



Director of the New Zealand Maymester Study Abroad Program (2001 – 2003). Annual budgets of \$170,100 (64 students, 2003), \$83,200 (32 students, 2002), \$73,080 (29 students, 2001).

Director of the United Kingdom Study Abroad Program: British Landscapes and Literature (2004 - Present). Annual budgets of \$52,640 (16 students, 2005) \$30,397 (9 students, 2004). [www.coe.uga.edu/uk](http://www.coe.uga.edu/uk)

## **SCHOLARLY ACTIVITIES**

### **Publications and Written Reports**

#### **Books:**

Tarrant, M.A. (in press). Concepts and applications in natural resource recreation and tourism planning: A user-interactive DVD. Enfield, NH: Science Publishers, Inc.

Cordell, H.K., Betz, C.J., English, D.B.K., Mou, S.H., Bergstrom, J.C., Teasley, R.J., Tarrant, M.A., & Loomis, J. (1999). Outdoor recreation in American life. Champaign, IL: Sagamore Publishing.

#### **Chapters in Books:**

Tarrant, M.A., Schuster, R., & Watson, A.E. (in press). The social values of wilderness. In H.K. Cordell (Ed.), The multiple values of wilderness. Washington, DC: Island Press.

Tarrant, M.A. & Porter, R. (in press). Spatial and temporal constraints to natural resource recreation and tourism: A GIS perspective. In E. Jackson (Ed.) Constraints to leisure. State College, PA: Venture Publishing:

Tarrant, M.A. & Hull, R.B. (2004). Forest values and attitudes in the South: Past and future research. In H. M. Rauscher and K. Johnsen (Eds.) Southern forest science: Past, present, and future (pp. 231 – 241). USDA Forest Service, Asheville, NC.

Tarrant, M.A. & Porter, R.P. (2004). Applications of geographic information systems to recreation and leisure studies. In J. Jenkins & J.J. Pigram (Eds.), Encyclopedia of leisure and outdoor recreation. London: Routledge.

Skog, K., Alexander, S.J., Howard, J., Cordell, H.K., Betz, C., Kocis, S., Tarrant, M., Pierce, A., Schroder, R., O'Leary, J., Tainter, J., Wear, D., Abt, K., Haynes, R., & Emery, M. (2004). Socio-economic benefits. In R.W. Guldin and H.F. Kaiser (Eds.) National Report on Sustainable Forests - 2003. GPO FS-766, Washington, DC.

#### **Journal Articles:**

Zhang, Y., Wimberly, M., & Tarrant, M.A. (in preparation). Mapping the wildland urban interface at the landscape level. Journal of Ecological Modeling.

Zhang, Y., Tarrant, M.A., & Wimberly, M. (in review). The importance of scale in using census data to identify the wildland urban interface. Journal of Landscape and Urban Planning.

Green, G.T., Tarrant, M.A. & Zhang, Y. (in review). Wilderness in whose backyard? International Journal of Wilderness.

Porter, R. & Tarrant, M.A. (in review). Wilderness non-use values and environmental justice in the north Georgia Appalachians. Rural Sociology.

Porter, R. & Tarrant, M.A. (in review). Environmental justice and the Eastern Wilderness Act: A case

example using network analysis. Forest Science.

Kyle, G., Mowen, A.J., & Tarrant, M.A. (2005). Linking place preferences with place meaning: An examination of the relationship between place motivation and place attachment. Journal of Environmental Psychology, 24, 439-454.

Tarrant, M.A., Cordell, H.K., & Green, G.T. (2003). The Public Values of Forests Scale. Journal of Forestry, 101(6), 24-30.

Cordell, H.K. & Tarrant, M.A. (2003). The Southern Forest Resource Assessment highlights: Changing demographics, outdoor recreation, values and attitudes. Journal of Forestry, 100(7), 28-33.

Cordell, H.K., Tarrant, M.A., & Green, G.T. (2003). Is the public viewpoint of wilderness shifting? International Journal of Wilderness, 9(2), 23-28.

Tarrant, M.A. & Cordell, H.K. (2002). Amenity values of public and private forests: Examining the value – attitude relationship. Environmental Management, 30(5), 692-703.

Bright, A.D. & Tarrant, M.A., (2002). The effects of environment-based coursework on the nature and complexity of attitudes: A case study of attitudes toward the Endangered Species Act. Journal of Environmental Education, 33(4), 10-19.

Tarrant, M.A. & Smith, E. (2002). Application of a modified importance – performance framework to outdoor recreation settings. Managing Leisure, 7(2), p.69-82.

Porter, R. & Tarrant, M.A. (2001). A case study of environmental justice and federal tourism sites in Southern Appalachia: A GIS application. Journal of Travel Research, 40(1), 27-40.

Green, G.T., Kleiber, D.K., & Tarrant, M.A. (2000). The effect of an outdoor recreation program on resiliency in low-income minority youth. Journal of Park and Recreation Administration, 18(3), 76-97.

Tarrant, M.A., Bright, A.D., & Cordell, H.K. (1999). A World-Wide-Web human dimensions framework and database for wildlife and forest planning. Human Dimensions of Wildlife, 4(4),18-43.

Brooks, J.J., Warren, R.J., Nelms, M.G., & Tarrant, M.A. (1999). Visitor attitudes toward and knowledge of restored bobcats on Cumberland Island National Seashore, Georgia. Wildlife Society Bulletin, 27(4), 1089-1097.

Tarrant, M.A. & Porter, R., (1999). Environmental justice and the spatial distribution of fish advisory areas in the Southern Appalachians: A geographic information systems approach. Human Dimensions of Wildlife, 4(3), 1-17.

Tarrant, M.A. (1999). Variability of the perceived crowding scale: A research note. Leisure Sciences, 21(2), 159-164.

Tarrant, M.A. & Cordell, H.K. (1999). Environmental justice and the spatial distribution of outdoor recreation sites: An application of geographic information systems. Journal of Leisure Research, 31(1), 18-34.

Tarrant, M.A. & Green, G.T. (1999). Outdoor recreation and the predictive validity of environmental attitudes. Leisure Sciences, 21(1), 17-30.

Cordell, H.K., Tarrant, M.A., McDonald, B.L. & Bergstrom, J.C. (1998). How the public views wilderness. International Journal of Wilderness, 4(3), 28-31.

Tarrant, M.A., & Shafer, C. S. (1997). Condition indicators for distinct wilderness: Is there uniformity?

International Journal of Wilderness, 3(4), 29-33.

Tarrant, M.A., Overdeest, C.O., Bright, A.D., Cordell, H.K., & English, D.B.K. (1997). The effect of persuasive communication strategies on rural resident attitudes toward ecosystem management. Society and Natural Resources, 10(6), 537-550.

Tarrant, M.A., Bright, A.D., & Cordell, H.K. (1997). Attitudes toward wildlife species protection: Assessing moderating and mediating effects in the value - attitude relationship. Human Dimensions of Wildlife, 2(2), 1-20.

Tarrant, M.A. & Cordell, H.K. (1997). The effect of respondent characteristics on environmental attitude-behavior correspondence. Environment and Behavior, 29(5), 618-637.

Tarrant, M.A., Cordell, H.K. & Kibler, T.L. (1997). Measuring perceived crowding for high density river recreation: the effects of situational conditions and personal factors. Leisure Sciences, 19(2), 97-112.

Tarrant, M.A. & English, D.B.K. (1996). A crowding-based model of social carrying capacity: Applications for recreational boating use. Journal of Leisure Research, 28(3), 155-168.

Manfredo, M.J., Driver, B.L., & Tarrant, M.A. (1996). Measuring leisure motivation: A meta-analysis of the Recreation Experience Preference Scales. Journal of Leisure Research, 28(3), 188-213.

Tarrant, M.A. (1996). Attending to past outdoor recreation experiences: Symptom reporting and changes in affect. Journal of Leisure Research, 28(1), 1-17.

Tarrant, M.A., Haas, G.E., & Manfredo, M.J. (1995). Factors affecting visitor evaluations of aircraft overflights of wilderness. Society and Natural Resources, 8, 351-360.

Tarrant, M.A., Dattilo, J., Manfredo, M.J., & Driver, B.L. (1995). Physiological response patterning of verbal and mental recreational reminiscence. Therapeutic Recreation Journal, 29(3), 147-162.

Tarrant, M.A., Manfredo, M.J., & Driver, B.L. (1994). Recollections of outdoor recreation experiences: A psycho-physiological perspective. Journal of Leisure Research, 26(4), 357-371.

Tarrant, M.A., Manfredo, M.J., Bayley, P.B., & Hess, R. (1993). The effects of recall bias and non-response bias on self-report estimates of angling participation. North American Journal of Fisheries Management, 13(2), 217-222.

Tarrant, M.A., & Manfredo, M.J. (1993). An investigation of the role of digit preference, recall bias, and non-response bias in affecting self-reports of angling participation. Leisure Sciences, 15(3), 231-238.

#### **Published Reports:**

Bright, A.D., Cordell, H.K., Hoover, A., & Tarrant, M.A. (2003). Guidelines for conducting social assessments within a human dimensions framework. (General Technical Report SRS-65). Asheville, NC: USDA Forest Service, Southern Research Station. 83 p.

Tarrant, M.A., Porter, R.P., & Cordell, H.K. (2002). Public attitudes toward forests and forest management in the South. In D. Wear & J. Greis (Eds.). Southern forest resource assessment (pp.175 – 188). (General Technical Report SRS-53). Asheville, NC: USDA Forest Service, Southern Research Station. 635 p.

Cordell, H.K. & Tarrant, M.A. (2002). Forest-based outdoor recreation. In D. Wear & J. Greis (Eds.). Southern forest resource assessment (pp. 269 – 282). (General Technical Report SRS-53). Asheville, NC: USDA Forest Service, Southern Research Station. 635 p.

Cordell, H.K., Helton, G., Redmond, C. & Tarrant, M.A. (1996). Communities and human influences in Southern Appalachian Ecosystems: The Human Dimensions. In Southern Appalachian Man and the Biosphere (SAMAB). The Southern Appalachian assessment report (1 of 5). Atlanta, GA: USDA Forest Service, Southern Region.

**Abstracts:**

Bhattacharya, K., Tarrant, M.A., Raychaudhuri, U., & Green, G.T. (2003). Creating a student-oriented learning environment to prepare future recreation managers: A demonstration in active learning with technology integration. In S.I. Stewart & W. Borrie (Eds.), Book of Abstracts 2003 Leisure Research Symposium (p.68). Ashburn, VA: National Recreation and Parks Association

Tarrant, M.A. & Brewis, A. (2003). Creating a mega international course in sustainable development. Book of Abstracts The Wildlife Society 10<sup>th</sup> Annual Conference (p.258). Bethesda, MD: The Wildlife Society.

Zhang, Y. & Tarrant, M.A. (2003). Demonstrating a GIS interpolation method for examining environmental justice issues in wilderness. Book of Abstracts. 25<sup>th</sup> Annual Southeastern Recreation Research Conference (p.10). Asheville, NC: USDA Forest Service Southern Station.

Bhattacharya, K.A., K., Tarrant, M.A., & Raychaudhuri, U. (2003). Land management planning tools: Designing a learner-centered interactive environment. Book of Abstracts. 25<sup>th</sup> Annual Southeastern Recreation Research Conference (p.11). Asheville, NC: USDA Forest Service Southern Station.

Olive, N.D., Marion, J.L., & Tarrant, M.A. (2003). Maintaining physical and recreational integrity under a dual mandate: A marriage of trail survey methods. Book of Abstracts. 25<sup>th</sup> Annual Southeastern Recreation Research Conference (p.12). Asheville, NC: USDA Forest Service Southern Station.

Tarrant, M.A., Cordell, H.K., & Green, G.T. (2002). Is the public viewpoint of wilderness shifting? In M.F. Floyd & S.I. Stewart (Eds.), Book of Abstracts 2002 Leisure Research Symposium (p.69). Ashburn, VA: National Recreation and Parks Association.

Green, G.T., Cordell, H.K., DiStefano, C. & Tarrant, M.A. (2002). Construction and validation of the National Survey on Recreation and the Environment's leisure lifestyles scale. In M.F. Floyd & S.I. Stewart (Eds.), Book of Abstracts 2002 Leisure Research Symposium (p.74). Ashburn, VA: National Recreation and Parks Association.

Tarrant, M.A. & Song, L. (2002). An electronic performance support system (EPSS) for natural resources planning: Making the Limits of Acceptable Change (LAC) process interactive. In G. Blank (Comp.), Proceedings of the Fourth Biennial Conference on University Education in Natural Resources. (p.16). Raleigh, NC: North Carolina State University.

Burtz, R. T., Bright, A. D., & Tarrant, M. A. (2001). The effects of environment-based course work on the nature of attitudes toward the Endangered Species Act. In T. Teel & P.J. Fix (Eds.), Proceedings of Human Dimensions of Natural Resources in the Western U.S. (p.6). Alta, WY: Colorado State University.

Tarrant, M.A. The influence of multicultural indicators on the predictive validity of environmental values. In M.E. Havitz & M.F. Floyd (Eds.), Book of Abstracts 2001 Leisure Research Symposium (p.81). Ashburn, VA: National Recreation and Parks Association.

Porter, R. & Tarrant, M.A. (2001). Eastern wilderness and environmental justice: A network analysis. In M.E. Havitz & M.F. Floyd (Eds.), Book of Abstracts 2001 Leisure Research Symposium (p.56). Ashburn, VA: National Recreation and Parks Association.

Porter, R. & Tarrant, M.A. (2000). Federal tourism sites and environmental justice: A GIS-based inquiry. In D.M. Samdahl & M. Havitz (Eds.), Book of Abstracts 2000 Leisure Research Symposium (p.52). Ashburn, VA: National Recreation and Parks Association.

Tarrant, M.A. & Porter, R.P. (2000). Environmental justice and the spatial distribution of tourism sites. In Book of Abstracts Sixth World Leisure Congress (p.113). Bilbao, Spain: World Leisure Congress.

Tarrant, M.A., Bright, A.D., & Cordell, H.K. (2000). An on-line data retrieval and mapping system for forest planning: A case example in recreation management. In Book of Abstracts Sixth World Leisure Congress (p.146-47). Bilbao, Spain: World Leisure Congress.

Tarrant, M.A. & Porter, R. (2000). A user-interactive multi-media CD of outdoor recreation. In Burdge, R. (Ed.), Book of Abstracts Eighth International Symposium on Society and Resource Management (p.311). Portland, OR: USDA Forest Service, Pacific Northwest Research Station.

Tarrant, M.A., Cordell, H.K., Bright, A.D., & Hoover, A. (1999). A human dimensions framework and web-site for ecosystem management. In Book of Abstracts 1999 International Symposium on Society and Resource Management (p.198). Brisbane, Australia: University of Queensland.

Green, G.T. & Tarrant, M.A. (1998). A GIS approach for assessing environmental justice: A case of outdoor recreation. In M.D. Bialeschki & W. P Stewart (Eds.), Book of Abstracts 1998 Leisure Research Symposium (p.76). Ashburn, VA: National Recreation and Parks Association.

Green, G.T., Kleiber, D., Calloway, J. & Tarrant, M.A. (1998). The effect of an outdoor vased recreation program on the development of resiliency in at-risk youth. In M.D. Bialeschki & W. P Stewart (Eds.), Book of Abstracts 1998 Leisure Research Symposium (p.60). Ashburn, VA: National Recreation and Parks Association.

Smith, E. & Tarrant, M.A. (1998). Importance – performance analysis: modifying the method to increase validity. In M.D. Bialeschki & W. P Stewart (Eds.), Book of Abstracts 1998 Leisure Research Symposium (p.75). Ashburn, VA: National Recreation and Parks Association.

Tarrant, M.A. & Kibler, T.L. (1998). Wilderness Management on the World-Wide-Web. In A.E. Watson, G.H. Aplet, & J.C. Hendee (Comps.), Personal, Societal, and Ecological Values of Wilderness: Sixth World Wilderness Congress Proceedings on Research, Management, and Allocation, Volume I (p.137-138). Ogden, UT: USDA Forest Service, Intermountain Research Station.

Tarrant, M.A. (1997). A computerized model of recreational carrying capacity: An application in multimedia. In J. Hultsman & M.D. Bialeschki (Eds.), Book of Abstracts 1997 Leisure Research Symposium (p.85). Ashburn, VA: National Recreation and Parks Association.

Tarrant, M.A., Cordell, H.K. & Bright, A.D. (1997). General public and wildlife recreationists' attitudes toward fish and wildlife issues. In M.J. Manfredro & G. Haas (Eds.), Book of Abstracts 1997 International Human Dimensions of Natural Resource in the Americas Conference (p.57-58). Fort Collins, CO: Colorado State University.

Tarrant, M.A., Hoover, A., Cordell, H.K. & Bergstrom, J. (1997) A human dimensions framework for forest planning. . In M.J. Manfredro & G. Haas (Eds.), Book of Abstracts 1997 International Human Dimensions of Natural Resource in the Americas Conference (p.17-18). Fort Collins, CO: Colorado State University.

Tarrant, M.A., & Cordell, H.K. (1996). The interactive effects of situational variables on normative and density explanations of river crowding. In P.A. Stokowski & J. Hultsman (Eds.), Book of Abstracts 1996 Leisure Research Symposium (p.2). Ashburn, VA: National Recreation and Parks Association.

Freeman, P., Tarrant, M.A. & Cordell, H.K. (1996). The reliability of the perceived crowding scale. In P.A.

Stokowski & J. Hultsman (Eds.), Book of Abstracts 1996 Leisure Research Symposium (p.81). Ashburn, VA: National Recreation and Parks Association.

Tarrant, M.A. & Shafer, C.S. (1998). A comparison of preferred experiences and setting conditions in one eastern and one western wilderness area. In D.L. Kulhavy and M.H. Legg (eds.) Wilderness and Natural Areas in Eastern North America (p.200-204). A Center for Applied Studies in Forestry Publication, Stephen F. Austin State University: Nacogdoches, Texas.

Tarrant, M.A. & Green, G.T. (1997). Crime and at-risk youth: Implications for recreation programming. In Harwell, R. (Ed.), Recreation in Small Communities (RISC) Conference (p.73). Clemson, SC: South Carolina Rural Recreation Project, Clemson University.

Tarrant, M.A., Overdeest, C., Cordell, H.K., & English, D. (1994). Public knowledge, attitudes, and support of ecosystem management. In H.K. Cordell, L. Caldwell, & S. Mou. (Ed.), Integrating Social Science and Ecosystem Management: A National Challenge. Asheville, NC: USDA Forest Service, Southern Research Station.

Tarrant, M.A. (1994). The emotional and physical health benefits of outdoor recreation recollections. In M.J. Manfredi (Ed.), Book of Abstracts Fifth International Symposium on Society and Resource Management (p.240-241). Fort Collins, CO: Colorado State University.

Tarrant, M.A., Manfredi, M.J., & Driver, B.L. (1993). Psycho-physiological responses of outdoor recreation experiences: Implications for benefits research. In C.C. Riddick & A. Watson (Eds.), Book of Abstracts 1993 Leisure Research Symposium (p.74). Ashburn, VA: National Recreation and Parks Association.

Tarrant, M.A., & Manfredi, M.J. (1991) An investigation of the role of digit preference, recall bias, and nonresponse bias in affecting self-reports of participation. In C. Sylvester & L. Caldwell (Eds.), Book of Abstracts 1991 Leisure Research Symposium (p.80). Ashburn, VA: National Recreation and Parks Association.

Driver, B.L. & Tarrant, M.A. (1990). Verbal measures of leisure benefits in natural environments and elsewhere. In J.H. Gramann (Comp.), Book of Abstracts Third Symposium on Social Science in Resource Management (p.55). College Station, TX: Texas A&M University.

#### **Non-published Reports:**

Cordell, H.K., Betz, C., Kocis, S., Tarrant, M.A., O'Leary, & Tainter, J. (2002). 2003 Nation's report on sustainable forest management. U.S. Montreal Process Working Group. Washington, DC.

Tarrant, M.A. (2001). How the public values forests: An examination of the NSRE, 2000. USDA Forest Service, Southern Forest Experiment Station, Athens, GA.

Tarrant, M.A. (1998). Factor analysis of the Wilderness Values scale. USDA Forest Service, Southern Forest Experiment Station, Athens, GA.

Tarrant, M.A. (1998). Environmental justice and the spatial distribution of National Forest management practices. USDA Forest Service, Southern Forest Experiment Station, Athens, GA.

Gossett, J., Bergstrom, J., Cordell, H.K., & Tarrant, M.A. (1997). Integration of human dimensions into resource assessment and decision-making: Summaries of some selected background readings. USDA Forest Service, Southern Forest Experiment Station, Athens, GA.

Tarrant, M.A., English, D.K., & Cordell, H.K. (1995). A user carrying capacity for the Nanathala River in North Carolina. USDA Forest Service, Wayah Ranger District, Franklin, NC.

Tarrant, M.A. (1995). The influence of environmental organizations on public land management in the

Southern Appalachians. USDA Forest Service Southern Region, Athens, GA.

Tarrant, M.A. (1995). Southern Appalachian residents' attitudes and values toward natural resources issues and management practices. USDA Forest Service Southern Region, Athens, GA.

Tarrant, M.A., Manfredo, M.J., Bannon, J.J., & Bayley, P.B. (1991). Assessment of bias in the Illinois Sport Fishing Mail Survey. Report #F-105-R (2), Division of Fisheries, Illinois Department of Conservation, Springfield, IL.

Tarrant, M.A. (1989). An assessment of Topeka resident interests and preferences concerning parks and recreation programs and facilities. City of Topeka Parks and Recreation Department, KS.

Tarrant, M.A. (1989). A fees and charges policy for the City of Topeka Parks and Recreation Department: The implementation of a differential fee policy. City of Topeka Parks and Recreation Department, KS.

Tarrant, M.A. (1989). Recreation nonparticipation in Urbana Park and Recreation programs and facilities. Urbana Park District, Urbana, IL.

#### **Book Reviews:**

Tarrant, M.A. (1996). A book review of Barnett, L. (Ed.) Research about leisure: Past, present and future. In Leisure Sciences, 18(3), 293-294.

#### **Other Publications:**

Dissertation: The psychological and physiological benefits of outdoor recreation recollections, 1992.

Masters: A market demand analysis for Urbana Parks and Recreation District, 1989.

#### **Grants and Contracts**

##### **Grants in review:**

Joye, S., Brewis-Slade, A., Feller, C., McKee, K., Hollibaugh, J.T., Meile, C., Moran, M., Tarrant, M., Duke, N., Nichols, P., Lovelock, C., Sorrell, B., Ball, M., Sessions, L., Garcia, E., & Zann, L. Integrated studies of global climate change, local human impacts, and their interaction in Pacific and Atlantic coastal mangrove habitats. Partnerships for International Research and Education, National Science Foundation (proposal # 0530176), \$2,499,544. Submitted March, 2005.

##### **Grants Currently Funded:**

Tarrant, M.A. Wilderness Recreation and National Off-Highway Vehicle Use in the United States: A National Review with Implications for Forest Management in the Southern Appalachia. USDA Forest Service (\$10,000). Funded 2004 (2 years)

Tarrant, M.A. Development of an online data storage and retrieval system for off highway vehicle use in the United States. USDA Forest Service and the National Off-highway Vehicle Conservation Council (\$27,744). Funded 2003 (4 years)

##### **Funded Grants Completed:**

Tarrant, M.A. Toward an understanding of national recreation, tourism, wilderness, and environmental information. USDA Forest Service, Southern Region (\$150,000). Funded 2001 (4 Years).

Tarrant, M.A. National visitor use monitoring for the Chattahoochee – Oconee National Forests, GA. USDA Forest Service, Chattahoochee – Oconee National Forests, GA (\$67,192). Funded 2002 (2 Years).

Tarrant, M.A. Development of an advisory protocol for environmental justice for the USDA Forest Service. Natural resource information systems, USDA Forest Service, Northern Central Region, (\$29,350). Funded 2001 (2 Years).

Tarrant, M.A. The National Survey on Recreation and the Environment, 2000: Phase II. USDA Forest Service, Southern Region (\$117,840). Funded 2000 (3 Years).

Tarrant, M.A. & Izlar, R. Forest resource conservation: Development of a study abroad in Australia and New Zealand. International Academic Program Development Fund, University of Georgia (\$3,000). Funded 2002 (1 Year).

Tarrant, M.A. & Mutter, L. A User-interactive primer for assessing global values of wilderness. University System of Georgia Board of Regents, Office of International Education (\$8,000). Funded 2000 (2 Years).

Tarrant, M.A. International travel award for the development of a collaborative distance education program between The University of Georgia and The University of Zululand, South Africa. US Agency for International Development (US AID) Foundation. US Agency for International Development (US AID) Foundation (\$3,700). Funded 2002.

Tarrant, M.A. Public attitudes toward forests and forest management in the South. The Southern Forest Resource Assessment, USDA Forest Service (\$19,353). Funded 2000 (2 Years).

Tarrant, M.A. Electronic course development of ecotourism and protected areas. University of Georgia Technology Training Center Mini-grant (\$500). Funded 2000 (1 Year).

Tarrant, M.A. International travel award to Shanghai, China. University of Georgia Research Foundation (\$800). Funded 2001 (1 Year).

Tarrant, M.A. A national human dimensions framework for forest planning and assessments: Phase III. USDA Forest Service, Southern Region (\$37,940). Funded 1999 (2 Years).

Tarrant, M.A. Multi-media development for forest recreation. University of Georgia, Warnell School of Forest Resources. Distance Learning Award (\$5,128). Funded 2000 (1 Year).

Tarrant, M.A. Development of a geographic information systems based network analysis: Assessing environmental justice for National Recreation Areas in Georgia. University of Georgia Outreach Grant (\$4,034). Funded 2000 (1 Year).

Tarrant, M.A. Gurley Creek restoration project. USDA Forest Service Chattahoochee-Oconee National Forest (\$1,000). Funded 2000 (1 Year).

Tarrant, M.A. International travel award to Bilbao, Spain and Glasgow, Scotland. University of Georgia Research Foundation (\$1,050). Funded 2000 (1 Year).

Tarrant, M.A. The National Survey on Recreation and the Environment, 2000: Phase I. USDA Forest Service, Southern Region (\$57,263). Funded 1999 (1 Year).

Tarrant, M.A. Development of an international student exchange program. University of Georgia, Office of International Education (\$2,152). Funded 1999 (1 Year).

Tarrant, M.A. Development of a thematic environmental and conservation interpretation program for the Chattahoochee Urban National Forest. USDA Forest Service Chattahoochee-Oconee National Forest (\$5,489). Funded 1999 (1 Year).

- Tarrant, M.A. Development and evaluation of a Web CT user-interactive course. University System of Georgia Board of Regents (\$18,748). Funded 1998 (1 Year).
- Tarrant, M.A. International travel award to Bangalore, India. University of Georgia Research Foundation (\$1,200). Funded 1998 (1 Year).
- Tarrant, M.A. Environmental justice in the southeastern United States: An application in GIS. The University of Georgia, College of Education Research/ Outreach Program (\$8,700). Funded 1998 (1 Year).
- Tarrant, M.A. A national human dimensions framework for forest planning and assessments: Phase II. USDA Forest Service, Southern Region (\$23,097). Funded 1998 (2 Years).
- Dattilo, J. & Tarrant, M.A. A Web CT distance learning course. The University of Georgia, Task Force on Building Best Practices for Inclusive Schools (\$3,000). Funded 1998 (1 year).
- Tarrant, M.A. International travel award to Belize City, Belize. University of Georgia Research Foundation (\$650). Funded 1997 (1 Year).
- Kleiber, D., Tarrant, M.A. & Calloway, J. Project outcomes: making the case for the impact of park and recreation services for at-risk youth. National Recreation and Park Association (\$11,802). Funded 1997 (2 Years).
- Tarrant, M.A. A national human dimensions framework for forest planning and assessments. USDA Forest Service, Southern Region (\$25,855). Funded 1997 (2 Years).
- Tarrant, M.A. World-Wide-Web independent study course development for FRS/REC331 Outdoor Recreation and Environmental Awareness. The University of Georgia, College of Education, Georgia Center for Continuing Education, and the Office of Instructional Development (\$5,300). Funded 1997 (1 Year).
- Tarrant, M.A. International travel award to Cardiff, Wales. University of Georgia Research Foundation (\$800). Funded 1996 (1 Year).
- Tarrant, M.A. Human dimensions information for ecosystem management. USDA Forest Service, Southern Region (\$25,000). Funded 1996 (2 Years).
- Tarrant, M.A. Outdoor recreation programs for combating juvenile crime. The University of Georgia, College of Education Research/ Outreach Program (\$6,600). Funded 1996 (1 Year).
- Tarrant, M.A. Analysis of congressman Jenkins' wilderness survey. Sierra Club, Atlanta, GA (\$1,000). Funded 1995 (1 Year).
- Tarrant, M.A. Communities and human influences in the Southern Appalachian region. USDA Forest Service, Southern Region (\$26,026). Funded 1995 (2 years).
- Tarrant, M.A. Economic impact analysis for The Taste of Coffee special event. Georgia Department of Natural Resources (\$250). Funded 1995 (1 Year).
- Tarrant, M.A. A carrying capacity study for the Nantahala River, North Carolina. USDA Forest Service, Southern Region (\$13,510). Funded 1994 (2 Years).
- Tarrant, M.A. Wilderness in the East and West United States: A test of the Recreation Opportunity Spectrum. The University of Georgia Faculty Research Grant (\$4,100). Funded 1994 (1 Year).
- Tarrant, M.A. Diagnosis and analysis of data from the National Survey on Recreation and the Environment. USDA

Forest Service, Southern Region (\$10,000). Funded 1994 (1 Year).

Tarrant, M.A. Southern Appalachian residents' social values of ecosystem management. USDA Forest Service, Southern Region (\$48,000). Funded 1993 (2 Years).

**Consulting awarded:**

Porter, R.P. & Tarrant, M.A. Determining acceptable carrying capacities for recreation and tourism use in the Tallulah Gorge, GA: An analysis of visitor crowding and environmental impacts. Georgia Department of Natural Resources (\$20,600), April, 2002.

**Grants Submitted, Not Funded:**

Tarrant, M.A. Developing a distance education program for forestry education with the University of Zululand, South Africa. IDEAS, University of Georgia (\$4,875), April, 2002.

Tarrant, M.A. Using GIS to determine optimal carrying capacities for a proposed lake in Haralson county. Georgia Department of Natural Resources (\$33,570). July, 2001.

Tarrant, M.A. Environmental justice and locally undesirable land uses. The North American Fund for Environmental Cooperation (\$24,084), February, 2000.

Bright, A.D. & Tarrant, M.A. Recreational boating and fishing: A review of literature and scoping process proposal. Recreational Boating and Fishing Foundation, Arlington, VA (\$33,125). January, 2000.

Bright, A.D. & Tarrant, M.A. Urban sprawl and the wildland-urban interface: A GIS approach to examining environmental justice and community satisfaction. USDA Forest Service, North Central Experiment Station, Evanston, IL (\$45,000). 1999.

Tarrant, M.A. & Leighton, C. Human dimensions module software and database development for the Natural Resources Information Systems. USDA Forest Service, Washington DC (\$699,922). 1998.

Tarrant, M.A. The human dimensions of ecosystem management: Improving understanding of ecosystem management among rural and urban residents of the Southern Appalachia. Submitted to Environmental Protection Agency (\$68,508). 1996.

Tarrant, M.A. Method bias in social science survey research. USDA Forest Service, Southern Region (\$25,245). 1994.

Tarrant, M.A. Local resident support for proposed wilderness areas in North Georgia. Sierra Club Georgia Chapter. (\$4,050). 1994.

Department of Recreation & Leisure Studies (Kleiber, D., Peacock, R., and Tarrant, M.A.) & The Institute of Community and Area Development (Clegg, C., Dempsey, S., and Hope, D.) at the University of Georgia. The Georgia rural recreation development project. AmeriCorps National and Community Service, Washington, DC (\$247,776). 1994.

Tarrant, M.A., & Floyd, M.F. Changes in mood state across stages of the recreation experience: Differences between people of color and whites. USDA Forest Service, Rocky Mountain Region (\$16,991). 1992.

Tarrant, M.A., & Samdahl, D.M. Assessment of method bias and item reliability in the National Survey of Recreation and the Environment. USDA Forest Service, Southern Region (\$76,212). 1992.

### **Recognitions and Outstanding Achievements**

Lilly Teaching Fellows Mentor, The University of Georgia (2003).

Nominated for the Josiah Meigs Distinguished Teaching Professorship, The University of Georgia (2003).

The University of Georgia Teaching Academy (2001).

Sarah H. Moss Fellowship, The University of Georgia Office of Instructional Development, \$4,450 (2000).

Phi Beta Delta Honor Society for International Scholars, Tau Chapter, The University of Georgia (2000).

Sarah H. Moss Fellowship, The University of Georgia Office of Instructional Development, \$6,500 (1998).

Friendship Force Fellowship, Universidade de Federal de Pernambuco, Recife, Brazil and The University of Georgia Office of the Vice President for Academic Affairs, \$1,700 (1997).

Nominated for the Helen Williams Award for Excellence in Collegiate Independent Study, The University of Georgia Independent Study Office, Georgia Center for Continuing Education (1995).

Lilly Teaching Fellowship, The University of Georgia Office of Instructional Development (1993).

### **Areas in Which Research is Conducted**

Natural resources recreation and ecotourism planning

International protected area and wilderness management

Geographic information systems applications in recreation and ecotourism

Human dimensions of natural resources: Environmental values and attitudes

### **Convention Presentations**

Porter, R.P. & Tarrant, M.A. Assessing the validity of a pre-existing permit system in Tallulah Gorge State Park: A study of visitor satisfaction and perceptions of crowding. 17<sup>th</sup> Northeastern Recreation Research Symposium, Bolton Landing, New York, April, 2005.

Raychaudhuri, U. & Tarrant, M.A. Federally Managed Public Lands and Issues of Environmental Justice. Urban-Rural Interface Conference, Auburn, AL, March, 2005.

Raychaudhuri, U. & Tarrant, M.A. User-interactive models for carrying capacity: A demonstration in active learning with technology integration. Southeastern Recreation Research Conference, Savannah, GA, February, 2005.

Tarrant, M.A., Hughes-Frye, M., & Ehnes, R. (Invited). National Off-highway Vehicle Conservation Council (NOHVCC) Online Library and Database. The National OHV Program Managers and NOHVCC Conference, Portland, OR, March, 2004.

Porter, R. & Tarrant, M. Determining acceptable carrying capacities for recreation use as identified by key stakeholders: A focus group process. Northeastern Recreation Research Symposium, Bolton Landing, NY, March, 2004.

Zhang, Y. & Tarrant, M.A. New methodologies for examining the environmental justice issues of desirable

natural lands. Southeastern Recreation Research Conference, Charleston, SC, February, 2004.

Tarrant, M.A., Raychaudhuri, U., & Zhang, Y. Environmental justice on the wilderness fringe: A GIS based analysis. Southeastern Recreation Research Conference, Charleston, SC, February, 2004.

Bhattacharya, K., Tarrant, M.A., & Raychaudhuri, U. Creating a user-interactive guide for environmental justice protocols: A demonstration in active learning with technology. Southeastern Recreation Research Conference, Charleston, SC, February, 2004.

Raychaudhuri, U., Bhattacharya, K., Tarrant, M.A., & Green, G. A student-oriented learning environment to prepare future recreational managers: A demonstration in active learning with technology integration. Leisure Research Symposium of the National Recreation and Parks Association Annual Congress. St. Louis, MO, October, 2003.

Tarrant, M.A. (Invited). Creating a mega international course in sustainable development. The Wildlife Society 10<sup>th</sup> Annual Conference, Burlington, VT, September, 2003.

Cordell, H.K. & Tarrant, M.A. (Invited). The public interest in wilderness management. Aspen Wilderness Rangers' Academy, Aspen, CO, May, 2003.

Cordell, H.K. & Tarrant, M.A. (Invited). Demographic and recreation trends that influence visitor use management in wilderness. National Wilderness Visitor Use Management Workshop, Colorado Springs, CO, April, 2003.

Bhattacharya, K., Raychaudhuri, U., & Tarrant, M.A. Integration of technology in environmental education: The LAC process. Environmental Education Alliance Conference, Savannah, GA, March 2003.

Bhattacharya, K., Tarrant, M.A., & Song, L. A step-by-step interactive guide to forest planning applying theories of cognitive constructivism. Eastern Educational Research Association, Hilton Head, SC, March, 2003.

Zhang, Y. & Tarrant, M.A. A GIS interpolation method for examining environmental justice issues on public lands in the United States. Southeastern Recreation Research Conference, Asheville, NC, February, 2003.

Bhattacharya, K.A., K., Tarrant, M.A., & Raychaudhuri, U. Land management planning tools: Designing a learner-centered interactive environment. Southeastern Recreation Research Conference, Asheville, NC, February, 2003.

Olive, N.D., Marion, J.L., & Tarrant, M.A. Maintaining biophysical and recreational integrity under a dual mandate: A marriage of trail survey methods. Southeastern Recreation Research Conference, Asheville, NC, February, 2003.

Cordell, H.K. & Tarrant, M.A. (Invited). Trends in outdoor recreation, demographics, values, and attitudes in the South. Southern Appalachian Man and the Biosphere Conference, Special Session on the Southern Forest Resources Assessment, Gatlinburg, TN, November, 2002.

Song, L., Tarrant, M., & Bhattacharya, K. A digital performance support system for site management: Managing the Recreational Opportunity Spectrum. Technology Exposition. Athens, GA, November, 2002.

Tarrant, M.A., Cordell, H.K., & Green, G.T. Is the public viewpoint of wilderness shifting? Leisure Research Symposium of the National Recreation and Parks Association Annual Congress. Tampa, FL, October, 2002.

Green, G.T., Cordell, H.K., Tarrant, M.A., & DiStefano, C. Construction and validation of the National Survey on Recreation and the Environment's leisure lifestyles scale. Research Symposium of the National

Recreation and Parks Association Annual Congress. Tampa, FL, October, 2002.

Cordell, H.K. & Tarrant, M.A. (Invited). Using demographic and recreation demand data in planning analysis. Live web seminar broadcast nationwide to Forest Service and other agency planners through EPIC Solutions and the EPIC Learning Institute, April, 2002.

Tarrant, M.A. & Song, L. An electronic performance support system (EPSS) for natural resource planning: Making the Limits of Acceptable Change (LAC) system interactive. Fourth Biennial Conference on University Education in Natural Resources, Raleigh, NC, March, 2002.

Porter, R., & Tarrant, M.A. Wilderness non-use values and environmental justice. Southeastern Recreation Research Conference, Athens, GA, February, 2002.

Zhang, Y., Tarrant, M.A., & Porter, R. Environmental justice and residential proximity to public lands in the United States. Southeastern Recreation Research Conference, Athens, GA, February, 2002.

Cordell, H.K. & Tarrant, M.A. (Invited). A long-term study of forest recreation and forest values. Southern Forest Science Conference, Atlanta, GA, November, 2001.

Tarrant, M.A., Porter, R., & Cordell, H.K. (invited). Southern residents' values and attitudes toward public and private forests. Southern Forest Science Conference, Atlanta, GA, November, 2001.

Cordell, H.K. & Tarrant, M.A. (Invited). The multiple public values of wilderness. National Wilderness Education and Interpretation Workshop, Interagency Carhart Wilderness Training Center, Minneapolis, MN, October, 2001.

Burtz, R. T., Bright, A. D., & Tarrant, M. A. The effect of environment-based course work on the nature of attitudes toward the Endangered Species Act. Human Dimensions of Natural Resources in the Western U.S. Grand Targhee, WY. October, 2001.

Tarrant, M.A. The influence of multicultural factors on the predictive validity of environmental values. Leisure Research Symposium of the National Recreation and Parks Association Annual Congress. Denver, CO, October, 2001.

Porter, R. & Tarrant, M.A. Eastern wilderness and environmental justice: A network analysis. Leisure Research Symposium of the National Recreation and Parks Association Annual Congress. Denver, CO, October, 2001.

Cordell, H.K. & Tarrant, M.A. (Invited). Demographic, land ownership, and other social changes in contemporary Southern society. Regional Cooperative Forestry Advisory Board, USDA Forest Service, Atlanta, GA, August, 2001.

Cordell, H.K., & Tarrant, M.A. (Invited). Ecological, inherent, and social values of wilderness. Rocky Mountain Regional Wilderness Ranger's Workshop, Aspen, CO, May, 2001.

Smith, E.K. & Tarrant, M.A. Boosting confidence in importance-performance analysis: An explanation and application of an I/P modification. Northeastern Recreation Research Symposium, Bolton Landing, NY, April, 2001.

Cordell, H.K. & Tarrant, M.A. (Invited). Knowing the public for more effective education and marketing of wilderness. Pew Wilderness Center Seminar, Washington, DC, March, 2001.

Cordell, H.K. & Tarrant, M.A. (Invited). Wilderness stewardship and bringing the public's voice to the table. National Wilderness Stewardship Training Course, Lake City, FL, February, 2001.

Porter, R. & Tarrant, M.A. Social inequality and wilderness areas: A network analysis. Southeastern Recreation Research Conference, Asheville, NC, February, 2001.

Tarrant, M.A. & Porter, R. Distance education in natural resource recreation & tourism planning: A user-interactive DVD. Society of Parks and Recreation Educators Conference, Salt Lake City, UT, February, 2001.

Cordell, H.K. & Tarrant, M.A. (Invited). Wilderness in the American mind. Wilderness Education Task Force, Santa Fe, New Mexico, November, 2000.

Porter, R. & Tarrant, M.A. Federal tourism sites and environmental justice: A GIS-based inquiry. Leisure Research Symposium of the National Recreation and Parks Association Annual Congress. Phoenix, AZ, October, 2000.

Tarrant, M.A. A GIS-based World-Wide-Web data delivery and mapping system for natural resource recreation, tourism, and leisure policy and planning. Leisure Studies Association Annual Conference, Glasgow, Scotland, July, 2000.

Tarrant, M.A. & Porter, R.P. Environmental justice and the spatial distribution of tourism sites. The 6<sup>th</sup> World Leisure Congress, Bilbao, Spain, July, 2000.

Tarrant, M.A., Bright, A.D., & Cordell, H.K. An on-line data retrieval and mapping system for forest planning: A case example in recreation management. The 6<sup>th</sup> World Leisure Congress, Bilbao, Spain, July, 2000.

Tarrant, M.A. & Porter, R. A user-interactive multi-media CD of outdoor recreation: A workshop. The 8<sup>th</sup> International Symposium on Society and Resource Management, Bellingham, Washington, June, 2000.

Porter, R. & Tarrant, M.A. Using GIS to examine federal tourism sites in an environmental justice context. University Consortium for Geographic Information Science (UCGIS) Annual Assembly, San Francisco, CA, June, 2000.

Porter, R. & Tarrant, M. A. Using Geographic Information Systems to assess outdoor recreation based environmental justice: A methodological comparison. Southeastern Recreation Research Conference, Charleston, SC, February, 2000.

Tarrant, M.A. & Porter, R. User-interactive CD for outdoor recreation planning. National Recreation and Parks Association Annual Congress. Nashville, TN, October, 1999.

Tarrant, M.A. An on-line data delivery and GIS mapping system for ecotourism planning and development. Ecotourism Association of Australia Conference. Fraser Island, Queensland, Australia, October, 1999.

Tarrant, M.A., Cordell, H.K., Bright, A.D., & Hoover, A. A human dimensions framework and web-site for ecosystem management. International Symposium on Society and Resource Management. Brisbane, Australia, July, 1999. (Accepted, but not presented due to illness)

Tarrant, M.A. (Invited). Sustainable tourism: GIS applications and experiences. First Annual Sustainable Tourism Summit, Milledgeville, GA. June, 1999.

Green, G.T., Tarrant, M.A. & Kleiber, D. The effect of an adventure-based outdoor recreation program on the development of resiliency in at-risk youth. Southeastern Recreation Research Conference. Gatlinburg, TN, February, 1999.

Tarrant, M.A. & Shafer, S.C. Using the importance-performance framework to identify condition standards for wilderness. 6<sup>th</sup> World Wilderness Congress, Bangalore, India, October, 1998.

Tarrant, M.A. Wilderness Management on the World-Wide-Web. 6<sup>th</sup> World Wilderness Congress, Bangalore, India, October, 1998.

Green, G.T. & Tarrant, M.A. Outdoor recreation and environmental justice: An application in geographic information systems. Leisure Research Symposium of the National Recreation and Parks Association Annual Congress. Miami, FL, September, 1998. Paper accepted, but not presented due to hurricane evacuation.

Green, G.T., Kleiber, D., & Tarrant, M.A. Resiliency, outdoor recreation, and at-risk youth. Leisure Research Symposium of the National Recreation and Parks Association Annual Congress. Miami, FL, September, 1998. Paper accepted, but not presented due to hurricane evacuation.

Tarrant, M.A. (Invited). GIS in forest planning and assessments. GIS in Tourism and Recreation Planning and Management. Lincoln University, Canterbury, New Zealand. March, 1998.

Tarrant, M.A. & Williams, R. A computerized model of recreational carrying capacity. Leisure Research Symposium of the National Recreation and Parks Association Annual Congress. Salt Lake City, UT, October, 1997.

Tarrant, M.A. (Invited). A human dimensions framework for forest planning and eco-regional assessments. National Human Dimensions Workshop, Salt Lake City, UT, April, 1997.

Tarrant, M.A., Bright, A.D. & Cordell, H.K. Attitudes toward wildlife species protection. Human Dimensions of Natural Resources in the Americas Conference. Belize City, Belize, February, 1997.

Tarrant, M.A., Hoover, A., Cordell, H.K. & Bergstrom, J. A human dimensions framework for forest planning. Conference on Human Dimensions of Natural Resources in the Americas. Belize City, Belize, February, 1997.

Smith, E., Tarrant, M.A. & Cordell, H.K. Use of the importance-performance framework toward developing national standards for outdoor recreation settings. Southeastern Recreation Research Conference. Charleston, SC, February, 1997.

Tarrant, M.A., & Cordell, H.K. The effects of personal factors and social conditions on perceived crowding. Leisure Research Symposium of the National Recreation and Parks Association Annual Congress. Kansas City, MI, October, 1996.

Freeman, P., Tarrant, M.A. & Cordell, H.K. The variability of the perceived crowding scale. Leisure Research Symposium of the National Recreation and Parks Association Annual Congress. Kansas City, MI, October, 1996.

Tarrant, M.A. & Cordell, H.K. Anglers' attitudes toward fish and wildlife issues in the Southern Appalachians. (Invited). American Fisheries Society Symposium. Dearborn, MI, August, 1996.

Tarrant, M.A. & Dattilo, J. Access to leisure for a society for all. World Leisure and Recreation Association Conference. Cardiff, Wales, July, 1996.

Tarrant, M.A. & Shafer, C.S. Condition indicators for eastern and western wilderness. Wilderness and Natural Areas in Eastern North America. Gatlinburg, TN, May, 1996.

Tarrant, M.A., Bright, A.D., & Cordell, H.K. The effect of persuasive communication strategies on rural resident attitudes toward ecosystem management. The Sixth International Symposium on Society and Resource Management. University Park, PA, May, 1996.

Fly, M.J. & Tarrant, M.A. Elements of community attachment in Southern Appalachia. The Sixth International Symposium on Society and Resource Management. University Park, PA, May, 1996.

Tarrant, M.A. & English, D.B.K. A model to establish social carrying capacities based on perceived crowding standards. Southeastern Recreation Research Conference. Savannah, GA, February, 1996.

Tarrant, M.A. (Invited). Southern Appalachian residents' values and attitudes towards natural resource issues and management practices. Southern Appalachian Man and the Biosphere Sixth Annual Conference. Knoxville, TN, November, 1995.

Tarrant, M.A. & Green, G.T. (Invited). Crime and at-risk youth: Implications for recreation programming. Recreation in small communities (RISC) conference. Jackson Hole, WY, November, 1995.

Tarrant, M.A. (Invited). The importance of "place" in ecosystem management. The Rural America Conference. Knoxville, TN, October, 1995.

Overdeest, C. & Tarrant, M.A. The social bases of environmental concern. Rural Sociological Society Annual Conference. Washington, DC, August, 1995.

Lewis, B., Cordell, H.K., Miles, M.P., & Tarrant, M.A. Segmenting the dynamic outdoor recreation market: A preliminary analysis of marketing implications from the 1994 National Survey of Recreation and the Environment. Association of Marketing Theory and Practice Conference. Savannah, GA, March, 1995.

Hibbert, J., & Tarrant, M.A. Recreational carrying capacity: Do norms exist? Southeastern Recreation Research Conference. Chattanooga, TN, February, 1995.

Nielsen, R., & Tarrant, M.A. The effect of past wilderness experience on low-impact behavior. Southeastern Recreation Research Conference. Chattanooga, TN, February, 1995.

Tarrant, M.A., Overdeest, C., Cordell, H.K., & English, D. Public knowledge, attitudes, and support of ecosystem management. Integrating Social Sciences in Ecosystem Management. Unicoi State Park, GA, December, 1994.

Tarrant, M.A. Recalling outdoor recreation experiences: Emotional and physical health benefits. The Fifth International Symposium on Society and Resource Management. Fort Collins, CO, June, 1994.

Tarrant, M.A., Haas, G.E., & Manfredi, M.J. Factors affecting wilderness visitor evaluations of aircraft overflights. Southeast Recreation Research Conference. Unicoi State Park, GA, February, 1994.

Tarrant, M.A., Manfredi, M.J., & Driver, B.L. Psycho-physiological responses to recollections of outdoor recreation experiences. Leisure Research Symposium of the National Recreation and Parks Association Annual Congress. San Jose, CA, October, 1993.

Tarrant, M.A. Economic impacts of parks and recreation. Southern Leisure Management and Trends Institute. Myrtle Beach, SC, February, 1993.

Tarrant, M.A. (Invited). Partitioning variance into variance components: Applications for leisure research. Leisure Research Symposium of the National Recreation and Parks Association Annual Congress. Cincinnati, OH, October, 1992.

Tarrant, M.A., Manfredi, M.J., and Vaske, J.J. (Invited). Recall periods: Advantages and disadvantages of changing the National Survey methodology. U.S. Fish & Wildlife Subcommittee Symposium on Options for the 1995/96 Survey. Washington, DC, September, 1992.

Tarrant, M.A. & Manfredi, M.J. The effects of aircraft overflights on wilderness visitor use. Fourth North American Symposium on Society and Resource Management. Madison, WI, May, 1992.

Tarrant, M.A., & Manfredi, M.J. Method bias and response style in self-report surveys. Leisure Research Symposium of the National Recreation and Parks Association Annual Congress. Baltimore, MD, October, 1991.

Tarrant, M.A., & Driver, B.L. Verbal measures of the health related effects of leisure. Third Symposium on Social Science in Resource Management. College Station, TX, May, 1990.

**INSTRUCTION**

**Educational Training Publications and Productions:**

Tarrant, M.A. (2004). Interactive online library for the National Off-highway Vehicle Conservation Council (NOHVCC). USDA Forest Service and NOHVCC. <http://nohvcclibrary.forestry.uga.edu/search.html>

Tarrant, M.A. & Bhattacharya, K. (2004). An electronic training protocol for environmental justice. USDA Forest Service, Northern Station.

Tarrant, M.A. (1998). Outdoor recreation and environmental awareness: Concepts and applications. A user-interactive multi-media CD. Copyright by University of Georgia, Athens, GA.

Tarrant, M.A., Leighton, C., & Cordell, H.K. (1998). A World-Wide-Web human dimensions framework for forest planning. <http://www.hdf.itos.uga.edu/>

Tarrant, M.A. (1997 - Present). On-line World-Wide-Web independent study course in outdoor recreation. University of Georgia, Athens, GA. [http://www.gactr.uga.edu/idl/courses/offerings/webct\\_index.phtml](http://www.gactr.uga.edu/idl/courses/offerings/webct_index.phtml) (access limited to registered independent study students).

**Courses Taught at University of Georgia (1992 – Present):**

Current instructional appointment is 60% (9-month), equivalent to four 3-credit semester courses per academic year. The average (mean) instructor evaluation (for each year the course was taught, beginning with the most recent) ranges from 1 “poor” to 5 “superior.”

<u>Course Prefix &amp; Number</u>	<u>Course Title</u>	<u>Instructor Evaluation</u>	<u># of Students</u>
Graduate:			
RLST 7500 (3 credits)	Natural Resources Recreation Management	4.0 (1998)	10
		3.4 (1995)	10
		3.8 (1993)	7
Graduate/ undergraduate (split):			
FORS/RLST 5410/7410 (3 credits)	Wilderness Management	4.2 (2002)	31
		4.4 (2001)	29
		4.8 (1999)	32
		4.7 (1998)	14
		4.7 (1997)	15
ANTH/FORS/RLST 5400/7400 (3 credits)	Ecotourism and Park Management	4.0 (2003)	64
		4.2 (2001)	36
		4.2 (1997)	17
		4.1 (1996)	20
		4.3 (1995)	13
ANTH/FORS/RLST 4270/6270	Natural Resource Recreation and Tourism	3.4 (1994)	15
		4.7 (2004)	15

(3 credits)	Field Study (Smoky Mountains)	4.4 (2003)	25
		4.6 (2002)	20
		4.8 (2001)	16
		4.8 (2000)	25
		4.9 (1999)	19
		4.1 (1998)	16
		4.1 (1997)	17

## Undergraduate:

RLST 4900 (3 credits)	Research and Evaluation	3.6 (1996)	11
		4.2 (1995)	16
		3.8 (1994)	10
RLST 4840 (3 credits)	Environmental Interpretation	4.1 (1998)	17
		3.6 (1996)	11
		4.3 (1994)	17
		4.4 (1993)	14
FORS/RLST 3310 (3 credits)	Outdoor Recreation and Environmental Awareness	4.5 (2004)	72
		4.6 (2003)	65
		4.0 (2002)	73
		3.7 (2001)	44
		4.5 (2000)	53
		4.1 (1998)	62
		4.0 (1997)	53
		4.3 (1996)	23
		3.7 (1995)	30
		4.2 (1994)	30
FORS/RLST 3310 (3 credits)	Outdoor Recreation and Environmental Awareness (Independent study)	4.2 (1993)	15
		4.3 (2004)	14
		4.0 (2003)	10
		4.0 (2002)	14
		4.3 (2001)	15
		4.2 (1999)	9
RLST 2030	Introduction to Recreation	4.1 (1998)	3
		3.9 (1997)	4
		3.8 (1992)	25

**Courses Taught at Colorado State University:**

NR 220	Natural Resources Ecology and Measurements	(1991 – 1999)	85-102
RR 670	Research Methods	(1992)	24

**International Instruction:**

AAEC/ANTH/ECOL/FORS/ GEOG/RLST 4271/6271 (6-12 credits)	International Natural Resources Conservation Field Study (South Pacific)	4.2 (2004)	208
		4.3 (2003)	63
		4.9 (2002)	32
		4.1 (2001)	29
AAEC/ANTH/ECOL/FORS/ GEOG/RLST 4271/6271 (6 credits)	British Landscapes and Literature (Summer)	4.8 (2004)	10

**International Exchange Programs:**

Student exchange program between the University of Georgia and Christchurch Polytechnic, Christchurch, New Zealand (January, 2000 – 2004).

**Academic Advising:**

Academic adviser to approximately 5 undergraduate students per semester (2002 – present)

Academic advisor to 10-20 (average) undergraduate students per semester (1992 – 2001)

Academic advisor to 7-10 (average) graduate students per semester (1992 – present)

**Graduate Theses Supervised:**

Olive, N. (2004). The variable interval cross-sectional area method: A voice for natural recreation trail conditions. Unpublished master's thesis, The University of Georgia, Athens, GA.

Raychaudhuri, U. (2003). Environmental justice on the wilderness fringe: A GIS-based analysis. Unpublished master's thesis, The University of Georgia, Athens, GA.

Smith, E. (1998). Increasing the validity of the importance-performance analysis: An application in outdoor recreation. Unpublished master's thesis, The University of Georgia, Athens, GA.

Nielsen, R. (1996). Ethics in wilderness management. Unpublished master's thesis, The University of Georgia, Athens, GA.

**Graduate Dissertations Supervised:**

Lewis, B. (in progress). Environmental attitude – behavior consistency. Unpublished doctoral dissertation, The University of Georgia, Athens, GA.

Kay, G. (in progress). The influence of variations of technology-based instruction on outdoor recreation and environmental attitude formation. Unpublished doctoral dissertation, The University of Georgia, Athens, GA.

Zhang, Y. (2004). Identification of the wildland-urban interface at regional and landscape scales. Unpublished doctoral dissertation, The University of Georgia, Athens, GA.

Porter, R. (2001). Environmental justice and north Georgia wilderness areas: A GIS based analysis. Unpublished doctoral dissertation, The University of Georgia, Athens, Georgia.

Green, G. (2000). The effect of an adventure-based outdoor recreation program on the development of resiliency in minority and low-income youth. Unpublished doctoral dissertation, The University of Georgia, Athens, GA.

**Membership on Graduate Degree Candidates' Committees:**

Blackwell, C. (2005). Historical preservation of America's ski lodges. Unpublished master's thesis. The University of Georgia, Athens, GA.

Moday, S. (2004). Landscape design and carrying capacity for Piedmont Park, GA. Unpublished master's thesis. The University of Georgia, Athens, GA.

Tyler, S. (2003). Maintaining the Gullah history, heritage, and culture: Is ecotourism a viable solution? Unpublished master's thesis, The University of Georgia, Athens, GA.

Shinde, P. (2002). Multi-use of storm-water detention ponds in parks and open spaces. Unpublished master's thesis, The University of Georgia, Athens, GA.

Seagraves, T. (2002). The effect of adaptive physical education programs on muscle functioning and work productivity. Unpublished doctoral dissertation, The University of Georgia, Athens, GA.

Chochrane, J. (2002). Bobcat (*Lynx rufus*) ecology in relation to Northern Bobwhite (*Colinus virginianus*) management in Southwest Georgia. Unpublished master's thesis, The University of Georgia, Athens, GA.

Guillette, G. (2001). Neo-colonial perspective on park and tourism development in the United States. Master of Science. Unpublished master's thesis, The University of Georgia, Athens, GA.

Lloyd, B.H. (1999). Sustainable design and ecotourism at the Topsail Hill State Preserve, Florida. Unpublished master's thesis, The University of Georgia, Athens, GA.

Brooks, J.J. (1998). Visitor attitudes, knowledge and support for reintroducing bobcats on Cumberland Island National Seashore, Georgia: Moderating and mediating effects. Unpublished master's thesis, The University of Georgia, Athens, GA.

Lyons, K. (1998). Developing a sense of community through counselor orientation in traditional and contemporary summer camps. Unpublished doctoral dissertation, The University of Georgia, Athens, GA.

Wagoner, K. (1998). Motivation and tennis playing ability: A predictive model. Unpublished doctoral dissertation, The University of Georgia, Athens, GA.

Tuch, D. (1997). The development of indicators and standards for cultural resources: visitor experience in cultural landscapes of two national parks. Unpublished master's thesis, The University of Georgia, Athens, GA.

Costa, L.C. (1995). A conceptual model for the integration of environmental education into urban communities. Unpublished master's thesis, The University of Georgia, Athens, GA.

Lyons, K. (1994). The relationship between job motivation and performance of camp counselors. Unpublished master's thesis, The University of Georgia, Athens, GA.

**Masters Degrees (non-thesis) Committees:**

MFR	Menon, M. (Chair)	(in progress)	UGA
MFR	Sanders, C. (Chair)	(2004)	UGA
MSc	Dunn, S. (Chair)	(2004)	UGA
MFR	Pugh, S. (Chair)	(2003)	UGA
MFR	Scales, J. (Chair)	(2002)	UGA
MFR	Deaver, W. (co-Chair)	(1998)	UGA
MFR	Cook, M.	(1998)	UGA

**Undergraduate Honors Theses:**

Marshall, V. (2003). Assessing the possible local community benefits from ecotourism operations in Kenya. Unpublished manuscript. The University of Georgia, Athens, GA. Best Paper Award at the 2004 Center for Undergraduate Research Opportunities (CURO) at The University of Georgia, April, 2004.

Hausman, L.S. (2001). Communities and conservation: An analysis of community-based ecotourism and conservation in Kakadu National Park and the Annapurna Conservation Area. Unpublished manuscript, The University of Georgia, Athens, GA.

**Undergraduate Honors (Interdisciplinary) Program Advising:**

Florez, A. (2002). International tourism. The University of Georgia.

**Undergraduate Theses:**

Dutcher, L., (2003). Environmental education materials in Georgia: Do they make the grade? Unpublished manuscript, The University of Georgia, Athens, GA.

**Undergraduate Senior Research Projects:**

Singtoroj, R. & Stanley, R. (2003). Proposed plan for the construction pf Blue Heron Nature Conservancy, Peach County, GA. Unpublished manuscript, The University of Georgia, Athens, GA.

Cary, R., James, D., & Reno, E. (2003). Management plan for Johnson’s Meadow of the North Oconee Greenway, ACC, GA. Unpublished manuscript, The University of Georgia, Athens, GA.

Agan, L., Frank, J., & Peacock, A. (2003). Wildlife management and trail maintenance for Merichase Farm. Unpublished manuscript, The University of Georgia, Athens, GA.

Allen, B., McBride, A., & Johnson, K. (2002). A land management plan for the Athens-Clarke County water pollution control plant #2. Unpublished manuscript, The University of Georgia, Athens, GA.

Brown, J., Evans, C., & Spearman, V. (2002). Trail proposal for the Brasstown Ranger Station, GA. Unpublished manuscript, The University of Georgia, Athens, GA.

Moorman, T. & Youngner, L. (2001). Management plan for Scull Shoals historic site, GA. Unpublished manuscript, The University of Georgia, Athens, GA.

Hickman, E. & Purrington, B.M. (1997). White-tailed deer and feral hog management plan for Hard Labor Creek State Park, GA. Unpublished manuscript, The University of Georgia, Athens, GA.

**Doctoral Graduate Examination Committees:**

Ed.D.	Kay, G.	(2002)	UGA (Chair)
Ed.D.	Seagraves, F.	(2001)	UGA
Ph.D.	Porter, R.	(2001)	UGA (Chair)
Ed.D.	Green, G.T.	(1998)	UGA (Chair)
Ed.D.	Lyons, K.	(1996)	UGA
Ed.D.	Groff, D.	(1996)	UGA
Ed.D.	Peacock, R.	(1995)	UGA

**Professional Service**

**Editorship of Editorial Board Member of Journals:**

Associate Editor, Environmental Management, 2004 – 2007.  
Associate Editor, Human Dimensions of Wildlife, 1994 - 2001.

**Conference Papers and Grants reviewed:**

Reviewer for the 2005 Southeast Recreation Research Conference.

Reviewer for the 2004 Southeast Recreation Research Conference.

Review coordinator for the 2003 National Recreation and Parks Association Leisure Research Symposium, Session on Outdoor Recreation: Policy, Planning and Management.

Reviewer for the 2002 Southeast Recreation Research Conference.

Reviewer for the 2000 National Recreation and Parks Association Leisure Research Symposium, Session on Recreation Management.

Review coordinator for the 1994 National Recreation and Parks Association Leisure Research Symposium, Session on Methodology, Statistics and Design.

Review coordinator for the 1993 National Recreation and Parks Association Leisure Research Symposium, Session on Methodology, Statistics and Design.

#### **Journal Articles Reviewed:**

Environmental Management, 2003 (3)

Forest Science, 1992

International Journal of Wilderness Management, 1998

Journal of Leisure Research, 1992 - 1999

Journal of Park and Recreation Administration, 1997, 2005

Journal of Soil and Water Conservation, 1994

Leisure Sciences, 1994 – 1998, 2002, 2003

Society and Natural Resources, 1998, 2001, 2002, 2003, 2004

Transaction of the American Fisheries Society, 1994

U.S. Forest Service manuscript reviews

U.S. Sea Grant Program, 1999

World Leisure Journal, 2004

#### **Professional Boards and Memberships:**

Wilderness Values Assessment (Question Leader). USDA Forest Service, Southern Region (2002 – 2004).

Southern Forest Resource Assessment (Question Leader). USDA Forest Service, Southern Region (2000 – 2002).

The Roundtable on Sustainable Forests, (Criteria Technical Committee Member), U.S. Montreal Process Working Group (1999 – 2003).

Natural Resource Information Systems Human Dimensions Module (Member). USDA Forest Service, Washington, DC. (1999 – 2002).

National Human Dimensions Steering Committee (Member). USDA Forest Service, Washington, DC. (1996 – 2002).

Southern Appalachian Assessment (Member). Southern Appalachian Man and the Biosphere Program (1995-97).

#### **PUBLIC AND UNIVERSITY SERVICE**

##### **Convention Session Chair:**

Business of Ecotourism. Ecotourism Association of Australia. Fraser Island, Queensland, Australia, October, 1999.

Social-Psychology of Leisure I. Fourth World Leisure and Recreation Association Conference. Cardiff, Wales, July, 1996.

Methodology, Statistics, and Design Aspects of Leisure Research. Leisure Research Symposium of the National Recreation and Parks Association Annual Congress. Minneapolis, MI, October, 1994.

The Role of Social Science in Ecosystem Management. The Fifth International Symposium on Society and Resource Management. Fort Collins, CO, June, 1994.

**Presentations to Professional Agencies and Institutions:**

Tarrant, M.A. & Brewis, A. Collaboration and outside providers in study abroad programs. Workshop on Directing and Operating Study Abroad Programs. Office of International Education and Franklin College of Arts and Sciences, The University of Georgia, Athens, GA, November, 2003.

Brewis, A. & Tarrant, M.A. Academic planning and operations for study abroad. Workshop on Directing and Operating Study Abroad Programs. Office of International Education and Franklin College of Arts and Sciences, The University of Georgia, Athens, GA, November, 2003.

Tarrant, M.A. & Schuster, R. The social values of wilderness. The Wilderness Values Workshop. Southern Forest Experiment Station, USDA Forest Service, Athens, GA, April, 2002.

Tarrant, M.A. & Nolan, M. Distance education and tourism planning. Tourism KwaZulu-Natal, Durban, South Africa, March, 2002.

Tarrant, M.A. & Nolan, M. Development of a distance education program at The University of Zululand. University of Zululand, Durban, South Africa, March, 2002.

Tarrant, M.A. A framework for environmental justice in the USDA Forest Service. National Human Dimensions Steering Committee Annual Meeting, Stinson Beach, CA, January, 2001.

Tarrant, M.A. & Cordell, H.K. Public attitudes and values toward southern forests and their management. Southern Forest Resource Assessment, USDA Forest Service, Atlanta, GA, January, 2001.

Cordell, H.K. & Tarrant, M.A. Forest-based outdoor recreation in the South. Southern Forest Resource Assessment, USDA Forest Service, Atlanta, GA, January, 2001.

Tarrant, M.A. Web-based data delivery and mapping applications for natural resource planning. Department of Conservation, Christchurch, New Zealand, December, 1999.

Tarrant, M.A. Developing on-line training and mapping systems for tourism and recreation planning. Tourism Board of New Zealand, Lincoln, New Zealand, December, 1999.

Tarrant, M.A. Development of an on-line GIS mapping, data retrieval and interactive training system for park planning. Parks Victoria, Melbourne, Victoria, Australia, December, 1999.

Tarrant, M.A. Web-based data delivery and mapping applications for natural resource and park planning. Parks and Wildlife Service, Hobart, Tasmania, Australia, November, 1999.

Tarrant, M.A. Development of a user-interactive and on-line GIS mapping system for conducting social assessments in forest planning. Parks Victoria, Mount Buffalo, Australia, November, 1999.

Tarrant, M.A. Web-based data delivery and mapping applications for natural resource and park planning. Parks and Wildlife Service, New South Wales, Australia, November, 1999.

Green, G.T., Cordell, H.K., & Tarrant, M.A. Recommendations for updating the SEELA database for the human dimensions framework on-line web-site. USDA Forest Service Human Dimensions Steering Committee Meeting, Missoula, Montana, November, 1999.

Tarrant, M.A. On-line data and training systems for parks and wildlife agencies. Queensland Parks and Wildlife Service, Brisbane, Queensland, Australia, October, 1999.

Tarrant, M.A. Web-based data delivery and mapping applications for natural resource and park planning. Department of Natural Resources, Brisbane, Queensland, Australia, October, 1999.

Tarrant, M.A. Development of a GIS mapping and data delivery system for forest planning. Queensland Parks and Wildlife Service, Queensland, Australia, September, 1999.

Tarrant, M.A. Social science applications in recreation, wilderness, and urban-wildland interface research. USDA Forest Service, Southern Research Station 5-year Review. Athens, GA, March, 1999.

Tarrant, M.A. Some thoughts about a human dimensions framework. USDA Forest Service workshop on the human dimensions of forest planning, assessments and policy decisions. Salt Lake City, UT, April, 1997.

Tarrant, M.A. Concept and practice of benefits based management. Tennessee Recreation and Parks Association Administrative Management Forum. Fall Creek Falls State Park, TN, September, 1996.

Tarrant, M.A., & Green, G.T. Benefits based management: An introduction with implications for crime and at-risk youth. The 27th Annual Executive Development Program for Recreation and Park Professionals. Athens, GA, February, 1996.

Tarrant, M.A., Green, G.T., & Peacock, R. Outcome based management in recreation and parks. The 26th Annual Executive Development Program for Recreation and Park Professionals. Athens, GA, February, 1995.

Tarrant, M.A. Public communication strategies for ecosystem management. USDA Forest Service Chattooga River Basin Coalition. Greenville, SC, May, 1993.

Tarrant, M.A. Applications of behavioral research in wilderness management. USDA Forest Service Southeastern Forest Experiment Station. Athens, GA, April, 1993.

#### **Research and Teaching Seminars:**

Wilderness in my Backyard (NIMBY). College of Environment and Design, Institute of Ecology, The University of Georgia, Athens, GA, October, 2004.

Field instruction and study abroad: Some pedagogical issues. School of Marine Sciences, The University of Georgia, Athens, GA, October, 2004.

A pedagogical approach to study abroad: A case example of the UGA New Zealand and Australia mega course in sustaining human societies and the natural environment. College of Education, The University of Georgia, Athens, GA, November, 2003.

Educating internationally: Adventures in New Zealand. College of Education, The University of Georgia, Athens, GA, November, 2002.

Advancing a research program in international ecotourism and stories here and there. School of Forestry, Oregon State University, Corvallis, OR, October, 2002.

Technology and social forestry: An oxymoron? Daniel B. Warnell School of Forest Resources, Graduate/ Faculty Brown Bag, The University of Georgia, Athens, GA, February, 2001.

GIS applications in forest and natural resource management. Charles Sturt University, Albury, Australia, November, 1999.

Forest recreation planning in the United States. Charles Sturt University, Albury, Australia, November, 1999.

Distance education in parks and recreation: An example of asynchronous learning. School of Leisure and Tourism Studies, University of Technology, Sydney, Australia, October, 1999.

On-line applications in teaching and research. Colorado State University, Fort Collins, Colorado, June, 1999.

Web-based delivery in natural resource recreation. University of Wyoming, Laramie, Wyoming, December, 1998.

Interactive CD development of outdoor recreation management. Lincoln University, Canterbury, New Zealand, March, 1998.

Social sciences research in natural resources management. Lincoln University, Canterbury, New Zealand, February, 1998.

Teaching Assistant Mentor (TAM) program: Successful transition into a faculty career. Office of Instructional Support and Development. The University of Georgia, Athens, GA, October, 1997.

Teaching on-line with Web Course Tools (WebCT). Office of Instructional Support and Development. The University of Georgia, Athens, GA, September, 1997.

Computer-based distance education: An application in Authorware. School of Health and Human Performance, The University of Georgia, Athens, GA, May, 1997.

Instructional technology in resource recreation. Graduate seminar, The University of Georgia, Athens, GA, January, 1995.

Getting and surviving your first faculty position: Things a TA should know. Office of Instructional Development, The University of Georgia, Athens, GA, October, 1994.

Some health benefits of outdoor recreation. Department of Parks, Recreation and Tourism, Clemson University. Clemson, SC, November, 1992.

Doctoral Research Seminar, The University of Georgia, Fall, 1992; Spring, 1994; Spring, 1996.

The basics of SPSS: Mainframe and PC. Colorado State University, Fort Collins, CO, April, 1992.

**Workshops (received):**

DETOUR (distance education tour), February – April, 2001

GIS applications in forest management, May, 1999

Introduction to GIS Avenue. May, 1998

Wilderness First Responder. January, 1998

Introduction to GIS ArcView. October, 1997

**University of Georgia Committees:**

**University**

Program Review and Assessment Committee, 2003 – 2004  
Academic Affairs Faculty Symposium Planning Committee Member, 2001 - 2002

**College of Education**

Staff Awards Selection Committee, 2003 – 2004  
Faculty Awards Selection Committee, 2001 – 2004  
College Senator, 1995 – 2002  
Scholarship Committee Member, 1994 – 1997  
School Representative, College of Education Council, 1995

**Warnell School of Forest Resources**

Curriculum Committee, 2001 - Present  
Ad-hoc Committee, Fisheries Major Review, 2004 - Present  
Wildlife Group, 2002 - Present  
Committee on International Exchange Programs, 2002 – Present  
Faculty Teaching Mentor, 2003  
Colloquium Committee, 2002 – 2003  
Search Committee (Urban and Community Forestry) Member, 2002  
Search Committee (Landscape Ecology) Member, 2001

**School of Health and Human Performance**

Committee Member, Post-tenure Review, 2003  
Committee Member, Post-tenure Review, 2002  
Chair, 3<sup>rd</sup>-year Review, 2001  
Committee Member, 3<sup>rd</sup>-year review, 1999

**Department of Recreation and Leisure Studies**

Search Committee (Therapeutic Recreation) Chair, 2002  
Search Committee (Administration) Member, 2001  
Search Committee (Administration) Chair, 1998  
Search Committee (Administration) Member, 1995  
Advisor, Recreation Majors Club, 1992 – 2000

**REFERENCES**

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