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| Forest Certification Work Instruction |
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Work Instruction Title: 5.1 Coordinated Natural Resource Management Research**Work Area Group:** 5 - Research

Purpose:Coordinate the conduct and management of natural resource management research for DNR

Work Instruction:

The research coordinators from each Division or Bureau must compile a list of research projects, a list of on-line links or contact persons for research projects completed during the previous fiscal year, and a summary of internal and external research expenditures during the previous year. This information will be utilized for preparation of an annual Research Summary to be published by March 1 of each year, and for preparation of the Sustainable Forestry Initiative Annual Report.

The annual Research Summary will include:

- A list of in-house, collaborative and contracted research (defined as research utilizing DNR staff time on a project, Department Funding, and/or permits issued for research related access to DNR land) that advances the concept of sustainable forestry. The summary will consider research within forested landscapes related to:
 - ecological health, productivity, processes, and dynamics;
 - human uses, values, preferences, and dynamics;
 - new markets for forest products;
 - socioeconomic trends;
 - chemical efficiency, chemical use rate, and integrated pest management;
 - characteristics and dynamics of water budgets, hydrologic routing, sediment dynamics, and water quality;
 - ecological dynamics at the riparian, land-water interface;
 - effectiveness of wildlife management at multiple scales; landscape, forest stand, etc.;
 - effectiveness of fisheries management at multiple scales; watershed, segment, lake, etc.;
 - conservation of biological diversity (at multiple scales); and
 - effectiveness of Best (land) Management Practices for preservation, rehabilitation, and enhancement of ecosystem functions and components;
 - interactions among forest, wildlife, and fisheries management programs.
- A list of research projects completed in the previous year, with identification of a contact person and a link to a web site if possible.

The SFI Annual Report requires reporting of Internal and External Research Funding. This is defined as the amount of funding the DNR provided in the previous year for forest-related research within the organization (internal) and outside the organization (external) through grants, in-kind assistance, cooperatives, etc. Internal research funding includes salaries for forest-related research staff. While it is difficult in many instances to identify to which category research funding should be allocated, use best judgment as to the primary intent of the given research project. If you find it impossible to

allocate funding to the categories listed in the SFI Annual Report, list the total funding you provided in the “other” category and note as such.

The Division Research Coordinators will meet on an annual basis to jointly review the summaries and discuss DNR research needs, opportunities, and implementation. The FMFM Forest Health, Inventory, and Monitoring Unit Manager will facilitate the review and timely update of the Research Summary by March 1st of each year and will make the summary available to all DNR staff by posting on the DNR intranet. The Division Research Coordinators will provide required funding information to the FMFM Forest Health, Inventory, and Monitoring Unit Manager by March 1 of each year who will incorporate data into the SFI Annual Report.

Scope: (All State Forest Land and Affected Divisions): State Forest Land Other: _____

DNR – FMFM DNR – Wildlife DNR – Fish DNR – Law DNR – Parks

Responsibility and Role:

| Job Title/Division | Role |
|-----------------------------------|---|
| Research Coordinator/Wildlife | Conduct annual review of division research needs and activities |
| Research Coordinator/FMFM | Conduct annual review of division research needs and activities |
| Research Coordinator/Fisheries | Conduct annual review of division research needs and activities |
| Research Coordinator/Parks | Conduct annual review of division research needs and activities |
| FMFM Forest Certification Planner | Facilitate updating of the research summary |

Note: FMFM Research Coordinator is delegated by the Forest Resources Section Leader as either the Forest Health, Inventory and Monitoring Unit Leader or the Planning & Operations Unit Leader.

Training/Skills: (Those required to accomplish work instruction)

| Item | Brief Description of Skill or Course | Exists/ New |
|--|---|--|
| Maintenance of proficiency | Familiarity with sciences supporting natural resource management (physical sciences, forestry, wildlife and fisheries sciences, human dimensions) | <input checked="" type="checkbox"/> E <input type="checkbox"/> N |
| Participation in budgeting process | Familiarity with DNR budgeting process | <input checked="" type="checkbox"/> E <input type="checkbox"/> N |
| Compilation and summary of Division research efforts and participation in annual summary of DNR research | Familiarity with all DNR research efforts: in-house, university, collaborative efforts with other agencies/entities | <input checked="" type="checkbox"/> E <input type="checkbox"/> N |

References:

- NRC Policy 2002 – Environmental Protection and Economic Development (3-11-1993)
- Wildlife Division, Research Project Proposal and Review Process.
- Michigan Statewide Wildlife Research Program, Application for Federal Assistance, W-147-R, Amendment 3, October 1 2004.
- Wildlife Division, Federal Aid to Wildlife Restoration Study Performance Reports and Final Reports
- Fisheries Division, Draft Policy and Procedure for Research Project Proposal and Review Process.
- Fisheries Division, Early Drafts Research Agenda for each major theme area (e.g., Inland Lakes Theme, Rivers and Streams theme).
- Fisheries Division, Research Section Calendar.
- Fisheries Division, Federal Aid to Sportfish Restoration Research Grants; Five-year Project Proposals; and Annual Research Study Proposals and Revisions, and Study Final and Performance Reports.

- Fisheries Division, Policy and Procedure for Publication of Technical Documents.
 - SFI-4.2.2.Indicator Assessment Form (for FMFM)
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Monitoring:

- A review of the research coordination process will occur as part of the annual management review process.
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Records:

- Annual report of DNR research activities.
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