

The Supporting Statement for OMB 0596-NEW
Trends in Use and Users in the Boundary Waters Canoe Area Wilderness,
Minnesota
June 2007

A. Justification

- 1. Explain the circumstances that make the collection of information necessary. Identify any legal or administrative requirements that necessitate the collection. Attach a copy of the appropriate section of each statute and regulation mandating or authorizing the collection of information.**

Laws, Regulations, and Statutes

The Wilderness Act, Public Law 88-577

The Wilderness Act directs wilderness be managed to preserve natural conditions and to provide outstanding opportunities for solitude or a primitive and unconfined type of recreation. As outlined in the “established statement of policy” of the Act, the National Wilderness Preservation System is to administer wilderness for the use and enjoyment of the American people in such manner as will leave these areas unimpaired for future use and enjoyment as wilderness. The Act encourages the gathering and dissemination of information regarding the use and enjoyment of these areas as wilderness.

To meet these management goals, wilderness managers adapt programs to changes in amount and type of use, and resultant conditions. Managers must anticipate visitor and community responses to proposed management actions and resource condition preferences. This can be difficult. Managers need more information than currently available about visitor trends regarding characteristics, activities, and preferences in wilderness and other wild areas. Federal program managers are increasing understanding of the impacts of federal policies on local community relationships with public lands. Local communities are important sources of visitors to many wildernesses.

Findings from studies highlight the need for changes in management policy and education programs. Though it is difficult to use studies from one Wilderness to draw exact conclusions about another Wilderness, studies can indicate broad trends applicable to all wilderness and wild land areas.

Data collection will be under the responsibility of the Aldo Leopold Wilderness Research Institute (ALWRI). Established in 1993 by the Forest Service, the ALWRI is an interagency effort to bring national and international focus to ecological and human dimension research to better understand and manage wilderness and other protected areas. With a mandate to both develop and provide information, the Leopold Institute aims to conduct and support scientifically rigorous research as well as apply research findings to management needs. The goals of the Institute are:

- Provide leadership in development and communication of the knowledge needed to protect and preserve wilderness and the ecological and social values derived from wilderness; and

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- Facilitate the application of this knowledge within the wilderness management agencies and other organizations. The Leopold Institute's research program focuses largely around four priority issues, one of which is to understand the effects of recreation use and recreation management strategies on wilderness attributes and visitor experiences.

The data from this information collection request will update trend information for the Boundary Waters Canoe Area Wilderness in Minnesota. Managers of this Wilderness need to know, and be able to inform the public, how visits (and visitors) have changed because of changing policies; natural disturbances; and national, regional, and local societal changes in the 1990s and early 21st century. Managers use this information to adapt current programs to changing societal interests and needs.

2. Indicate how, by whom, and for what purpose the information is to be used. Except for a new collection, indicate the actual use the agency has made of the information received from the current collection.

a. What information will be collected - reported or recorded? (If there are pieces of information that are especially burdensome in the collection, a specific explanation should be provided.)

Questions asked include:

- How many times respondent has visited the BOUNDARY WATERS CANOE AREA WILDERNESS and other wildernesses;
- Frequency of visits;
- Whether visits were with a group and if so, the size of the group;
- Length of stay;
- Level of focus on fishing (a large but potentially waning attractant at the BOUNDARY WATERS CANOE AREA WILDERNESS);
- Equipment used (such as stoves);
- Wood use for fires;
- Preferences for social conditions (i.e. do they like or accept crowded conditions due to increasingly uncontrolled day use and designated camping areas designed to limit negative effects to the natural resources, such as soil compaction, damage to tree roots, and negative impacts to water quality?)
- Recognition of trends in resource impacts and problems associated with new technology or changes in user behavior;
- Recommendations for improving relatively new fee programs and automated permit issuance;
- Changes in use patterns

b. From whom will the information be collected? If there are different respondent categories (e.g., loan applicant versus a bank versus an appraiser), each should be described along with the type of collection activity that applies.

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Respondents will be individuals, sixteen years or older, who visit the Boundary Waters Canoe Area Wilderness during the use season (May to September).

c. What will this information be used for - provide ALL uses?

A 1989, GAO evaluated over 32 million acres of classified wilderness under Forest Service management. GAO identified as a concern the Forest Service's lack of ability to determine the full extent of deteriorating wilderness conditions (U.S. GAO, 1989). A major GAO recommendation to the Forest Service was to develop baseline inventory information on the condition of designated wilderness areas and to monitor changes in the condition and use of wilderness. This information collection is vital to the Agency's ability to make management decisions and establish policy for wilderness management in general.

As was done with data from previous information collections of this type, the data gathered will:

- Contribute to the development and updating of wilderness and backcountry management plans, as part of required Forest and National Park plan revisions;
- Guide development of communication plans for informing and educating the public about wilderness opportunities and regulations;
- Provide a basis for monitoring long-term resource and social conditions in wilderness; and
- Provide substantial knowledge for decisions about wilderness allocation, facility development, and non-wilderness area management
- Be used in multiple research publications read by managers, commercial interest, academia, and the public.

d. How will the information be collected (e.g., forms, non-forms, electronically, face-to-face, over the phone, over the Internet)? Does the respondent have multiple options for providing the information? If so, what are they?

Trained personnel will conduct face-to-face, on-site interviews with visitors as they enter or leave the BOUNDARY WATERS CANOE AREA WILDERNESS, or will contact visitors at local businesses as they arrange outfitter and guide services. Local outfitters and guides briefed on this process enthusiastically support the prospect of obtaining updated trend information and indicated willingness to cooperate with survey personnel.

Using face-to-face contact, interviewers voluntarily obtain addresses for a mail back survey, a method consistent with previous area studies involving the public. This proven data collection method has been successful.

An abundance of literature exists showing the very successful collection of this type of information from recreation visitors. Response rates are usually high (typically 75 percent to 95 percent) and response to burden is relatively low. Variation in sampling procedures has been necessary across study sites and study purposes.

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Where permits are required, systematic samples (from random starts) have been possible by contacting a sample of permit recipients, but these methods do not allow personal contact with the visitor on-site. Where permits are not required, and often in order to make personal contact with the visitors on-site, we have used accepted methods of contacting visitors at trailheads and permit distribution centers. During these visitor contacts, interviewers may obtain site-visit information and mailing addresses to send questionnaires to visitors at their homes. Response rates for on-site recreation contacts are normally very good, approaching 100 percent. As long as we do not take too much time, cooperation is excellent.

Having on-site contact increases mail-back response rates due to the personal commitment to participate obtained by the interviewer. To avoid impacting visitor experiences, contact with visitors is outside the wilderness boundary. The exception was a comparative sample of those found, through normal permit checks during their trips, not to have obtained a permit as required at the Desolation Wilderness in California.

Mail-back questionnaires minimize the on-site burden for the visitor, causing a minimum of intrusion into the visitor's recreation experience. Another advantage of the mail-back questionnaire is the opportunity to reflect on responses, and perhaps provide more thoughtful, accurate responses than one would expect to receive in a personal interview. Answers to some questions are more appropriate after a trip (e.g. social conditions encountered at various locations, where the visitor traveled within the area, overall evaluations of the trip, etc.)

On some occasions, mail-back questionnaires are not as effective as on-site data collection. Proponents found, through previous surveys, that at easily accessible portions of wilderness, there are often very casual short-visit day visitors. Although these visitors may indicate they will participate by completing a mail-back survey, the response rate for these short-visit day users is significantly lower than for other day users and all overnight campers. When responses are particularly important to us, or we desire immediate or in-depth response regarding conditions encountered in the wilderness, obtaining on-site responses to questions has worked well. Visits to the Boundary Waters Canoe Area Wilderness are typically water-based, requiring loading and unloading a canoe, even for day visitors. Casual use of this wilderness is limited to a minimum of a few hours, typically.

e. How frequently will the information be collected?

Collection of information occurs during the May-September use season. While a visitor making more than one trip in a season to the BOUNDARY WATERS CANOE AREA WILDERNESS may be approached more than one time (i.e. once per visit), the goal is to have an individual complete only one survey during a year.

f. Will the information be shared with any other organizations inside or outside USDA or the government?

The Leopold Institute is the unit of the federal government focused on research in support of the National Wilderness Preservation System,

representing both the Department of Agriculture and Department of Interior. For that reason, federal agency managers and planners, academic instructors and students, membership organizations and cooperative institutions place constant demand for publications from the Institute. These entities use Institute publications as a basis for informed management decisions.

The Institute's Research Applications Program proactively works to assure research results are available to managers. An interagency steering committee guides the Institute and assists in establishing research priorities, assuring USDA and DOI managers are aware of recent research findings.

g. If this is an ongoing collection, how have the collection requirements changed over time?

This is a new information collection replicating studies on in the BOUNDARY WATERS CANOE AREA WILDERNESS in 1967 and 1991. While some information needs are the same, many are different due to policy changes, technological advancements, and changing use patterns.

3. Describe whether, and to what extent, the collection of information involves the use of automated, electronic, mechanical, or other technological collection techniques or other forms of information technology, e.g. permitting electronic submission of responses, and the basis for the decision for adopting this means of collection. Also, describe any consideration of using information technology to reduce burden.

The focus of this project is on trends, therefore developing a data set comparable to ones obtained previously is very important. While survey methods at times allow us to make web-based or e-mail versions available, we would like to maintain as many constant similarities as possible with earlier methods used. Data file development is highly automated and backed up for storage and analysis; thus, reports will be available on the Institute web site, and publications will be available at no cost to interested parties as they become available over the web site. Data collection methods will follow those used in the earlier baseline and trend studies, including methods of visitor contact, access sites sampled and mail-back methods.

Recent literature contains information on administering surveys over the Internet. Such methods have been in recent Institute studies. In addition, some visitors request surveys be available via the Internet. Survey developers considered this option and decided not to use the Internet for this survey. The desire is to replicate, as nearly as possible, the methods used in previous studies at this site. Proponents acknowledge that use of an Internet based survey would reduce the burden on the public, but the ability to make a direct correlation between newly acquired and past data (and the subsequent benefit to the public) justifies the slight increase of burden placed upon the public.

4. Describe efforts to identify duplication. Show specifically why any similar information already available cannot be used or modified for use for the purposes described in Item 2 above.

There is no duplication of effort. Data collected in this information collection is not available from other sources. The Aldo Leopold Wilderness Research Institute of the Rocky Mountain Research Station has been the only institution

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doing longitudinal analysis of wilderness users and use. Some continuing agency efforts monitor use levels at the forest-level across the country, but are not aimed at illustrating trends or providing direct input to management.

Bob Marshall Wilderness Study

There was only one study on change in visitors and their attitudes on wilderness prior to 1991. This study, conducted in the Bob Marshall Wilderness Complex, Montana, compared results of visitor surveys in 1970 and 1982. Over this period, the Bob Marshall evolved from a wilderness with predominantly horse use into an area with more backpackers than horse-packers. This change in user type was associated with tendencies toward smaller parties, shorter stays, more even distribution across the area, less hunting, shorter stays at more individual campsites, and more conflict between various types of users. There was also a decreased dependence on wood fires and a reduced concentration of weekend use. Most visitor characteristics remained about the same or changed only moderately from 1970 to 1982, though sharply contrasting attitudes were noted. For example, 1982 visitors indicated increased support for high standard trails and bridges. Visitors also reported less litter, increased impacts to vegetation and soils, and more difficulty in finding desired solitude levels. These findings had implications for changes in management policy and, in some cases, a need for changes in emphasis in education programs. Due to this study, management of the Bob Marshall Complex changed.

The Bob Marshall Wilderness Complex, however, was only representative of the few large western wildernesses characterized by heavy stock, hunting, and fall use. It was difficult to draw conclusions about likely trends in other wildernesses around the country. Some baseline data on visitors existed for other areas, many geographic areas were not represented and surveys were conducted at varying times. Consequently, when attempting to interpret differences between areas, it was seldom clear which changes to attribute to time or inter-area differences. This left researchers and managers with little option other than to speculate about what has occurred in wilderness and what was likely to occur in the future.

Changes in Society's interest in Wilderness

The 1970s, sometimes called "the environmental decade," witnessed great changes in interest in wilderness recreation with many new recruits to backpacking, presentation of new concepts in minimum impact camping and wilderness ethics, and expansion of the wilderness system. The 1980s began with an apparent reversal in this trend. While a tremendous proportion of the National Wilderness Preservation System was created during and after 1980, the "environmental decade" was over. The opinion is that the peak in wilderness use in the early 1980s indicated changing lifestyles for the baby boom generation as they moved into an era of family development and career positioning.

Previous OMB Approved Studies

Under a previous Office of Management and Budget (OMB) clearance, in the early 1990s, studies of trends in visitor use and preferences were conducted in three wildernesses (Desolation Wilderness in California, Boundary Waters Canoe

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Area Wilderness in Minnesota and Shining Rock Wilderness in North Carolina).¹ Methods of collecting information at the Boundary Waters Canoe Area Wilderness followed methods from an earlier study by Stankey in 1969.² Few trends extended across all the three wilderness areas: only five of 83 variables examined changed consistently in all wildernesses.

Previous information collected contributed to revisions of wilderness and backcountry management plans or updates; assisted in development of management strategies to reduce impacts from recreation use; aided in establishing objectives for visitor and resource management;³ and appeared in scholarly publications.⁴

Current Information Collection Request

This new information collection request will provide vital information on trends at the Boundary Waters Canoe Area Wilderness in Minnesota. Managers, and the public, need to understand how visitors (and the actual visits) have changed and whether changes are due to changing policies, natural disturbances, and national/regional/local societal changes in the 1990s and early 21st century. This information will assist managers in adapting current programs to changing societal interests and needs.

5. If the collection of information impacts small businesses or other small entities, describe any methods used to minimize burden.

Small entities will not be participating in this study, though outfitter and guide businesses have indicated their willingness to cooperate when guests approached and asked to participate in the survey. Forest Service officials shared information about the survey with outfitter and guide businesses permitted for the Boundary Waters Canoe Area Wilderness.

6. Describe the consequence to Federal program or policy activities if the collection is not conducted or is conducted less frequently, as well as any technical or legal obstacles to reducing burden.

Since most areas have never had a study of visitor preferences, characteristics, and behavior conducted, this study is capitalizing on a unique opportunity at the Boundary Waters Canoe Area Wilderness. There is fear that visitor use patterns, their expectations, and response to federal policies have been changing and will continue to change at a rapid rate. Without the ability to understand these changes, budget allocations could become inefficient, management policies ineffective, and potential to conform to the Wilderness Act intent less likely. The inability of the managing agency to develop objectives and determine wilderness conditions was the focus of a GAO evaluation and subsequent legislation.

7. Explain any special circumstances that would cause an information collection to be conducted in a manner:

- **Requiring respondents to report information to the agency more often than quarterly;**

¹ Cole, Watson, and Roggenbuck 1995, Appendix 2 Trend Study).

² Appendix 3 Stankey 1973, Appendix 4 Stankey 1971

³ Appendix 5 Watson 1995

⁴ Appendix 6 Watson 2000

- **Requiring respondents to prepare a written response to a collection of information in fewer than 30 days after receipt of it;**
- **Requiring respondents to submit more than an original and two copies of any document;**
- **Requiring respondents to retain records, other than health, medical, government contract, grant-in-aid, or tax records for more than three years;**
- **In connection with a statistical survey, that is not designed to produce valid and reliable results that can be generalized to the universe of study;**
- **Requiring the use of a statistical data classification that has not been reviewed and approved by OMB;**
- **That includes a pledge of confidentiality that is not supported by authority established in statute or regulation, that is not supported by disclosure and data security policies that are consistent with the pledge, or which unnecessarily impedes sharing of data with other agencies for compatible confidential use; or**
- **Requiring respondents to submit proprietary trade secret, or other confidential information unless the agency can demonstrate that it has instituted procedures to protect the information's confidentiality to the extent permitted by law.**

There are no special circumstances. The collection of information is conducted in a manner consistent with the guidelines in 5 CFR 1320.6.

- 8. If applicable, provide a copy and identify the date and page number of publication in the Federal Register of the agency's notice, required by 5 CFR 1320.8 (d), soliciting comments on the information collection prior to submission to OMB. Summarize public comments received in response to that notice and describe actions taken by the agency in response to these comments. Specifically address comments received on cost and hour burden.**

The Federal Register 60-day Notice requesting comments on this proposed information collection published on January 12, 2007 (Vol. 72, pgs. 1486-1487). One comment (from B.Sachau) was received. The Forest Service responded to the comment. Comment and response are included as a separate attachment to this package.

Describe efforts to consult with persons outside the agency to obtain their views on the availability of data, frequency of collection, the clarity of instructions and record keeping, disclosure, or reporting format (if any), and on the data elements to be recorded, disclosed, or reported.

Consultation with representatives of those from whom information is to be obtained or those who must compile records should occur at least once every 3 years even if the collection of information activity is the same as in prior periods. There may be circumstances that may

preclude consultation in a specific situation. These circumstances should be explained.

The proponent contacted university faculty and scientists in the field who had made trips to the Boundary Waters Canoe Area Wilderness. These individuals reviewed the survey methods and draft survey. They commented on all aspects of data collection, including complexity of questions and the value of each question proposed, both old ones asked previously and new ones. Proponents considered the comments in developing the methodology and designing the survey.

Dr. Joseph W. Roggenbuck
Professor, Virginia Tech, Retired
Forestry, 324 Cheatham Hall
Blacksburg, VA 24060
(540) 961-7553
jroggenb@msn.com

Dr. William T. Borrie
College of Forestry & Conservation
32 Campus Drive
University of Montana
Missoula, MT 59812
(406) 243-4286
Bill.borrie@umontana.edu

Dr. Robert C. Lucas
Rocky Mountain Research Station, Retired
5050 Huckleberry Road
Missoula, MT 59803
(406) 543-8497

Dr. Ingrid Schneider
University of Minnesota, CFANS
Department of Forest Resources
115 Green Hall (1530 Cleveland Avenue North)
St. Paul, MN 55108
(v) 612 624 2250
ingridss@umn.edu

Consultation with Forest Service Officials

Proponents consulted extensively with managers on the Superior National Forest. Exchanges included e-mail, letters, drafts of the measurement instrument and proposals, as well as participation in conference calls. A great deal of wording changed due to consultation with managers; as well as development of new modules, which was in response to requests from managers for information on fees, fire policies, and distribution of permits. Additionally, the national and regional leaders in wilderness management for the Forest Service were included in correspondence and engaged in reviewing the survey form after a trip they took into the Boundary Waters Canoe Area Wilderness in October of 2006. The written comments received were mostly in agreement

with the importance of obtaining this information, with no additional suggestions for new questions or changes to current questions.

9. Explain any decision to provide any payment or gift to respondents, other than re-enumeration of contractors or grantees.

There are no plans for payment or gifts to respondents as incentives to respond.

10. Describe any assurance of confidentiality provided to respondents and the basis for the assurance in statute, regulation, or agency policy.

During each face-to-face interview and at the beginning of each mail-back survey, the respondents are informed that their responses are voluntary. They are asked to provide a name and address for mailing of the questionnaire. Respondents are assured that this is the only purpose of obtaining the name and address, and that all name and address files will be destroyed as results are obtained. Respondents are offered an opportunity to receive this summary upon completion of analysis and, those wishing to receive a copy, are informed that one extra mailing label will be created and kept for this purpose.

11. Provide additional justification for any questions of a sensitive nature, such as sexual behavior or attitudes, religious beliefs, and other matters that are commonly considered private. This justification should include the reasons why the agency considers the questions necessary, the specific uses to be made of the information, the explanation to be given to persons from whom the information is requested, and any steps to be taken to obtain their consent.

Generally, the questions are not sensitive and relate only to respondents' visits to this area or other similar areas. They are asked for their preferences, past experience level, and attitudes toward existing and potential management policies. Respondents are asked to indicate their annual, household incomes and number of members of the household. It has been recommended by OMB reviewers (in previous OMB submissions) that we include this item in order to understand more about the segment of society being served by these federal services. From a trends perspective, we commonly compare household income levels to not just those reported in earlier trends studies, but to those reported by visitors in other regions and to census reports for the region of the wilderness (Minnesota, in this case). Our interest is not just in understanding if there have been shifts in the segment of American society visiting wilderness, but also how these trends correspond to changes in the local and regional population. Due to the anonymity of the survey, the information received will not be connected to a specific individual.

12. Provide estimates of the hour burden of the collection of information. Indicate the number of respondents, frequency of response, annual hour burden, and an explanation of how the burden was estimated.

- **Indicate the number of respondents, frequency of response, annual hour burden, and an explanation of how the burden was estimated. If this request for approval covers more than one form, provide separate hour burden estimates for each form.**

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- a) Description of the collection activity**
- b) Corresponding form number (if applicable)**
- c) Number of respondents**
- d) Number of responses annually per respondent,**
- e) Total annual responses (columns c x d)**
- f) Estimated hours per response**
- g) Total annual burden hours (columns e x f)**

Table 1

(a) Description of the Collection Activity	(b) Form Number	(c) Number of Respondents	(d) Number of responses annually per Respondent	(e) Total annual responses (c x d)	(f) Estimate of Burden Hours per response	(g) Total Annual Burden Hours (e x f)
BWCAW on-site interview	N/A	666	1	666	2.5 min (.041667 hr)	27.75 ≈ 28
Mailback survey - Overnight Visit	N/A	250	1	500	20 min (.3333333 hr)	166.66 ≈ 167
Mailback survey - Day Use Visit	N/A	250				
Totals	---	1166	---	1166	---	195

- **Record keeping burden should be addressed separately and should include columns for:**
 - a) **Description of record keeping activity: None**
 - b) **Number of record keepers: None**
 - c) **Annual hours per record keeper:**
 - d) **Total annual record keeping hours (columns b x c): 0**
- **Provide estimates of annualized cost to respondents for the hour burdens for collections of information, identifying and using appropriate wage rate categories.**

Table 2

(a) Description of the Collection Activity	(b) Estimated Total Annual Burden on Respondents (Hours)	(c) Estimated Average Income per Hour	(d) Estimated Cost to Respondents
On-site and mail back survey responses	195	\$17.33	\$3,379.35
Totals	195	---	\$3,379.35

*Based on average weekly salary from Department of Labor, Bureau of Labor Statistics for 2003 (<http://www.bls.gov/opub/ted/2003/oct/wk3/art02.htm>) = \$17.33/hour

- 13. Provide estimates of the total annual cost burden to respondents or record keepers resulting from the collection of information, (do not include the cost of any hour burden shown in items 12 and 14). The cost estimates should be split into two components: (a) a total capital and start-up cost component annualized over its expected useful life; and (b) a total operation and maintenance and purchase of services component.**

There are no capital operation and maintenance costs.

- 14. Provide estimates of annualized cost to the Federal government. Provide a description of the method used to estimate cost and any other expense that would not have been incurred without this collection of information.**

The response to this question covers the actual costs the agency will incur as a result of implementing the information collection. The estimate should cover the entire life cycle of the collection and include costs, if applicable, for:

Employee labor and materials for developing, printing, storing forms

Employee labor and materials for developing computer systems, screens, or reports to support the collection

Employee travel costs

Cost of contractor services or other reimbursements to individuals or organizations assisting in the collection of information

Employee labor and materials for collecting the information

Employee labor and materials for analyzing, evaluating, summarizing, and/or reporting on the collected information

These costs were calculated by the Project Coordinator, Dr. Alan Watson, and reflect budgeted amounts from FY 2006 & 2007 within the Forest Service, Rocky Mountain Research Station budgeted allocations to the University of Montana, the University of Minnesota and Leopold Institute expenses.

Table 3

Budget item	Federal Government (FY 06 & 07)
Labor and material for developing, printing or storing forms	\$10,000
Labor and material for developing computer systems, screens, or reports	\$12,000
Employee travel costs	\$2,600
Cost of contractor services	\$25,000
Labor and materials for collecting the information	\$7,500
Labor and materials for analyzing, evaluating, summarizing and/or reporting	\$15,000
TOTAL	\$72,100

15. Explain the reasons for any program changes or adjustments reported in items 13 or 14 of OMB form 83-I.

This is a new request.

16. For collections of information whose results are planned to be published, outline plans for tabulation and publication.

As with other trends studies, the most immediate outlet is usually production of a government publication that is available for download from the Forest Service Wilderness website and available to order hard copy at no cost from the Forest Service publications center. Most people with intense interest in wilderness planning or management frequent the website. Additionally, proponents develop scientific reports for the International Journal of Wilderness, the premier scientific and educational journal supported by federal wilderness management agencies and cooperating organizations. Additionally, preparation of presentations and publications for regional, national and international conferences and symposia are important outlets for students, academics and others who may be involved with similar research. In all cases, drafts intended for publication are required (by Forest Service policy) to be peer reviewed before submission, even if to a peer reviewed journal. A structured peer, statistical, and policy review system ensures Forest Service reports are high quality.

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- 17. If seeking approval to not display the expiration date for OMB approval of the information collection, explain the reasons that display would be inappropriate.**

The OMB expiration date and information collection number will be displayed.

- 18. Explain each exception to the certification statement identified in item 19, "Certification Requirement for Paperwork Reduction Act."**

There are no exceptions to the certification statement.