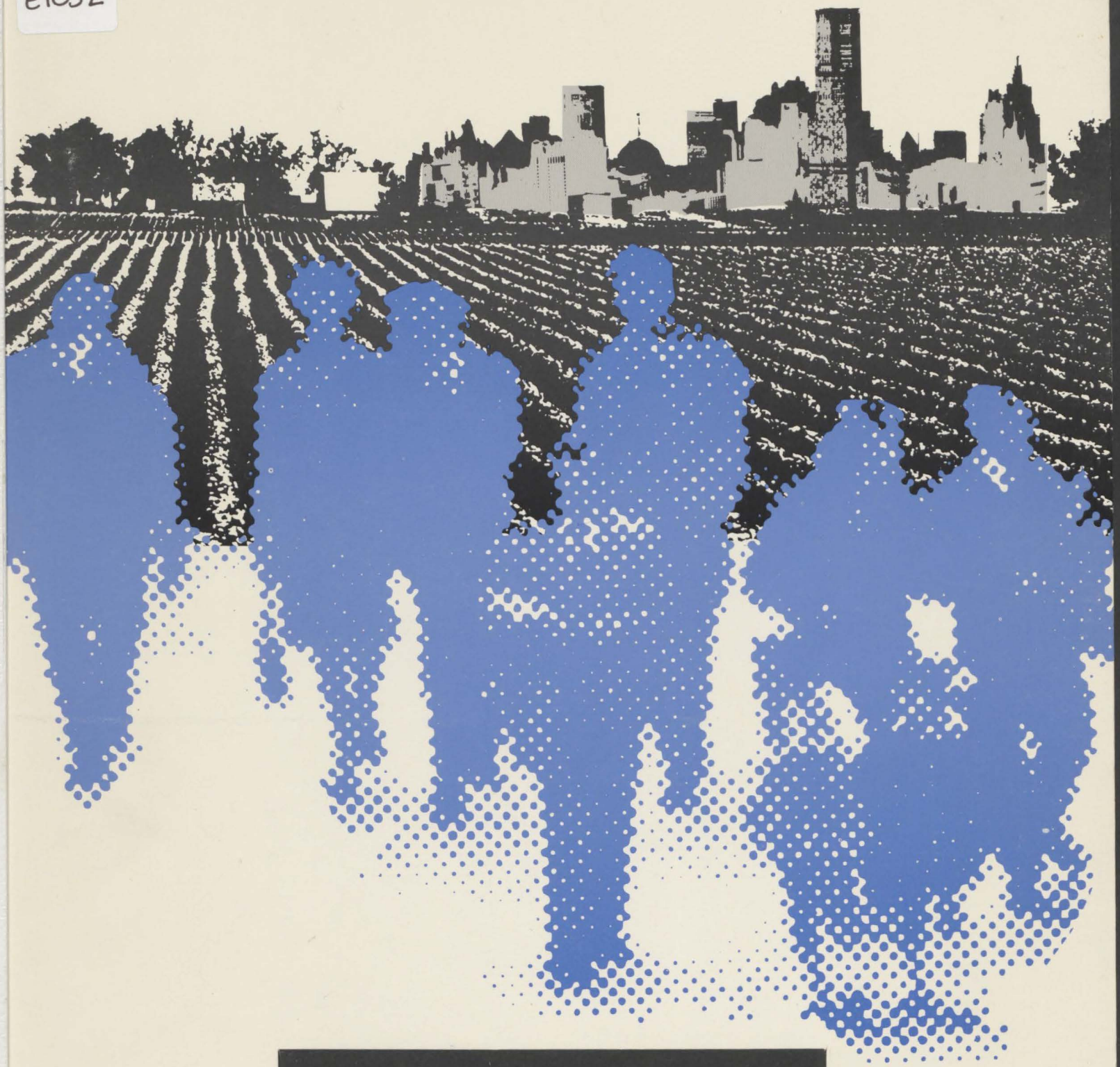

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Center for Urban and Regional Affairs

Growing Crops for Energy: A Bibliography of Bioenergy References 1970-1980

by Julie A. Winkler

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INTRODUCTION

This bibliography was assembled during the summer of 1980 by Julie A. Winkler, then a graduate student in geography. The major emphasis is on the environmental, economic, and social impacts of the production of non-traditional crops on energy farms, forests, and plantations.

The original bibliography existed on 3x5 index cards. Since that time, some references have been added and the entire bibliography has been entered into a computerized retrieval system, called INDEX, at the Minnesota Department of Energy, Planning, and Development. Documentation for the original bibliography is included in the appendix. This documentation includes notes on the resources and methodology used to compile the bibliography.

This bibliography includes 460 citations as well as a subject index. To use this index, locate the subject of interest and note the numbers following that subject title. Those numbers are the sequential numbers of the citations. Within the bibliography, this is the first line of each citation and is preceded by the word "CURA."

Cross-indexing can be accomplished by comparing number lists. If, for example, one were interested in legal issues in Minnesota, the person would compare those two number lists and see that citation number 421 is found in each list. More complex cross indexing can be done easily with this manual method or the INDEX computer system. INDEX can also search on other characteristics, such as author.

This bibliography was printed by INDEX. Some compromises were made to produce a document which looked like a standard bibliography, i.e. author, title, publisher, date. Missing from INDEX is the capability of handling lower case letters or underlining. Instead of using these clues to what a given line in the citation means, INDEX is explicit in noting author (AU), title (TI), etc. These extra notes were deemed more distracting than helpful in a standard bibliography such as this. For a vast majority of citations, there will be no confusion about what a line signifies. Books and reports will present no problem. Periodicals can be identified by noting the inclusion of volume number and pages. The various publications available from NTIS (National Technical Information Service) include an accession number which is required for inquiring after or ordering a publication. No publisher is noted for these publications, only NTIS and its address (in several forms). In those rare cases where the NTIS accession number is unknown, the local access point is given: the University of Minnesota Library collection and catalog number.

For notes on current unpublished research, investigators are directed to the "Bio-Energy Directory" produced by: The Bio-Energy Council
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APPENDIX:

DOCUMENTATION FOR THE BIBLIOGRAPHY

Emphasis of the Bibliography

This bibliography provides a collection of references for books, articles, reports, and conference proceedings dealing with the production of biomass as a renewable energy source. The major emphasis of the bibliography is on the environmental, economic, and social impacts of the production of non-traditional crops on energy farms, forests, and plantations. Non-traditional energy crops include cattails, reeds, shrubs, and tree species such as black spruce, alders, willows, poplars, and cottonwoods. Only a few references were collected on the production of traditional food and cash crops such as corn, sugar beets, and sugarcane for energy, on the use of crop and forest residues for energy production, and on the use of aquatic biomass for energy. Also, only a few references were collected on the processes and technologies involved in converting plant materials to alcohols and gases. Articles appearing in national or international journals and reports on the use of peat as an energy source were not included except when the reference dealt with the use of peatlands to grow energy crops. All articles dealing with peat in Minnesota were included in the bibliography, as peat mining is one of the major land uses conflicting with bioenergy farming in the state.

Most of the references have been published in the last ten years. Little research on biomass farming was done before 1970; indices and journals before 1970 were not searched. Also, foreign journals and indices were not searched for relevant references. This does not mean that little work on bioenergy has been done outside of the United States. Canada, Sweden, Finland, and Ireland have all been active in bioenergy research.

Organization of the Bibliography

The bibliography is organized so that a researcher can easily find all citations on a particular subject; for example, all citations on the production of cattails as an energy crop. Each citation is given a number that appears in the upper-right hand corner of the index card, and the cards are filed numerically. Accompanying the reference cards is a group of subject cards. Examples of subject card headings include: "Bioenergy: General," "Bioenergy: Environmental Issues and Impacts," "Bioenergy: United States Programs and Policies." Under each heading are the numbers of the citations that deal with that subject (see Figure 1). The researcher uses these numbers to find the complete reference in the numerical file. This system allows each citation to be cross-referenced under several subject headings. For example, the number of the citation, "Silviculture Farms: Land Availability," would appear under the subject headings: "Bioenergy: Forests," "Bioenergy: Land Use and Planning," and "Bioenergy: Energy Farms, Forests, and Plantations."

Each subject card includes the general heading, "Bioenergy," and a more specific subheading such as "Environmental Issues and Impacts." This method will permit the index to be combined with any other index such as a bibliography on peat. Citations on the environmental impacts of bioenergy farming appear under the subject card, "Bioenergy: Environmental Issues and Impacts;" while citations on environmental impacts of peat mining would appear under the subject card, "Peat: Environmental Issues and Impacts." All references dealing with peat in Minnesota are listed on subject cards with the general heading, "Peat."

FIGURE 1

a) Example of a Subject Index card

Bioenergy: Wetlands

0101
0289
B0010
C0047
C0050
C0061

b) Example of a Geographic Index card

Bioenergy: Canada

0022
0092
0097
0118
0208
0288
B0031
C0028
C0056

The bibliography also has a geographic index arranged by state, region of the United States, and foreign country. All United States publications specific to a state or region are listed on the index card labeled with the name of the state or region. A reference on using wood energy to power electric power plants in Vermont is noted on the card headed "Bioenergy: Vermont" as well as under the subject headings, "Bioenergy: Forestry" and "Bioenergy: Electric Power Generation." Only general works with sections on bioenergy in Minnesota and references from the Bio-energy Directory and computer searches are noted on the geographic index card for Minnesota. All other Minnesota citations are filed separately (see page 17). Citations indexed by foreign country include citations specific to that country and all references published in that country.

The subject and geography headings are given in Table 1.

This indexing system allows users unfamiliar with the bioenergy literature to easily find a collection of references on any specific topic. Users familiar with the literature will find this system more difficult to use. A researcher familiar with the literature may know the author of a publication and would like to find the complete reference or may want to find all works by a specific author. This is difficult to do with a bibliography filed numerically and cross-referenced by subject. Also, when updating the bibliography it is difficult to know if a publication has already been included. If a large number of users familiar with the bioenergy literature use the index or if the index is to be updated frequently, it may be worthwhile to have a duplicate set of cards arranged alphabetically by author.

TABLE 1: SUBJECT AND GEOGRAPHIC HEADINGS

Bioenergy: Alcohols and Gases
Bioenergy: Aquatic Biomass
Bioenergy: Arizona
Bioenergy: Australia
Bioenergy: Bibliographies and Directories
Bioenergy: Brazil
Bioenergy: California
Bioenergy: Canada
Bioenergy: Cattails (typha)
Bioenergy: Conference Proceedings
Bioenergy: Conversion Systems and Technologies
Bioenergy: Crop and Forest Residues
Bioenergy: Denmark
Bioenergy: Economic Consideration and Impact
Bioenergy: Electric Power Generation
Bioenergy: Energy Farms, Forests and Plantations
Bioenergy: Energy Equivalents
Bioenergy: Enviromental Issues and Impacts
Bioenergy: Finland
Bioenergy: Florida
Bioenergy: Forestry (Wood)
Bioenergy: Forestry: Alders
Bioenergy: Forestry: Poplars
Bioenergy: General
Bioenergy: Georgia
Bioenergy: Germany
Bioenergy: Grasses
Bioenergy: Great Plains
Bioenergy: Hawaii
Bioenergy: Indiana
Bioenergy: Ireland
Bioenergy: Kentucky
Bioenergy: Land Use and Planning
Bioenergy: Legal Issues
Bioenergy: Maine
Bioenergy: Maryland
Bioenergy: Michigan
Bioenergy: Minnesota
Bioenergy: New York
Bioenergy: New Zealand
Bioenergy: Northeastern United States
Bioenergy: Northwestern United States
Bioenergy: Oregon
Bioenergy: Pennsylvania
Bioenergy: Puerto Rico
Bioenergy: Reeds (Phragmites)
Bioenergy: Remote Sensing
Bioenergy: Shrubs
Bioenergy: South Carolina
Bioenergy: Southern United States
Bioenergy: Southeastern United States

TABLE 1 (continued)

Bioenergy: Southwestern United States
Bioenergy: Sugar Crops
Bioenergy: Sweden
Bioenergy: United Kingdom
Bioenergy: United States Programs and Policies
Bioenergy: Vermont
Bioenergy: Virginia
Bioenergy: Water Resources
Bioenergy: Western United States
Bioenergy: Wetlands
Energy: General
Peat: Canada
Peat: Classification and Types
Peat: Chemical Products
Peat: Conversion Processes and Technologies
Peat: Economic Considerations and Impacts
Peat: Electric Power Plants
Peat: Enviromental Issues and Impacts
Peat: Finland
Peat: General
Peat: Harvesting
Peat: Hydrology
Peat: Hydrology: Water Quality
Peat: Jamaica
Peat: Land Use and Planning
Peat: Maps
Peat: Mineralogy
Peat: Minnesota
Peat: Policies and Programs
Peat: Resources and Inventories
Peat: Sweden
Peat: Vegetation
Peat: Wildlife

The Library Search

The library search consisted of three parts: 1) a search of the University of Minnesota main card catalog at Wilson Library, 2) a search of relevant indices for bioenergy references, and 3) an issue by issue search through relevant journals.

The following keywords were used in the card catalog search: alders, bioenergy, biofuel, biomass energy, bogs, cattails, cyperaceae, fens, phragmites, reeds, renewable energy, sedges, typha, wetlands, and willows. Whenever a relevant reference was found, the complete citation was copied onto a 3 x 5 index card. The call number and the campus library in which the book is located are also included on the index card. These books were then found, and where applicable, the chapter headings were added to the index cards. Also, the bibliographies of these books were searched for bioenergy citations. When a reference on bioenergy was found in a book, the complete citation was copied onto a separate index card. The author and title of the book and the number of the page on which the citation was found are also noted on the index card. This information makes it easier to obtain the publication through Inter-Library Loan. Figure 2 shows an example of a reference available in the University libraries and of a reference obtained from the bibliography of a book.

The indices searched for bioenergy references, the libraries in which the indices are located, and the keywords used in the searches are given in Table 2. Again, whenever a bioenergy reference was found, the citation was copied onto a 3 x 5 card. In many cases these citations are incomplete as several of the indices do not give complete bibliographic information.

FIGURE 2

a) Reference Available in University of Minnesota Library

0045

Boyle, Godfrey. Living on the Sun: Harnessing Renewable Energy for an Equitable Society. London: Marion Boyars, 1975. 127p.

Architecture Library 621 B697

Chapter Headings: 1) Energy and Exploitation 2) Domestic Energy Consumption 3) Plant Power 4) Direct Solar Power 5) Wind Power 6) Water Power 7) Integration 8) Renewable Energy in a Decentralized Society

b) Reference Obtained from the Bibliography of a Book

0097

Middleton, P., Argue, R., Burrell T., and Hathaway, G. "Canada's Renewable Energy Resources: An Assessment of Potential." Toronto: Middleton Assoc., 1976.

Source: Phillips et al., editors. Chemistry for Energy. Washington DC: American Chemical Society, 1979, p.162.

TABLE 2: INDICES SEARCHED FOR BIOENERGY REFERENCES

Index	Location	Years Searched	Keywords
*Bibliography of Agriculture	St. Paul	1970 - 1979	fuel, biomass, cattails
*Biological and Agricultural Index	Bio-Medical, St. Paul	1970 - July 1980	fuel, cattails
Energy Index	Engineering	1973 - 1974	biomass, forests, organic fuels, renewable resources, trees, wetlands
*Energy Research Abstracts	Engineering, Government Documents	1977 - 1979 1980 (no. 1-12)	biomass
Environment Index	Wilson Periodicals	1971 - 1979	biomass, energy, renewable resources, wood
*The Renewable Energy - Environment Collection (TREE)	Engineering	(not applicable)	biomass

*Important Source

For instance, the Environment Index gives the title of the article and the journal in which it is published but does not give the author. The name, volume or year, and page number or item number of the index where the reference was found are also included on the reference card. If an abstract or a short description was given in the index, it was also copied onto the index card (see Figure 3).

Several journals were searched issue by issue for relevant articles (Table 3). Articles on bioenergy found in the journals and references found in the bibliographies of these articles are included in the index. The index card for a reference cited in the bibliography of a journal article includes the author of the article where the reference was found, the name of the journal, the volume number and date, and the page number (Figure 4). The book review sections of the journals were also searched for relevant books. The index card for a book reviewed in a journal includes the name of the journal, volume and date, and the page number of the book review.

Bio-Energy Directory

An important source of information on ongoing bioenergy projects is the Bio-Energy Directory published annually by the Bio-Energy Council, 1625 Eye Street N.W., Washington, D.C. 20006. The directory includes the location, objective, sponsoring organization, chief investigator(s), project status, and funding results of each bioenergy project.

The 1979 Bio-Energy Directory was searched for projects dealing with the production of energy crops. The relevant project summaries were xeroxed and placed in a notebook. Each project summary was given a number prefixed by the letter "B," and this number was included on the appro-

FIGURE 3

Citation Found in an Index

0071

Splinter, W.E. Trees and Energy. Great Plains Agricultural Research Committee. Great Plains Agricultural Council Publication. 76, 1975.

Source: Bibliography of Agriculture, 1976, no. 025354.

TABLE 3: JOURNALS SEARCHED FOR BIOENERGY REFERENCES

Journal	Location	Years Searched
Alternative Sources of Energy	Architecture	1972 - 1979
*Annual Review of Energy	Engineering	1976 - 1979
Applied Energy	Engineering	1975 - 1979
BioJoule: The Biomass Energy Institute Newsletter	Engineering (TREE Collection)	1972 - April, 1980
*CHEMTECH (Chemical Technology)	Chemistry	1971 - 1979, 1980 (no. 2-7)
*Energy	Mines, Metallurgy, and Chemical Engineering	1976 - 1979, 1980 (no. 1-4)
Energy Conversion	Engineering	1973 - 1979
Energy Information	Mines	1976 (no.3,4); 1977, 1978, 1979 (no.1)
Energy Insider	Engineering (TREE Collection)	1979, 1980 (no.1-11)
Energy Policy	Mines	1973 - 1975, 1977, 1978 (no.3,4); 1980 (no.1)
*Energy Review	Engineering	1974 - 1979, 1980 (no.1-4)
Energy Sources	Mines	1973 - 1978
Energy Today	Engineering (TREE Collection)	1979 (Vol.6, no.22-Vol.7, no.8); 1980 (Vol.7, no.9-20)
Energy World	Mines	1973 - 1978
Environment	Wilson Periodicals	1970 - 1979, 1980 (no.1-5)
Environmental Science and Technology	Engineering	1978 - 1979
Institute of Fuel	Mines	1971 - 1978, 1979 (no.1-3), 1980 (no.1,2)

TABLE 3 (continued)

Journal	Location	Years Searched
International Journal of Environmental Studies	Technology, St. Paul	1970 - 1978
Journal of Energy	Engineering	1977 - 1979
*Journal of Forestry	Forestry	1970 - 1979
Journal of Soil and Water Conservation	St. Paul	1970 - 1979, 1980 (no.1-3)
Land Economics	Wilson Periodical	1970 - 1979
Minnesota Energy Review	Engineering (TREE Collection)	1978 - 1979
Solar Energy	Engineering, St. Paul	1970 - 1978; 1979 (no.1-6)

*Important Source

FIGURE 4

a) Reference Cited in the Bibliography of a Journal Article

0016

Cliff, E. Timber, the Renewable Resource.
National Commission on Materials Policy.
U.S. Government Printing Office, 1973.

Source: Tillman, CHEMTECH, Vol.7, 1977,
p. 615.

priate subject and geographic index cards. An example is the number B0009 which appears under the subject heading, "Bioenergy: Economic Considerations and Impacts." Using this number the description of the project, "Identification and Development of Highest Value Uses for the Total Tree Biomass," can be found in the Bio-Energy Directory notebook.

Computer Searches

The COMPENDEX, NTIS, and SSIE databases were searched for bioenergy references. These databases were suggested by Carol Baldwin, Search Analyst and Energy Bibliographer for the University of Minnesota, Engineering Library. The COMPENDEX database is the machine-readable version of the Engineering Index. The NTIS (National Technical Information Service) data base consists of government-sponsored research, development, and engineering plus analyses prepared by federal agencies, their contractors or grantees. The COMPENDEX and NTIS databases were searched for the period, January 1970 to July 1980. SSIE (Smithsonian Science Information Exchange) Current Research is a database containing reports of both government and privately funded research projects, either currently in progress or initiated and completed during the most recent two years. The keywords used in the computer search are given in Table 4.

The computer printout gives the author or chief investigator, title or project name, source, date, and an abstract for each reference. The computer printouts are filed by the type of database in a separate notebook labeled "Bioenergy: Computer Searches." The printout for each reference was given a number prefixed by the letter "C," and the citation was cross-referenced under the appropriate subject and geographic headings.

TABLE 4: KEYWORDS LISTED IN COMPUTER SEARCHES

Keywords Used Alone:

- Bioenergy
- Biomass
- Biofuels

Keywords Used With the Terms "Energy" and "Bioenergy"

- Wetlands
- Cattails
- Sedges
- Alders
- Willows
- Typha
- Peat
- Grasses
- Land Use

Minnesota Citations

This bibliography was prepared for people conducting research on bioenergy in Minnesota. So that these users can easily find articles and reports on bioenergy and peat energy in Minnesota, all Minnesota publications are filed separately. Each Minnesota citation was given a number prefixed by the letter "M," and this number was listed on the appropriate subject cards.

References on energy in Minnesota were found by contacting agencies and researchers in the state conducting energy research and by searching the bibliographies of articles and reports dealing with Minnesota. Whenever possible, a copy of the report was obtained from the issuing agency for the CURA Library. All reports available in the CURA Library are so indicated on their index cards. When a citation was found in the bibliography of a report, the author, title, date, and issuing agency of the report where the citation was found were included on the index card.

CURA is now on the Department of Natural Resources, Minerals Division, mailing list. Whenever a new report is received, a reference card with the complete bibliographic information should be made out, a number prefixed by the letter "M" should be assigned to the citation, and the number should be listed on the appropriate subject cards. It should also be noted on the reference card that the report is available in the CURA Library.

Updating and Revising the Bibliography

References can be added to the bibliography by simply making out an index card for the citation, assigning a number to the citation, and adding the number under the appropriate geographic and subject headings.

There are several ways that the bibliography can be updated. Each year's edition of the Bio-Energy Directory can be searched for relevant energy projects and the project descriptions added to the Bio-Energy Directory notebook. Materials added to the computer databases can be added to the bibliography. Contact Carol Baldwin (373-2957) for information on obtaining monthly printouts of materials added to the databases. Also, recent indices and journals can be searched for relevant references. The indices and journals that were the best sources for bioenergy citations are indicated in Tables 2 and 3. Agencies and researchers in Minnesota conducting energy research can be contacted to obtain information on new reports and projects.

Additional subject headings can also be added. It may be desirable to subdivide some of the larger subject groupings. For example, the subject heading, "Bioenergy: Forests," could be broken into "Bioenergy: Forests: Spruce," "Bioenergy: Forests: Willows," etc.

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