

MINUTES OF THE MEETING OF
THE WESTERN ASSOCIATION OF
AGRICULTURAL EXPERIMENT STATION DIRECTORS

Spokane, Washington

March 27, 1985

SUMMARY OF ACTIONS

March 27, 1985

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1. Adopted the agenda as modified.	2
2. Approved minutes of the November 12, 1984 meeting.	2
3. Heard report on W-161 and ratified actions taken regarding allocation of funds by the Advisory Committee.	3
4. Heard report of Chairman/Executive Committee and:	
a. Took the following action regarding allocation of off-the-top funding for;	5
W-6 Plant Introduction	Approved
W-84 Biological Control of Pests	Approved
W-161 Integrated Pest Management	Approved
W-106 Regional Research Coordination	Approved
IR-1 Solanum Species	No Action
IR-2 Virus-free Tree Clones	Approved
IR-4 Chemical & Biological Clearance	Approved
IR-5 CRIS	Approved
IR-6 National & Regional Research Planning	Rejected
IR-7 Atmospheric Deposition	Approved
b. Approved WDAL budget	7
c. Welsh, Dewhirst, Schlegel, Kaltenbach to work with Boyd to evaluate the assessment mechanism and prepare a draft for August meeting.	7
5. Heard RIC report and approved recommendations to:	
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appointment of co-Administrative Adviser.	
6. Heard Treasurer's report and approved Executive Committee	12
recommendations.	
7. Heard Dewhirst's report regarding training sessions for new	13
Administrative Advisers. Boyd will assist Dewhirst in developing	
a program for evaluation at August meeting.	
8. Welsh to appoint a committee to evaluate RPG system and	13
present a report at August meeting.	
9. Unanimously approved five resolutions.	14

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WESTERN ASSOCIATION OF
AGRICULTURAL EXPERIMENT STATION DIRECTORS

MINUTES

Wednesday, March 27, 1985
Ridpath Hotel
Spokane, Washington

ATTENDANCE:

Alaska	S. H. Restad	Oregon	M. J. Woodburn
Arizona	L. W. Dewhirst		R. E. Witters
California	D. E. Schlegel	Utah	C. E. Clark
Colorado	R. D. Heil	Washington	L. L. Boyd
	M. H. Niehaus		M. E. Mitchell
	H. A. Sykes	Wyoming	C. C. Kaltenbach
Idaho	R. J. Miller	OWD	J. E. Moak
Montana	J. R. Welsh	CSRS	C. I. Harris
	A. W. Hovin	FS	R. R. Bay
Nevada	L. J. Koong	ARS	W. G. Chace
		Guest	G. A. McIntyre

1.0 Call to Order

Chairman Welsh called the meeting to order at 8:10 a.m., Wednesday, March 27, 1985, in the University Room of the Ridpath Hotel.

2.0 Introduction and Announcements

Chairman Welsh welcomed all participants and asked for guests to be introduced.

Boyd introduced Harriet Sykes from CSU, who will be the Recording Secretary for the WAAESD office in Colorado. He also introduced Dr. Madeleine Mitchell, Assistant Director and Professor of Food Science & Human Nutrition at Washington State University.

Welsh announced that R. E. Witters is now Acting Experiment Station Director at Oregon State University.

3.0 Adoption of Agenda

Dewhirst requested addition of an item regarding training sessions for new Administrative Advisers, to be included under Agenda Item 14.0 - Other Business.

Clark's report on Groundwater Research to be presented with his ESCOP Legislative Subcommittee Report - Agenda item 12.8.

It was moved and seconded to adopt the revised agenda. MOTION CARRIED. A copy of the revised agenda is included as Appendix A, p. 17.

4.0 Approval of Minutes of Previous Meeting

It was moved and seconded to approve the minutes of the November 12, 1984 meeting. MOTION CARRIED.

5.0 Report on Regional Project W-161 Integrated Pest Management -- G. A. McIntyre

Welsh gave general background on the history of W-161 and indicated that W-161 had been granted approximately \$1,000,000 in funding for FY84 and FY85. He introduced G. A. McIntyre from CSU, W-161 Coordinator, who presented slides highlighting the history and organization of W-161.

5.1 Report on Western PL 89-106 IPM Awards -- G. A. McIntyre

A copy of Western Regional Procedures for Solicitation and Review of Special Grants in IPM is included as Appendix B, pp. 18-31.

Proposals submitted from the western region are now undergoing a review process which should be completed by mid-April. The IPM Committee will evaluate the proposals and notify the WAAESD of their recommendations. The WAAESD will then notify CSRS of their decisions regarding the IPM Committee recommendations.

Harris indicated that CSRS will need (1) an outline of the process followed for grant awards, (2) a letter from WAAESD with award recommendations, enumerating the proposals and the dollar amounts, (3) an original copy of each proposal, and (4) each institution must supply a letter of commitment to accompany the proposals.

Miller gave a brief history of how the funding for integrated pest management came about. The Western Directors taking the lead in a regional IPM program was a major factor resulting in the national IPM committee and out of that has evolved the national IPM program. As the CIPM special grant funding has been winding down, the national IPM program is in place to justify movement of those funds from CIPM to IPM with the recommendation that the funds be reallocated to the regions according to the regional formula. These funds are recommended to be zeroed this year as are all special grants. The hope is that there is justification to have the funds reinstated at the Congressional level.

Clark voiced appreciation of McIntyre's and Miller's efforts in putting a package together that has a high level of credibility

and meets the intent of this kind of funding which is not a distribution based on formula funding but is, in fact, based upon primarily the value and quality of science.

It was moved and seconded to ratify the actions which have been taken regarding allocation of funds by the Advisory Committee of W-161 and the Integrated Pest Management program. MOTION CARRIED.

The Chairman was asked to notify CSRS of the WAAESD's recommendations.

6.0 Report of Plant-Water Stress Steering Committee -- R. D. Heil

Heil reported that a task force on plant-water stress was formed in July 1983 as a result of the recommendation of several Experiment Station Directors and ARS under the guidance and leadership of RPG-1. The task force was approved in August 1984 by the WDA and WARC and prepared a report which is to be published soon. The WDA asked the task force members to serve on a Plant-Water Stress Steering Committee. One of the high priority recommendations from the task force report was to conduct a workshop. The Steering Committee met February 12, 1985, and recommended a workshop be held April 29 to May 1, 1986 at Lake Arrowhead, California. The workshop details will be finalized in April.

A budget of \$38,000 for the workshop is proposed for speakers, moderators, secretarial support, local arrangements and transportation. They have received a commitment of \$11,000 from CSRS. Chace committed \$10,000 from ARS and will try to get a commitment for more from the other Regional ARS Administrators. The participation of ERS and FS is unclear as the focus has changed from water, in general, to the plant-water stress area. ERS has not been involved since the first organizational steps and will probably not participate. Heil will try to get some funding from FS. Based on action taken at the August WDA meeting, WAAESD will pay the balance needed to fund the workshop. Attached as Appendix C, pp. 32-37 are meeting notes from the Committee.

7.0 Reports from Federal Agency Liaison Representatives

7.1 ARS Report -- W. G. Chace, Jr.

Chace distributed a written report attached as Appendix D, pp. 38-46.

He reported that ARS plans to revise their six year implementation plan by July 1985. Dr. Terry Kinney, Administrator, ARS, supports interaction with scientists of SAES. He is setting priorities and recommending participation in committees.

Changes in National Program Staff (NPS) may take place. RPG participation from ARS may change and ARS may not be involved in western regional priority setting. At present the NPS sets ARS

priorities but Chace indicated that it would not be beneficial to have NPS representatives on RPGs. The DALs need to interact with the ARS administrators to encourage interaction in research and on committees.

Chace reported that the ARS is limiting travel and that SAES regional research meetings may have low priority.

7.2 ERS Report -- M. L. Cotner

No report was submitted.

7.3 FS Report -- R. R. Bay

The following written report was circulated by Bay.

BUDGET LEVELS FOR RESEARCH

The FY 1985 appropriation was at a level of \$121 million dollars (up \$13 million) and included major increases in forest survey and atmospheric deposition, and a wholly new program in competitive grants. Although the grants appropriation came through the Forest Service, it will be managed by the Competitive Grants Office of the Department. Regulations are now being developed, but it will generally address two broad areas; wood products and utilization, and basic forest biology (including basic genetics). University and federal scientists will be able to compete for funds. We expect the announcement and request for proposals to be out very shortly.

The FY 1986 President's budget for research has a funding reduction of 15%, or about \$17 million dollars. The competitive grants program is not included. Other major reductions will be in atmospheric deposition research, and forest survey with lesser reductions in other research line items. Impacts in the western experiment Stations will be in forest survey, atmospheric deposition in Colorado, forest fire research in Montana, and in a variety of individual projects in all four Stations.

GENERAL ISSUES IN WESTERN FORESTRY

All four western Stations are now sharing certain administrative services such as personnel, contracts, and purchases, with nearby National Forest System offices. This has resulted in some changes in contacts with Universities, primarily in the purchasing and payment areas. The Stations, however, still are responsible and retain authority overall research activities; it's just that some different offices are processing the administrative work.

FS/BLM Interchange of management responsibilities and major changes in timber sale procedures in the Northwest (timber sale buy-back), although not affecting research so much directly,

will have impacts on overall Forest Service personnel and administrative activities. Some of this could influence research hires of technicians and support personnel and could delay some administrative support work.

8.0 Report of Chairman/Report of Executive Committee -- J. R. Welsh

Welsh indicated that the Executive Committee had conducted their meeting the evening of March 26, 1985 following the RIC meeting.

Boyd presented the report of the Executive Committee and provided information on off-the-top funding allocations for Regional Research projects. The following table indicates FY85 actual allocations, FY86 proposed allocations and WAAESD action.

<u>Regional Project</u>	<u>FY85 Allocation</u>	<u>FY86 Request</u>	<u>WAAESD Action</u>
W-6	\$201,404	\$245,270	<u>APPROVED</u>
W-84	30,000	30,000	<u>APPROVED</u>
W-161	50,000	50,000	<u>APPROVED</u>
W-106 (WDAL)	43,780	43,780	<u>APPROVED</u>
IR-1	127,052	----	<u>NO ACTION</u>
IR-2	209,953	206,950	<u>APPROVED</u>
IR-4	289,218	319,665	<u>APPROVED</u>
IR-5	208,700	204,400	<u>APPROVED</u>
IR-6	200,000	240,000	<u>REJECTED</u>
IR-7	72,439	86,179	<u>APPROVED</u>

The following comments are associated with the WAAESD action:

W-161 funding was intended as seed money and, if the special grants funds continue, this may be the last year for funding from WAAESD.

W-106 (WDAL) staff. Taking the \$43,780 from off-the-top funding reduces the amount each station is assessed for support of the WDAL office.

IR-1 funding. No information - no action.

IR-4 increase is due to salary increases. WDA approved a recommendation to cover the salary increases of the institution and limit additional increases to the overall percentage increase in Hatch funds for FY86.

IR-6 action was recommended by the Executive Committee to be delayed until the August meeting. The request included \$40,000 for inviting new participation. During discussion, Directors were informed of RIC's recommendation that the revision of IR-6 be denied. Clark read a list of the areas of research recommended. Directors voted to deny funding for IR-6. A lack of exchange of information across regions was noted and it was suggested that the individual states could submit proposals under the normal regional project system. Harris indicated that the other regions need to be informed immediately of the WAAESD action.

IR-7 funding increase is due to increase of SY. The Executive Committee recommended that the increase in salaries be tied to the institutional increase and that the increase in SY be disapproved. It was pointed out that there was not an actual SY increase, the apparent increase was to fund a position for a person who was not onboard for a full year in FY85. The budget request was to fund only the Coordinator's Office in Colorado. The request was approved.

Boyd reported on Executive Committee recommendations for development of the DAL office and budget. The WDAL office will be housed at CSU by May 6, 1985.

The following budget information was presented:

PROPOSED BUDGET
WESTERN DIRECTOR-AT-LARGE
March 26, 1985

ITEM/OBJECT	1984-85 AMOUNT	1985-86 AMOUNT
RECURRING COSTS		
Boyd salary	\$13,630.20	\$ 69,000.00
Retirement-10%	1,363.02	6,900.00
Social Security	960.93	4,864.50
Medical Insurance	417.50	2,004.00
Workman's Comp.	40.00	192.00
Subtotals	\$16,411.65	\$ 82,960.50
Sykes salary	\$ 5,500.00	26,400.00
Retirement-7%	385.00	1,848.00
Social Security	387.75	1,861.20
Medical Insurance	417.50	2,004.00
Workman's Comp.	40.00	192.00
Subtotals	\$ 6,730.25	\$ 32,305.20

Additional salary	*	\$ 3,600.00
Retirement-7%		252.00
Social Security		253.80
Medical Insurance		501.00
Workman's Comp.		48.00
Subtotals		\$ 4,654.80
CSU space rental	\$ 875.00	\$ 4,200.00
Office supplies	500.00	3,000.00
Telephone charges	350.00	1,680.00
Postage	125.00	1,680.00
Incidental Exp. Fund	50.00	300.00
Travel	5,000.00	25,000.00
Subtotals	\$ 6,900.00	\$ 34,780.00
Recurring Totals	\$30,041.90	\$154,700.50
ONETIME COSTS		
Boyd moving costs	\$	\$ 5,089.00
Word proc/cmptr		8,500.00
Portable computer	2,200.00	
Office furniture	2,500.00	
Move from Berkeley	500.00	
Move from D. C.	200.00	
One Time Totals	\$ 5,400.00	\$ 13,589.00

* Jill Moak will continue at least through April and 1-2 weeks in May.

The Executive Committee approved the FY84-85 expenses and approved the FY85-86 budget request. Part of the FY85-86 budget is to be covered by off-the-top funding from W-106. The assessment will have to be adjusted depending upon the total budget and the carry-over budget of \$70,000. The motion was made to approve the total budget as a package. APPROVED.

The Executive Committee recommended that Welsh appoint a committee to work with Boyd to evaluate the mechanism for assessing the stations and prepare a draft report by the August meeting. The committee as appointed is Welsh, Dewhirst, Schlegel, Kaltenbach.

The Executive Committee recommended that Boyd begin his elected term as the WAAESD representative to the Committee of Nine. His participation will be reviewed after one year.

9.0 RIC Report -- A. W. Hovin

The RIC Report is included as Appendix E, pp. 47-56.

10.0 DAL Report -- L. L. Boyd

The DAL Report is included as Appendix F, pp. 57-60.

11.0 CSRS Report -- C. I. Harris

The CSRS Report is included as Appendix G, pp. 63-64.

12.0 Informational Reports from Representatives to Regional and National Committees

12.1 Joint Council and Users Advisory Board -- C. I. Harris

Harris indicated that the Joint Council met in Washington recently and dealt with evaluation studies. The Joint Council has released several reports and is involved in planning and priority setting. They have shown that there is a process where the three functions--research, teaching and extension--can come together.

Boyd read from a report by K. Huston (NCDAL) stating that the Users Advisory Board and USDA agency heads presented and defended the executive budget recommendation. On the second day the Board worked independently to develop its recommendation which it subsequently took to the Hill. Several people have recommended to Chairman Bill Marshall that the Board might find it helpful to have representatives from ESCOP, ECOP and RICOP also speak to budgetary recommendations. The Board's recommendations reflect largely the administrative views of the executive branch.

The Department's version of Title XIV recommends increasing the size of the Users Advisory Board by three members, from 25 to 28.

12.2 W. Agricultural Research Comm. -- R. R. Bay

Bay presented the following report:

The Western Agricultural Research Committee met in Reno, Nevada on March 6, 1985 to review the research priorities being established for the western region and to revise the narrative related to the research projections for 1985-1990.

The committee revised the wording on the research statements and then ratified the priority order that had been established through mail ballot. These priorities are as follows:

1. Develop technology to improve the use and conservation of water by expanding available supplies, protecting quality, and sustaining soil productivity.
2. Improve the basic understanding necessary to fully realize the potential benefits from the fields of biotechnology and genetic engineering.
3. Increase productivity and efficiency of western food and fiber systems.
4. Improve the nutritional quality and safety of the Nation's food supply.

5. Improve knowledge and technology for agricultural management, market development and policy decisions.
6. Expand available supplies and improve technology for the long-term aspects of the use and conservation of energy.

The next meeting of the committee is anticipated in the spring 1986.

12.3 W. Regional Council -- R. R. Bay

Bay presented the following report:

The Western Regional Council meeting held in Reno, Nevada on March 7, 1985 was chaired by Doyle J. Matthews.

Priorities were submitted by each of the western functional committees. Each of the committees explained the rationale of that group's recommendations. These were discussed at length from the standpoint of the priority setting function of the Joint Council for Food and Agricultural Sciences. Considerable time was given to identifying interrelationships among areas of interest. The three sets of priority recommendations were combined into a list of eleven statements that were then ranked by the Council. The eleven titles and their priority ranking follows:

1. Improving the conservation and use of water
2. Product and market development
3. Improved agricultural profitability through enhanced farm management
4. Recruitment of high quality students
5. Improving the quality of higher education
6. Production systems and resource management
7. Identifying interrelationships among diet, human nutrition and health
8. Expanded research and education in biotechnology
9. Enhanced family well being through improved resource management
10. Enhancing human potential through youth and volunteer development
11. Improving technology for conservation and use of energy

Brief statements were written to accompany each title. Effort was made to identify relationships among research, extension and teaching for a title where possible. For example, to improve the quality of higher education, institutions require graduate fellowship support, updated equipment, computer technology as well as a cadre of well trained scientists.

The above priorities have been submitted to the Joint Council.

The next meeting of the committee is expected to be in the Spring of 1986.

12.4 National Agricultural Research Comm. -- H. F. McHugh

The Report from the National Agricultural Research Committee is attached as Appendix H, pp. 65-81.

Bay called attention to item 4 of the report regarding the Joint Council's accomplishments report, indicating that the directors need to send a brief (one or two paragraph) statement of accomplishments related to 1985 priorities to H. F. McHugh or R. R. Bay by May 1.

12.5 Committee of Nine -- H. F. McHugh

The report from the Committee of Nine is attached as Appendix I, p. 82.

12.6 ESCOP Report -- L. W. Dewhirst

Dewhirst presented the following report:

The ESCOP Interim Subcommittee met February 14-15, 1985, in Washington, D.C. The agenda included 21 items and discussion expanded to fill the available time. Lively discussion ensued on the following items:

1. The Proposed 1986 Federal Budget for CSRS was again presented by C. W. Donoho. Each of you should have received a copy as approved by ESCOP and NASULGC by this time. In general, it requests a modest increase in the Formula Funds, restoration of the Animal Health (1433) and Special Grants (89-106) and an additional \$3.0 million on Competitive Grants. Reactions to the proposal were unanimously positive with general good feeling about our chances in a tough budget year.
2. The 1987 Proposed Budget was discussed. The general feeling was that it was difficult to make major modifications until Congressional committees had acted and some guidelines were given by Assistant Secretary Bentley.
3. A third Communications Workshop is being planned for April/May 1986 in St. Paul-Minneapolis. The objective will be to assist participating institutions to develop a public

awareness plan. ECOP will cooperate. Bob Witters (Oregon) and Ms. Bonnie Riechert (Tennessee) have agreed to co-chair the Planning Committee.

4. A proposal was discussed to have a DAL assigned to serve as Executive Vice Chair of each ESCOP Standing Committee. It was requested that each regional association discuss this at their spring meeting and report to ESCOP. In general, this is already done in many cases.

5. The NRC Board on Agriculture has under way an evaluation of the animal health programs of the CSRS. The committee of scientists will assess the current state of the art in animal health research, identify high priority areas, and explore the role of and collaboration among USDA research agencies, colleges and schools of veterinary medicine, state agricultural experiment stations, and the private sector. ESCOP expressed concern that the study was being conducted with little or no input from states except from the veterinary schools and colleges. There will be an attempt to provide input by asking that W. Benton (Delaware) be made a member of the committee.

12.7 ESCOP Budget Subcomm. -- L. W. Dewhirst, C. C. Kaltenbach

The information has been reported in the other ESCOP Reports.

12.8 ESCOP Legislative Subcomm. -- C. E. Clark

Clark pointed out that contamination of groundwater is becoming the focus of public attention nationally. There is concern regarding its effect on agriculture and the ESCOP Special Initiatives Committee has established groundwater research as an area for planning and budgeting.

NEC-61 was established with N. Scott (NY) as Chairman as the result of the NASULGC meeting in Denver in November with approximately 30 people attending a workshop in February, 1985. The Western Region was represented by D. E. Rolston (CA), D. B. McWhorter (CO) and W. R. Gardner (AZ). Other participants were from ARS, CSRS, ES and EPA. They developed a first draft of a multi-agency plan and propose to have a synopsis out by mid-May, 1985. Methods of funding were discussed, including biotechnology and competitive grants.

The ESCOP Special Initiatives Subcommittee has selected five topics for development: 1) robotics and related sensors, 2) groundwater, 3) farming systems, 4) agricultural policy primarily related to trade, and 5) post harvest technology with emphasis on value-added activities. Committee members welcome input and suggestions regarding these topics.

12.9 ESCOP Communications Subcomm. -- R. E. Witters

The ESCOP Communications Subcommittee report is attached as Appendix J, pp. 83-89.

12.10 IR-5 CRIS Update -- D. M. Briggs

Harris reported as Co-chairman of the CRIS Policy Committee. The inventory format in the Manual of Classification was changed in the past year. The agricultural economics classification changes will be coded according to recommendations from the Agricultural Economics Association.

It was suggested that items in Special Categories be added to the inventory.

12.11 Title XIV Update

Title XIV information can be found in Appendix G. p. 64, Item 8.

12.12 Other Reports

12.12.1 Treasurer's Report -- A. W. Hovin

Hovin distributed information regarding the Western Directors' At Large and Special Fund Accounts attached as Appendix K, pp. 90-92.

The Executive Committee recommended that the FY85 deficit in the Western Director's Special Fund be covered by transfer from the WDAL Account. The Special Fund can be used only for travel to ESCOP and the ESCOP Budget Subcommittee meetings. All other ESCOP assignments are not eligible for funding from the Special Fund.

Motion was made and seconded to approve the Treasurer's Report and the recommendation of the Executive Committee. MOTION CARRIED.

13.0 Administration of Special Grant Funds -- J. R. Welsh

Administration of special grants funding is a special concern for most directors. Question is not one of program development and priority setting but whether there is any mechanism to handle special grant funds more efficiently.

The relocation, reorganization, potential restructuring, and reassignment of responsibilities to the DAL office might offer some possibility for the centralization of funding. Special Grant Funds, with a year-to-year nature, such as IPM, Animal Health Funds, Biological Impact Assessment, Pesticide Impact Assessment do not fit well in the formula funds. The administration of funds which are allocated to the region, such as IPM, could be the responsibility of the DAL office to monitor, and would reduce the workload on individual stations.

NOW THEREFORE BE IT RESOLVED that the Western Association of Agricultural Experiment Station Directors at its 1985 winter meeting in Spokane, Washington express its appreciation for his many contributions to its goals and wishes him the best success in his new assignment.

AND BE IT FURTHER RESOLVED that the original of this resolution be sent to Dr. Pope and a copy be included in the minutes of the March 27, 1985 meeting.

Resolution 4:

WHEREAS, Dr. L. L. Boyd and his staff at Washington State University have done a memorable job in coordinating arrangements for the 1985 winter meeting of the Western Association of Agricultural Experiment Station Directors, and

WHEREAS, the accommodations at the Ridpath Hotel have been convenient and comfortable, and

WHEREAS, Dr. Boyd arranged successfully for an absence of fog and snow that often is the cause for delay or cancellation of flights to Spokane at this season of the year,

NOW THEREFORE BE IT RESOLVED that the Western Association of Agricultural Experiment Station Directors expresses its most sincere thanks to the meeting organizers.

AND BE IT FURTHER RESOLVED that the original of this resolution be sent to Dr. Boyd and that a copy be included with the minutes of the March 27, 1985 meeting of the Western Association of Agricultural Experiment Station Directors held at Spokane, Washington.

Resolution 5:

WHEREAS, the Western Association of Agricultural Experiment Station Directors has had excellent administrative support from Jill Moak, and

WHEREAS, Jill Moak's excellent administrative guidance will no longer be available to the Western Association of Agricultural Experiment Station Directors, and

WHEREAS, this excellent administrative service has been a tremendous asset to the successful operation of the association's activities since the mid 1970s, and

WHEREAS, her smiling face and congenial personality, in addition to her administrative excellence will be missed by all,

NOW THEREFORE BE IT RESOLVED that the Western Association of Agricultural Experiment Station Directors, at its spring meeting at Spokane, Washington on March 27, 1985, recognizes and express its gratitude for her contributions and wish her well in her future endeavors.

AND BE IT FURTHER RESOLVED that a copy of this resolution be sent to Jill Moak and a copy made a part of the minutes of the March 27, 1985 meeting.

BE IT FURTHER RESOLVED that all members of the Western Association of Agricultural Experiment Station Directors line up to give her a kiss on the cheek at the adjournment of the meeting.

17.0 Adjournment

It was moved and seconded to adjourn the meeting. MOTION CARRIED.

Boyd indicated that prioritization of responsibilities in the DAL office is necessary to see where the administration of the Special Grant Funds would fit. The workload on the DAL might require more secretarial services and increase space requirements. The ad hoc committee appointed by the Executive Committee to evaluate the assessment mechanism will work with Boyd to study the possibilities and problems involved with centralizing Special Grant Fund administration in the DAL office. The ad hoc committee members are Welsh, Kaltenbach, Dewhirst and Schlegel.

14.0 Other Business

14.1 Training Sessions for New Administrative Advisers -- L. W. Dewhirst

Dewhirst suggested providing a one-half day training session for new Administrative Advisers the day of the RIC meeting during the summer meeting in Logan, Utah. The session would have a slide-tape followed by a discussion. It was suggested that the session be videotaped for future use.

The point was raised that it might be cost prohibitive for department heads to fund a trip to attend the training session. Boyd indicated that he could take the training program with him when he visits the individual states. Boyd will assist Dewhirst in developing the program.

14.2 ESCOP Research Planning Subcommittee -- J. R. Welsh

Welsh presented information regarding the ESCOP Research Planning Subcommittee chaired by Neville Clark. The report on "Symposium: The Research Agenda for the State Agricultural Experiment Stations" is attached as Appendix L, pp. 93-94.

14.3 RPG Issue

Dewhirst recommended that the RPG review system be evaluated to determine whether the RPG reviews are helpful to WDA and RIC.

Primarily, their role was to make recommendations on research priorities and to influence the thinking of the administrators in the allocation of resources. They have no written guidelines to help their process.

Welsh will appoint a committee to evaluate the RPG system and present a report at the summer meeting. It should consist of SAES members and some members outside of SAES.

15.0 Future Meetings

Future WDA meetings are scheduled as follows:

<u>Dates</u>	<u>Location</u>
August 5-9, 1985	Logan, UT
November 1985	Washington, D.C.

16.0 Resolutions

MOTION CARRIED to approve unanimously the following resolutions:

Resolution 1:

WHEREAS, Dr. John Vetterling has been active in the functions of the Western Directors Association as a representative of the Agricultural Research Service, and

WHEREAS, his duties within ARS have changed so that he will not be able to actively participate in the operations of the Western Directors Association, and

WHEREAS, his contributions to the WDA's activities and agricultural research in the Western Region will be missed,

NOW THEREFORE BE IT RESOLVED that the Western Association of Agricultural Experiment Station Directors assembled at the 1985 spring meeting held in Spokane, Washington, expresses its appreciation for his contributions and wishes him well in his new ARS activities.

AND BE IT FURTHER RESOLVED that the original of this resolution be sent to Dr. John Vetterling and a copy be made a part of the minutes of the March 27, 1985 meeting of the Western Directors Association.

Resolution 2:

WHEREAS, Peter H. van Schaik has been a valuable participant in activities of the Western Directors Association representing the Agricultural Research Service, and

WHEREAS, Peter H. van Schaik has contributed much to the WDA's activities including his coordination of the ARS hosting of the 1984 summer meeting at Hilo, Hawaii,

NOW THEREFORE BE IT RESOLVED that the Western Association of Agricultural Experiment Station Directors at its March 27, 1985 meeting at Spokane, Washington, recognizes and expresses appreciation for his support and wishes him well in his new responsibilities.

AND BE IT FURTHER RESOLVED that the original of this resolution be sent to Peter H. van Schaik and a copy be made a part of the minutes of the March 27, 1985 meeting.

Resolution 3:

WHEREAS, Dr. L. S. Pope has stepped down from his deanship and has accepted other duties in the College of Agriculture of New Mexico State University, and

WHEREAS, Dr. Pope has served well the cause of western agriculture and the administration of the State Agricultural Experiment Stations,

APPENDIX A

WESTERN ASSOCIATION OF AGRICULTURAL EXPERIMENT STATION DIRECTORS

Wednesday, March 27, 1985

8:00 am - 5:00 pm

Ridpath Hotel

Spokane, Washington

AGENDA

- | | | |
|---------|-------|--|
| 8:00 am | 1.0 | Call to Order |
| | 2.0 | Introductions and Announcements |
| | 3.0 | Adoption of Agenda |
| | 4.0 | Approval of Minutes of November 12, 1984 Meeting |
| 8:20 | 5.0 | Report on Regional Project W-161 Integrated Pest Management -- G. A. McIntyre |
| | 5.1 | Report on Western P1 89-106 IPM awards -- G. A. McIntyre |
| 8:45 | 6.0 | Report of Plant-Water Stress Steering Committee -- R. D. Heil |
| | 7.0 | Reports from Federal Agency Liaison Representatives |
| 9:15 | 7.1 | ARS Report -- W. G. Chace, Jr. |
| 9:30 | 7.2 | ERS Report -- M. L. Cotner |
| 9:45 | 7.3 | RS Report -- R. R. Bay |
| 10:00 | 8.0 | Report of Chairman/Report of Executive Committee -- J. R. Welsh |
| 11:15 | 9.0 | RIC Report -- A. W. Hovin |
| 12:00 n | | LUNCH |
| 1:00 pm | 10.0 | DAL Report -- L. L. Boyd |
| 1:30 | 11.0 | CSRS Report -- W. D. Carlson |
| 2:00 | 12.0 | Informational reports from representatives to regional and national committees |
| | 12.1 | Joint Council and Users Advisory Board -- J. P. Jordan/W. D. Carlson |
| | 12.2 | W. Agricultural Research Comm. -- H. F. McHugh |
| | 12.3 | W. Regional Council -- H. F. McHugh |
| | 12.4 | National Agricultural Research Comm. -- H. F. McHugh |
| | 12.5 | Committee of Nine -- H. F. McHugh |
| | 12.6 | ESCOP Report -- L. W. Dewhirst |
| | 12.7 | ESCOP Budget Subcomm. -- L. W. Dewhirst, C. C. Kaltenbach |
| | 12.8 | ESCOP Legislative Subcomm. -- C. E. Clark |
| | 12.9 | ESCOP Communications Subcomm. -- R. E. Witters |
| | 12.10 | IR-5 CRIS Update -- D. M. Briggs |
| | 12.11 | Title XIV Update |
| | 12.12 | Other Reports |
| 3:00 | 13.0 | Administration of Special Grant Funds -- J. R. Welsh |
| | 14.0 | Other business |
| | 15.0 | Future meetings |
| | 16.0 | Resolutions |
| 5:00 | 17.0 | Adjournment |

* Please provide a written report for distribution at the meeting.
 Discussion should be limited to action items or matters of policy.

APPENDIX B**WESTERN REGIONAL PROCEDURES
FOR SOLICITATION AND REVIEW OF SPECIAL GRANTS IN IPM**

The five commodity coordinating committees (alfalfa, small grains, tree fruits, potatoes and rangeland) identified research priority areas for their commodity. A letter requesting that experiment station scientists submit proposals was sent by the IPM coordinator (McIntyre) to all ES directors in the region on 11/19/84. After release of FY 85 funds, the directors approved pooling of FY 84 and 85 funds. A letter indicating this change and incorporating additional research categories was sent to all ES directors in the region on 2/27/84. All proposals were to be postmarked by 1/18/85. Seventy (70) proposals were received (Table A).

Procedures used for proposal review were as follows:

1. **Peer review:** Commodity coordinating (CC) subcommittee chairmen provided a list of peer reviewers for proposals in their commodity area. The coordinator selected two reviewers from these lists to review each proposal. In several instances to avoid conflicts of interest additional reviewers were identified through CSRS. Care was taken to use reviewers from outside the region whenever possible. The exception to this general position was rangeland where several ARS scientists from within the region assisted in the review process. All reviews were returned to the coordinator.

2. **Commodity Coordinating (CC) Subcommittee review:** Unsigned peer reviews and copies of all proposals were sent to the CC subcommittee chairmen by the coordinator. The chairmen were charged with the responsibility of coordinating proposal evaluation at the commodity level. CC subcommittees evaluated proposals and peer evaluations for scientific merit and fit within the subcommittee guidelines.

3. After review by the appropriate CC subcommittees, CC subcommittee chairmen met in Reno with the Coordinator; Drs. H.C. Cox and Ray Miller, administrative advisors W-161; and Drs. A.W. Hovin (MT) and Elmer Clark (UT), representatives WAAESD.

Funding recommendations were developed for all commodities except rangeland.* Proposals were placed in one of three categories: (1) recommend for immediate funding; (2) high funding priority but additional information required; (3) low priority, do not fund (does not fit guidelines or science quality unsatisfactory).

A list of proposals recommended for immediate funding is attached (Table B). Proposals of high priority and pending are listed in Table C.

*Chairman of the Rangeland CC subcommittee was unavailable and review is currently underway.

Prepared by Gary A. McIntyre, Coordinator
Western Region IPM Project
March 20, 1985

Commodity	Reviewers
ALFALFA	Dr. Jerry Baskin School of Biological Sciences University of Kentucky Lexington, Kentucky 40506
	Dr. M. G. Boosalis Department of Plant Pathology University of Nebraska Lincoln, Nebraska 68583
	Dr. C. R. Grau Department of Plant Pathology University of Wisconsin Madison, Wisconsin 53706
	Dr. Dean Linscott USDA/ARS Cornell University 622 Bradfield Hall Ithaca, New York 14853
	Dr. G. R. Manglitz Department of Entomology University of Nebraska Lincoln, Nebraska 68583
	Dr. William G. Ruesink Department of Entomology University of Illinois Urbana, Illinois 61801
	Dr. B. C. Pass Department of Entomology University of Kentucky Lexington, Kentucky 40506
	Dr. Christine Shoemaker (3/4 - returned proposals) Department of Environmental Eng. Cornell University Ithaca, New York 14853
	Dr. Fred Poston Department of Entomology Kansas State University Manhattan, Kansas 66506

Commodity	Reviewers	
<u>Potatoes</u>	Dr. John Baritelle Boyden Entomology Lab University of California Riverside, California 92521	Dr. Fred Poston Kansas State University Manhattan, Kansas 66506
	Dr. H. L. Bissonnette Department of Plant Pathology University of Minnesota St. Paul, Minnesota 55108	
	Dr. R. A. Casagrande Department of Plant Pathology/Entomology University of Rhode Island Kingston, Rhode Island 02881	
	Dr. R. W. Chase Montcalm Experiment Station Farm Entrican, Minnesota 48850	
	Dr. F. E. Manzer Department of Botany and Plant Pathology University of Maine Orono, Maine 04473	
	Dr. Douglas Rouse Department of Plant Pathology University of Wisconsin Madison, Wisconsin 53706	
	Dr. Gary Secor Department of Plant Pathology North Dakota State University Fargo, North Dakota 58105	
	Dr. Christine A. Shoemaker Department of Environmental Eng. Cornell University Ithaca, New York 14853	
	Dr. Richard Stace-Smith Canada Agric. Res. Center 6660 N.W. Marine Drive Vancouver, B.C. Canada V6T 1X2	
	Dr. Richard Storch Department of Entomology University of Maine Orono, Maine 04473	
	Dr. Paul Teng Department of Plant Pathology University of Minnesota St. Paul, Minnesota 55108	
	Dr. N.S. Wright Head, Plant Pathology Section CDA Research Station 6660 NW Marine Drive Vancouver, British Columbia, Canada	

RANGE

Dr. K. H. Asay
Department of Plant Science
Utah State University
Logan, Utah 84322

Dr. Dieter Wilken
Department of Botany
Colorado State University
Fort Collins, Colorado 80523

Dr. John Baritelle
Boyden Entomology Lab
University of California
Riverside, California 92521

Dr. Farrell A. Branson
U.S. Geological Survey
906 24th Street
Golden, Colorado 80401

Dr. Ray Evans
Department of Range Wildlife and Forestry
University of Reno
Reno, Nevada 89557

Dr. F. E. Gilstrap (Returned proposal)
Department of Entomology
Texas A & M University
College Station, Texas 77843

Dr. James Jacobs
Division of Ag. Economics
University of Wyoming
Laramie, Wyoming 82071

Dr. Anthony Joern
Assistant Professor (Insect Ecologist)
School of Life Sciences
Manter Hall of the Life Sciences
Lincoln, Nebraska 68588

Dr. D. D. Kopp
Department of Entomology
North Dakota State University
State University Station
Fargo, North Dakota 58105

Dr. William A. Laycock
USDA-ARS
0029 Crops Research Lab
Colorado State University
Fort Collins, Colorado 80523

Dr. Q. Skinner
Division of Range Management
University of Wyoming
Laramie, Wyoming 82071

Dr. D. N. Ueckert
Texas A & M Agricultural Research Center
San Angelo, Texas 76902

Dr. Grady Webster
Department of Botany
University of California, Davis
Davis, California 95616

Commodity

Reviewers

SMALL GRAINS

Dr. R. H. Busch
 Department of Agronomy and Plant Genetics
 University of Minnesota
 St. Paul, Minnesota 55187

Dr. Dean L. Haynes
 Department of Entomology
 Michigan State University
 East Lansing, Michigan 48824

Dr. W. F. Rochow
 USDA-ARS
 Department of Plant Pathology
 Cornell University
 Ithaca, New York 14853

Dr. John Schmidt
 Agronomy Department
 University of Nebraska
 Lincoln, Nebraska 68503

Dr. Christine Shoemaker
 Department of Environmental Eng.
 Cornell University
 Ithaca, New York 14853

Dr. Robin A. J. Taylor
 Department of Entomology
 106 Patterson
 Pennsylvania State University
 University Park, Pennsylvania 16802

Dr. Fred Posten
 Department of Entomology
 Kansas State University
 Manhattan, Kansas 66506

Dr. Stuart H. Gage
 Department of Entomology
 Michigan State University
 East Lansing, Michigan 48824

TREE FRUITS

Dr. George Bird
Department of Entomology
Michigan State University
East Lansing, Michigan 48824

Dr. Ron Giese
Department of Forestry
University of Wisconsin
Madison, Wisconsin 53706

Dr. Larry Hull
Fruit Research Laboratory
Pennsylvania State University
Biglerville, Pennsylvania 17307

Dr. S. C. Hoyt, Superintendent
Tree Fruit Research Center
1100 North Western Avenue
Wenatchee, Washington 98801

Hoyt sent to: Dr. L. K. Tanigoshi
Washington State
University
Pullman, Washington 99164

Dr. A. L. Jones
Department of Botany
and Plant Pathology
Michigan State University
East Lansing, Michigan 48823

Dr. R. J. Prokopy
Department of Entomology
University of Massachusetts
Amherst, Massachusetts 01003

Dr. Helmut Reedle
Department of Plant Pathology
New York State Agricultural
Experiment Station
Geneva, New York 14456

Dr. Harvey Reissig
Department of Entomology
New York State Agricultural
Experiment Station
Geneva, New York 14456

Dr. Walter Schroch
Department of Plant Pathology
North Carolina State University
Raleigh, North Carolina 27650

* Dr. Robert Seem
New York Agricultural
Experiment Station
Department of Plant Pathology
Geneva, New York 14456
Seem sent to Wilcox, Burr

Dr. Turner Sutton
Department of Plant Pathology
North Carolina State Univ.
Raleigh, North Carolina
27650

Dr. Paul Teng
Department of Plant Pathology
University of Minnesota
St. Paul, Minnesota 55103

Dr. James Tette
Department of Integrated
Pest Management
New York State Agricultural
Experiment Station
Geneva, New York 14456

Dr. R. Vandriesche
Department of Entomology
University of Massachusetts
Amherst, Massachusetts 01003

Dr. M. E. Whalon
Pesticide Research Center
Michigan State University
East Lansing, Michigan 48823

Dr. Fred Posten
Department of Entomology
Kansas State University
Manhattan, Kansas 66506

Dr. James Bath
Michigan State University
Department of Entomology
East Lansing, Michigan 48824

* Dr. Seem sent to:
Dr. Thomas Burr (41)
Dr. Wayne Wilcox (44)

Table A. Distribution of proposals received by Experiment Station.

Experiment Station	Alfalfa	Potatoes	Range	Small Grains	Tree Fruits	Total
Alaska	0	0	0	0	0	0
American Samoa	0	0	0	0	1	1
Arizona	1	1	1	0	2	5
California						
Berkeley	2	0	0	0	2	4
Davis	15	0	0	2	3	10
Riverside	1	0	0	1	5	7
Colorado	3	3	1	0	1	8
Guam	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0
Idaho	0	3	2	2	0	7
Micronesia	0	0	0	0	0	0
Montana	1	0	3	1	0	5
Nevada	1	0	1	0	0	2
New Mexico	0	0	1	0	0	1
Oregon	1	3	2	0	3	9
Utah	2	1	4	0	3	10
Washington	0	2	0	2	2	6
Wyoming	2	0	1	0	0	3
Total	19	13	15	8	22	78*

* 70 proposals received; table reflects distribution by scientist involvement. Several proposals involve more than one ES.

Table B. List of proposals funded as of March 19, 1985.

Principal Investigator(s)/Institution	Budget
<u>ALFALFA</u>	
Gilchrist, D. G. Department of Plant Pathology University of California, Davis Davis, California 95616	\$45,000
Teuber, L. R. Department of Agronomy and Range Science University of California, Davis Davis, California 95616	

Hsiao, Ting H. Department of Biology Utah State University Logan, Utah 84322	25,000
<hr/>	
<u>POTATOES</u>	
Davis, J. R. Research and Extension Center University of Idaho Aberdeen, Idaho 83210	30,000
Fravel, D. R. USDA-ARS Soilborne Disease Laboratory Beltsville, Maryland 10705	

Powelson, Mary L. Department of Botany and Plant Pathology Oregon State University Corvallis, Oregon 97331	60,000
Harrison, Monty D. Department of Plant Pathology and Weed Science Colorado State University Fort Collins, Colorado 80523	
<hr/>	

Table B (continued)

Page 2

Principal Investigator(s)/Institution	Budget
<u>SMALL GRAINS</u>	
Bishop, Guy W. Department of Plant, Soil and Entomological Sciences University of Idaho R & E Center Parma, Idaho 83660	\$73,000
Pike, Keith Department of Entomology Washington State University Irrigated Agriculture R & E Center Prosser, Washington 99350	

Carroll, T. W. Department of Plant Pathology Montana State University Bozeman, Montana 59717	25,000
Brewer, J. Wayne Department of Entomology Montana State University Bozeman, Montana 59715	

Wyatt, S. D. Department of Plant Pathology Washington State University Pullman, Washington 99164-6430	32,000

Qualset, Calvin O. Department of Agronomy and Range Science University of California, Davis Davis, California 95616	60,000

Table B (continued)

Page 3

Principal Investigator(s)/Institution	Budget
<u>TREE FRUITS</u>	
Burts, E. C. Department of Entomology Washington State University Pullman, Washington 99164-1030	\$30,000
Westigard, P. H. Department of Entomology Oregon State University Corvallis, Oregon 97331	
van de Baan, H. Department of Entomology Oregon State University Corvallis, Oregon 97331	
----- Croft, Brian Department of Entomology Oregon State University Corvallis, Oregon 97331	30,000
Flexner, Lindsey Department of Entomology Oregon State University Corvallis, Oregon 97331	
----- Lindow, Steven E. Department of Plant Pathology University of California Berkeley, California 94720	20,000

Principal Investigator(s)/Institution	Budget
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RANGE

Powell, J. Department of Range Management University of Wyoming Laramie, Wyoming 82071	\$56,800
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Dr. K. C. McDaniel Department of Range Science Box 3-1 New Mexico State University Las Cruces, New Mexico 88003	61,000
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Dr. E. W. Huddleston Department of Entomology and Plant Pathology New Mexico State University Las Cruces, New Mexico 88003	
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Dr. J. M. Fowler Department of Ag Economics and Ag Business New Mexico State University Las Cruces, New Mexico 88003	
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Dr. L. A. Torell Department of Ag Economics and Ag Business New Mexico State University Las Cruces, New Mexico 88003	
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Dr. John L. Capinera Department of Entomology Colorado State University Fort Collins, Colorado 80523	\$46,300
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Dr. Charles D. Bonham Department of Range Science Colorado State University Fort Collins, Colorado 80523	
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Dr. E. T. Bartlett Department of Range Science Colorado State University Fort Collins, Colorado 80523	
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5597111

Table C. List of proposals pending.

Proposal number	Title	Investigator(s)	Budget [*]
<u>ALFALFA</u>			
21	The interactive effect of <i>Meloidogyne hapla</i> and <i>Phytophthora megasperma</i> on <i>Rhizobium</i> nodulation, nitrogen fixation, yield, and mortality of <i>Phytophthora</i> resistant and susceptible alfalfa	Griffin, G. D. Crops Research Laboratory Utah State University Logan, Utah 84322 Gray, F. A. Plant Science Division University of Wyoming Laramie, Wyoming 82071 Johnson, D. A. Crops Research Laboratory Utah State University, UMC-63 Logan, Utah 84322	\$40,000 (year 1) 36,000 (year 2) 37,000 (year 3) \$113,000
25	Interaction of fusaria and stem nematode in accelerated alfalfa crown rot and stand decline	Brown, William M. Department of Plant Pathology and Weed Science Colorado State University Fort Collins, Colorado 80523	\$12,700 (year 1) 12,700 (year 2) 12,700 (year 3) 38,100
26	Impact of winter annual and summer grass weeds on decline of irrigated established alfalfa stands	Norris, Robert Francis Department of Botany University of California Davis, California 95616	\$40,419 (year 1) 43,826 (year 2) 47,740 (year 3) 131,985
24	Development of germ plasm lines of alfalfa with resistance to multiple pathogenic agents including <i>Stagonospora</i> root and crown rot, <i>Phytophthora</i> root rot, and <i>Meloidogyne</i> spp.	Erwin, Donald C. Department of Plant Pathology University of California Riverside, California 92521	\$16,336 (year 1) 17,183 (year 2) 33,519

Table C (continued).

Proposal number	Title	Investigator(s)	Budget [*]
<u>ALFALFA (continued)</u>			
20	Fusarium crown rot of alfalfa: toxigenic activity of the pathogens and utilization in alfalfa cell culture selection	Knous, Ted R. Department of Plant Science University of Nevada Reno, Nevada 89557	\$15,000 (year 1) 15,000 (year 2) 15,000 (year 3) <u>\$45,000</u>
15	Development, mortality, and feeding of Egyptian alfalfa weevil, <i>Hypera brunneipennis</i>	Summers, C. G. Department of Entomological Sciences University of California Berkeley, California 94720 Smith, G. IPM Implementation Group University of California Davis, California 95616	\$19,960 (year 1) 10,603 (year 2) <u>30,563</u>
<u>POTATOES</u>			
29	Development of biological systems effective in controlling pathogens involved in early dying of potatoes	Gross, Dennis C. Department of Plant Pathology Washington State University Pullman, Washington 99164-6430	\$39,900 (year 1) 39,990 (year 2) 39,955 (year 3) <u>\$119,845</u>
10	Impact of potato culture modifications on vector colonization and potato leafroll spread	Cranshaw, Whitney S. Department of Entomology Colorado State University Fort Collins, Colorado 80523	20,950 (year 1) 21,950 (year 2) <u>42,900</u>

Table C (continued).

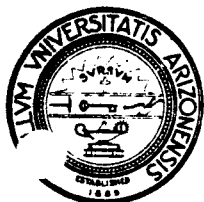
Proposal number	Title	Investigator(s)	Budget [*]
7	Development and implementation of a system for screening potato clones for their susceptibility to leafroll and aphid species for their ability to colonize and spread leafroll in the San Luis Valley	Davidson, Rob San Luis Valley Research Center Center, Colorado 81125	\$ 4,500 (year 1) 4,500 (year 2) 2,000 (year 3) <u>\$11,000</u>
<u>TREE FRUITS</u>			
35	Development of a decision support system (DSS) for integrated pest management (IPM) on tree fruit crops in the western region	Croft, B. A. Department of Entomology Oregon State University Corvallis, Oregon 97331 Hatch, A. H. Utah State University Logan, Utah 94322 Nelson, E. E. Colorado State University Grand Junction, Colorado 81503 Johnson, R. S. University of California Parlier, California 93648 Thompson, S. V. Utah State University Logan, Utah 84322	35,000 (year 1) 23,000 (year 2) <u>58,000</u>
51	Immigration of codling moth from external point sources to apple orchards	Brunner, Jay F. Department of Entomology Washington State University Pullman, Washington 99164-1030	\$14,610 (year 1) 15,628 (year 2) 16,172 (year 3) <u>\$46,410</u>

Table C (continued).

Proposal number	Title	Investigator(s)	Budget [*]
<u>TREE FRUITS (continued)</u>			
50	Developing and extending decision support system software for tree fruit	Zalom, Frank IPM Implementation Group University of California Davis, California 95616	\$29,478 (year 1) 38,552 (year 2) 36,607 (year 3) <u>\$104,637</u>
		Rice, Richard Department of Entomology University of California Davis, California 95616	
38	Acaricide resistance in the McDaniel mite and its predators, implications for IPM programs on apples and pears	Brindley, William A. Department of Biology, UMC 53 Utah State University Logan, Utah 84322	31,085 (year 1) 32,147 (year 2) 34,675 (year 3) <u>97,907</u>
44	Origin and distribution of <i>Phytophthora</i> spp. immigrating into apple orchards planted on virgin soil in Arizona	Matheron, Michael E. Department of Plant Pathology University of Arizona Yuma, Arizona 85364	14,800 (year 1) 30,355 (year 2) 27,109 (year 3) <u>72,244</u>
43	Behavioral modification of tree fruit nematode pests resulting from sublethal nonfumigant nematicide stress	Viglierchio, D. R. University of California Davis, California 95616	46,800 (year 1) 43,407 (year 2) <u>90,207</u>

* Proposed budget - not approved.

Note: Excludes range (reviews not complete at this time)

APPENDIX C

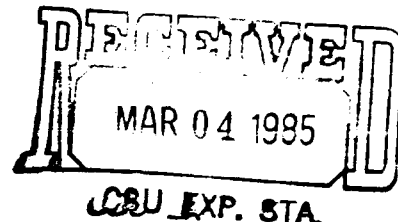
THE UNIVERSITY OF ARIZONA

TUCSON, ARIZONA 85721

COLLEGE OF AGRICULTURE

February 27, 1985

DEPARTMENT OF SOILS,
WATER AND ENGINEERING
429 AGRICULTURAL SCIENCES BUILDING #38
(602) 621-1646



Memorandum to: Plant Water Stress Steering Committee

From: W. R. Gardner *W. R. Gardner*

Subject: Meeting Notes, etc.

Enclosed are the notes from our February 12 meeting as gleaned by Bob Reginato. The University of Arizona meeting facility has been sold and is not available. After confirming the unacceptably high prices for hotels and motels in the Phoenix and Tucson areas, we have concluded that the Lake Arrowhead site is the most acceptable. We have reserved the dates of April 29 to May 1, 1986, and are in the process of putting down a \$2400 advanced deposit. This deposit is fully refundable up to 120 days prior to the meeting, which gives us a bit of time to make sure that we are going through with it. I am enclosing some information supplied by the Conference Center so you can evaluate its suitability. We are reserving space for 80 participants.

You will note that the day runs from 3:30 p.m. until 1:00 p.m. This will dictate a modest shift in our schedule but does not appear to present an unsurmountable problem.

We trust that your contacts are developing well and that at our April Steering Committee meeting we will be able to solidify the arrangements sufficiently to know what we will truly be able to organize.

WRG:jer

cc: Reginato

The Plant-Water Stress Steering Committee met on 12 Feb 85 at the U.S.

Water Conservation Laboratory, Phoenix, AZ. Those attending were:

Bob Heil	- Administrative Advisor, Colorado State University
Van Volk	- CSRS Representative, Washington, D.C.
Wil Gardner	- University of Arizona
John Hanks	- Utah State University
Ted Hsiao	- University of California, Davis
Gene Maas	- ARS, Riverside, CA
Jerry Quisenberry	- ARS, Lubbock, TX
Rob Reginato	- ARS, Phoenix, AZ

The main purpose of the meeting was to develop plans for a Plant-Water Stress Workshop, and the following report outlines our efforts:

WORKSHOP OBJECTIVE:

To benefit scientists and interested administrators by discussing developments, problems and opportunities in the area of plant-water stress at the molecular, cellular and whole plant level. Genetic engineering holds immense promise in enhancing plant performance under water limiting conditions. Before we can modify plants rationally by molecular means to improve adaptation to water stress, however, we must understand what physical or physiological parameters trigger the metabolic and physiological alterations in the plant. We also must know how these modifications orchestrate into overall adaptive behavior, and how they culminate in changes in productivity in yields.

QUESTIONS TO BE ADDRESSED:

1. What are the most promising new areas of research in plant-water stress?
2. Where are the knowledge gaps in these areas?
3. What must we do to integrate our understanding of plant-water stress from the molecular level through an entire plant community?

STRUCTURE OF WORKSHOP:

It was decided to examine plant-water stress at three distinct levels of observation: molecular, cellular and whole plant. The above three questions will be posed at each of the three levels. Presentations will be by three speakers and a moderator in each of the three topic areas. They will put forth new ideas and concepts, hopefully, many not yet in print. A few invited individuals will actively participate in the discussions, but will not give formal presentations. Others who wish to attend the workshop will be allowed to do so depending on the availability of space. A wrap-up speaker(s) will be chosen to present a talk(s) on how he/she would envision the information in the three topic areas could be integrated for the benefit of studies of plant communities. At the end of the workshop, the moderator and one member of the steering committee will be responsible for preparing a brief written summary of the topic discussed.

FORMAT:

Tentatively, the workshop will be organized as follows:

Tuesday AM - Welcome & Introductions
Purpose of Workshop
Keynote Speaker
Begin Technical Session #1

PM - Conclude Session #1

Wednesday AM - Technical Session #2

PM - Technical Session #3

Thursday AM - Wrap-up Speaker(s)

PM - Write Topic Summaries

Plant-Water Stress Steering Committee

2/12/85

Proposal Due end of March for Conference

Western Directors Meeting (see memo #1)

*11,000 available for conf.

should be a national Conf.

Molecular

Boyer

Dick Jensen - UA

Matsuda - UA

Hansen - MSU

* Nieman

Justin Roberts

Mark Mathews - UCD

Cellular

Boyer

Hsiao

* Burke

Cleland

Dan Cosgrove

Organism (Plant)

Boyer

Hinkley

Hsiao

Nabors

Geoshel

Doug Johnson

Krieg

Wayne Jordan

* Sullivan

Easton

* Sinclair - FI

* Huck

Community (field) / Summatio

Hsiao

Bob Loomis

Sullivan

Tom Sinclair

Easton

Joe Berry

Derek Oosterhuis - Ark

Hanks

Hal Mone

* Jackson - Phoenix

* Hatfield, Jerry

Hinckley

Doug Johnson



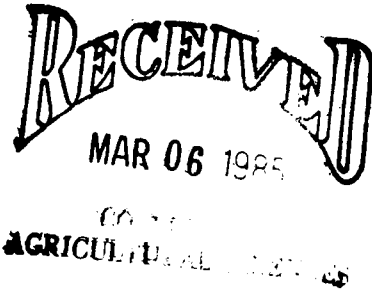
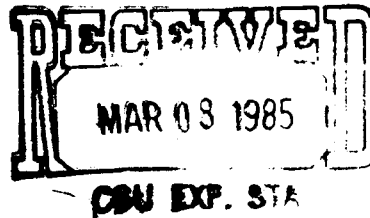
United States
Department of
Agriculture

Cooperative
State Research
Service

Office of the
Administrator

Washington, D C
20250

FEB 04 1985



Director James R. Welsh
Agricultural Experiment Station
Montana State University
Bozeman, Montana 59715-0002

Dear Director Welsh:

As a follow-up to the request of the Western Directors' Association at their November meeting for a CSRS representative to the Plant-Water Stress Steering Committee, we are naming Dr. Van Volk to this assignment. He is familiar with the committee and ready to make immediate contribution.

Sincerely,

C. I. HARRIS
Associate Administrator

cc:

J. P. Jordan
V. Volk
M. Mayes
E. Cobb
W. Carlson
Jill Moak (CA)
L. Boyd (WA)
M. H. Niehaus (NM)

APPENDIX DMANAGEMENT INITIATIVES

Today's Agricultural Research Service (ARS) is a lean organization. One layer of program and administrative management has been abolished--the Regional offices. Eleven Area Directors report directly to Dr. Terry B. Kinney, Jr., Administrator, ARS, instead of 25 reporting to four Regional Administrators. ARS has allocated over 300 positions and \$12 million to high-priority research projects which were saved from overhead costs. ARS overhead costs have gone from 14 percent to 10 percent.

ARS is now a centrally managed organization. The National Program Staff (NPS) is responsible to Dr. Kinney for research planning, priority setting, program evaluation, and allocation of resources. In carrying out these responsibilities, they interface with the Area Directors and others, including university cooperators, action agencies, and private sector groups to develop credible recommendations.

The 6-Year Implementation Plan is being implemented through Annual Resource Management Plans prepared and submitted by the Research Leaders. Each of these plans is based on the allocation of funds by Dr. Kinney's office for specific projects. Every plan is reviewed, decisions made regarding program importance, and adjustments made in funding levels where necessary to provide adequate support to productive research units. Shifts in priorities, funds, or programs are approved by Dr. Kinney after review and recommendation by NPS. This includes all appropriated funds, reimbursements, and discretionary funds derived from salary lapse or other sources.

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Today's ARS is an organization which is accountable and one which works. Budget allocations are made directly to specific research projects. Every unit is held accountable for the use of those funds which are allocated against their approved Annual Resource Management Plan. Research scientists are accountable for the use of budgeted funds against specific research projects. With the changes mentioned above, ARS was able to recruit and hire 140 scientists last year, the highest number in several years, and reduce the recruitment time from about 18 months to a little over 4 months. These improvements in personnel administration have enabled ARS to increase the number of scientists engaged in hands-on research despite a reduction in the overall employment ceiling. Additionally, ARS continued to emphasize post-doctoral opportunities within the Agency. The ARS post-doctoral program now supports 50 post-doctoral scientists--an increase of 100 percent over last year.

Another important improvement resulted from the establishment of an Office of Cooperative Interactions to carry out ARS responsibility for technology transfer, patent activities and interactions with cooperators, government agencies and private industry. Dr. Bill Tallent heads up this office.

AGRICULTURAL RESEARCH SERVICE

This report contains excerpts from several of Dr. Kinney's presentations describing ARS policies, responsibilities, an outline of the budget request for the Agricultural Research Service (ARS) for 1986 and a report on progress that ARS has made on research supported by previous appropriations.

FY 1986 Budget Request

The ARS budget recommendation for 1986 reflects a net decrease of \$1.7 million and is comprised of \$5.5 million in increases for selected high-priority research projects and \$7.2 million in decreases resulting from planned management reductions and changes in pay rates. The ARS budget also proposes a rescission of certain 1984 and 1985 construction projects amounting to \$37.9 million.

The \$5.5 million in 1986 research program increases are primarily for the following high-priority projects:

- o Soil and Water Conservation. The 1986 proposed funding level of \$59.6 million includes a \$1 million increase to improve the technologies for natural resource inventories and to better understand chemical movement in ground water.
- o Plant Science. The 1986 proposed funding level of \$188.6 million includes a \$3 million increase for the following: (1) acquisition, maintenance, evaluation and enhancement of germplasm, (2) assume responsibility for the Germplasm Resources grant currently funded by the Cooperative State Research Service to support the clonal repository network, (3) increase support for the new gene expression center in Albany, California, and (4) support for the Caribbean Basin Initiative.

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- o Animal Science. The 1986 funding level of \$88.2 million includes a \$600 thousand increase for support of the Animal and Plant Health Inspection Service animal protection programs.
- o Commodity Conversion and Delivery. The 1986 level of \$90.3 million includes a \$500 thousand increase to expand the search for alternative quarantine treatments to replace the use of ethylene dibromide (EDB) and other fumigants on export crops.

The \$37.9 million proposed rescission would eliminate construction of unnecessary new research facilities. The facilities would add at least 80 scientist years of research capacity, even though the system has been operating well below capacity for years. The long-range annual operating costs for these facilities is estimated to be \$16 million and could only be met by an undesirable diversion of existing resources.

Responsibilities

The responsibilities of the Agricultural Research Service are:

- o To provide leadership and direction for the Nation's food and agricultural science system.
- o To conduct research that will ensure the long-term efficiency in performance of the Nation's agriculture production and marketing systems.
- o To conduct research in support of Departmental Action and Regulatory functions.

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- o To conduct research and technology-transfer programs that result in broad societal benefits and significant economic gain to the Nation.
- o To undertake high-priority research in the national interest to ensure perpetually an adequate supply of high-quality food and fiber for the American people and for export.

ARS is a problem-solving research organization. Our research is responsive to ongoing and immediate agricultural problems confronting the Nation's farmers (citrus canker, brucellosis, blue tongue, weeds, African bees, and others). But our research is also far ranging enough to provide new scientific solutions to major agricultural problems such as soil erosion and other environmental factors that reduce efficiency in agricultural production and have yet to be solved with present technology.

Research must encompass national goals identified for American agriculture:

- o Soil and water conservation.
- o Plant productivity.
- o Animal productivity.
- o Improved commodity conversion and use.
- o Nutritional soundness.
- o Development of agricultural systems that result in production efficiency and sustainability.

The primary role of the Agricultural Research Service is to solve high-priority national problems for agriculture.

Research Accomplishments

This past year has been an exciting year for ARS in several areas of research. A few of these accomplishments that are contributing in a major way to the solution of several critical agricultural problems are highlighted below:

Boll Weevil Eradication. Chemical signals or pheromones of boll weevils have been isolated, identified, and synthesized and early detection and treatment of this pest is now possible. Use of this technology enables cotton farmers in North and South Carolina to reduce production costs by over \$30 per acre.

Citrus Canker. Early and definitive detection and identification of the causative bacterium in the Florida outbreak allowed effective control and containment by the regulatory officials.

Trichinosis. Biotechnology tools were used in the development of a diagnostic test for trichinosis in swine without slaughter of the animals, thus saving the pork industry millions of dollars and paving the way for eradication in the U.S.

Resource Conservation. Conservation tillage systems continued to be improved, further reducing production costs and improving the control of erosion in many areas. Soil erosion was reduced 70 percent under conservation tillage as compared with conventional tillage in 11 years of testing in Mississippi. Slot mulching has virtually halted soil erosion on winter wheat fields in the Palouse hills of the Pacific Northwest.

Alternatives to EDB. Emergency development of physical treatments - hot and cold dips - has allowed the continued marketing and exporting of citrus, papaya, and other fruits. Further improvements are underway.

Plant Quarantine Inspection. A new instrument has been designed and built that detects fruit and other plant material in traveler's luggage. This equipment will be used at airports and other points of entry to reduce the chances of accidental introduction of exotic agricultural pests.

Brucellosis. Several new vaccines developed with biotechnology tools are being field tested. These offer considerable promise of providing effective immunity to this disease in cattle.

Leafy Spurge. New ways of using and applying herbicides have reduced costs and improved control. Two promising insect biocontrol agents are now being field tested.

Human Nutrition. Diet relationships to health are being continuously refined, i.e., potassium/blood pressure interrelationships, polyunsaturated fats and blood pressure, and fiber/cholesterol interrelationships have been further defined.

Soybean Productivity. New varieties resistant to lodging and disease were released. New rhizobium strains to improve nitrogen fixation and new irrigation technology have reduced costs and dramatically increased yields.

There are many other examples of accomplishments that contribute to the progress of science and agriculture.

Responding to Challenges

The general public, Congress, and user groups continuously challenge us to develop technologies to solve important problems. The needs are many, expectations are great, and resources limited. We cannot address all the needs at the same time but we are doing the best we can. We systematically and periodically evaluate the needs and make judgments and decisions on what research we can do. The ARS central management group annually reviews every project to make sure the hoped-for results are worth the investment of time and money and whether the objective is still of the highest priority. Such decisions frequently mean moving money and people around--an upheaval is never very popular with the people concerned. But this kind of central management and control is essential in a time of tight budgets and it is always appropriate in a public agency using public funds.

The Agricultural Research Service is the principal scientific research agency in the U.S. Department of Agriculture. Our facilities are located strategically across the major agricultural and range-land ecosystems and climate zones of the United States. ARS has the unique ability to bring research expertise to bear on the same national problem in several different geographic locations. Over 8,000 people are employed by ARS and about one-third of this number are scientists and engineers working in research. The remainder provide technical and administrative support. Since 1981, a successful concerted effort has been

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made to reduce both funds and personnel engaged in administrative and program management activities. One layer of overhead has been eliminated and management responsibility centralized at Headquarters. These actions have resulted in the redirection of more than \$12 million from management to high-priority research programs and improved program direction and accountability.

APPENDIX E

3/27/85

RESEARCH IMPLEMENTATION COMMITTEE REPORT

RIC met Tuesday, March 26, 1985, at the Ridpath Hotel in Spokane, Washington. Members present were: A. W. Hovin, M. J. Woodburn, M. H. Niehaus, L. J. Koong, R. R. Bay, C. I. Harris (for W. D. Carlson), W. G. Chace and J. E. Moak. Members absent: M. L. Cotner. Guests attending: L. L. Boyd, M. E. Mitchell, H. Sykes.

1.0 Regional Research Projects and Coordinating Committees Scheduled to Terminate September 30, 1985

- W-6 Introduction, Multiplication, Maintenance, Evaluation, and Cataloguing of Plant Germ Plasm
- W-84 Establish, Improve, and Evaluate Biological Control in Pest Management Systems
- W-112 Reproductive Performance in Domestic Ruminants
- W-132 Genotype-Environment Interactions Related to End-Product Uses in Small Grains
- W-133 Outdoor Recreation and Public Interest: Benefits and Costs in Federal and State Resource Planning
- W-135 Limiting Stress of Food Producing Animals to Increase Efficiency
- W-140 Energy in Western Agriculture -- Adjustments, Alternatives and Policies
- W-142 The Augmentation of Poultry Yield
- W-143 Nutrient Bioavailability -- A Key to Human Nutrition
- W-144 Development of Social Competence in Children
- W-157 Development of New and Improved Crops for Water Conservation in Arid Lands
- W-159 Consequences of Energy Conservation Policies for Western Region Households
- W-161 Integrated Pest Management for Semiarid Dryland and Irrigated Agroecosystems in the Western Region
- IR-2 The Interregional Program for Collecting, Maintaining and Distributing Virus-Free Tree Fruit Clones
- IR-6 National and Regional Research Planning, Evaluation, Analysis, and Coordination
- WRCC-1 Beef Cattle Breeding
- WRCC-24 Diseases and Pests of Grape Crops
- WRCC-25 Diseases and Pests of Landscape Plants
- WRCC-27 Potato Variety Development
- WRCC-28 Developing, Implementing, and Coordinating Research on Crop Loss Appraisals
- WRCC-37 Maximizing the Effectiveness of Bees as Pollinators of Agricultural Crops
- WRCC-39 Increased Efficiency in Sheep Production and Marketing of Lamb and Mutton
- WRCC-40 Western Rangelands Research
- WRCC-47 Climatic Data and Analyses for Applications in Agriculture

and Natural Resources
WRCC-48 Predicting Nutritive Value of Alfalfa Hay
WRCC-49 Gene Modifying Techniques to Improve Plant and Associated
Microbe Germplasm

2.0 Requests for Project Extensions

2.1 W-140 Energy in Western Agriculture -- Adjustments, Alternatives and Policies

A request for a one-year extension of W-140 was received from Administrative Adviser D. L. Oldenstadt (WA).

RIC recommends project W-140 be extended for one year, from October 1, 1985 to September 30, 1986, with Dr. D. L. Oldenstadt (WA) to continue as Administrative Adviser.

(Action of WDA: APPROVED)

2.2 W-143 Nutrient Bioavailability -- A Key to Human Nutrition

A request for a one-year extension of W-143 was received from Administrative Adviser M. J. Woodburn (OR).

RIC recommends project W-143 be extended for one year, from October 1, 1985 to September 30, 1986, with Dr. M. J. Woodburn (OR) to continue as Administrative Adviser.

(Action of WDA: APPROVED)

2.3 W-159 Consequences of Energy Conservation Policies for Western Region Households

A request for a one-year extension of W-159 was received from Administrative Adviser R. R. Rice (AZ).

RIC recommends project W-159 be extended for one year, from October 1, 1985 to September 30, 1986, with Dr. R. R. Rice to continue as Administrative Adviser.

(Action of WDA: APPROVED)

3.0 Requests for Project Revisions

3.1 W-84 Establish, Improve and Evaluate Biological Control in Pest Management Systems

A revised project outline bearing the above title was received from Administrative Adviser L. G. Weathers (CA-R) on behalf of "W-84 Establish, Improve and Evaluate Biological Control in Pest Management Systems".

RIC recommends the W-84 project revision retitled "W-84 Biological Control in Pest Management Systems of Plants" be approved for five years, from October 1, 1985 to September 30, 1990. RIC further recommends with respect to Objective D, that the committee focus on the environmental and ecological impacts associated with biological control and seek additional expertise to evaluate the economic impacts. Finally, RIC requests the committee insert into the related current research section a brief discussion of any areas of apparent duplication before the outline is reviewed by the Committee of Nine.

(Action of WDA: APPROVED)

3.2 W-135 Stressors of Farm Animals and Their Effects on Performance

A revised project outline bearing the above title was received from Administrative Adviser L. J. Koong (NV) on behalf of "W-135 Limiting Stress of Food Producing Animals to Increase Efficiency".

RIC recommends the W-135 project revision retitled "W-135 Stress Factors of Farm Animals and Their Effects on Performance" be approved for five years, from October 1, 1985 to September 30, 1990, with Dr. L. J. Koong (NV) to continue as Administrative Adviser.

(Action of WDA: APPROVED)

3.3 IR-6 National and Regional Analysis, Evaluation, Planning and Financing of Agricultural Research

A revised project outline bearing the above title was received from western Administrative Adviser C. E. Clark (UT) on behalf of "IR-6 National and Regional Research Planning, Evaluation, Analysis, and Coordination".

On a vote of five to one, RIC recommends the proposed revision of IR-6 be denied for the following reasons: (1) unlike the other IR projects, RIC perceives IR-6 as a research activity rather than a service function worthy of off-the-top support; (2) the revised outline fails to address several of the concerns expressed by the Western Directors last spring (e.g., the types of research proposed); (3) the western RPG-6 review indicates concern with several aspects of the outline; and (4) the IR-6 advisory committee has failed to provide direction to the project resulting in insufficient input from the regional associations on the areas of research chosen or the scientists selected to conduct the research.

(Action of WDA: APPROVED)

4.0 Requests for Establishment of New Projects

4.1 W- Genetic Engineering to Improve Plant Health and Production Efficiency

3/27/85

A project outline bearing the above title was received from Acting Administrative Adviser L. W. Dewhirst (AZ) on behalf of "WRCC-49 Gene Modifying Techniques to Improve Plant and Associated Microbe Germplasm".

RIC believes this is an important area of research and one which needs to be encouraged, and therefore recommends "W- Genetic Engineering to Improve Plant Health and Production Efficiency" be approved for five years, from October 1, 1985 to September 30, 1990, with Dr. C. O. Qualset (CA-D) to serve as Administrative Adviser. RIC notes that this project is broad and diverse and relies on the Administrative Adviser to provide the necessary direction and guidance to the committee to prevent it from becoming a collection of individual projects.

(Action of WDA: APPROVED)

4.2 W- Predicting the Nutritive Value of Alfalfa Hay in the Western Region

A project outline bearing the above title was received from Administrative Adviser M. H. Niehaus (CO) on behalf of "WRCC-48 Predicting Nutritive Value of Alfalfa Hay".

RIC recommends the proposed project entitled "W- Predicting the Nutritive Value of Alfalfa Hay in the Western Region" be approved for five years, from October 1, 1985 to September 30, 1990, with Dr. L. J. Koong (NV) to serve as Administrative Adviser.

(Action of WDA: APPROVED)

4.3 W- Climatic Information for Agriculture and Natural Resources

A project outline bearing the above title was received from Administrative Adviser J. R. Welsh (MT) on behalf of "WRCC-47 Climatic Data and Analyses for Applications in Agriculture and Natural Resources."

RIC recommends the proposed project entitled "W- Climatic Information for Agriculture and Natural Resources" be denied. RIC thanks the committee for its efforts but believes the activities described in the proposal are more appropriately the function of a coordinating committee.

(Action of WDA: APPROVED)

5.0 Requests for Establishment of Ad Hoc Technical Committees

5.1 W- Livestock Management in Riparian Zones

A request for an ad hoc technical committee in the above-entitled area was received from Directors A. W. Hovin (MT) and C. C. Kaltenbach (WY).

RIC approves establishment of an ad hoc technical committee entitled "W- Livestock Management in Riparian Zones" to be effective for one year, from March 27, 1985 to March 27, 1986, with Dr. A. W. Hovin (MT) to serve as Administrative Adviser. RIC encourages the Adviser to conduct a wide solicitation of participation, including invitations to BLM and non-SAES forestry schools.

6.0 Requests for WRCC Renewals or Extensions

6.1 WRCC-1 Beef Cattle Breeding Research in Western Region

A request for a three-year extension of WRCC-1 was received from Administrative Adviser B. M. Jones (NV).

RIC recommends the extension of "WRCC-1 Beef Cattle Breeding Research in Western Region" for three years, from October 1, 1985 to September 30, 1988, with Dr. B. M. Jones (NV) to continue as Administrative Adviser.

(Action of WDA: APPROVED)

6.2 WRCC-24 Diseases and Pests of Grape Crops

A request for a three-year extension of WRCC-24 was received from Administrative Adviser D. L. McLean (CA-D).

RIC recommends the extension of "WRCC-24 Diseases and Pests of Grape Crops" for three years, from October 1, 1985 to September 30, 1988, with Dr. R. K. Webster (CA-D) to replace Dr. D. L. McLean (CA-D) as Administrative Adviser.

(Action of WDA: APPROVED)

6.3 WRCC-28 Developing, Implementing, and Coordinating Research on Crop Loss Appraisals

A request for a two-year extension of WRCC-28 was received from Administrative Adviser M. R. Nelson (AZ).

RIC recommends extension of "WRCC-28 Developing, Implementing, and Coordinating Research on Crop Loss Appraisals" for two years, from October 1, 1985 to September 30, 1987, with Dr. M. R. Nelson (AZ) to continue as Administrative Adviser. If the committee prepares a regional project proposal, RIC encourages it to solicit participants from a wide range of disciplines so the entire area of crop losses (including postharvest losses) can be surveyed before a final decision is reached on the most important researchable questions to include in a regional project.

(Action of WDA: APPROVED)

6.4 WRCC-37 Maximizing the Effectiveness of Bees as Pollinators of Agricultural Crops

A request for a three-year extension of WRCC-37 was received from Administrative Adviser R. D. Plowman (UT).

RIC recommends the extension of "WRCC-37 Maximizing the Effectiveness of Bees as Pollinators of Agricultural Crops" for three years, from October 1, 1985 to September 30, 1988, with Dr. R. D. Plowman (UT) to continue as Administrative Adviser.

(Action of WDA: APPROVED)

6.5 WRCC-40 Western Rangeland Research

A request for a three-year extension of WRCC-40 was received from Administrative Adviser A. W. Hovin (MT).

RIC recommends the extension of "WRCC-40 Western Rangeland Research" for three years, from October 1, 1985 to September 30, 1988, with Dr. W. A. Laycock (WY) to replace Dr. A. W. Hovin (MT) as Administrative Adviser effective November 1, 1985.

(Action of WDA: APPROVED)

7.0 Requests for Establishment of New or Ad Hoc WRCC's

7.1 WRCC- Effects of Taxation and Fiscal Deficits on the Structure and Long-term Economic Performance of Western Agriculture

A request for establishment of an ad hoc coordinating committee bearing the above title was received from Dr. G. Myer (NV), on behalf of the Western Agricultural Economics Council. Because the supporting materials on behalf of this request were not received in time for RIC action, RIC will defer consideration of this item.

7.2 WRCC- Policy Alternatives for Water Utilization in the Western United States

A request for establishment of an ad hoc coordinating committee bearing the above title was received from Drs. G. Myer (NV) and G. Dawson (NM) on behalf of the Western Agricultural Economics Council. The request was endorsed by Directors Koong (NV) and Dewhirst (AZ).

Because of apparent overlapping areas of interest with the proposed revision of project W-140 "Energy in Western Agriculture -- Adjustments, Alternatives and Policies", the request for establishment of an ad hoc coordinating committee in the above-entitled area was deferred. The Chairman of RIC was asked to contact Dr. Myer and suggest the Council send representatives to the planned W-140 revision meeting April 10-11 in San Francisco. If the researchers' interests cannot be accommodated by W-140, the Council should resubmit its request to RIC.

7.3 WRCC- Crop Production Using Living Mulches to Improve Soil and Weed Management Practices

A request for establishment of an ad hoc coordinating committee bearing the above title was received from Directors L. N. Lewis (CA) and R. E. Witters (OR).

RIC approves establishment of an ad hoc coordinating committee entitled "WRCC- Crop Production Using Living Mulches to Improve Soil and Weed Management Practices" for one year, from March 27, 1985 to March 27, 1986, with Dr. B. P. Warkentin (OR) to serve as Administrative Adviser.

8.0 Follow-up of Ad Hoc Technical and Coordinating Committees

8.1 W- Development of Marketing Strategies for Maximizing Returns to Alfalfa Producers in the Western United States (terminates 4/7/85)

Members of the ad hoc technical committee met November 29-30, 1984 in Reno. The committee has prepared a project outline and is soliciting the "principal investigator contribution" forms. The members plan to submit the outline by the June 1 deadline.

8.2 WRCC- Resistance and Resistance Management to Pesticides in Pests and Beneficial Organisms (terminates 8/1/85)

Members of the ad hoc coordinating committee met in Las Vegas February 7, 1985. A petition for a WRCC will be submitted by the June 1, 1985 deadline. The committee plans to prepare a project outline for submission in 1986.

9.0 Administrative Adviser Reassignments

RIC approved the following Administrative Adviser or technical committee representative reassignments, to be effective immediately unless otherwise noted:

IR-5 Research Information Using the Current Research Information System (CRIS) -- Mr. K. R. Stafford (ID) to replace Dr. B. A. McCarl (OR) as western region technical representative

WRCC-24 Diseases and Pests of Grape Crops -- Dr. R. K. Webster (CA-D) to replace Dr. D. L. McLean (CA-D)

WRCC-40 Western Rangeland Research -- Dr. W. A. Laycock (WY) to replace Dr. A. W. Hovin (MT) effective November 1, 1985

10.0 Other Business

10.1 WRCC Petitions Requested by RIC

10.1.1 WRCC-59 Influence of Microclimate and Nutrition on Physiological Responses of Poultry

A petition supporting the establishment of WRCC-59 and bearing the above title was received from Administrative Adviser G. H. Arscott (OR).

RIC recommends the petition entitled "WRCC-59 Influence of Microclimate and Nutrition on Physiological Responses of Poultry" be approved.

(Action of WDA: APPROVED)

10.2 WRCC-46 Ram Epididymitis (RE)

RIC received a response from Administrative Adviser L. D. Koller (ID) concerning the proposed incorporation of sheep foot rot into WRCC-46. The committee will attempt to incorporate both areas by holding back-to-back meetings of the interested researchers. RIC encourages the committee to proceed as proposed.

10.3 W-161 Integrated Pest Management for Semiarid Dryland and Irrigated Agroecosystems in the Western Region -- G. A. McIntyre

Project coordinator Dr. G. A. McIntyre (CO) discussed with RIC the technical committee's concern over RIC's suggestions approved at the summer 1984 WDA meeting for a proposed revision of the project.

RIC agrees not to require co-Administrative Advisers and separate write-ups for each commodity area provided that:

- 1) the outline is very specific about the research to be undertaken;
- 2) the outline conforms in every respect to the required format and guidelines;
- 3) the outline is shortened and much of the explanatory material contained in the last submission is synthesized;
- 4) specific sections on resident instruction be omitted from the outline since they cannot be well defined at this time; and
- 5) those commodity areas which have not yet defined research objectives be omitted from the outline while including a mechanism for their incorporation at a later date.

RIC expects to receive the revised outline by the June 1, 1985 deadline.

10.4 W-165 Rural Credit Systems in the West: The Role of Public Lending Programs

RIC received a response from W-165 concerning the two-year review conducted last summer. Upon recommendation of the original reviewer, Dr. M. L. Cotner, RIC requests the technical committee prepare a letter for RIC by June 1, 1985 detailing how the two subcommittees on business and agriculture will relate to the original project objectives dealing with the efficacy of public credit programs, economic development and distributive equity.

3/27/85

10.5 W-164 Postharvest Biotechnology and Quarantine Treatments for Insect Control in Horticultural Crops

RIC received a response from W-164 Administrative Adviser J. M. Lyons concerning the two-year review conducted last summer.

RIC recommends the committee continue until September 30, 1986 with the appointment of Dr. W. G. Chace (ARS, CA) as co-Administrative Adviser. At that time, a four-year review will be conducted which will determine whether the project should terminate or be continued for its fifth year. The lead- and co-Advisers should work closely together to insure the committee functions as a coordinated project.

10.6 Regional Publications -- A. W. Hovin

RIC Chairman Hovin presented some suggestions for clarifying the format for regional publications. After discussion, RIC decided to take no action.

11.0 Administrative Adviser Assignments

Attached is a list of the Administrative Adviser assignments as of March 27, 1985.

ADMINISTRATIVE ADVISER ASSIGNMENTS AS OF 3/27/85

Anderson, J.R. (CA-B)	W-130	McHugh, H.F. (CO)	W-153
**Arscott, G.H. (OR)	WRCC-59	**McIntyre, G.A. (CO)	WRCC-25
Boyd, L.L. (WA)	W-163, IR-2	Miller, R.J. (ID)	W-161, W-170
Briggs, D.M. (NM)	W-165, IR-5	Moreng, R.E. (CO)	W-142
	W-Alfalfa Mktg	**Nelson, M.R. (AZ)	WRCC-28
**Brink, K.M. (CO)	WRCC-11	Niehaus, M.H. (CO)	W-6, W-157,
Bulla, L.A. (WY)	WRCC-49		WRCC-48
Clark, C.E. (UT)	W-122, IR-6	Oldenstadt, D.L. (WA)	W-118, W-140
*Chace, W.G. (ARS, CA)	W-164+	Ozbun, J.L. (WA)	W-126
*Cox, H C (ARS, CA)	W-161+	**Plowman, R.D. (UT)	WRCC-37
Davis, J.R. (OR)	W-128, W-147+,	*Price, D.A. (ARS, OR)	W-151+, W-171
	W-155, WRCC-Resista	Qualset, C.O. (CA-D)	W- Genetic
**Davison, A.D. (WA)	WRCC-29	**Rasmussen, H.P. (WA)	WRCC-27
Dewhirst, L.W. (AZ)	W-102, W-151	**Reynolds, H.T. (CA-R)	WRCC-43
**Engibous, J.C. (WA)	WRCC-30	**Rice, R.R. (AZ)	W-144, W-159,
*Fasick, C.A. (FS, CO)	W-133		W-167
Foster, K.E. (AZ)	WRCC-21	**Rogers, L.F. (WA)	WRCC-55
**Garrett, R.E. (CA-D)	WRCC-51	Rolston, D.E. (CA-D)	IR-4
Heil, R.D. (CO)	W-160+, IR-7,	Schlegel, D.E. (CA-B)	W-134, W-158,
	WRCC-50,		W-168+, WRCC-20
**Hinds, F.C. (WY)	WRCC-39	Sherman, I.W. (CA-R)	WRCC-42
Hovin, A.W. (MT)	W-166, WRCC-40,	*Smith, D.R. (FS, CO)	WRCC-56
	W- Riparian	**Smith, O.E. (OR)	W-161+
Hughes, J.M. (CO)	W-133+, W-162	*van Schilfgaarde, J. (ARS, CO)	W-160,
*James, N.I. (ARS, OR)	W-147, IR-2+		WRCC-54
Jones, B.M. (NV)	W-145, WRCC-1	Ware, G.W. (AZ)	W-45, W-169
Kaltenbach, C.C. (WY)	W-112	**Warkentin, B.P. (OR)	WRCC- Mulches
Kefford, N.P. (HI)	W-82	Weathers, L.G. (CA-R)	W-84, W-110
*King, E.E. (ARS, CA)	W-168	**Webster, R.K. (CA-D)	WRCC-24
**Koller, L.D. (ID)	WRCC-46	**Weiser, C.J. (OR)	WRCC-17, WRCC-58
Koong, L.J. (NV)	W-135, W- Predict	Welsh, J.R. (MT)	W-106, W-150,
**Lee, G.A. (ID)	WRCC-52		WRCC-47
Lewis, L.N. (CA-S)	W-154	Wiese, M.V. (ID)	IR-1
Lyons, J.M. (CA-D)	W-164, WRCC-53	Witters, R.E. (OR)	W-132, W-171+
Matthews, D.J. (UT)	WRCC-23	Woodburn, M.J. (CO)	W-143, WRCC-57

* USDA research administrators

** Other research administrators

+ Designates Co-Administrative Advisor in a project with Co-Advisors

APPENDIX F

Director-at-Large Report
 Western Association of Agricultural Experiment Station Directors
 Ridpath Hotel, Spokane, Washington
 March 27, 1985

As all of you know, I believe, I will officially become your Director-at-Large on April 16, 1985. Agreements between WAAESD and WSU, WAAESD and me and WSU and me have been signed. Most, if not all of you know that I plan to operate out of the Agricultural Experiment Station at Colorado State University, Ft. Collins, Colorado. An agreement between WAAESD and CSU has not yet been signed, but should be completed within the next week. Because of the lack of availability of my temporary space at CSU, I will continue to operate from Washington State University until May 6, 1985. I anticipate being in permanent space at CSU in the Agricultural Experiment Station by January 1, 1986. I have been trying to function part time for you since the first of the year on an expenses only basis. I will list some of the specific activities below and include some information that I think will be useful to you from the other DALs.

1/14-16/85 Ft. Collins, Colorado

Met with Heil, Niehaus and others to work out details of space, support staff, purchasing of equipment, etc. There has been considerable telephone, dialcom and mail contact before and since.

1/23-24/85 ESCOP Special Initiatives Subcommittee

I had to cancel out on this because of WSU responsibilities. I quote Huston's report to North Central Directors: "The Special Initiative Committee, with Bob Gast as chair, seeks to explore future trends and opportunities in agricultural research. From that exploration will emerge topics that can become a part of the ESCOP planning and budgeting activities. The Subcommittee selected five topics for development: 1) robotics and related sensors, 2) groundwater, 3) farming systems, 4) agricultural policy primarily related to trade, and 5) post harvest technology with emphasis on value-added activities. The Subcommittee also reviewed a proposed ESCOP white paper on 'Computers in Agricultural Research'".

I will participate in the next Subcommittee meeting in Washington, D. C., April 10-11, 1985. I'd like your views on the above topics and any additional input you may have, so that I can fully represent you there.

1/29/85 DAL meeting and DAL/CSRS/NPS-ARS meeting at Beltsville

Zinn, Halpin and I met and the three of us with Jordan and Tallent in the a.m. In the p.m. we met at Beltsville. Huston was ill. The ESCOP Interim meeting was planned for this time, but was cancelled because the Executive budget was not yet released. I had to miss the rescheduled Interim meeting on February 14-15. Dewhirst attended.

2/8/85 DALs and Clive Donoho, Atlanta, Georgia

We assisted Clive in developing his recommendations for the NASULGC Division of Agriculture Budget Committee meeting on February 12, 1985. Attached are tables that Huston provided at that meeting that will be of interest to you.

DAL Report
March 27, 1985
Page 2

2/25-26 NARC and DAL meetings, Washington, D. C.
Helen McHugh's report covers the NARC meeting. ADD DAL

Future Activities

A copy of my work plan through December, 1985 is attached as I prepared it for the Executive Committee meeting last night. It undoubtedly will undergo revision from that interaction and several things will have to be added as they are scheduled. I anticipate sending you a revised work plan or having it available at the August meeting.

I need your input to represent you most effectively. Listed below are both some important information and some lesser details that I would like from each station:

- 1) Mission and goal statements.
- 2) Station magazine/house organ.
- 3) Vita for Directors, Associates, Assistants and others who are serving as Administrative Advisors and RPG members. I'd like to know as much as possible about the people I'm working with. I would prefer these by Dialcom or on 5 1/4" diskette in ASCII. I would like to file this information electronically.
- 4) Agricultural statistics from each of your states similar to the booklet from Washington that I have on display here at this meeting.
- 5) An indication of when you would like me to visit your state and the length of time needed. Please refer to the proposed work plan to see how many I believe I can work in each month.
- 6) Items you believe important for the DAL to handle. I will incorporate them in a revised work plan that I will bring to the summer meeting and will bring them to the attention of the Executive Committee.
- 7) Names of support staff in your office that I will need to interact with, especially your head secretary, and probably your financial officer.

I look forward to working with and for you. Thanks for selecting me.

Respectfully submitted,

LLB/lb
3/25lb(1bcom)

**Executive Budget Recommendations
FY 1986
(\$ millions)**

I. USDA: Research and Education

<u>Agency</u>	<u>1985</u> <u>(\$)</u>	<u>1986 Change</u> <u>(\$)</u>	<u>%</u>
ARS	489	- 2	- 0.5
ERS	47	- 2	- 4.3
FS-Research	120	- 16	-13.3
NAL	11	0	0
 Intramural	 667	 - 20	 - 3.0
CSRS	292	- 41	-14.0
ES	343	- 78	-22.7
 Extramural	 635	 -119	 -18.7

II. R&D in Major Departments and Agencies

<u>Agency</u>	<u>1985</u> <u>(\$)</u>	<u>1986 Change</u> <u>(\$)</u>	<u>%</u>
Defense	32,318	+7,108	+22.0
HHS	5,472	- 313	- 5.7
(NIH)	(4,835)	(-274)	(-5.7)
Energy	4,805	- 93	- 1.9
NASA	3,506	+ 224	+ 6.4
NSF	1,354	+ 93	+ 6.9
(Bio. Sciences)	(197)	(+13)	(+6.7)
Agriculture	940	- 58	- 6.2
Transportation	480	- 118	-24.6
Interior	378	- 43	-11.4
EPA	312	+ 15	+ 4.9
Commerce	384	- 113	-29.4
AID	217	+ 8	+ 3.7
Veterans Adm.	227	- 37	-16.3
Nucl. Reg. Com.	150	- 12	- 8.0
All Others	417	- 21	- 5.0
 Total	 50,958	 +6,640	 +13.0

153

Table 7
Competitive Research Grants
Proposals Submitted and Grants Awarded in Fiscal Year 1983

Fiscal Year
1984 Est.

	<u>Proposals Received</u>	<u>Dollars Requested</u>	<u>Grants Awarded</u>	<u>Dollars Awarded</u>
Plant Biology				
Biological Stress	271	\$40,113,242	64	\$4,082,046
Genetic Mechanisms	203	39,092,709	46	4,018,270
Nitrogen Fixation	126	21,298,004	40	3,212,792
Photosynthesis	135	21,825,141	47	3,207,792
Subtotal	<u>735</u>	<u>122,329,096</u>	<u>197</u>	<u>14,520,900</u>
Human Nutrition				
Nutrient Requirements	<u>174</u>	<u>37,987,042</u>	<u>22</u>	<u>1,936,120</u>
TOTAL	909	160,316,138	219	16,457,020
	<u>Proposals Received</u>	<u>Dollars Requested</u>	<u>Grants Awarded</u>	<u>Dollars Awarded</u>
Land-Grant Universities	623	\$103,385,197	146	\$11,098,950
SAES	(496)	(77,056,645)	(109)	(8,156,050)
Non-SAES	(127)	(26,328,552)	(37)	(2,942,900)
Land-Grant 1890	4	759,261	--	--
Private Universities	90	20,128,723	32	2,336,370
Other Public Universities	99	21,265,798	16	1,286,700
Federal Laboratories	3	560,303	--	--
USDA/ARS	42	6,319,312	8	642,500
Private Non-Profit	35	5,620,545	16	1,024,500
Private Profit	8	1,272,924	--	--
State and Local Agencies	4	935,045	1	68,000
Other Public Foundations	--	--	--	--
Veterinary Colleges	1	69,030	--	--
TOTAL	909	160,316,138	219	16,457,020

42,203
33,178
5,529,600
230,400
5,760,000

243

Question: What percentage of the competitive research grants go to the traditional agricultural research institutions; to non-land grant institutions; to private institutions? Do you have this information broken out by the areas of competitive grants—plant science, human nutrition?

Answer: The following tables provide this information.

Plant Science Research

	<u>Grants Z</u>	<u>Grants Awarded</u>	<u>Dollars Awarded</u>
Land-Grant Universities	65	129	\$9,540,830
SAES	(49)	(97)	(6,967,930)
Non-SAES	(16)	(32)	(2,572,900)
Private Universities	15	29	2,096,370
Other Public Universities	8	16	1,286,700
USDA/ARS	4	8	642,500
Private Non-Profit	8	15	954,500
State and Local Agencies	—	—	—
TOTAL	100	197	14,520,900

Human Nutrition Research

	<u>Grants Z</u>	<u>Grants Awarded</u>	<u>Dollars Awarded</u>
Land-Grant Universities	78	17	\$1,558,120
SAES	(55)	(12)	(1,188,120)
Non-SAES	(23)	(5)	(370,000)
Private Universities	14	3	240,000
Other Public Universities	—	—	—
USDA/ARS	—	—	—
Private Non-Profit	4	1	70,000
State and Local Agencies	4	1	68,000
TOTAL	100	22	1,936,120

Question: Please provide for the record a listing of the competitive grants awarded last year -- to whom, location, areas of research, and amount of grant.

Answer: We will provide a list of Competitive Research Grants awarded in fiscal year 1983.
[The information follows:]

Work Plan for L. L. Boyd as WDAL
March 27, 1985

MONTH	DATE(S)	ACTIVITIES
April	8	Ft. Collins-moving arrangements
	9-11	Washington, D.C.-DAL and ESCOP Special Initiatives meetings
	12	Western Deans/Directors meeting in Reno
	16	Begin WDAL role full time from Pullman until 5/6/85
	28-30	ESCOP meeting in Baltimore
		Follow up on March RIC and WDA meeting actions
May	1	ESCOP meeting in Baltimore
	3-4	Moving
	20-23	Committee of Nine, Washington, D. C.
	29	Possible DAL meeting, Washington, D. C.
		Settling into the CSU office/familiarization with information
		Follow up on March RIC and WDA meetings
		Planning for August RIC, WDA and Administrative Advisors Workshop
		Trip to Montana to work with Chairman Welsh
June		Trips to two states, probably California and one other
	23-26	ASAE meeting, East Lansing, Michigan, if possible
July	22-23	ESCOP Interim meeting, Denver
		Trips to two states-to be selected
August	5-8	RIC, WDA and Administrative Advisors Workshop, Logan, Utah
		Follow up on RIC, WDA and Administrative Advisor Workshop as needed
		Trips to two states-to be selected
September	9-11	Committee of Nine meeting, location unknown
	12	NARC meeting, Washington, D. C.
	15-19	ESCOP meeting in Mississippi (tentative dates)
		Trip to one state-to be selected
		Vacation-some may be in late August
October	1-2	NISARC meeting in Washington, D.C.
		ARI meeting, if in conjunction with NISARC
		Follow up on ESCOP meeting
		Preparation for NASULGC/WDA/ESCOP meetings, Washington, D.C.
		Trip to one state-to be selected, possibly two
November	10-13	NASULGC/WDA/ESCOP meetings, Washington, D.C.
		Follow up on NASULGC/WDA/ESCOP meetings
		Trip to one state-to be selected
		Vacation around Thanksgiving
December	2-4	Committee of Nine meeting,
	10-13	ASAE meeting, Chicago, Illinois
		Vacation around Christmas

APPENDIX G

Cooperative State Research Service
 Report to
 Western Experiment Station Directors
 Spokane, Washington
 March 26-28, 1985

1. FY 1986 Budget. Details of our FY 1986 budget have been distributed to all cooperators. A summary of the overall budget for research and development has been prepared by the Office of Science and Technology Policy. It quotes Dr. Keyworth as saying that because of the recent increases in support for basic research it will not significantly interrupt that momentum. However, he goes on to point out that he is concerned about long-term fragility of America's leadership in science. Among the more important opportunities we have to tell our story are the annual appropriations hearings. I appeared before the Senate Subcommittee on March 12 and will be testifying in the House on March 28.

2. Personnel. Dr. Cobb's appointment as Deputy Administrator for Plant and Animal Sciences was approved effective February 17, 1985. We are extremely pleased to have Dr. Ted Wilson with CSRS. In addition to working with the animal science program, he will be assuming responsibilities as Acting Deputy Administrator for Regional Research and Special Grants. We also will be looking to Dr. Wilson to strengthen our liaison role with Extension Service. Dr. Bill Carlson has become increasingly involved with the planning and budgeting activities in CSRS. We have been extremely pleased with his assistance in this area. However, he is also branching out into a support role for Dr. Kendrick as Acting Associate Administrator for the Office of Grants and Program Systems. The closing date for applications for the Animal Geneticist position is March 31, 1985. This is a senior level position and we would appreciate your assistance in identifying competent applicants. Applications are in for the Deputy Administrator for Natural Resources, Food and Social Sciences. The Qualifications Review Board has provided us with a certificate of highly qualified candidates and we plan to move expeditiously to interviews.

3. The National Agricultural Library and State Agricultural Publications. The NAL is attempting to provide a means of insuring the availability of all State agricultural publications. Emphasis would be on assigning responsibility to the individual States, but with indexing and back-up materials provided by the NAL. Joe Howard, Director of NAL, has indicated that he will need a commitment from the SAES to make copies of all publications available to the NAL to insure complete indexing. The NAL may be contacting you in this regard in the near future.

4. US/USSR Technical Exchange. A Soviet delegation was in the United States this winter to discuss reopening of activities under the US/USSR agricultural agreement. Plans are being made to develop exchange activity in four areas relating to research and technology: (1) Biological Control of Pests, (2) Plant Germplasm, (3) Soil Science Research, and (4) Animal Health Research. Dr. Ray Miller, Idaho, has agreed to serve as a focal point for the US/university community. It is expected that a working group will be meeting in Moscow in late May to agree on details for a program of exchange.

5. The New Biotechnologies. The Competitive Grants program for biotechnology is described in the solicitation for proposals dated January 16, 1985. The Biotechnology Committee of the Division of Agriculture played a strong role in developing these guidelines. We are optimistic that a strong program of research will result. An important issue in the biotechnology arena is that of regulatory responsibilities and needs. USDA is working closely with other Federal agencies to develop a rational policy for controls on research and also introduction of products that come from research in the new biotechnologies. In response to concerns about the introduction of products of Recombinant DNA research, USDA is seriously exploring the possibilities for a Biological Impact Assessment program. This also is being pursued under the guidance of the Division of Agriculture's Biotechnology Committee. This approach has been well received within the scientific community and necessary resources to move ahead must be found. The Agricultural Research Service has proposed that, under the National Environmental Policy Act, it would prepare an environmental assessment for research that involves introduction, field evaluation, and release into the natural environment of introduced biological control agents or other beneficial organisms beyond their natural habitat range. This was a proposed statement for comment and the final version has not been issued.

6. Salary Increases Greater than Hatch Increases. A question has been raised about how the various States handle the salary increases when they exceed the increase from Federal funds. Some States can make up the difference for people whose salary is provided through Hatch funds, while some others cannot. The question is, would it be useful for ESCOP to conduct a survey of the various States with regard to how they handle this issue.

7. Diet and Health. The current interest in diet and health has led to a number of studies on the topic. The USDA is in the process of negotiating a study with the Board on Agriculture of the National Research Council to look at the possibilities for improving the diet in terms of quantity and quality of fat. Special emphasis would be placed on animal products. Related studies are also being undertaken by CAST, CSRS, ARS, and ES.

8. Farm Bill Update. Hearings on Title XIV proposals for the 1985 Farm Bill are scheduled for Congressman Bedell's Subcommittee on Department Operations, Research and Foreign Agriculture on March 27. A significant change has been proposed by USDA that would amend the Research Facilities Act of 1963 to permit greater flexibility, including support for equipment. We sent you a copy of the proposed wording with a recent station letter.

Respectfully submitted,



JOHN PATRICK JORDAN
Administrator

APPENDIX H

Report to the
WESTERN ASSOCIATION OF AGRICULTURAL EXPERIMENT STATION DIRECTORS
from the
NATIONAL AGRICULTURAL RESEARCH COMMITTEE

The National Agricultural Research Committee met in Washington, D. C. on February 25 and 26, 1985. Because of a scheduling conflict with the annual meetings of two professional societies, Helen McHugh was able to attend on the first day of the NARC meeting; L.L. Boyd attended the entire meeting.

The Committee received a briefing from Paul O'Connell who had provided major staff support for the interdepartmental committee which prepared the report on RESEARCH that was background for the department's version of the 1985 Farm Bill. A summary entitled Options for Research (attached) was distributed.

The Executive Secretary to the Joint Council for Food and Agricultural Sciences and the Staff Leader for the Joint Council Reports updated the committee on pending issues. The major summation related to the mandated reports is:

1. needs assessment (infrequent) completed last year
2. five-year plan -- periodically updated (schedule attached for version due in February 1986)
3. annual priorities (regional council and the three functional committees contribute recommendations -- 1987 timetable attached)
4. accomplishments reports (related to the appropriate priorities report; that is, the 1985 accomplishments report will focus on the 1985 priorities) NOMINATIONS FOR INCLUSION MUST REACH THE CO-CHAIRMEN OF WARC BY May 1st (examples for narrative attached)

The major activity related to identifying the priorities for research to recommend for consideration by the Joint Council. Recommendations from the four regions had been consolidated. These were reviewed and revised and then ranked. The titles were substantially rewritten and the short statements related to each title were edited. The final rankings by the Committee are attached.

Considerable discussion was given to the organization and presentation of the data ~~for~~ research projections. Several handouts pertain to the grouping of the data, the analysis according to geographic areas and sample tables that would result. Copies of these handouts are provided for your information (RPA vs. MRA: regional agricultural characteristics; National Trend Tables: Table I and Table II.)

Helen F. McHugh
March 14, 1985

Ideas that are now
 DRAFT *incorporated*
 11/28/84 *with Farm*
 REVISED *Bill*
(also from Fed Bank)

Options for Research

1. Today's supply-demand picture suggests a revised emphasis for performers of agricultural research.
 - Emphasize farm profitability rather than yield improvement i.e., through cost reducing technologies, improved pest and drought resistance, finding new uses for agricultural products, and more efficient marketing and management approaches.
 - Increase R&D investment in opportunities made possible by recent breakthroughs in molecular biology and computer technology.
 - Improve the linkage between production agriculture and changing human nutrition requirements i.e., through the development of plants and animals that more closely satisfy accepted human nutrition standards.
 - Provide additional scientific information for enhancing a safe and efficient regulatory system.
 - Expand efforts in incorporating water and soil saving technologies into current production practices.
 - Develop chemical systems that are more highly targeted to their beneficial consequences and which cause fewer environmental hazards.

2. Expand cooperative relationships between federal, university, and private performers of agricultural research.
 - Continue to nurture the federal-state partnership that provided the scientific foundation for a highly effective and efficient U.S. agricultural enterprise.
 - Enunciate missions for federal, university, and private performers of agricultural R&D that are mutually supportive.
 - Clarify understanding of roles
 - Relate missions to an end purpose
 - Continually evaluate effectiveness
 - Provide the means for more exchange of knowledge, personnel, equipment, facilities, and collaborative projects.
 - Review patent and personnel policies
 - Examine antitrust concerns
 - High tech R&D requires updated equipment and facilities

- In cooperation with the private sector provide incentives for federal scientists to follow through on research results that have market potential.
 - Review research evaluation guide
 - Examine alternative incentive mechanisms
 - In high tech fields, such as biotechnology, support centers where public and private resources can be merged to address a specific scientific issue. i.e., bioprocessing engineering or applied microbiology.
 - Consider alternative models i.e., research parks and cooperative research centers
 - Establish time table for development of most promising technologies
 - Form a working partnership in the development of needed scientific talent for U.S. Agriculture.
 - Encourage private sector support of higher education
 - Provide incentives for molecular biologists and system analysts to address agricultural issues
 - Provide for retraining opportunities
3. Create an atmosphere of mutual understanding and trust between federal agencies, the general public, and the private sector on regulatory responsibilities of the federal government.
- Biotechnology guidelines and regulations must be harmonized throughout the federal government so that they promote scientific development and protect the public.
 - Clarify and simplify the path that a company with a new product would follow to meet federal health and safety requirements.
 - Standardize the risk assessment process used by different federal agencies.
 - Scientists and scientific institutions need to reduce their isolation from the community at large regarding the implications of current scientific investigations.
4. Promote more cooperation with the international scientific community
- Knowledge transfer and training programs provides a foundation for better trading partners.
 - U.S. benefits from scientific exchange--through sharing of data and germplasm and having access to better technologies i.e., fermentation, irradiation sterilization of food, and water use efficiency methods.
 - Clarification and modification of intellectual property laws are needed.

TIME TABLE

February 1986 Edition -- Five Year Plan

December 1984	Letter to National Committee and Regional Council Chairs from Drs. Bentley and Anderson inviting them to attend the Joint Council meeting February 28 - March 1, 1985 and requesting their inputs into the Five-Year Plan.
January 26, 1985	Letter to National Committees and Regional Councils with details of initial information needed from them in developing the Five Year Plan.
February and March	Meetings of the National Committees and Regional Councils.
February 28 March 1	Joint Council Meeting. Reports from National Committees and Regional Councils. Progress report on Five Year Plan. Special Categories to be identified.
March 5	Identification of individuals to be invited to revise and rewrite narrative in Subject Matter and Special Categories.
March 5 - 20	Initial contact of individuals above and their supervisors by T.H.B.
March 20	Official letter from Drs. Bentley and Anderson inviting individuals above to participate.
April 15	Initial inputs to Joint Council Reports Staff from National Committees and Regional Councils.
April 20	Submission of material received from National Committees and Regional Councils to coordinators of the Subject Matter and Special Category writing teams.
June 10	First draft of narratives prepared by writing teams submitted to Joint Council Reports Staff.
June 15 - July 15	Preparation of the first draft of the Five Year Plan by JCRS.
July 20	Mailing of first draft of Five Year Plan to National Committee and Regional Council Chairmen and to Joint Council Members.
August 7-9	Joint Council Meeting. Discussion of first draft of Five Year Plan.
Sept. 1	Resource projections due from NARC, NEC, NHEC
October 1	Final inputs from the National Committees and Regional Councils.
October 15	Second draft to Joint Council Members and to National Committees.
October 30	Comments received from JC members on Second draft.
Nov. 1 - 10	Penultimate draft of Five Year Plan prepared.
Nov. 10 - 20	Penultimate draft reviewed by JC Exec. Committee.
Nov. 20 - 30	Final draft prepared.
Dec. 1	Final draft to printer.
February 1, 1986	Five Year Plan published.

*From 1985 - Five-year Plan
1986 version will be mainly, fine tuning*

Subject-Matter Categories

Soil, Water, and Air

- Soil Productivity
- Conservation Technologies
- Weather Fluctuation and Air Pollutants
- Managing Water in Stressed Environments
- Water Quality

Forest, Range, and Wildlife

- Forest Management and Utilization
- Rangeland Management and Utilization
- Wildlife Habitat Enhancement

Crop Production and Protection

- Rising Costs of Crop Production
- Trend Toward Larger Farms

Animal Production and Protection

- Genetics and Breeding
- Reproduction Efficiency
- Nutrition and Feed Utilization
- Animal Health
- Housing, Environment, and Waste Handling

Processing, Marketing, and Distribution

- Marketing
- Processing and Packaging
- Storage and Handling
- Transportation Costs

Agriculture and Resource Policy

- International Markets
- Size, Cost, and Asset Distribution of Farms
- Natural Resources Policy and Environmental Issues
- Economic Stability Issues

Human Nutrition

- Nutrient Bioavailability and Food Composition
- Relationship of Nutrients to Performance
- Nutrition's Role in Aging and Health Maintenance
- Monitoring and Inventorying Food/Nutrient Consumption

Human resources devoted to agricultural science and education in the public sector total about 11,500 scientist-years in research, 17,000 full-time equivalents in extension, and 15,900 full-time equivalents in higher education.

Youth, Family, and Consumer Programs

- Human Resources Development
- Resource Management
- Consumer Programs

Community and Rural Development

- Economic Base Development and Maintenance
- Institutional Changes
- Community Environmental Issues

International Science and Education Programs

- Technology Transfer and Education
- Lagging U.S. Agricultural Technologies
- International Economic Conditions and Marketing

Special Categories

Scientific Expertise in Agriculture

- Quality of Higher Education
- Recruitment for the Food and Agricultural Sciences
- Information and Evaluation System for Higher Education

Biotechnology in Agriculture

- Genetically Modify and Regenerate Crops, Trees, and Livestock
- Understand and Manipulate the Functioning of Plants, Livestock, and Other Biological Organisms

Information Systems and Communication Technology

- Communication Technology
- Expertise in Communication Technology
- Systems Analysis

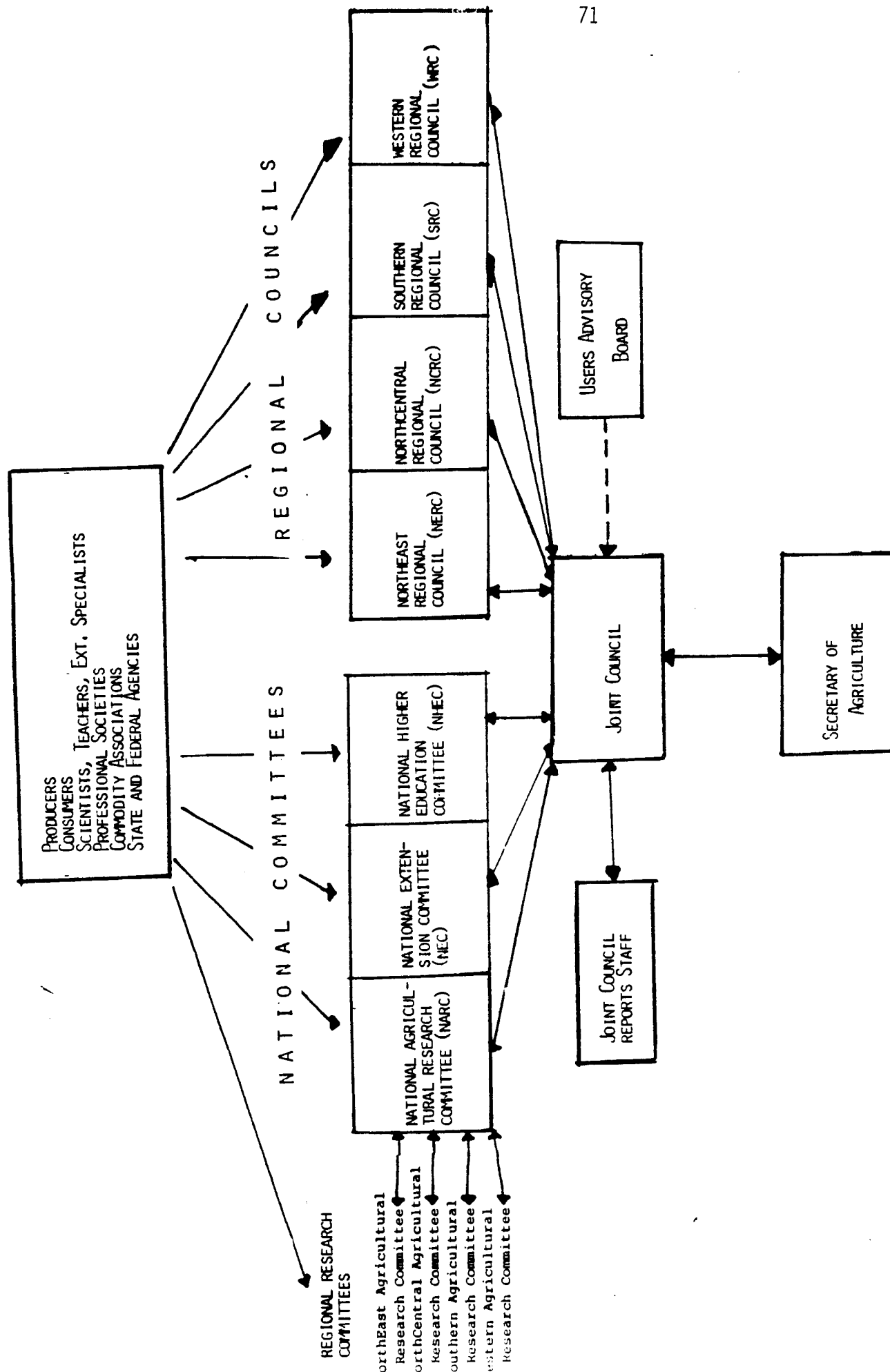
Equipment and Facilities

- State-of-the-Art Equipment
- Equipment Operation
- Instrumentation Needs for Training Students
- Facility Design and Locational Needs
- Facility Repair and Maintenance

TIME TABLE
FY 1987 PRIORITIES REPORT

September 13, 1984	Letter from JC Cochairs to Committees and Councils setting due dates for FY 1987 Priorities Report.
February & March, 1985	Meetings of Committees and Council to set priorities.
March 10	Consult with appropriate individuals (Hughes, Skelton and Loudon) about Priorities Report.
March 15	Priorities lists and narratives submitted by Committees and Councils to JC.
March 20	Approval secured to print Priorities Report.
April 1	Consolidated lists from Committees and Councils mailed to JC members for ranking.
April 20	Ballots with ranking of priorities returned by JC members to JC office.
April 30	Summary of priorities rankings by Joint Council Reports Staff.
May 1 - 3	Joint Council meeting. Priority rankings finalized.
May 4 - 12	Priorities Report prepared by JCRS. First draft completed.
May 12	First draft of report mailed to JC for review.
May 22	Comments on first draft received from JC members.
May 25	Second draft typed.
May 28	Second draft reviewed by JC Executive Committee.
May 31	Final draft to printer.
June 30	FY 1987 Priorities Report printing completed.
July 1 - 15	FY 1987 Priorities Report distributed to individuals, organizations, institutions and agencies.

SOURCES OF INPUT INTO AND DEVELOPMENT OF THE JOINT COUNCIL PRIORITIES REPORT



EXAMPLES OF NARRATIVES WHICH WILL BE USED IN ACCOMPLISHMENTS REPORT

1. Example of multi function/state/institution narrative (See Attachment #2, Tentative Outline for Accomplishments Report, Item F)

How Plants Resist Pest Attacks: Plants do not react passively when attacked by pests. Recent experiment station research in California, Washington, Montana, and Kentucky has shown that plants actively respond biochemically to insect attack. When wounded by insects, potatoes produce two biologically active proteinase inhibitors which are detectable in adjacent unwounded leaves within 4 hours. Similarly, tomatoes produce compounds that are active antibiotic agents against tomato fruitworm and beet armyworm. Western wheatgrass, when under stress, experiences an inhibition of deoxyribonucleic acid synthesis. As the rangeland grasshopper feeds upon this stressed grass, it produces fewer viable eggs. Ponderosa pine produces pitch tubes when attacked by the red turpentine beetle. Trees with pitch tubes have a greater probability of dying. Identifying "at risk" trees can permit cutting before they die and thus provide more usable timber. Even corn in storage exhibits biochemical resistance to the maize weevil through specific chemicals in the kernel pericarp.

2. Example of narrative to be used in accomplishments of individuals states, agencies or units. (See Attachment #2, Tentative Outline for Accomplishments Report, Item G).

Monoclonal Antibodies Control Poultry Parasites: Coccidiosis, the most important parasitic disease of poultry, costs U.S. producers approximately \$150 million each year from improper growth and feed utilization and another \$90 million for medication.

Vaccines against this protozoan (single-cell animal) infecting the digestive tract are not available. Agricultural Research Service scientists are using monoclonal antibodies (hybridomas) to provide information needed for vaccine development.

Over 600 hybridoma cell lines have been developed that produce specific antibodies directed against various species and developmental stages of the parasite. These monoclonal antibodies have been used to study immunity, inhibition of penetration of host cells by the parasite, dynamics of parasite/antibody interactions, and diagnosis. A memorandum of understanding has been established with three commercial companies, whereby they will genetically engineer specific coccidial antigens using monoclonal antibodies developed and supplied by ARS.

TENTATIVE OUTLINE FOR 1985 ACCOMPLISHMENTS REPORT

- A. Description of Joint Council Reports
- B. Transmittal letter to Secretary Block from Cochairmen
- C. Executive Summary
- D. Introduction
- E. Example of Technology Development and Utilization (i.e. a long term accomplishment of the food and agriculture research, extension and higher education system). Identification and selection of topics by the Joint Council.
- F. Accomplishments involving multiple functions, locations or institutions (Each example 200 words or less) (Nominations by National Committees; selection by Joint Council).
- G. Accomplishments of individual states, agencies, units (Each example, 200 words or less) (Nominations by National Committees; selection by Joint Council).
 - 1. Scientific Expertise Development
 - 2. Natural Resources
 - 3. Crop Production and Protection
 - 4. Animal Production and Protection
 - 5. Processing, Marketing, and Distribution
 - 6. Agricultural Policy
 - 7. People and Communities
- H. Accomplishments of National and Regional Councils and Committees.
- I. Appendices

To: CO-EXP-DIR (AGS360)
 From: WA-EXP-DIR (AGS2475) Posted: Tue 5-Mar-85 17:56 EST Sys 57 (54)
 Subject: NARC information for Helen McHugh (She will pick it up at 4:15)MST

RANKED FISCAL YEAR 1987 NATIONAL RESEARCH PRIORITIES

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1. Water Quality and Management	59
2. Strengthen Market Penetration for Current and New Agricultural and Forest Products	115
3. Sustaining Soil Productivity	116
4. Livestock and Poultry Profitability and Product Quality	124
5. Human Nutrition	143
6. Increase Profitability of Agronomic and Horticultural Crops	148
7. Forest and Range Management	165
8. Management of Diseases and Pests	167
9. Integrated Management Systems	176
10. Germplasm Collection, Preservation, Evaluation and Enhancement	180
11. Competitiveness of U.S. Agriculture and Forest Products in World Markets	184
12. Food Quality and Safety	185
13. Management of Plant Pests	186
14. Agricultural Policy Analysis under Alternative Monetary, Fiscal and Trade Policies	206
15. Human Resource Development	220
16. Effects of Air and Water Pollutants on Plants	221
17. State of the Art Equipment and Facilities	229
18. Conservation and Development of Energy	239
19. Rural Family and Community Resource Management and Economic Development	244
20. Aquatic Food Production	271
21. International Science Interdependence	278

RESEARCH PROBLEM AREA (RPA)

<u>RPA</u>	<u>TITLE</u>	<u>Page</u>
GOAL I: INSURE A STABLE AND PRODUCTIVE AGRICULTURE FOR THE FUTURE THROUGH WISE MANAGEMENT OF NATURAL RESOURCES		
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102	Soil, Plant, Water, Nutrient Relationships	40
103	Management of Saline and Sodic Soils and Salinity	41
104	Alternative Uses of Land	42
105	Conservation and Efficient Use of Water	43
106	Efficient Drainage and Irrigation Systems and Facilities	44
107	Watershed Protection and Management	45
108	Economic and Legal Problems in Management of Water and Watersheds	46
109	Adaptation to Weather and Weather Modification	47
110	Appraisal of Forest and Range Resources	48
111	Biology, Culture and Management of Forests and Timber-Related Crops	49
112	Improvement of Range Resources	51
113	Remote Sensing	52
114	Research on Management of Research	53
GOAL II: PROTECT FORESTS, CROPS AND LIVESTOCK FROM INSECTS, DISEASES AND OTHER HAZARDS		
201	Control of Insects Affecting Forests	55
202	Control of Diseases, Parasites and Nematodes Affecting Forests	56
203	Prevention and Control of Forest and Range Fires	57
204	Control of Insects, Mites, Slugs and Snails on Fruit and Vegetable Crops ..	58
205	Control of Diseases and Nematodes of Fruit and Vegetable Crops	59
206	Control of Weeds and Other Hazards to Fruit and Vegetable Crops	60
207	Control of Insects, Mites, Snails and Slugs Affecting Field Crops and Range	61
208	Control of Diseases and Nematodes of Field Crops and Range	62
209	Control of Weeds and Other Hazards of Field Crops and Range	63
210	Control of Insects and External Parasites Affecting Livestock, Poultry and Other Animals	64
211	Control of Diseases of Livestock, Poultry and Other Animals	65
212	Control of Internal Parasites of Livestock, Poultry and Other Animals	66
213	Protect Livestock, Poultry and Other Animals from Toxic Chemicals, Poisonous Plants and Other Hazards	67
214	Protection of Plants, Animals and Man from Harmful Effects of Pollution ..	68
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301	Genetics and Breeding of Forest Trees	70
302	New and Improved Forest Engineering Systems	71
303	Economics of Timber Production	72
304	Improvement of Biological Efficiency of Fruit and Vegetable Crops	73
305	Mechanization of Fruit and Vegetable Crop Production	75
306	Production Management Systems for Fruits and Vegetables	76

<u>RPA</u>	<u>TITLE</u>	<u>Page</u>
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307	Improvement of Biological Efficiency of Field Crops	77
308	Mechanization of Production of Field Crops	79
309	Production Management Systems for Field Crops	80
310	Reproductive Performance of Livestock, Poultry and Other Animals	81
311	Improvement of Biological Efficiency in Production of Livestock, Poultry and Other Animals	82
312	Environmental Stress in Production of Livestock, Poultry and Other Animals	83
313	Production Management Systems for Livestock, Poultry and Other Animals	84
314	Bees and Other Pollinating Insects	85
315	Improvement of Structures, Facilities and General Purpose Farm Supplies and Equipment	86
316	Farm Business Management	87
317	Mechanization and Structures Used in Production of Livestock, Poultry and Other Animals	88
318	Non-Commodity-Oriented Biological Technology and Biometry	89
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402	Production of Fruit and Vegetable Crops with Improved Acceptability	93
403	New and Improved Fruit and Vegetable Products and Byproducts	94
404	Quality Maintenance in Storing and Marketing Fruits and Vegetables	95
405	Production of Field Crops with Improved Acceptability	96
406	New and Improved Food Products from Field Crops	97
407	New and Improved Feed, Textile and Industrial Products from Field Crops ..	98
408	Quality Maintenance in Storing and Marketing Field Crops	99
409	Production of Animal Products with Improved Acceptability	101
410	New and Improved Meat, Milk, Eggs and Other Animal Food Products	102
411	New and Improved Non-Food Animal Products	103
412	Quality Maintenance in Marketing Animal Products	104
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502	Development of Markets and Efficient Marketing of Timber and Related Products	107
503	Efficiency in Marketing Agricultural Products and Production Inputs	108
506	Supply, Demand and Price Analysis--Crop and Animal Products	109
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508	Development of Domestic Markets for Farm Products	111
509	Performance of Marketing Systems	112
510	Group Action and Market Power	113
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TABLE A (Continued)

<u>RPA</u>	<u>TITLE</u>	<u>Page</u>
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702	Protect Food and Feed Supplies from Harmful Microorganisms and Naturally Occurring Toxins	124
703	Food Choices, Habits and Consumption	125
704	Home and Commercial Food Service	126
705	Selection and Care of Clothing and Household Textiles	127
706	Control of Insect Pests of Man and His Belongings	128
707	Prevent Transmission of Animal Diseases and Parasites to Man	129
708	Human Nutrition	130
709	Reduction of Hazards to Health and Safety	131
	GOAL VIII: ASSIST RURAL AMERICANS TO IMPROVE THEIR LEVEL OF LIVING	
801	Housing	134
802	Individual and Family Decision Making and Resource Use and Family Functioning	136
803	Causes of Poverty Among Rural People	137
804	Improvement of Economic Potential of Rural People	138
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808	Government Programs to Balance Farm Output and Market Demand	142
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901	Alleviation of Soil, Water and Air Pollution and Disposal of Wastes	144
902	Outdoor Recreation	146
903	Multiple Use Potential of Forest Land and Evaluation of Forestry Programs	147
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National Summary
Goal: Major Research Area: RPA

Goal I. Management of Natural Resources

Major Research Area (MRA)

- MRA 1.1 Soil RPAs 101, 102, 103, 104
- MRA 1.2 Water RPAs 105, 106, 107, 108
- MRA 1.3 Forests and Forest Range RPAs 110, 111, 112
- MRA 1.4 Air, Weather, and Pollutants RPAs 109, 113

Goal II. Protection from Pests and Other Hazards

Major Research Areas

- MRA 2.1 Field Crops and Range RPAs 207, 208, 209
- MRA 2.2 Horticultural Crops RPAs 204, 205, 206
- MRA 2.3 Animals RPAs 210, 211, 212, 213
- MRA 2.4 Forests RPAs 201, 202, 203
- MRA 2.5 Pollution, General RPAs 214, 901

Goal III. Decrease Real Production Costs

Major Research Areas

- MRA 3.1 Field Crops and Rangeland RPAs 307, 308, 309
- MRA 3.2 Horticultural Crops RPAs 304, 305, 306
- MRA 3.3 Animals RPAs 310, 311, 312, 313, 317
- MRA 3.4 Forests RPAs 301, 302, 303
- MRA 3.5 Farming, General RPAs 315, 316
- MRA 3.6 Bees and Other Pollinators RPA 314
- MRA 3.7 General Biotech & Research Methodology RPAs 318, 114

Goal IV. Expand Demand for Agricultural & Forest Products

Major Research Area

- MRA 4.1 Field Crops RPAs 405, 406, 407, 408
- MRA 4.2 Horticultural Crops RPAs 402, 403, 404
- MRA 4.3 Animals RPAs 409, 410, 411, 412
- MRA 4.4 Forests RPA 401

Goal V. Improve Marketing Efficiency

Major Research Area

- MRA 5.1 Agricultural Products RPAs 501, 503, 506, 508
- MRA 5.2 Forest Products RPAs 502, 512, 513
- MRA 5.3 Systems and Potentials RPAs 507, 509, 510, 511

Goal VI. Expand Export Markets ; Assist Developing Nations

Major Research Areas

MRA 6.1 Expand Exports RPAs 601, 604

MRA 6.2 Developing Nations RPAs 602, 603

Goal VII. Protect Consumer Health and Improve Well Being

Major Research Area

MRA 7.1 Protect Food Supply RPAs 701, 702

MRA 7.2 Human Nutrition RPAs 703, 704, 708

MRA 7.3 Protect Humans RPAs 705, 706, 707, 709

Goal VIII. Improve Rural Family Life

Major Research Area

MRA 8.1 Housing RPA 801

MRA 8.2 Economics RPAs 802, 803, 804, 807, 808

MRA 8.3 Education & Social RPAs 805, 806

Goal IX. Community Improvement

Major Research Areas

MRA 9.1 Economics RPAs 903, 904, 907, 908

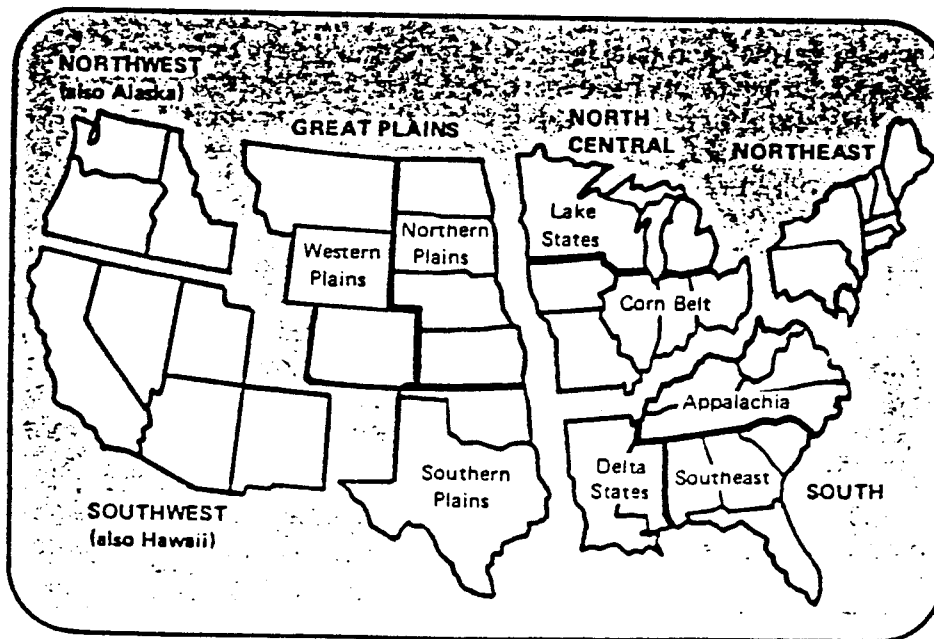
MRA 9.2 Esthetics RPAs 902, 905, 906

2

Chapter

Regional Agricultural Characteristics

In terms of agriculture, the United States can be divided into six regions, as shown in the U.S. map: Northeast, South, North Central, Great Plains, Southwest (including Hawaii), and Northwest (including Alaska). Regional differences in land characteristics, climate, population base, and access to markets contribute to extreme diversity in U.S. agriculture and affect future farm opportunities and problems.*



MAIN U.S. FARMING REGIONS

* Considerable information for this chapter is based on a series of essays in *Another Revolution in U.S. Farming?*, by Lyle P. Schertz and others, U.S. Department of Agriculture, Washington, D.C., November, 1980.

National Trend Tables

Table #1, By RPG (%)

	1973	1978	1983	1985	1990-(0)	1990-(20)
RPG 1	13.3	11.6	11.1	11.1	11.5	11.7
RPG 2	10.7	13.6	12.6	11.8	11.8	11.8
RPG 3	37.1	33.8	37.4	37.0	36.7	35.7
RPG 4	15.5	15.0	19.9	20.1	19.9	19.5
RPG 5	9.2	9.8	4.3	4.4	4.4	4.2
RPG 6	7.4	7.0	6.5	7.3	7.2	7.3
RPG 7	6.8	7.9	2.9	3.0	3.2	3.6
RPG 8	0.0	1.3	5.2	5.2	5.2	6.0

National Trend Tables

Table #2, By Goal (%)

	1973	1978	1983	1985	1990-(0)	1990-(20)
Goal I	11.9	12.5	14.5	14.3	14.6	15.1
Goal II	24.2	23.7	24.7	23.8	23.4	22.4
Goal III	29.1	28.4	29.7	31.1	31.3	31.7
Goal IV	13.4	11.5	10.1	9.8	9.8	9.8
Goal V	4.9	5.0	3.8	4.0	4.0	3.9
Goal VI	1.4	1.2	1.6	1.9	1.8	2.0
Goal VII	5.9	6.7	6.3	5.9	6.0	6.1
Goal VIII	2.8	2.9	3.0	3.3	3.2	3.2
Goal IX	6.6	8.0	6.3	5.9	5.8	5.7

APPENDIX I

Report to the
WESTERN ASSOCIATION OF AGRICULTURAL EXPERIMENT STATION DIRECTORS
from the
COMMITTEE OF NINE

The Committee of Nine met in St. Louis, Missouri on December 4, 1985 with David Schlegel and Helen McHugh representing the Western Region. Only three project proposals were presented for consideration. Disposition was as follows:

- W-6: extended for one year and the revised proposal was recommended for funding with some technical adjustments in the outline.
- S-_: recommended for deferral as a result of no defined role for nutritionists in the project and the need to strengthen the procedures for the proposed work.
- IR-6: approval was recommended subject to the identification of the project coordinator and final action being deferred until all regions have completed review of the revised outline.

The Manual of Procedures for Cooperative Regional Research is being studied for possible revision. The intent is to work closely with the regional research committees and the regional associations in revising. It is believed, further, that regional associations can take leadership in orienting new directors to their responsibilities related to regional research projects.

Dates of 1985 meetings:

May 22-23, 1985 Washington, D.C. (Subcommittees will meet May 21st)
September 10-11, 1985
December 3-4, 1985

Helen F. McHugh
March 14, 1985

APPENDIX J100 YEARS
AGRICULTURAL PROGRESS THROUGH RESEARCH 1882-1982

Lamartine F. Hood, Director
Jordan Hall, Geneva, N. Y. 14456
Telephone: 315-787-2211



December 20, 1984

TO: ESCOP Communications Subcommittee

FROM: L. F. Hood, Chairman *Lam*

RE: Minutes and Follow-Up to Meetings on December 10-12, 1984

I have attempted to summarize the activities and actions of our two Committee meetings on December 10 and 12, 1984 in Atlanta. Please review the attached minutes. If there are inaccuracies or corrections, please notify me by January 15, 1985. If I do not hear from you by then, I will assume that the minutes are approved.

LFH:kd

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 ESCOP SUBCOMMITTEE ON COMMUNICATIONS
 1985

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Washington, D.C. 20251
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301/681-7347 (H)

*Chair

December 1, 1984

MINUTES
ESCOP Communications Subcommittee
Atlanta, GA
December 10, 1984

Present: Bateman, Goss, Halpin, Hood, Lewis, McClure, Northcutt, Riechert, Schweitzer

ANNOUNCEMENTS:

Mr. Terrance Day has resigned from the Committee. Mr. Greg Northcutt, Montana State University, has been appointed by the Western Directors to replace him.

The 1985 Committee membership list is attached.

WORKSHOP ON STATE AND FEDERAL LIAISON

Followup actions to the Workshop on December 11 and 12, 1984 were discussed. In addition to the lasting benefits derived by the participants in the Workshop, it was decided that each Director and/or Communicator on the Committee would report to their respective Regional Associations at their meetings in the near future. A brief statement (1-2 pages) will be prepared by the Committee at the conclusion of the Workshop that can be used in these presentations (copy attached). In addition, the Committee Chairman (Hood) will report to ESCOP, Lewis will report to CSRS, and Diesslin (member of Workshop Planning Committee) will report to ECOP.

REDUCING STATION PUBLICATION AND DISTRIBUTION COSTS

At the request of the Station Directors, Jim Halpin, DAL for the State Agricultural Experiment Stations (South Region) prepared a library mailing list directory. To do this, over 30,000 libraries in the US were reviewed and 3,000 were identified as potentially relevant to agriculture. Each of them was contacted and asked to identify the types of information from the Stations which would be useful to them. For each library which expressed an interest in receiving SAES publications, a code or subject matter interest was identified.

Halpin noted that this targeted approach to distribution of publications would help better determine the quantities of publications needed and provide more efficiency. He also indicated that the concept could be expanded to those audiences beyond libraries who have an interest in SAES publications and other materials.

Halpin proposed that the ESCOP Subcommittee on Communication appoint a task force to look at the feasibility of computerizing a data base on distribution of publications with an eye to creating a national keyword index or

code structure for ease in coordinating the sharing of materials with interested audiences. He also suggested that this approach could be broadened to include ECOP and RICOP. Those members of the planning committee who were interested in such a data base management project were asked to submit names to Lam Hood for a possible task force. Hood will request approval from ESCOP for formation of the task force.

CSRS UPDATE

Lewis described staff changes that have occurred or are in process at CSRS.

SAES/CSRS PUBLIC RESPONSIBILITIES PLAN

Lewis summarized the process that had ensued to develop and review the draft Plan. She emphasized that the CSRS Strategic Plan and the Public Responsibilities Plan (PRP) are separate, but related, plans.

ESCOP has requested that the Committee work with CSRS on refining and setting priorities in the Plan. The Committee discussed the PRP at great length and concluded that it should include the following long term goals, short term objectives (1-5 years), and operational plans that focus on the needs of the SAES system.

Long term goals

- Provide support/service to the system/agencies, including:
ESCOP-Budget, Legislative, Long Range Planning, Special Initiatives Subcommittees
Joint Council, UAB, Regional planning efforts
Within government - USDA, CSRS, Congress, etc.
SAES - Both to and from the Stations
- Educate/develop awareness of "system"
Define and analyze the attitudes/perceptions of target audiences, internal and external to the system, of agricultural research.

Short term objectives

- Educate the Washington folk on the impact/benefit/payoff of agricultural research in the SAES
- Develop coordinative mechanisms (eg. CSRS-SAES, SAES-SAES, CSRS-ARI-NISARC-SAES, CSRS-ARS, CSRS-ES).
- Define audiences (i.e. who are they and what do they think about the SAES and agricultural research)
- Develop catalog of public awareness/information strategies and programs that have been effective at individual SAES.

Operational Plans (related to objectives)

- Develop pilot mechanisms (eg. cooperative contracts/agreements with selected SAES)
- Prepare catalog of effective programs by sending questionnaire to SAES Directors
- Inform other groups/agencies (eg. ARI, UAB, etc.) of the SAES/CSRS Public Responsibilities effort.
- Develop plans/mechanisms/materials for communicating with the Washington folk
- Develop mechanisms/procedures for determining what individual target audiences perceive.

Minutes prepared by
Lam Hood

MINUTES
ESCOP Communications Subcommittee
Atlanta, GA
December 12, 1984

Present: Goss, Halpin, Hood, Jordan, Lewis, McClure, Northcutt, Riechert, Schweitzer, Witters

FUTURE PLANS FOR WORKSHOPS

The December 11-12, 1984 Workshop in Federal-State Liaison was discussed extensively. The first two workshops have been successful in improving communications between communicators and administrators, and in sharing examples of successful public relations/awareness plans. The Committee concluded that the next step should be to help interested institutions in the development of respective plans.

Thus, a third workshop is proposed that will focus on the preparation of plans by participating institutions. Since these plans should embody both research and extension, the workshop should be jointly sponsored by ECOP. The target audience for the workshop will be the same as for the first two workshops.

The third workshop is tentatively scheduled for April-May 1986 in St. Paul - Minneapolis. R. Witters and B. Riechert will be co-chairs of the Planning Committee.

L. Hood will seek approval from ESCOP for the workshop with joint sponsorship by ECOP and subsequently contact prospective members of the Planning Committee.

APPENDIX KWESTERN DIRECTORS' AT LARGE ACCOUNT
FINANCIAL STATUS -FY1985

ITEM	ALLOCATION	INCOME	EXPENSE	BALANCE
JULY 1 BALANCE				73598.9
ALASKA				73598.9
ARIZONA				73598.9
CALIFORNIA				73598.9
COLORADO				73598.9
GUAM				73598.9
HAWAII				73598.9
IDAHO				73598.9
MONTANA				73598.9
NEVADA				73598.9
NEW MEXICO				73598.9
OREGON				73598.9
UTAH				73598.9
WASHINGTON				73598.9
WYOMING				73598.9
TOTAL				73598.9
80184	JE HALPIN-ESCAP TRAVEL (FOR DAL)		892.09	72706.8
81584	COLLEGE OF MICRONESIA	500.00		73206.8
110884	HOVIN-TRAVEL TO DAL SEL.DENVER		359.20	72847.6
120184	SEMI ANNUAL INTEREST	3793.81		76641.4
12 84	HC COX-WDAL INTERVIEW		269.78	76371.6
121184	UTAH-AD IN SCIENCE MAGAZINE		616.88	75754.7
121184	ML COTNER-WDAL INTERVIEW		178.11	75576.6
10885	LL BOYD WDAL TRAVEL-BERKELEY		127.80	75448.8
12585	LL BOYD TRAVEL-FT COLLINS		616.85	74832.0
11285	LL BOYD TRAVEL-D.C.-DAL MTG		692.07	74139.9
22185	LL BOYD TRAVEL-MINNEAPOLIS		713.26	73426.6

(2)

WESTERN DIRECTORS' SPECIAL FUND
FINANCIAL STATUS -FY1985

ITEM	ALLOCATION	INCOME	EXPENSE	BALANCE
JULY 1 BALANCE				
ALASKA				2747.3
ARIZONA				2747.3
CALIFORNIA				2747.3
COLORADO				2747.3
GUAM				2747.3
HAWAII				2747.3
IDAHO				2747.3
MONTANA				2747.3
NEVADA				2747.3
NEW MEXICO				2747.3
OREGON				2747.3
UTAH				2747.3
WASHINGTON				2747.3
WYOMING				2747.3
TOTAL				2747.3
72684	LL BOYD-ESCAP TRAVEL			
72684	LW DEWHIRST ESCOP TRAVEL		619.50	21 .89
72684	JR WELSH-ESCAP, RICOP TRAVEL		547.81	1580.00
92484	JR WELSH-ESCAP-SEATTLE		818.60	761.40
10484	JR WELSH-ESCAP-SEATTLE		444.00	317.40
100484	H MC HUGH-ESCAP-SEATTLE		282.58	34.90
101084	LL BOYD-ESCAP-D.C.		460.57	-425.67
101284	DEWHIRST-ESCAP&DAL-SEATTLE		629.45	-1055.12
112684	LL BOYD-ESCAP-SEATTLE		680.85	-1735.97
120184	SEMI-ANNUAL INTEREST		663.45	-2399.42
11684	LL BOYD-ESCAP-ATLANTA&NEW ORLEANS	363.79		-2035.63
21485	GAIN ON SALE OF 7 UNITS		1426.33	-3461.96
31185	LW DEWHIRST-ESCAP, D.C.	611.61		-2850.35
			697.60	-3547.95

WESTERN DIRECTOR SPECIAL FUND
1984-85 ALLOCATION

(3)

1984-85 BASE
BALANCE-JUNE 30, 1984

10000.00
2747.39

TOTAL TO BE COLLECTED

\$7,252.61

STATE	RRF ALLOCATION	% OF TOTAL	ALLOCATION
ALASKA	\$124,691	1.48%	\$107.50
AMERICAN SAMOA		0.00%	\$0.00
ARIZONA	\$659,300	7.84%	\$568.38
CALIFORNIA	\$1,408,216	16.74%	\$1,214.01
COLORADO	\$929,809	11.05%	\$801.58
GUAM	\$106,766	1.27%	\$92.04
HAWAII	\$334,326	3.97%	\$288.22
IDAHO	\$519,803	6.18%	\$448.12
MICRONESIA		0.00%	\$0.00
MONTANA	\$582,149	6.92%	\$501.87
NEVADA	\$318,741	3.79%	\$274.78
NEW MEXICO	\$350,692	4.17%	\$302.33
OREGON	\$824,514	9.80%	\$710.81
UTAH	\$600,852	7.14%	\$517.99
WASHINGTON	\$1,179,760	14.02%	\$1,017.06
WYOMING	\$473,172	5.62%	\$407.92
TOTAL	\$8,412,791	100.00%	\$7,252.61

APPENDIX L

12.12.1

MARCH 20, 1985

SYMPOSIUM: THE RESEARCH AGENDA FOR THE STATE
AGRICULTURAL EXPERIMENT STATIONS

OBJECTIVE:

The Experiment Station Committee on Organization and Policy (ESCOP) is developing a contemporary statement of its National Research Agenda for the State Agricultural Experiment Stations. This is being done in conjunction with the ESCOP affiliates; Home Economics, 1890 Association of Research Directors, the research component of the Commission on Veterinary Medicine, and the National Association of Professional Forestry Schools and Colleges.

The purpose of this ongoing process is to enunciate the new initiatives for agricultural research and their relative priorities and to portray the dynamics of the broad ongoing base programs of research in the individual states in terms of their contribution to national research needs in agriculture.

The planning activity will be initiated by a symposium to develop a broad perspective for needs and opportunities in agricultural research. This will provide guidance to a second major activity; a planning workshop that will coalesce into a hierarchical array of research initiatives from the four regional associations, the professional and scientific societies and national level commodity groups.

The symposium will be held in a small group-interactive environment. Leading thinkers on agricultural research and research policy, including both proponents and constructive critics of the present system, will be involved. The symposium will develop perspectives for the future, both in broad philosophical terms and in identifying new research opportunities and needs at the national level. Included in the deliberations will be representatives of the agricultural, natural resources, consumer and environmental clientele of the SAES's. The ESCOP affiliates will also be given the opportunity to provide briefs on similar perspectives for their aspects of the total program. The tentative agenda for the symposium is as follows:

INSTITUTIONAL RELATIONSHIPS (PROCESS AND PRODUCT)

- Joint Council Activity
- User's Advisory Board
- SAES - Industry Relationships
- IR-6 Activities and Planning
- Agricultural Ethics
- Legal Implications of Industrial Relationships
- Non-Traditional Research Opportunities
- Summary of the Minnesota Workshop on Agricultural Research Policy