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WILDLAND RESOURCES CENTER
Division of Agriculture and Natural Resources
University of California
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December, 1985
Report No. 9
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Program Coordinator’s Report

During the past year, most work of the Center has focused on identification of needs, priorities, and costs for programs of research and extension to solve problems affecting wildlands. This effort resulted in three publications, organization of two workshops, and considerable staff work.

In January 1985 the Center was asked to produce a draft plan for acceleration of research and extension by the University. Leaders in the University recognized that although considerable effort was being directed at solving wildland problems, it was inadequate. The challenge for the Center was to undertake and complete several tasks and, while doing so, to involve those who would influence future funding for research and extension.

The tasks performed during the first half of 1985 resulted in:
- estimates of current expenditures for research and extension
- a chronology of past expenditures for research
- a start on determining the socioeconomic importance of wildlands in California
- completion of a list of performers of research and extension on wildland problems within the University of California and beginning of a list of such performers outside the University
- collection of examples of legislation establishing wildland research programs in other states
- presentations before numerous advisory bodies to inform them about the work underway and to gain their counsel
- identification of needs, priorities, and costs for research and extension to solve problems on forestlands and rangelands
- increasing awareness of decision-makers of the magnitude of problems requiring additional research and extension, and of the socioeconomic importance of California’s wildlands

Hardwood Rangelands

Responding to requests by statewide organizations interested in range research, the Director of the Agricultural Experiment Station appointed and funded the Center’s first technical panel, on research needs for hardwood range. The technical panel was comprised of James W. Bartolome and Reginald H. Barrett, from the Berkeley campus, and John W. Menke, from the Davis campus. This team was charged with determining: 1) what technologies are available, 2) what research is underway, 3) what financial resources are currently available for additional work, 4) what researchable problems are of highest priority for new or redirected efforts, and 5) what the annual costs for research would be during a ten-year period to solve the problems having highest priority for research.

These questions were effectively answered as a result of work by the technical panel. Two publications containing most of the findings are cited in the final section of this report. The panel’s work also contributed to other publications that will appear subsequently.

Most important, the timely work by the panel established the needs, priorities, and costs for research to solve problems of hardwood rangelands. This work had two results: 1) inclusion within the University’s emerging budget for 1986-1987 of an increase of $650,000 to fund research and extension directed at hardwood rangelands, and 2) a related budgetary request by the California Department of Forestry for an increase of $1,400,000.

Shrublands

The Center’s workshop to identify needed research and extension for shrublands was described in our last annual report. “California’s Shrublands: A Vast Area in Transition and Need” was published in February, 1985, as the Center’s fifth report. It describes the resources on California’s 12 million acres of shrublands and lists the associated technical problems requiring accelerated research and extension.

Our report goes beyond identification of problems to assign priorities and estimate costs for a problem-solving program. To solve the 37 problems considered critical or urgent was estimated to cost $88.6 million over a ten-year period. A program limited to just ten critical problems was estimated to cost $27.8 million. Because a program of this magnitude would require substantial new funds, a budgetary increase for shrublands was proposed to the University. Unfortunately, financial stringencies precluded any new funds for this purpose in being included in the University’s budget for 1986-1987. Nevertheless, the needs for additional research and extension on shrubland problems has been established and communicated to decision-makers and to people and organizations concerned with management and protection of brush-covered lands in California.

Forests and Rangelands

During the spring of 1985, strong support emerged for reports on needed research and extension for both forestlands and rangelands. The case for additional research and extension on problems of shrublands had been made effectively, and the more valuable forests and rangelands deserved similar attention. Therefore, the Center organized two workshops at Berkeley, the first dealing with forestlands, May 22 and 23, and the second dealing with rangelands, May 29 and 30, 1985.

The workshop on forestlands was attended by scientists, specialists, landowners, resource managers, and representatives of special-interest groups. Participants identified and assigned priorities to 290 problems. Teams of specialists estimated costs for a program of research and extension to solve only the problems having
highest priority. The emerging costs for a program would seem at present to be beyond the combined funding capabilities of the University plus state and federal agencies and industry.

The workshop on rangelands followed a parallel course. Problems numbered 124, fewer than for forestlands, but more than for shrublands. Here again, costs for suggested programs of research and extension exceeded current funding potentials.

Directory

Work continued during the year on the Center's "Directory to Expertise and Facilities Related to Wildlands." A second mailing to those who had not responded to earlier questionnaires netted another 150 responses. The Center's Policy Board decided that data already in our files about nonrespondents should be published unless they specifically asked to be excluded. The computer file to the individuals on eight campuses and at 35 county extension offices neared completion by the end of the year. Completion of organizational listings, keywords, and final corrections of the file are all that remained to be done before publication.

Fact Sheets

To facilitate communication and liaison between members of the University's academic staff and employees of state and federal agencies, the Center is compiling fact sheets describing agencies whose missions relate to wildlands in California. The fact sheet(s) for an agency depict its organizational structure, identify key positions and functions within the organization, and provide addresses and telephone numbers. Work on the fact sheets moved apace until March 1985, when 10 were completed, 22 were in the production process, and 29 were in first rough draft. At that time all further work on the fact sheets was suspended in order that available effort could be redirected to projects judged to be of higher priority.

Conifer Germplasm Conservation Project

As part of the University-wide emphasis on conservation of germplasm, the Center proposed and was awarded a grant of $183,000. The funds, to become available July 1, 1985, will be from the Environmental License Plate Fund, managed by the California Resources Agency. In the first year the four-part project will emphasize: 1) collection of seeds from Brewer spruce, Douglas-fir, and ponderosa pine, 2) enzyme electrophoresis to determine geographic variations in the genetic architecture of Douglas-fir and ponderosa pine, 3) production under contract of a computer-based forest gene protection catalog, and 4) restoration, through contracted services, of an existing genetic collection of Monterey pine. It is anticipated that the project will be continued for three to four years in order to complete studies of the genetic architecture of commercial conifers and special endemic conifers in California. At the close of the year recruitment was underway for the forest geneticist who would manage the project and conduct research.

Cooperation

The Center's cooperation with other organizations expanded significantly during the year. Preparations for a workshop at Riverside to identify problems requiring additional research and extension in California's deserts brought the Center into closer contact with the federal Bureau of Land Management. Involvement with issues surrounding hardwood range required frequent interaction with Cooperative Extension and the State Board of Forestry. The celebration by the State Board of Forestry of its centennial led to considerable work and frequent meetings with the Board's chairman and staff.

A centennial conference at Yosemite National Park, March 3-5, 1985, began the celebration of the 100th anniversary of the State Board of Forestry. The University's Vice President for Agriculture and Natural Resources, James B. Kendrick, Jr., played a prominent role in this conference. His address to participants set forth "Realistic Aspirations Regarding Research, Extension, and Public Information for California's Wildlands." The Center developed most of the data and information he presented.

Dr. Kendrick made the point that the University spends about $8 million on research and extension related to wildlands. Cooperative Extension alone spends about $2 million for work on forestry, range, and wildlife through 31 full-time equivalent (FTE) specialists and farm advisors. This sizable effort falls far short of providing the research-based information required by wildland owners and managers. In his speech, Dr. Kendrick made the point that the unusual diversity and number of problems related to wildlands in California require an expanded research and extension effort.

To achieve an optimum program, Vice President Kendrick made several proposals. California needs to develop a continuing capability, both in people and facilities, for research and extension befitting the importance of forestry, range, and other wildland resources in the state's economy. Considerable expansion, almost to double our research and extension capability, is needed and justified. To achieve optimum attention to all of the problems, he specifically suggested adding approximately $15 to $20 million to the budgets for research and extension programs.

Policy Board

The Policy Board continued with 12 members, representing six campuses plus Cooperative Extension. A retiring member from the Davis campus was replaced by another member from that campus. Current members of the Policy Board are:
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<tr>
<th>Term Expires</th>
<th>Name, Title, Address</th>
<th>Telephone</th>
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<tbody>
<tr>
<td>December 1985</td>
<td>W. James Clawson, Extension Range Specialist, Agronomy and Range Science Extension, 125 Hunt Hall, UC Davis, 95616</td>
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<td>December 1985</td>
<td>Don C. Erman, Professor of Fisheries Ecology, Dept. of Forestry &amp; Resource Management, 145 Mulford Hall, UC Berkeley, 94720</td>
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<td>B. Delworth Gardner, Professor, Dept. of Agricultural Economics, 109 Voorhis Hall, UC Davis 95616</td>
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<td>December 1985</td>
<td>Lanny J. Lund, Professor of Soil Science, Dept. of Soil &amp; Environmental Sciences, 2226 Geology, UC Riverside 92521</td>
<td>(714) 787-3859</td>
</tr>
<tr>
<td>1986</td>
<td>Raymond F. Dasmann, Provost, Chair &amp; Professor, Environmental Studies, College Eight, 207 Clark Kerr Hall, UC Santa Cruz, 95064</td>
<td>(408) 429-2033</td>
</tr>
<tr>
<td>1986</td>
<td>E. Lee Fitzhugh, Extension Wildlife Specialist, Wildlife Extension, 8 Briggs Hall, UC Davis, 95616</td>
<td>(916) 752-1496</td>
</tr>
<tr>
<td>1986</td>
<td>Edward A. Keller, Associate Professor, Dept. of Geological Sciences, 2012 Geological Sciences, UC Santa Barbara 93106</td>
<td>(805) 961-4207</td>
</tr>
<tr>
<td>1986</td>
<td>Jonathan D. Sauer, Professor, Dept. of Geography, 1255 Bunche Hall, UC Los Angeles 90024</td>
<td>(213) 825-1122</td>
</tr>
<tr>
<td>1986</td>
<td>Henry J. Vaux, Jr., Professor of Resource Econ., Dept. of Soil and Environmental Sciences, 2444 Geology, UC Riverside 92521</td>
<td>(714) 787-4657</td>
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<td>1987</td>
<td>John W. Menke, Associate Professor, Dept. of Agronomy &amp; Range Sciences, 249 Hunt Hall, UC Davis, 95616</td>
<td>(916) 752-0568</td>
</tr>
<tr>
<td>1987</td>
<td>Peter C. Passof, Extension Forest Advisor, Cooperative Extension, Mendocino County Agricultural Center/Courthouse, Ukiah, CA 95482</td>
<td>(707) 463-4495</td>
</tr>
<tr>
<td>1987</td>
<td>Dennis E. Teegarden, Professor and Chairman, Dept of Forestry &amp; Resource Management, 145 Mulford Hall, UC Berkeley, 94720</td>
<td>(415) 642-0376</td>
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Public Advisory Council

As reported last year, the Center's Public Advisory Council will be formed, but at a later date. Meanwhile, conduct of the Center's business required counsel on a broad spectrum of activities related to shrublands, forests, rangelands, and deserts. Rather than forming a single comprehensive advisory council, the Center turned to several existing advisory bodies for help. During the year, the program coordinator appeared before and sought advice and counsel from:

- Watershed Fire Council of Southern California, September 21, 1984
- Forest Vegetation Management Conference, April 18, 1985
- USDI Bureau of Land Management
  Desert Multiple-Use Advisory Committee, May 16, 1985
  Desert Managers, May 2, 1985
- State Board of Forestry
  Range Management Advisory Committee, April 1, 1985
  Standing Committee on Forestry Research, April 26, 1985
  Task Force on Research Funding, June 19, 1985
- University of California
  Renewable Resources Extension Act Advisory Committee, May 24, 1985
  Faculty at Riverside, May 2, 1985
  Renewable Resources Program Coordinating Committee, May 6, 1985

Wildland Resources Center Staff

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Robert Z. Callaham, Program Coordinator
  (three-quarters time)
Shirley Stuart, Secretary
  (three-quarters time)
One student part time as word processor

Recent Publications