



**US Army Corps
of Engineers**



A Guide to the NRRP

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Purpose

This technical note describes the work, products, and participants that comprise the U.S. Army Corps of Engineers' Natural Resources Research Program (NRRP). Its purpose is to assist you, the user of NRRP-produced technology, to better understand how the NRRP works. A well-informed user can use NRRP products more effectively and be in a position to provide much-needed feedback on NRRP activities and products. For the NRRP to be successful, it must be responsive to present and future user needs. Therefore, continual and constructive feedback from the Corps users is essential for developing effective and usable technology.

Background

The Recreation Research Program (RRP), established in fiscal year 1978, was renamed the Natural Resources Research Program in 1981 to reflect both its natural resources management and recreation research functions. The purpose of the NRRP is to provide the Corps' resource managers and planners with state-of-the-art technology for planning and managing the natural resources and recreation facilities at Corps projects.

The Work Unit Selection Process

When recreation and natural resources management problems arise at a Corps project, district, or division or at the Headquarters level for which there is no solution, that problem is brought to the attention of the Program Monitor, Field Review Group (FRG) member, or District Contact. If the problem is related to an issue/focus area addressed by the NRRP strategy document and is "researchable," it is brought to the U.S. Army Engineer Waterways Experiment Station (WES) to develop (with client input) a research work unit. The proposed work unit is reviewed and evaluated by FRG and

Program Monitors for its ability to meet program objectives and usefulness of products. The work unit proposal, along with other proposals, is then presented to the FRG and Program Monitors for review, recommendation, and prioritization. This process of reviewing proposed new work units takes place once a year during the annual Program Review Meeting.

Based on input from the FRG and other considerations, NRRP Management provides a recommendation to the Program Monitors with copies furnished to the FRG and Program Review attendees. The Program Monitors then make a final recommendation to the Directorate of Research and Development and the Civil Works Research and Development Committee for funding. If a proposed work unit is funded, the research begins the next fiscal year. If not, the work unit may be resubmitted the following year for consideration.

NRRP Products

The NRRP uses a wide range of products to transfer research results to the Corps' natural resources/recreation community. The following paragraphs describe traditional publication products as well as a series of new products that customize the delivery of NRRP results toward special audiences and situations.

Instruction Reports (IRs)

These reports outline techniques or procedures for implementing usable NRRP-developed technology.

Technical Reports (TRs)

These reports contain the methodology of research investigations. TRs provide documentation of a work unit and, as a result, may not provide directly applicable natural resource management or recreation management techniques. TRs document methodologies and foundations and serve as reference for developing NRRP technology that provides specific assistance.

Miscellaneous Papers (MPs) and Contract Reports (CRs)

MPs are investigation reports that are usually less technical than TRs but provide specific guidance. CRs are prepared by NRRP contractors and describe work aimed at achieving specific objectives of NRRP work units.

HQUSACE Proponent Guidance

Upon coordination with HQUSACE, the NRRP prepares draft Engineer Manuals, Engineer Technical Letters, and Engineer Circulars for distribution by HQUSACE proponents.

Information Exchange Bulletins (IEBs)

The newsletter of the NRRP, *RecNotes*, is distributed to over 1,200 readers and provides newsworthy information about the NRRP and Corps natural resources

management activities. *RecNotes* is a forum for exchanging and discussing a wide range of natural resources and recreation activities. Readers are encouraged to submit articles, newsworthy information, and photographs.

Natural Resources Technical Notes (TNs)

Technical notes are one of the quickest mechanisms to relay research results to the NRRP users. While most TRs, MPs, and IRs provide the user with results at the end of a work unit, TNs are published at any time during a work unit. These short (approximately 5 to 10 pages), loose-leaf documents allow the NRRP to provide interim products, methodologies, and information that are of use to the field more quickly, when normal distribution of the results would not occur until published in a formal product.

Natural Resources Technical Notes are not limited to NRRP activities. All Corps personnel are encouraged to submit TNs that describe innovative natural resource and recreation management activities at their projects.

Environmental Executive Notes (EENs)

Produced by the WES Environmental Laboratory, EENs provide brief summaries about ongoing laboratory events, including NRRP activities. EENs are designed to quickly inform Corps management personnel about upcoming NRRP activities and events.

Personal Computer (PC) Programs

The NRRP prepares computer programs that allow methodologies to be customized to the user's specific situation. All programs are designed to be operated by Corps natural resources and recreation management personnel on IBM-compatible systems.

Workshops

While NRRP products are designed to stand alone, user workshops are conducted to provide direct assistance in learning or refining new techniques. NRRP workshops remain flexible and, depending on interest, can be conducted on a Corps-wide basis or at a division or district level; non-Corps entities can also be included where appropriate.

Field Demonstrations, Experiments, and Prototype Testing

From time to time, techniques developed by NRRP work units require refinement by testing in real-world conditions. Through funding from the Natural Resources Technical Support (NRTS) Program and with assistance from Corps division and district office personnel, field demonstrations and experiments are conducted using NRRP-developed techniques. Products documenting these field tests are prepared, and the knowledge gained from these demonstrations or experiments is used to refine existing and future NRRP products.

Computer Bulletin Boards

Computer-operated bulletin board services allow for rapid transfer of information between users for a host of technical activities. The NRRP presently uses the following bulletin board services:

- Automated Use Permit (AUPS) Bulletin Board: Technical assistance on AUPS activities is provided via an electronic bulletin board service. The AUPS bulletin board can be contacted via modem by calling (601) 634-3470.
- NRRP/NRTS Bulletin Board Service: Available to all Corps employees involved in recreation and natural resources management activities. The NRRP/NRTS BBS is designed to give NRRP and NRTS users better access and understanding of these programs and their resulting products. The NRRP/NRTS Bulletin Board can be accessed via modem by calling (601) 634-2683.

Mailing Lists

A crucial link in the efficient delivery of NRRP products is accurate mailing lists. Even the best NRRP product is useless if it is not delivered to the appropriate audience. Therefore, users are strongly urged to notify the NRRP Management of any address changes or corrections. The NRRP has targeted Corps management and planning offices involved with natural resources and recreation to receive all products. Furthermore, all Corps libraries receive NRRP publications. When requested, the NRRP will add, delete, or update names on the mailing lists.

NRRP "Team Member" Roles and Responsibilities

The success and effectiveness of the NRRP lies in a team effort, with numerous people having specific roles and responsibilities. If users are to provide constructive feedback on NRRP products and ongoing work, it is necessary for them to know and understand this team and the roles and responsibilities of the team members. The following paragraphs provide a brief description of each role. Table 1 provides the names of all the current NRRP contacts.

Users

Users, the recipients of NRRP technology, play a crucial role in the NRRP by providing informal, but necessary, work unit and product evaluation. Users must provide feedback on the effectiveness and clarity of NRRP products. This feedback is needed to improve future products. In addition, comments on any manpower, time, and cost savings resulting from use of the product are also needed. The NRRP looks to its users to assist in evaluating work unit direction by participating in Program Reviews, Field Review Group meetings, workshops, and other NRRP activities. While sometimes users are unable to attend these meetings, they are encouraged to relay their comments to their respective NRRP Field Review Group member or other meeting participants.

Table 1. Natural Resources Research Program Key Personnel

CERD Coordinator, HQUSACE				
David Mathis	Civil Works Program	CERD-C	(202) 761-1846	Fax (202) 761-0907
Technical Monitors, HQUSACE				
Bill Irwin	Operations, Construction and Readiness Division	CECW-ON	(202) 761-1795	Fax (202) 761-1671
Robert Daniel	Policy and Planning Division	CECW-PD	(202) 761-8568	Fax (202) 761-0472
Program Management				
J. Lewis Decell, Manager, ERRAP	Environmental Laboratory	CEWES-EP-L	(601) 634-3494	Fax (601) 634-3528
Russell K. Tillman, Assistant Manager, ERRAP	Environmental Laboratory	CEWES-EP-L	(601) 634-4201	Fax (601) 634-3528
Carolyn Schneider	Environmental Laboratory	CEWES-EP-L	(601) 634-3657	Fax (601) 634-3528
Field Review Group				
Name	Division	Office Symbol	Work Unit Proponency	Telephone/Facsimile
E. Gene Brown	Lower Mississippi Valley	CELMV-CO-O		(601) 634-5885 (601) 634-7073
Donald R. Dunwoody	Missouri River	CEMRD-ET-C	Economic effects of boat docks/marinas	(402) 697-2536 (402) 697-2538
Robert E. Heald	New England	CENED-OP-D	Evaluating camping trends	(617) 647-8305 (617) 647-8815
Donald Snyder	North Atlantic	CENAB-OP-PN	Recreation fees	(410) 962-6016 (410) 962-6038
Michael A. Loesch	North Central	CENCD-CO-ON	Reservoir operations & recreation fisheries	(312) 353-7762 (312) 353-8666
E. Paul Peloquin	North Pacific	CENPD-CO-R	Assessment of natural resources	(503) 326-6857 (503) 326-3522
John Tyger	North Pacific	CENPD-PL-ER	Assessment of natural resources	(503) 326-3829 (503) 326-7328
Sherman Gee	Ohio River	CEORD-ET-O	Economic effects of boat docks/marinas	(513) 684-3192 (513) 684-2460
Susan Whittington	South Atlantic	CESAD-CO-R	Customer satisfaction	(404) 331-6746 (404) 331-2613
Phil Turner	South Pacific	CESPD-CO-O	Ethnic culture	(415) 705-1443 (415) 705-1603
Bill McCauley	Southwestern	CESWD-CO-R	Reservoir operations & recreation fisheries	(214) 767-2434 (214) 767-5305
District Program Contacts				
Name	District	Office Symbol	Telephone	Facsimile
Owen Dutt	St. Louis	CELMS-PD-A	(314) 331-8451	(314) 331-8677
Billy J. Woods	Vicksburg	CELMK-OD-M	(601) 631-5300	(601) 631-7133
James Chandler	Vicksburg	CELMK-PD-Q	(601) 631-5429	(601) 631-5027
Michael Carey	Kansas City	CEMRK-CO-TR	(816) 426-3252	(816) 426-6001
Theodore Schaefer	Omaha	CEMRO-OP-TN	(402) 221-4203	(402) 221-4230
Donald Snyder	Baltimore	CENAB-OP-PN	(410) 962-6016	(410) 962-6038
Simeon Hook	New York	CENAN-PL-E	(212) 264-4663	(212) 264-5472
James R. Melchor	Norfolk	CENAO-PL-R	(804) 441-7766	(804) 441-7646
Jim Drumm	Philadelphia	CENAP-OP-N	(215) 656-6736	(215) 656-6742
Scott Pickard	Buffalo	CENCB-CO-O	(716) 879-4404	(716) 879-4426
Barbara Williams	Chicago	CENCC-PD-S	(312) 353-6464	(312) 886-2891
John Zanglin	Detroit	CENCE-CO-O	(313) 226-2200	(313) 226-3519

Table 1. (Concluded)

District Program Contacts (Continued)				
Name	District	Office Symbol	Telephone	Facsimile
George Hardison	Rock Island	CENCR-OD-R	(309) 794-5663	(309) 794-5180
Frank Star	St. Paul	CENCS-CO-TS	(612) 290-5328	(612) 290-5330
John Schaake	Alaska	CENPA-CO-OR-C	(907) 488-2748	(907) 488-3352
Dan Troglin	Portland	CENPP-OP-PN	(503) 326-6075	(503) 326-7190
Bob Rawson	Seattle	CENPS-OP-PO	(206) 764-3442	(206) 764-3308
Phil Benge	Walla Walla	CENPW-OP-RM	(509) 522-6602	(509) 522-6602
Michael White	Huntington	CEORH-OR-R	(304) 529-5608	(304) 529-5159
Ron Waller	Louisville	CEORL-OR-R	(502) 582-5584	(502) 582-6726
Cliff Reinert	Nashville	CEORN-CO-R	(615) 736-5116	(615) 736-7490
Bob John	Pittsburgh	CEORP-OR-R	(412) 644-4525	(412) 644-4795
Jerry McSwain	Charleston	CESAC-CO-HS	(803) 567-2506	(803) 567-4639
Bill Zattau	Jacksonville	CESAJ-CO-OR	(904) 791-2218	(904) 232-3696
Mike Miller	Mobile	CESAM-OP-T	(334) 694-3720	(334) 694-4264
Frank Huff	Savannah	CESAS-OP-SR	(912) 652-5053	(912) 652-5065
Dan Keir	Wilmington	CESAW-CO-R	(910) 251-4826	(910) 251-4848
Laura Tschudi	Los Angeles	CESPL-PD-RL	(213) 894-5421	(213) 894-5312
Rick Grover	Los Angeles	CESPL-CO-O	(213) 894-5635	(213) 894-6418
Joe Holmberg	Sacramento	CESPK-CO-O	(916) 557-5281	(916) 557-6877
John Azeveda	San Francisco	CESPN-CO-O	(415) 744-3035	(415) 744-3320
Susan Shampine	Albuquerque	CESWA-CO-O	(505) 766-2724	(800) 524-6426
Michael Ensich	Fort Worth	CESWF-OD-M	(817) 334-2153	(817) 334-2120
Mike Casteline	Galveston	CESWG-CO-MO	(409) 766-3970	(409) 776-3999
Dale Leggett	Little Rock	CESWL-CO-L	(501) 324-5673	(501) 378-6230
Earl Groves	Tulsa	CESWT-OD-R	(918) 669-7399	(918) 669-7373
Principal Investigators				
Name	NRRP Work Unit	Office Symbol	Telephone	Facsimile
Samuel F. Franco	Evaluation of Camping Trends at Corps of Engineers Projects	CEWES-EN-R	(601) 634-4205	(601) 634-3726
Jim Henderson	Measuring the Effects of Recreation Fee Programs	CEWES-EN-R	(601) 634-2866	(601) 634-3726
J. Phil Kirk	Effect of Reservoir Operations on Recreation Fisheries	CEWES-ER-A	(601) 634-3060	(601) 634-2398
R. Scott Jackson	Assessment of Recreation and Natural Resources Managed by the Corps of Engineers	CEWES-EN-R	(601) 634-2105	(601) 634-3726
Jim Henderson	Ethnic Culture and CE Recreation Participation	CEWEW-EN-R	(601) 634-2866	(601) 634-3726
John Titre	Developing Customer Service Plans for Improved Project Management	CEWES-EN-R	(601) 634-2199	(601) 634-3726
Kathy Perales	Measuring the Economic Effects of Boat Dock Permits and Marina Slip Holders	CEWES-EN-R	(601) 634-3779	(601) 634-3726

Program Oversight and Management

The Directorate of Research and Development (CERD-C) is responsible for the overall Corps of Engineers research program, while the Natural Resources Management Branch, Operations Construction and Readiness Division (CECW-ON), is the financial proponent of the NRRP. The Waterways Experiment Station is responsible for management and execution of the NRRP. CERD-C ensures NRRP responsiveness to field needs by conducting annual program review meetings where a Corps-wide audience reviews, evaluates, and recommends research priorities.

Program Monitors

To monitor the direction of the NRRP, HQUSACE has appointed two program monitors—one from CECW-ON, the other from CECW-PD (Formulation/Evaluation Branch, Planning Division). NRRP program monitors perform a very important role in providing long-range program direction, prioritizing work units, establishing funding levels, and previewing user products.

Field Review Group (FRG)

The FRG consists of Division personnel who cover a diverse background in planning and managing natural resources and recreation operations. Program Monitors recommend membership in the FRG to CERD-C, which forwards the recommendation to the Director of Civil Works. The FRG provides constructive guidance to Program Monitors on NRRP activities. The FRG also provides NRRP Management candid advice on specific program or work unit activities. The FRG meets twice a year to review NRRP progress, and its members provide much-needed logistical support to the NRRP concerning activities occurring in their respective division.

Program Contacts

Program Contacts are District personnel from Operations or Planning elements. They provide input to their respective FRG member on proposed and ongoing NRRP activities. They also participate in NRRP review meetings and provide logistical support on NRRP activities occurring in their respective district.

Proponents

The NRRP Field Review Group has established work unit proponents for each work unit (Table 1). Work unit proponents are responsible for understanding the problem, objective, methodology, and benefits of their respective work unit. As a result, proponents provide comment on activities concerning their respective work unit to all parties involved with the NRRP (Principal Investigators, Field Review Group members, District Contacts, NRRP users, Program Monitors, CERD, and the NRRP Manager). Proponents also play a strong role in promoting and facilitating the technology transfer opportunities and activities of their respective work unit.

ERRAP and NRRP Management

The NRRP is a part of the Environmental Resources Research and Assistance Programs (ERRAP), managed at the Environmental Laboratory, WES. ERRAP is responsible for the overall management of the NRRP. The main objective of NRRP management is to ensure program continuity, success, efficiency, and effectiveness by planning and managing work units, approving initial draft products, and managing product deadlines and expenditures. NRRP management is also responsible for coordinating Program Review and Field Review Group meetings and ensuring that the field input from those meetings is reflected in the research planning process.

Principal Investigators (PIs)

PIs, along with NRRP management, play a significant role in the planning phase of a work unit. They are ultimately responsible for conducting the NRRP research. In addition, PIs develop user products which are the end result of each NRRP work unit's efforts. Working under tight time constraints, PIs must plan and implement their study within the established delivery deadlines for work unit products. In addition, to ensure effective product development, PIs seek informal contact and constructive evaluation from Corps personnel concerning their work unit.

Natural Resources Technical Support Program (NRTS)

The Natural Resources Technical Support Program (NRTS) provides rapid and effective technology transfer to field elements associated with operating and maintaining natural resources and recreation activities. NRTS accomplishes this task by providing direct technical assistance to the field and by maintaining and transferring state-of-the-art technology for field use. NRTS is also the technology transfer vehicle for the delivery of NRRP products. Figure 1 shows the NRTS "How to request assistance" sheet.

Natural Resources Technical Support (NRTS) Program

The NRTS Program was initiated in FY 87 to provide rapid technical assistance for field problems associated with recreation and natural resource management in the Corps of Engineers (CE). The program is an Operations and Maintenance (O&M) funded program. Assistance is limited to CE activities associated with operating O&M projects, problems existing during the planning or engineering phases of renovations, or alterations to operating O&M projects.

To request assistance, a letter to the Manager of the Environmental Resources Research and Assistance Programs (ERRAP) at the following address is required:

Mr. J. L. Decell (CEWES-EP-L)
USAE Waterways Experiment Station
3909 Halls Ferry Road
Vicksburg, MS 39180-6199

In the request you should name the project, state the nature of the problem, and the type of assistance required. If you have been in contact with a technical person at WES who has knowledge of your problem, you may request that individual by name. The request should identify a point of contact in your organization and a telephone number. Upon receipt of your letter, the request will be directed to the proper technical staff member at WES for response.

Assistance under NRTS is provided at no cost to the user, and is limited to 7 man-days, including travel. The results of the assistance provided will be formally transmitted to your organization by the Manager, ERRAP. In cases where assistance is needed very rapidly, telephone requests are honored by calling Ms. Carolyn Schneider, Assistant Manager, ERRAP, (601) 634-3657, FTS 542-3657, but must be followed up by a letter. When the results are needed rapidly, advance copies are forwarded by FAX and followed up with a formal response.

In addition to Direct Assistance to the field, NRTS activities also include Technology Transfer, such as workshops, and the publication and distribution of *RecNotes*, an information exchange bulletin. Technology Maintenance is also a NRTS function; it ensures the Direct Assistance provided is current state-of-the-art.

Figure 1. NRRP "Request for Assistance" form

Natural Resources Research Program Bibliography

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