Bibliography of Selected References in Visual Resource Management

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Preface

This report is the result of an extensive literature search to determine the knowledge regarding visual resource management, visual assessment, and aesthetics in landscape development (especially, industrial minerals mining and reclamation). There is public and governmental concern for the environmental and visual impact that mining has upon the landscape, such as the loss of flora and fauna, increase in atmospheric particulates and noise, change in land values, or altered scenic value. The human perception of mining (psychological aspect) is as important as the scientific attributes assigned to scenery management. Over seven hundred articles, books, or web sites were examined that dated from 1912 through 2004.

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Bibliography of Selected References on Visual Resource Management

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Introduction

The U.S. Geological Survey's Central Region Sustainable Development of Industrial Minerals Project investigates the scientific relations among the geologic, economic, and environment–related characteristics of priority industrial mineral commodities and deposit types. Specific activities include a task regarding geosocietal and reclamation characterization and methods. This task merges the principles of landscape architecture with ecosystems information in a multidisciplinary approach to assess the human perception (especially, visual impact) of reclaiming mineral resource extraction sites. Aesthetics is the one environmental concern that is most closely tied by the public to the appreciation and acceptance of a mining project.

Given the varied disciplines available to researchers in the field of landscape reclamation, it was decided to release gathered information in a bibliographic form. Over 700 reports, articles, or books concerning topics ranging from the cultural landscape and shared human values to the visual elements of form, function, and spatial pattern are listed.

The purpose of this bibliography is twofold: (1) to provide a basic, first–stop resource on visual assessment and aesthetics that the nonspecialist (for example, public, student) can consult and (2) provide reference subjects for the specialist (including landscape architects, land planners, and the mining industry). The bibliography was compiled at the U.S. Geological Survey, Denver,

Colorado, under the auspices of the Minerals Research Program. The bibliography provides a broad catalog (but not exhaustive) of literature citations for researchers concerned with methods of assessing the human perception of environment. Methods of evaluating landscape visual quality to support decisions for other development (recreation, highway, power lines, dams, ski, or forestry) were included as the subject matter may be relevant to mineral reclamation. Art criticism and philosophy also are important in understanding the value and meaning of aesthetics.

Biographies of this type are subjective due, in part, to the compiler's own knowledge, professional orientation, and difficulty in locating and reviewing all published work. Brief annotations are included for some references, may at times be taken verbatim from the abstract or book cover, and are not intended to evaluate the reference. Readers are advised to read the original articles for themselves. The coverage of references includes state and Federal publications, articles and abstracts from scientific and trade journals, and some Internet web pages.

Summary of Articles Reviewed

Table 1 presents the number of articles, web sites, or books listed by discipline in the bibliography. Publishers of reports from state (or provincial) agencies, academia, and journals are listed as such even if an article is available on the web. Articles in this review of the literature were most frequently published in *Landscape and Urban Planning, Landscape Research, Journal of Environmental Management, Environment and Behavior, Landscape Journal, Journal of Environmental Psychology,* and by The U.S. Department of Agriculture (especially, the U.S. Forest Service).

Some journals fit neatly into their respective categories (for example, *Journal of the American Institute of Planners, Landscape Design,* and *Architect* within the "Architecture, Design,

and Planning" category) whereas others required subjective decisions to place. The *Journal of Environmental Psychology, Environment and Behavior,* and *Leisure Sciences* were placed under the category "Social Sciences and Psychology" rather than "Natural Science" due to a general emphasis on perception. "Geography and Geomorphology" includes geographic information systems publications. "Natural Sciences" includes such publications as *Bioscience* and *Journal of Forestry* with additional reports from Federal government resources (for example, National Research Council).

Individual journals actually may cover a variety of disciplines. For the purpose of this report, journals were placed under the discipline traditionally associated with it rather than what the article title suggests (books are an exception where the title did determine what discipline to place it under). For example, *Landscape and Urban Planning* has articles dealing with the influence of trees on residential property values, the prediction of scenic beauty using mapped data and geographic–information systems, and cultural preferences. These articles fall under the "Economics," "Geography," and "Social Science" disciplines but actually were published in a "Design" discipline journal. The "Multidisciplinary" category includes journals such as *Urban Ecology* (merging design, ecological, social, and economic perspectives) where the publisher claims an interdisciplinary approach.

Table 1. The numbers of visual resource management, landscape perception, and aesthetic articles, books, and web sites listed by discipline.

Discipline	Journal name or origin of publication	Number of articles	Publication period
Architecture, Design, and Planning			
	Academia	17	1972–2003
	Architecture: The AIA Journal	2	1983–1984
	Architectural Design	2	1976
	Books	18	1912–2002
	Building and Environment	1	1987
	Design Methods and Theories	1	1978
	Journal of the American Institute of Planners	3	1968–1971
	Journal of Architectural and Planning Research	3	1985–1988
	Journal of Regional Science	1	1967
	Journal of Town Planning and Development	1	1969
	Journal of Urban Planning and Development	1	1979
	Land Use Policy	1	1999
	Landscape	4	1966–1985
	Landscape Architect & Specifier News	2	2002
	Landscape Architect	3	1973–1993
	Landscape Australia	2	1980–1995
	Landscape Design	19	1987–2003
	Landscape Journal	25	1980–1995
	Landscape Planning	24	1975–1986
	Landscape Research	58	1979–2003
	Landscape and Urban Planning	84	1986–2002
	The Planner	1	1974
	Progressive Architecture	1	1965
	Regional Studies	1	1982
	State Agencies	7	1968–2001
	Town Planning Review	2	1971–1975
	Urban and Landscape Planning	1	1990
	World Wide Web	2	2002
TOTAL		287	
Social Sciences and Psychology			
	Academia	7	1967–1989
	American Journal of Psychology	1	1987
	Architecture and Behavior	1	1986
	Australian Journal of Psychology	1	1985
	Books	26	1973–1998
	Canadian Journal of Psychology	1	1992
	ECUMENE	1	1999
	Environment and Behavior	29	1969–2000
	Environmental Psychology and Nonverbal Behavior	1	1978
	International Review of Applied Psychology	1	1982
	Journal of Applied Psychology	2	1974–1976
	Journal of Applied Recreation Studies	1	1995
	Journal of Consciousness Studies	1	2000
	Journal of Cross–Cultural Psychology	1	1984

Table 1. The numbers of visual resource management, landscape perception, and aesthetic articles, books, and web sites listed by discipline—Continued.

Discipline	Journal name or origin of publication	Number of articles	Publication period
Social Sciences and Psychology—Cont.			
	Journal of Environmental Psychology	26	1983–2001
	Journal of Experimental Psychology	4	1981–2003
	Journal of Leisure Research	11	1969–1986
	Journal of Rural Studies	3	1994–1999
	Journal of Social Issues	2	1989
	Leisure Sciences	4	1977–1980
	Motivation and Emotion	1	1980
	Perception and Psychophysics	1	1972
	Perceptual and Motor Skills	1	1978
	Population and Environment	1	1982
	Psychology in Spain	1	2000
	Rural Sociology	1	1983
	Scandinavian Journal of Psychology	2	1978
	Sociologia Ruralis	1	2000
	Therapeutic Recreation Journal	1	1999
TOTAL		134	
Natural Sciences			
	Academia	7	1967–2002
	Atmospheric Environment	2	1981
	Bioscience	2	1981–2000
	Bureau of Land Management	1	1998
	Ecology	1	1989
	English Nature	2	1994–2003
	Environmental Conservation	1	1976
	Evolution	1	1963
	Forest Science	6	1980–2002
	GSA Today	1	1994
	Journal of the American Water Resources Association	1	2002
	Journal of Forestry	2	1974–1976
	Landscape Ecology	4	1987–1996
	National Research Council	2	1982
	Natural History	1	1969
	Natural Resources Journal	1	1961
	New Zealand Forestry	1	1997
	Oikos	1	1987
	Scandinavian Journal of Forest Research	1	1999
	Science	1	1991
	Science Education	1	1999
	Science of the Total Environment	1	2003
	State Agencies	8	1968–2003
	The Systematics Association	1	1994
	Trends in Ecology and Evolution	1	1987
	Transactions of the New York Academy of Sciences	1	1970
	U.S. Department of Agriculture	28	1968–1999
	U.S. Department of Interior	9	1969–2002
	U.S. Environmental Protection Agency	1	1973
	Urban Forestry and Urban Greening	1	2003

Table 1. The numbers of visual resource management, landscape perception, and aesthetic articles, books, and web sites listed by discipline—Continued.

Discipline	Journal name or origin of publication	Number of articles	Publication period
Natural Sciences—Cont.			
	Water Resources Research	1	1991
	Western North American Naturalist	1	2001
TOTAL		93	
Multi–disciplinary			
	Academia	19	1976–2003
	Books	28	1967–2001
	Environment and Planning	3	1973–1994
	Environmental Geology	1	2003
	Environmental Impact Assessment Review	1	2000
	Environmental Management	1	1980
	Environmental Science and Policy	1	2001
	Ethology and Sociobiology	1	1995
	Harvard Environmental Law Review	1	1991
	Human Ecology	1	2000
	Journal of Archaeological Science	1	2001
	Journal of Environmental Management	38	1976–2003
	Landscape Archaeology and Ecology	1	1998
	Man–Environment Systems	7	1973–1975
	Management of Environmental Quality: An International Journal	1	2004
	Mining Environmental Management	1	1998
	Urban Ecology	2	1984
TOTAL		108	
Mining Industry, Engineering, and Economics			
	A1 Applications	2	1994–1995
	Aggregates and Roadbuilding	2	1999–2001
	American Journal for Agricultural Economics	1	1974
	American Society of Engineers	5	1978
	American Society for Surface Mining and Reclamation	2	1986–1997
	Engineering News–Record	1	2003
	International Journal of Surface Mining, Reclamation, and Environment	2	2003
	Journal of Environmental Economics and Management	2	1976–1982
	Land Economics	1	1974
	Mining Engineering	1	2000
	Nonrenewable Resources	1	1995
	Pit and Quarry	2	2001–2002
	Quarry Management	8	2000–2003
	Rock and Ready	2	2003
	Transactions of the Institute of Mining and Metalurgy	4	1994–2002
	U.S. Department of Transportation	2	2002
	U.S. Army Corps of Engineers	1	1988
	World Wide Web	8	1998–2003
TOTAL		47	

Table 1. The numbers of visual resource management, landscape perception, and aesthetic articles, books, and web sites listed by discipline—Continued.

Discipline	Journal name or origin of publication	Number of articles	Publication period
Geography and Geomorphology			
	Academia	5	1974–2003
	Annals of the Association of American Geographers	3	1964–2001
	Applied Geography	2	1992–1998
	Appraisal Journal	1	1987
	Books	4	1992–2001
	Canadian Geographer	3	1985–2003
	ECOS	1	2000
	Earth Surface Processes and Landforms	1	2003
	Geographic Information Sciences	1	1996
	The Geographical Review	3	1973–1977
	Geomorphology	1	2002
	GIS World	1	1992
	International Journal Geographical Information Systems	1	1994
	Journal of Urban Regional Information Systems Association	1	1998
	Photogrammetric Engineering and Remote Sensing	1	1996
	Progress in Human Geography	2	1978–2002
	Regional Studies	1	1980
	State Agencies	1	2002
	URISA Journal	2	1990–2001
TOTAL		34	
Philosophy and Art Criticism			
	Academia	8	1959–2003
	Books	15	1951–2002
	British Journal of Aesthetics	3	1995–2001
	Journal of Aesthetic Appreciation	1	1984
	Journal of Aesthetics and Art Criticism	3	1979–1995
	Journal of Aesthetic Education	2	1979–1986
	Philosophy and Geography	1	2001
	Philosophy of Science	1	1942
	World Wide Web	11	1996–2003
TOTAL		45	

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Altman, Irwin, and Wohwill, J.F., eds., 1983, Behavior and the natural environment: New York, Plenum Press, v. 6, 346 p. **** Documents the problems, issues, and theories in the study of relationships between natural environments and behavior. Includes chapters on methodological issues in the assessment of landscape quality and aesthetic and affective response to the natural environment.

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Appleton, Jay, 1996, The experience of landscape: New York, John Wiley & Sons, 282 p. **** Classic book, first published in 1975, proposed and argued a new theoretical approach to landscape aesthetics, including 'habitat theory' and 'prospect–refuge theory.'

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