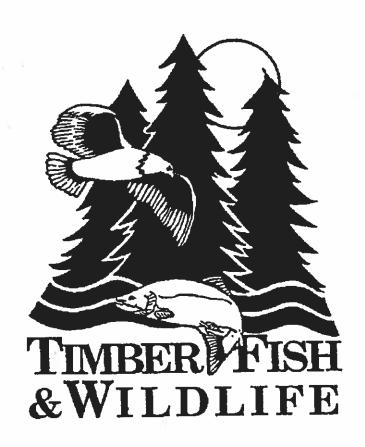
# Cooperative Monitoring, Evaluation & Research (CMER)

# **USE DOCUMENT**



OCTOBER 1994



Cooperative Monitoring, Evaluation & Research (CMER)

# **Research Documents Use Report**

#### Introduction:

This document was initially prepared at the initiative of the Northwest Indian Fisheries Commission, to provide the TFW Policy Committee with current information on the work accomplished by CMER and the uses which have been made of the research findings. The WA Department of Natural Resources, Forest Practices Division has since assumed responsibility for preparation of this report. As of August 1993, 65 documents have resulted from accomplishments related to the CMER work plan. The list of reports, and their categorization relative to how the results have been or will be used is intended to provide TFW participants and others with an understanding of how the outputs of the CMER program are being utilized in the management of Washington's forest resources.

The CMER documents produced to date have been assigned to one of six basic use categories (listed below). The results of this characterization by the CMER committee are included in this report. The report is intended to serve as a companion document to the Research and Status Reports with Abstracts (NWIFC 1988-92) which provides additional detail about the individual projects. WA DNR has assumed responsibility for updating that document as well. The Document Use Report should allow the user to locate documents of specific interest, obtain the abstract from the Research and Status report, and if additional detail is needed, obtain the complete report from DNR. Documents are keyed to the CMER program workplan element which the research originally addressed. Each workplan element is the responsibility of one of six steering committees, which are responsible for carrying out the multiple programs in the work plan; they are identified here as sources of additional information on specific CMER efforts in their technical areas.

As a result of a budget reduction of greater than 60 percent for the 1993-95 biennium, the CMER effort has been significantly reduced. For those efforts that are continuing, and as a result of completion of some projects funded in the last biennium, a number of additional reports are expected. Thus, this document will be revised annually to include recently completed CMER work. It is CMER's hope that the program's accomplishments reflect the substantial efforts that have been made in support of improvement in the management of forest resources on state and private lands in Washington state.

#### **BASIC DOCUMENT USE CATEGORIES:**

#### A) LITERATURE REVIEWS

\* A fundamental Product needed in many of the Program Workplan elements to integrate existing data and conclusions for addressing the Specific Questions related to the Program Issue.

#### B) PROPOSALS AND STUDY PLANS

\* Two fundamental Products needed for the initiating and monitoring progress of the Program Action Steps.

### C) INTERIM REPORTS

\* A fundamental Product mostly related to Action Steps accomplishment requiring work to be performed under contract. Most are tied to contract stipulations and provide the necessary documentation for the biennium report.

#### D) PROGRAM DEVELOPMENT

\* Evaluation reports, questionaires, Program Workplans, workshop reports and field procedures manuals.

#### E) FINAL PRODUCTS (includes pilot studies)

#### 1. No Action

\* Product not resulting in recommendation for implementation.

#### 2. Recommendations

\* Product containing recommendations for implementation.

#### 3. In Implementation Phase

\* Product contains recommendations which have been, or are in the process of implementation.

#### F) NOT A CMER PRODUCT

\* Products that may have resulted from CMER Program Action Steps and resulting Products, but that were not part of the planned product in those Steps.



## Cooperative Monitoring, Evaluation & Research (CMER)

## **Use Document**

DOCUMENT NUMBER	REPORT	STEERING COMMITTEE <sup>1</sup>	USE
TFW-000-89-007	An Analysis of Program Integration and Development - Jim Currie, September 1989. (1)*	CMER	D
TFW-000-91-001	TFW - Cooperative Monitoring, Evaluation and Research Program Workplan, May 1991. (26)	CMER	D
TFW-000-93-002	TFW - Cooperative Monitoring, Evaluation and Research Workplan Status Report, September 1993. (68)	CMER	D
TFW-000-94-001	1993 Riparian Management Zone Survey; TFW Field Implementation Committee, June 20, 1994. (74)	FIC	F
TFW-000-94-002	CMER Research and Status Reports with Abstracts 1988-1994, Northwest Indian Fisheries Commission & Washington Department of Natural Resources, October 1994. (47)	CMER	
TFW-003-88-001	Characterization of Riparian Management Zones and Upland Management Areas with Respect to Wildlife Habitat - 1988 Field Report. (5)	WSC	С
TFW-003-90-003	Characterization of Riparian Management Zones and Upland Management Areas with Respect to Wildlife Habitat - 1989 Field Report. (5A)	WSC	С
TFW-003-90-005	Characterization of Riparian Management Zones and Upland Management Areas with Respect to Wildlife Habitat - Field Procedures Handbook, May 1990. (4)	WSC	D
TFW-009-89-005	The Effect of Elevated Holding Temperatures on Adult Spring Chinook Salmon Reproductive Success - Interim Final Report - Berman, Quinn, June 1989. (3)	FSC	E-1
TFW-012-89-002	Sediment Dynamics in Type 4 and 5 Waters, A Review and Synthesis, Ann MacDonald and Kerry W. Ritland, June 1989. (11)	SHAMW	A
TFW-16B-90-011	Evaluation of the TFW Stream Classification System: Stratification of Physical Habitat Area and Distribution, Beechie and Sibley, Final Report, July 1990. (8A)	AMSC	D
TFW-16E-90-004	TFW Stream Ambient Monitoring Field Manual, May 1990. (7)	AMSC	D
TFW-017-89-004	Wildlife Use of Managed Forests: Literature Review and Synthesis, NCASI, June 1989. (6)	WSC	A
TFW-18A-89-003	Effects of Timber Harvest on Rain-on-Snow Runoff in the Transient Snow Zone of the WA Cascades-Intrm Fnl Report (Harr, 1989). Replaced by TFW-SH1-92-001.	SHAMW	С

TFW-AM-89-001	Valley Segment Type Classification for Forest Lands of Washington, Cupp, June 1989. (30)	AMSC	D
TFW-AM3-90-010	Quantitative Modeling of the Relationships among Basin, Channel and Habitat Characteristics for Classification and Impact Assessment, with Appendices, Orsborn, July 1990. (9A Report & 9B Appendices)	AMSC	D
TFW-AM9-91-001	TFW Ambient Monitoring Projects Biennial Progress Report, (Naiman, Conquest, Ralph, 1989-91 Biennium) Not Avaliable.	AMSC	С
TFW-AM9-91-002	Status and Trends of Instream Habitat in Forested Lands of Washington: TFW Ambient Monitoring Project, Biennial Progress Report, Robert J. Naiman, Ph.D., Loveday L. Conquest, Ph.D., Stephen C. Ralph, 1989-91 Biennium. (43)	AMSC	С
TFW-AM9-92-001	Large Woody Debris and Percent Pools in Streams Draining Managed and Unmanaged Watershed of the Olympic and Western Cascade Mountains of Washington, Initial Resluts of the Analysis of 1991 Ambient Monitoring Field Date (Conquest & Naiman, 1992). Not for distribution.	AMSC	С
TFW-AM9-92-002	TFW Ambient Monitoring Program Manual - Modules: Stream Segment Identification, Reference Point Survey, Habitat Unit Survey, Large Woody Debris Survey, 1992. Edited by Dave Schuett-Hames, Lyman Bullchild, Scott Hall, & Allen Pleus,	AMSC	D
TFW-AM9-93-001	TFW Ambient Monitoring Program Manual - Modules: Stream Segment Identification, Reference Point Survey, Habitat Unit Survey, Large Woody Debris Survey, Salmonid Spawning Gravel Composition, Stream Temperature, July 1993. Edited by Dave Schuett-Hames, Allen Pleus, Northwest Indian Fisheries Commission. (57)	AMSC	D
TFW-AM9-94-001	TFW Ambient Monitoring Program Manual - Modules: Stream Segment Identification, Reference Point Survey, Habitat Unit Survey, Large Woody Debris Survey, Salmonid Spawning Gravel Composition, Stream Temperature, Quality Assurance August 1994, Edited by Dave Schuett-Hames, Allen Pleus, Northwest Indian Fisheries Commission. (76)	AMSC	D
TFW-AM10-91-001	Watershed Characteristics and Conditions Inventory, Pysht River and Snow Creek Watersheds, Jones & Stokes Associates, May 1991. (34)	AMSC	E-1
TFW-AM10-91-002	Watershed Characteristics and Conditions Inventory, Taneum Creek and Tacoma Creek Watersheds, Jones & Stokes Associates, June 28, 1991. (35)	AMSC	E-1
TFW-AM10-91-003	Watershed Characteristics and Conditions Inventory, Upper Mashel River Watershed, Charley Creek Watershed, Jones & Stokes Associates, March 1991. (36)	AMSC	E-1

TEW AN14 04 001	A Contract Traction of West and A decision of the Contract Contrac		
TFW-AM14-94-001	A Strategy to Implement Watershed Analysis Monitoring: Assessment of Parameters and Methods, Monitoring Module Outline, Recommendations for Program Development, Dave Schuett-Hames and George Pess, Northwest Indian Fisheries Commission, May 1994. (72)	AMSC	E-1
TFW-AM14-94-002	User Instructions: Sediment Sampling Application, Rbase Ver 1.2, Anita Sparks and Dave Schuett-Hames, June 1994. (73)	AMSC	
TFW-F3-91-001	Project 19, "Big Fish" Workplan; Fisheries Steering Committee (Quinn & Peterson, 1991) Not available.	FSC	D
TFW-F3-92-001	Assessment of Cumulative Effects on Salmonid Habitat: Some Suggested Parameters and Target Conditions, N. Phil Peterson, Andrew Hendry, Dr. Thomas P. Quinn, March 2, 1992. (46)	WFS	E-3
TFW-F3-94-001	The Effect of Forest Practices on Fish Populations, Final Report, Dr. Thomas P. Quinn, N. Phil Peterson, May 1994. (71)	FSC	83
TFW-F4-91-001	Patterns of Flow, Temperature and Migration of Adult Yakima River Spring Chinook Salmon, Thomas P. Quinn, June 1991. (49)	FSC	E-1
TFW-F4-94-001	The Effect of Forest Practices on Fish Populations, Final Report, Thomas P. Quinn, N. Phil Peterson, May 1994. (71)	FSC	
TFW-IM-91-001	Information Management Coordination Project: Report to TFW Administrative Committee, Dan Cantrell, Peter T. Haug, June 30, 1991. (24)	IMC	F
TFW-SH1-92-001	Effects of Forest Cover On Volume of Water Delivery to Soil During Rain-On-Snow, Final Report, Bengt A. Coffin and R. Dennis Harr, July 30, 1992. (54)	SHAMW	E-1
TFW-SH5-91-001	Literature Search of Effects of Timber Harvest To Deep-Seated Landslides, Thomas E. Koler, June 1991. (32)	SHAMW	A
TFW-SH6-91-001	TFW Road Questionnaire: Analysis and Compilation of Responses, Cogan Sharpe Cogan, February, 1991. (13)	SHAMW	D
TFW-SH7-91-001	Sediment Transport Processes in Steep Mountain Streams in Forested Watersheds on the Olympic Peninsula, Washington: Interim Final Report, Matthew O'Connor, R. Dennis Harr, August 6, 1991. (48)	SHAMW	С
TFW-SH8-91-001	Watershed and Stream Channel Cumulative Effects Analysis Using Aerial Photography and Ground Survey Data - Interim Report, Dave Somers, Jeanette Smith, Robert Wissmar, 1991. (25)	CESC	С
TFW-SH9-91-001	Analysis of Initiation Mechanisms of Dam-Break Floods in Managed Forests, Carol Coho, Stephen J. Burges, July 1991. (33)	SHAMW	С
TFW-SH9-93-001	Dam-Break Floods in Low-Order Mountain Channels, Carol Coho and Stephen J. Burges, June, 1994, (66)	SHAMW	
TFW-SH10-91-001	Geomorphological Watershed Analysis: A Conceptual Framework and Review of Techniques, Lee Benda and Lynne Rodgers Miller, June 28, 1991. (21)	SHAMW	D
TFW-SH10-91-002	Proposal for Research in Geomorphological Watershed Analysis, Thomas Dunne and David Montgomery, July 15, 1991. (39)	SHAMW	В

TFW-SH10-92-001	Geomorphological Watershed Analysis Project, Annual Report for the Period from 10/91 to 5/92 (Montgomery, 1992)	SHAMW	'
TFW-SH10-93-001	Geomorphological Watershed Analysis Project, Final Report For The Period From 10/1/91 to 6/30/93, David R. Montgomery, Thomas Dunne, William E. Dietrich. (61) (Replaced by TFW-SH10-93-001)	SHAMW	(
TFW-SH10-93-002	Channel Classification, Prediction of Channel Response, and Assessment of Channel Condition, David R. Montgomery and John M. Buffington, June 24, 1993. (62)	SHAMW	J
TFW-SH11-91-001	A Process-Based Stream Classification System for Small Streams in Washington, April 1992, Jeffrey B. Bradley and Peter J. Whiting. (16)	SHAMW	
TFW-SH13-91-001	Design of a Slope Hazard Assessment System for Washington's Forested Land, Phase 1, Draft Report, June 1991, Golder Associates. (15)	SHAMW	
TFW-SH14-91-007	A Road Damage Inventory for the Upper Deschutes River Basin, Steven Toth, January 1991. (12)	SHAMW	F
TFW-SH15-90-001	Slope Stability in the Transient Snow Zone, T.H. Wu and Carolyn J. Merry, March 1990. (17)	SHAMW	
TFW-SH15-93-001	Landslide Hazard Mapping, Part 1: Estimating Piezometric Levels; Tien H. Wu and Mohamed Abdel-Latif, January 1993. (55)	SHAMW	E
TFW-SH17-91-001	Effects of Landslide-Dam-Break Floods on Channel Morphology, Adelaide C. Johnson, June 1991. (18)	SHAMW	F
TFW-WL1-91-001	Characterization of Riparian Management Zones and Upland Management Areas with Respect to Wildlife Habitat - 1988-90 Cumulative Report, Washington Department of Wildlife. (44)	WSC	E
TFW-WL1-91-003	Characterization of Riparian Management Zones and Upland Management Areas with Respect to Wildlife Habitat - Data Documentation, Washington Department of Wildlife. (45) (companion to TFW-WL1-91-001)	WSC	F
TFW-WL1-93-001	Wildlife Use of Riparian Habitats: A Literature Review, compiled by Margaret A. O'Connell, James G. Hallett, Stephen D. West; March 1993. (59)	WSC	
TFW-WL3-94-001	Effectiveness of Riparian Management Zones in Providing Habitat for Wildlife: Pre-Harvest Interim Report, Stephen D. West and Kathryn A. Kelsey, June 30, 1994. (78)	wsc	
TFW-WL4-91-001	Wildlife Use of Managed Forests - A Landscape Perspective (Study Design), Stephen West and James Hallett, June 28, 1991. (23)	WSC	
TFW-WQ1-91-001	Proposed Surface Water Standards for Selected Pesticides Use in Oregon and Washington, Logan A. Norris and Frank Dost, 1991.  (19) (Replaced by TFW-WQ1-92-001)	WQSC	

TFW-WQ1-92-001	Proposed Surface Water Criteria for Selected Pesticides Used for Forest Management and Management of Forest Tree Seedling Nurseries and Christmas Tree Plantations in Oregon and Washington, Logan A. Norris and Frank Dost, August 20, 1992.  (60) (Replaces TFW-WQ1-91-001) Published with disclaimer.	wosc	E-3
TFW-WQ1-93-001	Effectiveness of Best Management Practices For Aerial Application of Forest Pesticides, Ed Rashin, Craig Graber, October 1993. (64)	WQSC	C/D
TFW-WQ3-90-006	Evaluation of Prediction Models and Characterization of Stream Temperature Regimes in Washington, December 1990. (2) Data Appendix (2A)	WQSC	E-3
TFW-WQ3-90-007	The Physics of Forest Stream Heating: A Simple Model, by Terry N. Adams and Kathleen Sullivan, 1989. (75)		F
TFW-WQ4-91-002	TFW Stream Temperature Method: User's Manual, Doughty, Caldwell, & Sullivan, June 1991. (37)	WQSC	E-3
TFW-WQ4-91-003	Management Trials Testing Plan for the TFW Stream Temperature Method, Caldwell, Sullivan, & Doughty, July 1991. (38)	WQSC	D
TFW-WQ4-93-001	TFWTEMP Computer Model: Revisions and Testing; Kent Doughty, J. Smith and J. E. Caldwell, June 1993. (65)	WQSC	E-3
TFW-WQ5-91-004	Evaluation of Downstream Temperature Effects of Type 4/5 Waters, Jean Caldwell, Kent Doughty, and Kate Sullivan, September 1991. (41)	wosc	E-3
TFW-WQ6-92-001	Effectiveness of Washington's Forest Practice Riparian Management Zone Regulations for Protection of Stream Temperature, Ed Rashin and Craig Graber, Washington Department of Ecology, July 1992. (50)	WQSC	E-3
TFW-WQ8-91-008	Methods for Testing Effectiveness of Washington Forest Practices Rules and Regulations with Regard to Sediment Production and Transport to Streams, Pentec Environmental, Inc., June 28, 1991. (20)	WQSC	A/E-3
TFW-WQ8-93-001	Effectiveness of Forest Road and Timber Harvest Best Management Practices With Respect To Sediment-Related Water Quality Impacts, Interim Report 1, Ed Rashin, Johanna Bell, Casey Clishe, June 1993. (63)	wosc	С
TFW-WQ8-94-001	Effectiveness of Forest Road and Timber Harvest Best Management Practices with Respect to Sediment-Related Water Quality Impacts - Interim Report 2, Ed Rashin, Casey Clishe, Andy Loch, May 1994. (70) (Companion to Interim Report 1, TFW-WQ8-93-001.)	wosc	
TFW-WQ11-91-001	TFW Ecoregion Bioassessment Pilot Project, Interim Report, Plotnikoff and Dietrich, Interim Report, 1991. (53)	WQSC	E2/3
TFW-WQ11-92-001	TFW Ecoregion Bioassessment Pilot Project, Plotnikoff and Dietrich, Interim Report, July 1992. (53)	WQSC	E-2
	Draft Literature Review and Synthesis: Wildlife Use of Riparian Management Zones and Upland Management Areas, BioSystems Analysis Inc., June 1989. (27)	WSC	Deleted

Wildlife Issue Paper. Wildlife Steering Committee, Fall 1989. (28)	Policy Ctte	F
Ambient Monitoring Program Workplan, March 1989 and April 1990. (29)	AMSC	D
Stream Classification Peer Review Workshop Draft Report, Summer 1990, NWIFC. (31)	AMSC	D
"Think Tank" Workshop on Evaluating Streams and Forest Practices, David C. Flaherty and Associates, September 20, 1989. TFW-16C-89-008. (40)	AMSC	, D
Prototype Watershed Analysis, Review Draft, The Pacific Watershed Institute, December 1991, TFW-CE1-92-001. (Funded by WFPA) (42)	CESC	В

#### Notes:

#### 1. Abbreviations:

AMSC	Ambient Monitoring Steering Committee
CESC	Cumulative Effects Steering Committee
CMER	Cooperative Monitoring, Evaluation & Research Committee
FSC	Fisheries Steering Committee
IMC	Imformation Management Committee
Policy Ctte	TFW Policy Committee
SHAMW	Sediment, Hydrology and Mass Wasting Steering Committee
WQSC	Water Quality Steering Committee
WSC	Wildlife Steering Committee

2. Numbers within parenthesis are cross-references to product list and order form.

#### 3. Documents overdue:

TFW-SH7-94-001 Bedload Transport and Large Organic Debris in Steep Mountain Streams in Forested Watersheds on the Olympic Penisula, Washington; by Matt O'Connor and R. Dennis Harr, September 1994. (77). (replaces 48) (This is promised to be turned in by end of October).

TFW-SH8-93-001 Application and Suitability of the RAPID Technique for Assessing Stream and Watershed Conditions Over Time, Dave Somers, Jeanette Smith, DATE? (67)

# SUMMARY:

CODE:	USE CATEGORY:	<b>COUNTS:</b>
A	LITERATURE REVIEWS	5
В	PROPOSALS AND STUDY PLANS	3
C	INTERIM REPORTS	17
D	PROGRAM DEVELOPMENT	17
E	FINAL PRODUCTS	22
	1. No Action	10
	2. Recommendations	2
	3. In Implementation Phase	10
F	NOT A CMER PRODUCT	2
	NOT RATED	1
	<u>DELETED</u>	_1
	TOTAL	68*

<sup>\*</sup> Some documents fit two categories