michigan State University, 1975
M.S. Park and Recreation Resources, Michigan State University, 1973
B.S. Biology, Washington College (Maryland), 1968

EXPERIENCE

1988-present Professor, Recreation Management Program, School of Natural Resources,
University of Vermont

1986-present Chair, Recreation Management Program, School of Natural Resources, University
of Vermont

1997-1998 Sabbatical leave, U.S. National Park Service, Yosemite National Park

1990-1991 Sabbatical leave, U.S. National Park Service, Washington, D.C.

1989-1995 Research Scientist (Schedule A Appointment), U.S. National Park Service

1983-1984 Sabbatical leave, U.S. National Park Service, Grand Canyon National Park

1983-1984 Visiting Associate Professor, School of Forest Resources, Northern Arizona
University

1982-1988 Associate Professor, Recreation Management Program, School of Natural
Resources, University of Vermont

1976-1982 Assistant Professor, Recreation Management Program, School of Natural
Resources, University of Vermont

1975-1976 Senior Natural Resources Planner, Maryland Department of Natural Resources

1972-1975 Graduate Research Assistant, Department of Resource Development, Michigan
State University

1968-1972 Lieutenant and Assistant Director, Recreational Boating Safety Program, U.S.
Coast Guard, San Francisco, CA

COURSES TAUGHT

Nature and Culture
Introduction to Recreation Management
The American Wilderness
Park and Wilderness Management
Tourism Planning/Sustainable Tourism
Research Seminar
Recreation Management
Selected courses, workshops, and lectures at Albright Academy and Conservation Study Institute,
U.S. National Park Service, and Arthur Carhart Training Center, U.S. Forest Service

RESEARCH GRANTS

- Carrying Capacity Analysis for Yosemite National Park. U.S. National Park Service, 2004-2006.
- Levels of Service for Transportation Planning in the National Park System. U.S. National Park Service, 2004-2005.
- Research to Support Application of Carrying Capacity at Acadia National Park. U.S. National Park Service, 2004-2007.
- Research to Support ORV Management at Cape Cod National Seashore. U.S. National Park Service, 2004-2006.
- Research to Support Analysis and Management of Carrying Capacity at Muir Woods National Monument. U.S. National Park Service, 2003-2005.
- Development and Application of a Computer Simulation Model of Visitor Use at the Schoodic Peninsula, Acadia National Park. U.S. National Park Service, 2003-2004.
- Visitor Use and Users of Sagamore Hill National Historic Site. U.S. National Park, 2002-2003.
- Research to Support Application of Carrying Capacity to Hawaii Volcanoes National Park. U.S. National Park Service, 2002-2003.
- Research to Support Visitor Management at Blue Ridge Parkway. U.S. National Park Service, 2002-2003.
- Development and Application of Computer Simulation Modeling of Visitor Use for Park and Wilderness Management. Aldo Leopold Wilderness Research Institute and U.S. National Park Service, 2002-2004.
- Research to Support Visitor Management at Haleakala National Park. U.S. National Park Service, 2003-2004.
- Research to Support Application of Carrying Capacity at Zion National Park. U.S. National Park Service, 2002-2004.
- Social and Ecological Carrying Capacity of Isle au Haut, Acadia National Park. U.S. National Park Service, 2001-2003.
- Carrying Capacity of U.S. National Parks. Earthwatch Institute and the Center for Field Research, 2000-2003.
- Carrying Capacity of Park and Forest Recreation Areas, McIntire-Stennis Forestry Research Program, U.S. Department of Agriculture, 2000-2005.
- Research to Support Visitor Management at Mesa Verde National Park. U.S. National Park Service, 2000-2003
- Reconstructing Conservation: History, Values and Practice. Woodstock Foundation, U.S. National Park Service, and University of Vermont 2000-2004.
- Developing Ecosystem Indicators and an Environmental Score Card for the Lake Champlain Basin Program. Lake Champlain Basin Program, 2000-2003.
- Carrying Capacity Assessment for Yosemite National Park. U.S. National Park Service and the Yosemite Fund, 1998-2003.
- Conservation Study Institute. U.S. National Park Service, 1998-present.
- Use and Users of the Schoodic Peninsula Area of Acadia National Park. U.S. National Park Service, 2000-2003.
- Indicators and Standards of Quality for Boston Harbor Islands National Recreation Area. U.S. National Park Service, 2000-2004.
- Visitor Use and Users of Saratoga National Historical Park. U.S. National Park Service, 2001-2002.
- Economic and Social Values of the Vermont State Parks. Vermont Department of Forests, Parks and Recreation, 2001-2002.

RESEARCH GRANTS (continued)

- Development and Application of a Computer Simulation Model of Wilderness Use at Isle Royal National Park. U.S. National Park Service, 2001-2002.
- Carrying Capacity at Kenai Fjords National Park. U.S. National Park Service, 2000-2002.
- Wilderness Crowding Norms at Denali National Park: A Replication and Extension. U.S. National Park Service, 2000-2002.
- Appalachian National Trail User Study. U.S. National Park Service and U.S. Forest Service, 1998-2001.
- Research to Support Wilderness Management Planning for Alaskan National Parks. U.S. National Park Service, 1999-2000.
- A Recreation Opportunity Spectrum for the Colorado River Ecosystem in Grand Canyon. U.S. Bureau of Reclamation, 1998-2000.
- Travel and Tourism Research and Education Program. Vermont Department of Travel and Tourism, 1992-2000.
- Social Values, Environmental Ethics and the Evolution of Natural Resource Management. McIntire-Stennis Forestry Research Program, U.S. Department of Agriculture, 1990-2000.
- Research to Support Visitor Management at Alcatraz Island. Golden Gate National Recreation Area. U.S. National Park Service, 1997-1999.
- Research to Support Visitor Management at Statue of Liberty and Ellis Island National Monuments. U.S. National Park Service, 1997-2000.
- Research to Support Visitor Management on the Green and Colorado Rivers In Canyonlands National Park. U.S. National Park Service, 1997-1999.
- Carrying Capacity of Yellowstone National Park for Winter Use. U.S. National Park Service and Pew Charitable Trust, 1996-1999.
- A Coordinated, Multiphase Study of Day Use Hiking. Grand Canyon Science Center, Aldo Leopold Wilderness Research Institute, U.S. National Biological Service, 1996-1999.
- Finishing the Agenda at Arches National Park. U.S. National Park Service, 1995-1999.
- Design and Application of Survey Research. Trustees of Reservations, 1998-1999.
- Sabbatical Leave with Yosemite National Park. U.S. National Park Service, 1997-1998.
- Development of a Training Manual for the Visitor Experience and Resource Protection Framework. U.S. National Park Service, 1996-1998.
- U.S. National Park Service Fee Demonstration Project. U.S. National Park Service, 1996.
- Visitor Use and Conflict on the Acadia National Park Carriage Roads. U.S. National Park Service, 1994-1997.
- Environmental Ethics and National Forest Management. U.S. Forest Service, 1993-1998.
- Visitor and Resident Study at Marsh-Billings National Historical Park. U.S. National Park Service, 1993-1995.
- Green Mountain Club Membership and Organizational Study. Green Mountain Club, 1993-1994.
- Valuing Non-market Resources of Vermont Rivers. U.S. Department of Interior and Vermont Water Resources Research Center, 1992-1996.
- Recreation Use of the Battenkill River. Bennington County Regional Commission, 1992-1994.
- Visitor Survey and Carrying Capacity at Saint-Gaudens National Historic Site. U.S. National Park Service, 1992-1993.
- Visitor Survey and Carrying Capacity of Weir Farm National Historic Site. U.S. National Park Service, 1992-93.
- Visitor Experience and Resource Protection Program. U.S. National Park Service, 1991-1998.
- Social Science Research at Cape Cod National Seashore. U.S. National Park Service, 1992-1994.
- Vermont Environmental Index. Vermont Department of Forests, Parks and Recreation, 1992-1994.

RESEARCH GRANTS (continued)

- Economic and Social Values of the Vermont State Parks. Vermont Department of Forests, Parks and Recreation, 1992-1995.
- Problems and Practices in Backcountry Recreation Management. U.S. National Park Service, 1991-1994
- Public Use Reporting at Acadia National Park. U.S. National Park Service, 1990-1993
- Application of Social Carrying Capacity to the National Parks. U.S. National Park Service, 1989-1994
- Roosevelt Campobello International Park Visitor Survey. U.S. National Park Service, 1989-1990
- Vermont Recreation Plan Survey. Vermont Agency of Natural Resources and Vermont Water Resources Research Center, 1988
- Acadia National Park Loop Road Environmental Assessment. U.S. National Park Service, 1987-88
- Outdoor Recreation/Natural Resources Planning at Willow Grove Naval Air Station. U.S. Department of the Navy, 1987-88
- Tourism and Vermont: Lessons from the Literature. University of Vermont, 1986
- Social Science Research at Acadia National Park. U.S. National Park Service, 1985-88
- Vermont Environmental Index. Vermont Agency of Environmental Conservation and Vermont Water Resources Research Center, 1985-86
- Pricing as a Tool in Managing Forest Recreation. McIntire-Stennis Forestry Research Program, U.S. Department of Agriculture, 1985-89
- Pricing as a Tool in Outdoor Recreation. Vermont Division of Forests, Parks and Recreation and U.S. Forest Service, 1983-86
- Managing and Monitoring Outdoor Recreation: A Review and Synthesis. Grand Canyon Natural History Association and Grand Canyon National Park, 1983-84
- Aesthetic Implications of Timber Harvesting Practices. McIntire-Stennis Forestry Research Program, U.S. Department of Agriculture, 1982-84
- Development and Application of the Wilderness Travel Simulation Model. University of Vermont Institutional Research Grant, 1982-83
- Determining Guidelines for Boating Density on Inland Waters in Vermont. Vermont Water Resources Research Center and Office of Water Research and Technology, U.S. Department of the Interior, 1981-83
- Allocation and Management of Vermont Lakes for Outdoor Recreation. Vermont Agency of Environmental Conservation, and U.S. Heritage Conservation and Recreation Service, 1980-83
- Temporal Distribution of Outdoor Recreation: Monitoring and Analysis. U.S. Forest Service, 1979-82
- Inventory of Vermont Public Recreation Facilities. Vermont Agency of Environmental Conservation, 1978
- Temporal Distribution of Forest Recreation. McIntire-Stennis Forestry Research Program, U.S. Department of Agriculture, 1977-80
- Vermont River Recreation Use and Analysis of Carrying Capacity. Vermont Water Resources Research Center and Office of Water Research and Technology, U.S. Department of the Interior, 1977-79

TEACHING GRANTS

- Implementation and Dissemination of an Integrated Core Curriculum in Natural Resources. U.S. Department of Agriculture, 1994-1997.
- Tourism and Vermont: Dollars and Sense of Place. University of Vermont Instructional Incentive Grant, 1986-88.
- Development and Application of the Wilderness Travel Simulation Model. University of Vermont Instructional Incentive Grant, 1982-83.
- Recreation Documents Collection. University of Vermont Instructional Incentive Grant, 1978-79.

PUBLICATIONS AND PROFESSIONAL PAPERS

Books

- Minteer, B. and R. Manning. 2003. Reconstructing Conservation: Finding Common Ground. Washington, DC: Island Press, 417 pages.
- Manning, R. 1999. Studies in Outdoor Recreation: Search and Research for Satisfaction (Second Edition). Corvallis: Oregon State University Press, 374 pages.
- Manning, R. 1986. Studies in Outdoor Recreation: Search and Research for Satisfaction. Corvallis: Oregon State University Press, 166 pages.
- Manning, R. (ed.). 1983. Mountain Passages: An Appalachia Anthology. Boston: Appalachian Mountain Club, 229 pages.

Book Chapters

- Manning, R. In Press. The Limits of Tourism in Parks and Protected Areas: Managing Carrying Capacity
In the U.S. National Parks. Taking Tourism to the Limits: Concepts, Management, Practice. Pergamon Press.
- Manning, R. 2004. Arches National Park (USA): Indicators and Standards of Quality for Sustainable Tourism and Carrying Capacity. Indicators of Sustainable Development for Tourism Destinations: A Guidebook. Madrid, Spain: World Tourism Organization, pp. 342-344.
- Manning, R. 2004. Managing Impacts of Ecotourism Through Use Rationing and Allocation. Environmental Impacts of Ecotourism. Cambridge, MA: CAB International, pp.273-286.
- Manning, R., S. Lawson, P. Newman, M. Budruk, W. Valliere, D. Laven, and J. Bacon. 2004. Visitor Perceptions of Recreation-Related Resource Impacts. Environmental Impacts of Ecotourism. Cambridge, MA: CAB International, pp.259-272.
- Manning, R. 2004. Recreation Planning Frameworks. Society and Natural Resources: A Summary of Knowledge. Jefferson, Missouri: Modern Litho, pp. 83-96.
- Manning, R. 2003. Social Climate Change: A Sociology of Environmental Philosophy. Reconstructing Conservation: Finding Common Ground. Washington, D.C.: Island Press, pp. 207-222.
- Minteer, B. and R. Manning. 2003. Conservation: From Deconstruction to Reconstruction. Reconstructing Conservation: Finding Common Ground. Washington, D.C.: Island Press, pp. 3-16.
- Minteer, B. and R. Manning. 2003. Our Common Ground: Emerging Principles for a Reconstructed Conservation. Reconstructing Conservation: Finding Common Ground. Washington, D. C.: Island Press, pp. 335-349.
- Minteer, B. and R. Manning. 2003. Pragmatism in Environmental Ethics. Environmental Ethics: An Anthology. Cambridge: Blackwell, pp. 319-330.

**PUBLICATIONS AND
PROFESSIONAL PAPERS (continued)**

Book Chapters (continued)

- Manning, R. 2000. Coming of Age: History and Trends in Outdoor Recreation Research. Trends in Outdoor Recreation Leisure, and Tourism. New York: CABI Publishing, pp 121-130.
- Manning, R. 1999. Crowding and Carrying Capacity in Outdoor Recreation: From Normative Standards to Standards of Quality. Leisure Studies: Prospects for the Twenty-First Century. State College, Pennsylvania: Venture Press, pp. 323-334.
- Manning, R. 1991. Sustainable Tourism: Tourism in the Parks, Recreation and Conservation Community. Tourism and Leisure: Dynamics and Diversity. Arlington, Virginia: National Recreation and Park Association, pp. 107-116.

Journal Articles

- Minter, B. and Manning. In Press. The Historical Resolution of Our Ecologic Crisis. Organization and Environment.
- Cole, D., R. Manning and D. Lime. In Press. Putting Numbers in Their Place: Addressing the Visitor Capacity of Parks and Rivers. Parks and Recreation.
- Manning, R., Y. Leung, and M. Budruk. In Press. Research to Support Management of Visitor Carrying Capacity at Boston Harbor Islands. Northeastern Naturalist.
- Newman, P., R. Manning and D. Dennis. In Press. Informing Carry Capacity Decision Making in Yosemite National Park, USA Using Stated Choice Modeling. Journal of Park and Recreation Administration.
- Manning, R., S. Lawson, and J. Morrissey. In Press. What's Behind the Numbers? Qualitative Insights Into Normative Research in Outdoor Recreation. Leisure Sciences.
- Laven, D., R. Manning, and D. Krymkowski. In Press. The Relationship Between Visitor-based Standards of Quality and Existing Conditions in Parks and Outdoor Recreation. Leisure Sciences.
- Kyle, G., A. Graefe, and R. Manning. 2005. Testing the Dimensionality of Place Attachment in Recreational Settings. Environment and Behavior. 37(2): 153-177
- Manning, R. and W. Freimund. 2004. Use of Visual Research Methods to Measure Standards of Quality for Parks and Outdoor Recreation. Journal of Leisure Research. 36(4): 552-579
- Kyle, G., A. Graefe, and R. Manning, and J. Bacon. 2004. The Effect of Place Attachment on Users' Perception of Social and Environmental Conditions Encountered in a National Area. Journal of Environmental Psychology. 24:213-225
- Kyle, G., A. Graefe, and R. Manning. 2004. Satisfaction Derived from Leisure Involvement and Setting Attachment. Leisure: Journal of the Canadian Association for Leisure Studies, 28 (3-4): 277-306.
- Kyle, G., A. Graefe, R. Manning, and J. Bacon. 2004. Effect of Activity Involvement and Place Attachment on Recreationists' Perceptions of Setting Density. Journal of Leisure Research, 36(2): 209-231.
- Kyle, G., A. Graefe, R. Manning. 2004. Place Attached Recreationists...Who Are They? Journal of Park and Recreation Administration, 22(2): 65-84.
- Kyle, G., A. Graefe, R. Manning and J. Bacon. 2004. Predictors of Behavioral Loyalty Among Hikers Along the Appalachian Trail. Leisure Sciences, 26: 99-118.
- Lawson, S. and Manning, R. 2003a. Integrating Multiple Wilderness Values into a Decision-Making Model for Denali National Park and Preserve. Journal for Nature Conservation, 11(4): 355-362.
- Lawson, S. and Manning, R. 2003. Research to Guide Management of Wilderness Camping at Isle Royale National Park: Part I – Descriptive Research. Journal of Park and Recreation Administration, 21(3): 22-42.

**PUBLICATIONS AND
PROFESSIONAL PAPERS (continued)**

Journal Articles (continued)

- Lawson, S. and Manning, R. 2003b. Research to Guide Management of Wilderness Camping at Isle Royale National Park: Part II – Prescriptive Research. Journal of Park and Recreation Administration, 21(3): 43-56.
- Manning, R., W. Valliere, B. Wang, S. Lawson, and P. Newman. 2003. Estimating Day Use Social Carrying Capacity in Yosemite National Park. Leisure: The Journal of the Canadian Association for Leisure Studies, 27(1-2): 77-102.
- Minteer, B., E. Corley and R. Manning. 2003. Environmental Ethics Beyond Principle? The Case for a Pragmatic Contextualism. Journal of Agricultural and Environmental Ethics, 17: 131- 156.
- Minteer, B. and R. Manning. 2003. The Deconstruction and Reconstruction of Conservation. The George Wright Forum, 20(4): 64-77.
- Kyle, G., A. Grafe, R. Manning, and J. Bacon. 2003. An Examination of the Relationship between Leisure Activity Involvement and Place Attachment among Hikers Along the Appalachian Trail. Journal of Leisure Research, 35(3): 249-273.
- Lawson, S., A. Keily, and R. Manning. 2003. Computer Simulation as a Tool for Developing Alternatives for Managing Crowding at Wilderness Campsites on Isle Royale. The George Wright Forum, 20(3): 72-82.
- Lawson, S., Manning, R., Valliere, W., and Wang, B. 2003. Proactive Monitoring and Adaptive Management of Social Carrying Capacity in Arches National Park: An Application of Computer Simulation Modeling. Journal of Environmental Management, 68: 305-313.
- Manning, R. 2003. What to do about Crowding and Solitude in Parks and Wilderness?: A Reply to Stewart and Cole. Journal of Leisure Research 35: 107-118
- Manning, R. 2003. Emerging Principles for Using Information/Education in Wilderness Management. International Journal of Wilderness 9 (1):20-27,12.
- Manning, R., S. Lawson, P. Newman, W. Valliere, M. Budruk, and D. Laven. 2003. Basic and Applied Research: Application of Disciplinary Theory and Methods in the Field of Leisure Studies. Leisure and Society, 26(1): 25-48.
- Newman, P., R. Manning, J. Bacon, A. Graefe, and G. Kyle. 2003. An Evaluation of Appalachian Trail Hikers' Knowledge of Minimum Impact Skills and Practices. International Journal of Wilderness, 9(2): 34-38.
- Manning, R. and S. Lawson. 2002. Carrying Capacity as "Informed Judgement": The Values of Science and the Science of Values. Environmental Management 30: 157-168.
- Manning, R., B. Wang, W. Valliere, S. Lawson, and P. Newman. 2002. Research to Estimate and Manage Carrying Capacity of a Tourist Attraction: A Study of Alcatraz Island. Journal of Sustainable Tourism 10: 388-464.
- Davenport, M, W. Borrie, W. Freimund, and R. Manning. 2002. Assessing the Relationship Desired Experiences and Support for Management Actions at Yellowstone National Park Using Multiple Methods. Journal of Park and Recreation Administration 20(3): 51-64
- Manning, R. and T. More. 2002. Recreational Values of Public Parks. The George Wright Forum 19: 21-30.
- Lawson, S. and R. Manning. 2002. Tradeoffs Among Social, Resource, and Managerial Attributes of the Denali Wilderness Experience: A Contextual Approach to Normative Research. Leisure Sciences 24: 297-312.
- Manning, R., S. Lawson, P. Newman, D. Laven, W. Valliere. 2002. Methodological Issues in Measuring Crowding-Related Norms in Outdoor Recreation. Leisure Sciences 24: 339-348.

PUBLICATIONS AND

PROFESSIONAL PAPERS (continued)

Journal Articles (continued)

- Manning, R. and W. Valliere. 2002. Coping in Outdoor Recreation: Causes and Consequences of Crowding and Conflict Among Community Residents. Journal of Leisure Research. 33(4): 410-426.
- Lawson, S. and R. Manning. 2001. Solitude Versus Access: A Study of Tradeoffs in Outdoor Recreation Using Indifference Curve Analysis. Leisure Sciences. 23: 179-191.
- Manning, R., P. Newman, W. Valliere, B. Wang, and S. Lawson. 2001. Respondent Self-Assessment Of Research on Crowding Norms in Outdoor Recreation. Journal of Leisure Research 33(3): 251-271.
- Manning, R. 2001. Visitor Experience and Resource Protection: A Framework for Managing the Carrying Capacity of National Parks. Journal of Park and Recreation Administration, 19(1): 93-108.
- Laven, D., R. Manning, D. Johnson, and M. Vande Kamp. 2001. Integrating Subsistence Use and Users into Park and Wilderness Management. The George Wright Forum 18(3): 52-61.
- Bacon, J., R. Manning, D. Johnson, and M. Vande Kamp. 2001. Norm Stability: A Longitudinal Analysis of Crowding and Related Norms in the Wilderness of Denali National Park and Preserve. The George Wright Forum 18(3): 62-71.
- Warzecha, C., R. Manning, D. Lime, and W. Freimund. 2001. Diversity in Outdoor Recreation: Planning and Managing a Spectrum of Visitor Opportunities in and Among Parks. The George Wright Forum 18(3): 99-111.
- Lawson, S. and R. Manning. 2001. Crossing Experiential Boundaries: Visitor Preferences Regarding Tradeoffs Among Social, Resource, and Managerial Attributes of the Denali Wilderness. The George Wright Forum 18(3): 10-27.
- Borrie, W., W. Freimund, M. Davenport, and R. Manning. 2001. Crossing Methodological Boundaries: Assessing Visitor Motivations and Support for Management Actions at Yellowstone National Park Using Quantitative and Qualitative Research Approaches. The George Wright Forum 18(3): 72-84.
- Budruk, M., W. Valliere, R. Manning, D. Laven, and M. Hof. 2001. Crossing Programmatic Boundaries: Integrative Approaches to Managing the Quality of the Visitor Experience. The George Wright Forum 18(3): 124-131.
- Manning, R., J. Bacon, A. Graefe, G. Kyle, R. Lee, and R. Burns. 2001. "I Never Hike Alone": Security on the Appalachian Trail. Parks and Recreation 36(7): 50-56.
- Manning, R., W. Valliere, B. Minter, B. Wang, and C. Jacobi. 2000. Crowding in Parks and Outdoor Recreation: A Theoretical, Empirical, and Managerial Analysis. Journal of Park and Recreation Administration, 18(4): 57-72.
- Morrissey, J. and R. Manning. 2000. Race, Residence and Environmental Concern: New Englanders and the White Mountain National Forest. Human Ecology Review, 7(1): 12-24.
- Minter, B. and R. Manning. 2000. Convergence in Environmental Values: An Empirical and Conceptual Defense. Ethics, Place and Environment, 3(1): 47-60.
- Jacobi, C. and R. Manning. 1999. Crowding and Conflict on the Carriage Roads of Acadia National Park: An Application of the Visitor Experience and Resource Protection Framework. Park Science, 19(2):22-26.
- Manning, R., S. Lawson, and L. Frymier. 1999. Navigating the Confluence of Two Streams of Social Research: Contingent Valuation and Normative Standards. Human Ecology Review, 6(1):35-48.

PUBLICATIONS AND

PROFESSIONAL PAPERS (continued)

Journal Articles (continued)

- Manning, R., W. Valliere, and B. Minter. 1999. Values, Ethics, and Attitudes Toward National Forest Management. Society and Natural Resources, 12(5):421-436.
- Manning, R., W. Valliere, B. Wang, and C. Jacobi. 1999. Crowding Norms: Alternative Measurement Approaches. Leisure Sciences. 21(2):97-115.
- Wang, B. and R. Manning. 1999. Computer Simulation Modeling for Recreation Management: A Study on Carriage Road Use in Acadia National Park, Maine, USA. Environmental Management, 23(2):193-203.
- Minter, B. A. and R. Manning. 1999. Pragmatism in Environmental Ethics: Democracy, Pluralism, and the Management of Nature. Environmental Ethics. 21(2):191-207.
- Manning, R. 1998. "To Provide for the Enjoyment": Recreation Management in the National Parks. The George Wright Forum. 15(1):6-20.
- Manning, R. 1998. Integration in Natural Resources Education: Designing a Core Curriculum. Society and Natural Resources. 11:179-190.
- Manning, R., C. Jacobi, W. Valliere, and B. Wang. 1998. Standards of Quality in Parks and Recreation. Parks and Recreation. 33(7):88-94.
- Manning, R. and B. Wang. 1998. Social Science in the National Park System: An Assessment of Visitor Information. Park Science. 18(1):1, 16-17.
- Ormiston, D., A. Gilbert, and R. Manning. 1998. Indicators and Standards of Quality for Ski Resort Management. Journal of Travel Research. 36:35-41.
- Manning, R. 1997. Social Carrying Capacity of Parks and Outdoor Recreation Areas. Parks and Recreation. 32(10): 32-38.
- Negra, C. and R. Manning. 1997. Incorporating Environmental Behavior, Ethics, and Values into Nonformal Environmental Education Programs. Journal of Environmental Education. 28(2):10-21.
- Manning, R., D. Johnson, and M. Vande Kamp. 1996. Norm Congruence Among Tour Boat Passengers to Glacier Bay National Park. Leisure Sciences 18(2):125-141.
- Manning, R., D. Lime, W. Freimund, and D. Pitt. 1996. Crowding Norms at Frontcountry Sites: A Visual Approach to Setting Standards of Quality. Leisure Sciences 18(1):39-59.
- Manning, R., D. Lime, and M. Hof. 1996. Social Carrying Capacity of Natural Areas: Theory and Application in the National Parks. Natural Areas Journal 16(2):118-127.
- Manning, R., J. Marion, and J. Roggenbuck. 1996. Recreation Management in Natural Areas: Problems and Practices, Status and Trends. Natural Areas Journal 16(2):142-146.
- Manning, R. and W. Valliere. 1996. Environmental Values, Environmental Ethics and Wilderness Management: An Empirical Study. International Journal of Wilderness 2(2):27-32.
- Manning, R., W. Valliere, and B. Minter. 1996. Environmental Values and Ethics: An Empirical Study of the Philosophical Foundations for Park Policy. The George Wright Forum 13(2):20-31.
- Manning, R., D. Lime, M. Hof, and W. Freimund. 1995. The Visitor Experience and Resource Protection (VERP) Process: The Application of Carrying Capacity to Arches National Park. The George Wright Forum 12(3): 41-55.
- Manning, R. 1995. Future Perfect. Parks and Recreation 30(9): 66-74.
- Hof, M., J. Hammett, M. Rees, J. Belnap, N. Poe, D. Lime, and R. Manning. 1994. Getting a Handle on Carrying Capacity: A Pilot Project at Arches National Park. Park Science 14(1):11-13.
- Roggenbuck, J., J. Marion and R. Manning. 1994. Day Users of the Backcountry: The Neglected National Park Visitor. Trends 31(3):19-24.

**PUBLICATIONS AND
PROFESSIONAL PAPERS (continued)**

Journal Articles (continued)

- Hornback, K., and R. Manning. 1992. When is a Visit Really a Visit? Public Use Reporting at Acadia National Park. Park Science 13:23.
- Manning, R., and M. Smith. 1992. Environmental Significance of Historical Parks: A Study of Evolving Park Values. Park Science 13:25.
- Manning, R. 1990. Do Parks Make Good Neighbors? Park Science 11:19-20.
- Manning, R. 1989. No Two Ways About It: An Experiment in Park Traffic Patterns. Parks and Recreation 24(4):6-7,64.
- Manning, R. 1989. The Nature of America: Visions and Revisions of Wilderness. Natural Resources Journal 29(1):25-40.
- Manning, R., and M. Fraysier. 1989. Expert and Public Opinion: Conflicting or Complimentary Views? Journal of Park and Recreation Administration 7(3):44-59.
- Bamford, T., R. Manning, L. Forcier and E. Koenemann. 1988. Differential Campsite Pricing: An Experiment. Journal of Leisure Research 20(4):324-342.
- Manning, R. 1986. Crowding Norms in Backcountry Settings. Journal of Leisure Research 17(2):75-89.
- Manning, R. 1985. Diversity in a Democracy: Expanding the Recreation Opportunity Spectrum. Leisure Sciences 7(4):377-399.
- Manning, R. 1984. Men and Mountains Meet: Journal of the Appalachian Mountain Club, 1876-1984. Journal of Forest History 28(1):24-33.
- Manning, R., E. Callinan, H. Echelberger, E. Koenemann, and D. McEwen. 1984. Differential Fees: Raising Revenue, Distributing Demand. Journal of Park and Recreation Administration 2(1):20-38.
- Manning, R., and F. Potter. 1984. Computer Simulation as a Tool in Teaching Park and Wilderness Management. Journal of Environmental Education 15(3):3-9.
- Manning, R., and L. Powers. 1984. Peak and Off-Peak Use: Redistributing the Outdoor Recreation/Tourism Load. Journal of Travel Research 23(2):25-31.
- Potter, F., and R. Manning. 1984. An Application of the Wilderness Travel Simulation Model to the Appalachian Trail in Vermont. Environmental Management 8(6):543-550.
- Manning, R. 1982. End-to-End on the Appalachian Trail. Appalachia XLIV(2):40-50.
- Manning, R. 1981. International Aspects of National Park Systems: Focus on Tourism. Tourism Recreation Research 6(2):160-174.
- Manning, R., and S. Baker. 1981. Discrimination Through User Fees: Fact or Fiction? Parks and Recreation 16(9):70-74.
- Manning, R., and C. Ciali. 1981. Recreation and River Type: Social-Environmental Relationships. Environmental Management 5(2):109-120.
- Manning, R. 1980. Going Light: New Meaning for an Old Term. Parks 4(4):9-12.
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- Underhill, A., W. Stewart, R. Manning, and E. Carpenter. 1986. A Sociological Study of Backcountry Users at Grand Canyon National Park. Technical Report No. 17, Cooperative National Park Resources Studies Unit, University of Arizona.

HONORS AND AWARDS

Louis F. Twardzik Distinguished Alumni, Department of Park, Recreation and Tourism Resources, Michigan State University
Studies in Outdoor Recreation selected as "Outstanding Academic Title" by Choice Magazine

**HONORS AND
AWARDS (continued)**

Fellow, Academy of Leisure Sciences
University Scholar, University of Vermont
Phi Kappa Phi
Sigma Xi
Xi Sigma Pi
Michigan State University Graduate College Scholarship
Maryland State Senatorial Scholarship

**PROFESSIONAL
ACTIVITIES**

Guest Editor, Leisure Sciences (Volume 24, Numbers 3 & 4, 2002)
Guest Editor, The George Wright Forum (Volume 13, Number 2, 1996; Volume 18, Number 3, 2001)
Associate Editor, International Journal of Wilderness
Associate Editor, Journal of Park and Recreation Administration
Associate Editor, Journal of Leisure and Hospitality Marketing
Fellow, Center for Research on Vermont
Member, George Wright Society
Reviewer, Journal of Leisure Research, Leisure Sciences, Journal of Forestry, Journal of Forest and Conservation History, Environmental Management, Water Resources Bulletin, Journal of Park and Recreation Administration, Society and Natural Resources, Journal of Applied Recreation Research.
Policy Review Editor, Society and Natural Resources
Associate Editor, Forest and Conservation History
Associate Editor, Journal of Leisure Research
Chairman, Tourism as an Option in Rural America, a one-day symposium sponsored by the Vermont Seminars Program

**PROFESSIONAL
ACTIVITIES (continued)**

Commissioner, Burlington, Vermont Park and Recreation Department
Coordinator, Managing America's Enduring Wilderness Resource
Coordinator, National Wilderness Research Conference
Guest Editor, The George Wright Forum
Member, American Water Resources Association
Member, National Recreation and Park Association
Member, Rural Sociological Society
Member, Temperate Ecosystems Directorate, U.S. Man and the Biosphere Program
Member, Vermont Recreation and Tourism Clearinghouse Advisory Board
Member, Vermont Statewide Comprehensive Outdoor Recreation Plan Advisory Board
Member, Wilderness Psychology Group
National Park Service Panel on Social Science in the National Parks
Professional, Vermont Recreation and Park Association
Served as expert witness for U.S. National Park Service, U.S. Department of Justice, and
Hawaii State Parks Department

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