

WESTERN ASSOCIATION OF AGRICULTURAL EXPERIMENT STATION DIRECTORS
AND
UNITED STATES DEPARTMENT OF AGRICULTURE
211 POST OFFICE BUILDING
BERKELEY 1, CALIFORNIA

OFFICE OF THE
RECORDING SECRETARY

March 22, 1965

TO : Western Directors
FROM : John O. Gerald, Recording Secretary
SUBJECT: Minutes of March 3-5, 1965 Meeting

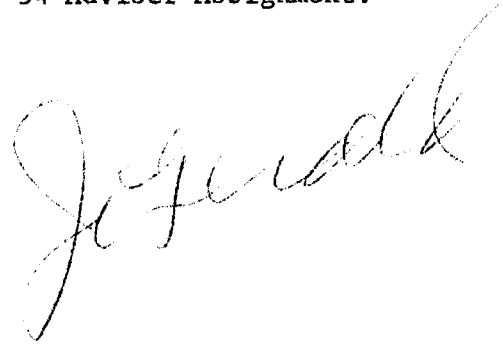
Enclosed are Minutes of your recent meeting. Items below are enumerated for your specific attention.

<u>For Specific Attention of</u>	<u>Page No.</u>	<u>Sidehead or Other Identification</u>
All Directors	5	Review Schedule requested by CSRS.
	7	Examples of research needed, to be sent to Peterson by April 1.
	9	Attendance at WSWRC Meeting by Department Heads.
	17	Summary of Actions on projects due to terminate 6/30/65.
	17 - 19	Comments on ARPC Subcommittee re review of faculty status of USDA personnel on campuses.
	20 - 21	Approval of Meetings in Hawaii.
	21	Program for 1965 Meeting of Experiment Station Section.
	22	Certificate for Former Members of WAESD.
	22	Date and Place of Spring 1966 Meeting.
	25 - 26	Table 1, Trust Fund Recommendations
	27 - 28	Tables 2 and 3, 1965-66 RRF Allocations and Allotments.

<u>For Specific Attention of</u>	<u>Page No.</u>	<u>Sidehead or Other Identification</u>
All Administrative Advisers	16	Projects terminating 6/30/66, not yet authorized to revise, and reminders.
	17	Summary of Actions on projects due to terminate 6/30/65.
	17	Listing of <u>projects</u> due to terminate 6/30/67. /See also WD Minutes, Nov. 1964, p. 16, on procedures./
RRC	7	1967 Increase Program Planning.
Alexander	14	RRC Report, Item B. 3, WM-26.
	15	Adviser Assignment to organize Ad Hoc Committee to review Wildlife and Recreation Area.
Asleson	11	RRC Report, Item A. 1, W-85 and W-87.
	13	RRC Report, Item A. 3, Action re amendment of RRF Administration Project.
	16	W-68 Adviser Assignment.
	21	RRF Trust for Reimbursement of ERS Services.
	12	RRC Report, Item A. 1, WM-52.
Boyce	16	RRC Report, Item E, Trust Fund Requests, W-45.
	9	Exchange of Minutes between WAERC and WSSC Members.
Buchanan	12	RRC Report, Item A. 1, WM-53.
	15	RRC Report, Item D, Adviser Assignment
	13	RRC Report, Item A. 3, Action re Amendment of RRF Administration Project.
Farris	13	RRC Report, Item A. 3, Action re Amendment of RRF Administration Project.
Frevert	20	Motion re establishment of ESCOP Subcommittee for study of land and water research activities.

<u>For Specific Attention of</u>	<u>Page No.</u>	<u>Sidehead or Other Identification</u>
Frevert Cont'd.	22	Date and Place of Spring 1966 Meeting.
Hervey	14 -15	RRC Report, Item B. 3, W-25.
Hill	11	RRC Report, Item A. 1, W-86.
	16	W-67 Adviser Assignment.
Huffman	9	Exchange of Minutes between WAERC and WSSC Members.
	12	RRC Report, Item A. 2, WM- .
	16	W-81 Adviser Assignment
Kelly	12	RRC Report, Item A. 1, WM-51.
	16	RRC Report, Item E, Trust Fund Requests, WM-51.
Knoblauch	5	Review Director Attendance at Summer Meeting of WAESD approved by consensus.
	5	Invitation to Mr. R. T. Galloway, ARS, to lead discussion at July 20-22, 1965 Meeting of WAESD.
Leyendecker	22	Certificate for Former Members of WAESD.
Linsley	13	RRC Report, Item B. 1, W-37
	15	RRC Report, Item B. 3, W-74.
	22	Arrangements for Meeting Rooms, November 1965.
Peterson	7	Examples of research needed, to be sent by April 1.
	20	Motion re establishment of ESCOP Subcommittee for study of land and water research activities.
Rasmussen	10	RRC Report, Item A. 1, W-50.
	13	RRC Report, Item A. 3, Action re Amendment of RRF Administration Project.
	14	RRC Report, Item B. 2, W-69.

<u>For Specific Attention of</u>	<u>Page No.</u>	<u>Sidehead or Other Identification</u>
Wheeler	14	RRC Report, Item B. 3, W-44
	20	Motion re establishment of ESCOP Sub-committee for study of land and water research activities.
	21 - 22	Resolution of Appreciation.
C. P. Wilson	10	RRC Report, Item A. 1, W-54.
	16	W-54 Adviser Assignment.

A handwritten signature in cursive script, appearing to read "J. Gerald", is written in the lower right quadrant of the page.

MINUTES OF
WESTERN DIRECTORS' MEETING

University of California, Room 114, Morgan Hall
Berkeley, California

March 3-5, 1965

The meeting was called to order at 8:40 a.m. by Chairman Huffman. The following were present during all or part of the meeting:

R. K. Frevert	Arizona
A. M. Boyce	California
C. F. Kelly	California
E. G. Linsley	California
J. H. Meyer	California
M. L. Peterson	California
D. M. McNeill	California
H. J. Vaux	California
D. F. Hervey	Colorado
S. S. Wheeler	Colorado
G. Stanford	Hawaii
R. D. Ensign	Idaho
J. E. Kraus	Idaho
R. E. Huffman	Montana
D. W. Bohmont	Nevada
R. E. Ely	Nevada
P. J. Leyendecker	New Mexico
M. L. Wilson	New Mexico
R. W. Henderson	Oregon
K. W. Hill	Utah
L. W. Rasmussen	Washington
J. W. Oxley	Wyoming
B. F. Beacher	CSRS
H. C. Knoblauch	CSRS
T. S. Ronningen	CSRS
J. O. Gerald	Recording Secretary

Introductions
and Announcements

Peterson introduced Dr. D. M. McNeill, Assistant to Dean of Agriculture, University-wide, University of California. He announced plans for social activities including a tea for visiting wives and dinner for participants and wives hosted by California personnel, and commented on other arrangements.

Correction and
Approval of
November 1964
Minutes

Gerald reported that reading of the November 1964 Minutes revealed the omission on page 3 of R. W. Henderson's name as being in attendance at the RRC meeting.

Frevert moved, Wheeler seconded, that the November 1964 Minutes be approved as corrected. Passed.

Comments of CSRS
Representative

Knoblauch gave a report of 1965 appropriations and of allowances in the President's budget request for 1966. A summary of these data follow:

SUMMARY OF INCREASES AND DECREASES

	<u>1965 Available</u>	<u>Increase or Decrease</u>	<u>1966 Estimate</u>
Payments to agricultural experiment stations	\$43,983,221 <u>a/</u>	+\$1,940,000 <u>a/</u>	\$45,923,221 <u>a/</u>
Grants for cooperative forestry research.	1,000,000	+ 1,000,000	2,000,000
Grants for basic scientific research.	400,000	+ 600,000	1,000,000
Federal administration	1,461,779	+ 72,000	1,533,779
Grants for facilities.	3,242,000	- 1,242,000	2,000,000
All other.	310,000	- -	310,000
	<u>\$50,397,000</u>	<u>+\$2,370,000</u>	<u>\$52,767,000</u>

a/ Excludes the three percent of the increase provided under this item in 1964 and 1965 and proposed for 1966, which under the Act of August 11, 1955, is available for Federal Administration, and is included in that item.

Knoblauch reported that hearings have not begun as yet and discussed some of the plans for hearings when they do begin. Membership of the Appropriation Subcommittees are listed for the information of Directors as follows:

- House - Whitten, Mississippi (Chairman)
- Natcher, Kentucky
- Hull, Jr., Missouri
- Morris, New Mexico
- Michel, Illinois
- Langen, Minnesota

- Senate - Holland, Florida (Chairman)
- Russell, Georgia
- Hayden, Arizona
- Hill, Alabama
- Robertson, Virginia
- Stennis, Mississippi
- McGee, Wyoming
- Mansfield, Montana
- Proxmire, Wisconsin
- Yarborough, Texas
- Young, North Dakota
- Mundt, South Dakota
- Hruska, Nebraska
- Case, New Jersey

Ex officio - Ellender, Johnston, Aiken

Knoblauch next discussed six research program areas of agricultural experiment stations and changes in funding over the 11-year period, 1955 through 1965, of these areas. This summary follows:

MAJOR RESEARCH PROGRAM AREAS OF AGRICULTURAL EXPERIMENT STATIONS

(1955 - 1965 FEDERAL-GRANT FUNDS NATIONAL SUMMARY)

	1955	%	1964	%	1965	\$
1-Development & Conservation of Rural Resources	\$ 2,042,639	10.5	\$ 5,692,532	13.7	\$ 5,994,709	12.0
2-Protection of Biological Resources	3,229,316	16.6	8,770,468	21.2	15,518,484	31.0
3-Efficient Production of Quality Products	9,104,335	46.8	16,535,636	39.9	17,459,043	34.9
4-Marketing	1,945,371	10.0	5,013,249	12.1	5,294,597	10.6
5-Utilization (Improved Product & Process Development)	1,556,297	8.0	3,759,937	9.1	3,981,887	8.0
6-Consumer Use	1,575,750	8.1	1,657,607	4.0	1,750,280	3.5
Totals	\$19,453,708	100.0	\$41,429,429	100.0	\$49,999,000	100.0

Knoblauch discussed numerous bills and the current position of these bills. Among these were S. 561 and S. 689 concerned with cooperation, coordination, and periodical Congressional review of Federal grants-in-aid to States and to local units of government. Also discussed was an amendment of Section 200 of Public Law 88-379 (Water Research Institutes legislation); an amendment of the Federal Water Pollution Control Act, which would establish the Federal Water Pollution Control Administration, and would provide grants for research and development which can be made to educational institutions; and other such measures.

Knoblauch discussed the objectives of HR 15 for the establishment of a commission on science and technology. These objectives follow:

"SEC. 2.....the Congress hereby declares that immediate consideration should be given to studying the means for attaining the following objectives:

- (1) The establishment of programs, methods, and procedures for the effective reorganization of Federal departments and agencies

operating, conducting, or financing scientific programs and supporting basic research in science and technology, with the purpose of insuring more effective performance of these essential services, activities, and functions;

(2) The elimination of undesirable duplication and overlapping between Government departments and agencies engaged in scientific and technological research, and in information storage, processing and distribution services, activities and functions, with particular emphasis upon effecting the maximum utilization of the resources of private industry and nonprofit research organizations, including universities and other educational or technological institutions;

(3) The assurance of the conservation and efficient utilization of scientific and engineering manpower;

(4) The determination of the need for establishing within the executive branch of the Government a Department of Science and Technology, or for the reorganization of existing Government scientific and technological functions through the transfer of such functions to existing or new executive departments or agencies, in order to provide more effective and better coordinated Federal science programs and operations; and

(5) If the establishment of a Department of Science and Technology is found to be necessary, the determination of functions now exercised by other departments or agencies of the Federal Government which should be transferred to that or other departments and what, if any, new functions should be given to such departments, as well as those which more properly should be transferred to and performed by private industry or nonprofit organizations, including universities and other educational or technological institutions."

S. 938, introduced by Senator McGovern and fifteen cosponsors, proposes the establishment of a permanent White House office on national resources development and conservation problems. This office would be patterned after the Council of Economic Advisers which reviews economic trends and advises the President on policy.

Knoblauch mentioned the reorganization announced in Secretary's Memorandum No. 15-67 of January 4, 1965 which established the Consumer and Marketing Service. This reorganization transferred meat inspection and warehouse inspection functions from ARS to Consumer and Marketing Service.

Knoblauch quoted several paragraphs from the President's Farm Message of February 4, 1965 to indicate the direction in which research and extension activities may be expected to go in the future.

He also discussed the USDA regulations on non-discrimination in Federally assisted programs of the Department of Agriculture and effectuation of Title 6 of the Civil Rights Act of 1964.

Knoblauch next mentioned P. L. 88-74 which provided \$3,342,000 for construction modification, etc., of facilities for pesticide research. He noted that intent to participate in this appropriation by Stations must be received prior to June 30, 1965.

CSRS was allotted \$600,000 for basic research grants. Knoblauch discussed the current status in granting of these funds and explained the procedures for evaluating project proposals submitted.

Knoblauch discussed problems CSRS has encountered in its review of Hatch, McIntire-Stennis and basic research projects at State Agricultural Experiment Stations. CSRS had expected that all projects supported with these funds would be reviewed once in four years. However, it has been found that some projects may be reviewed more often than this, while others may not be reviewed at all.

Knoblauch requested the cooperation of the Station Directors in developing a four-year schedule for subject-matter reviews to provide for orderly review of the total research programs of the Stations. These schedules should be ready for discussion with CSRS personnel at the summer meeting. He also requested that Directors concur in having the CSRS Review Director for each region meet with the regional association at its summer meeting. Concurrence was given by consensus.

Knoblauch mentioned some problems CSRS has experienced in working with Form 20's, particularly as they are used in the scientific information exchange. The Form 20 system is considered to be too time-consuming in preparation and requires too much time in searching by the individual scientist for his area of special interest. Knoblauch mentioned that USDA has a task force which is studying the possibilities of electronic data processing equipment for bringing about improved research management services and also to explore systems that would facilitate the exchange of information on current research. He suggested that Directors consider inviting Mr. R. T. Galloway of ARS to discuss developments along these lines at the summer meeting.

Peterson moved, Leyendecker seconded, that Mr. Galloway be invited to attend the July 20-22 meeting to lead discussions on this subject. Passed.

Knoblauch also mentioned Secretary's Memorandum No. 15-65 which established USDA policy on pesticides and discussed organization of the Office of Economic Opportunity as it relates to research programs.

Comments of Re-
gional Research
Coordinator

Beacher discussed developments in regional research in 1965. The current RRF program contains 201 regional projects of which 50 are marketing, 149 are non-marketing and 2 are administrative. 1964 expenditures on regional projects were above \$20 million, giving a national average of about \$100,000 per project. Both the smallest and the largest supports were for Western projects (\$21,500 on WM-35 and \$338,000 on W-1). He noted that total support for regional research was less in 1964 than in 1963 although RRF support was \$1.5 million above the previous year. He also reported that the marketing requirement was just met on regional projects, both nationally and in the Western Region.

Beacher mentioned that the Committee of Nine is developing recommendations for use of the 1966 RRF increase as proposed in the President's budget. CSRS staff is currently reviewing progress of regional projects and will discuss special situations with the Committee of Nine. Annual reports for Western Regional projects seem to have improved in conciseness and in their emphasis on accomplishment. Beacher requested that Advisers remind technical committees to list all regional publications on these projects separately.

Beacher suggested that five-year planning of the regional research program would be realistic and would provide useful information for budget justifications. He stated that more attention should be given to desirable changes in emphasis, to adequacy of funds, and to efficient use of research resources.

Beacher also discussed the coordination function of regional research and suggested that RRF may not have been used to its fullest potential in this function. He stated that the proposed amendment to the Western Administrative Project seems to have considerable merit for carrying out this function.

Beacher also mentioned problems in coordinating plans among regions, and commented briefly on the 1964 study of State and Federal livestock research. He stated that the regional meetings involved in that study favorably affected the attitude of USDA personnel relative to the breadth and depth of Station programs in animal research. This study raised several questions relative to the measures used in describing programs. One of these was, "What unit of measuring research effort should the State Stations use?" Beacher stated that the professional man-year is a useful and meaningful measure for USDA but does not seem to fit Station needs.

ESCOP

Wheeler discussed certain actions and discussions of ESCOP at its November 1964 meeting. All Directors had received Minutes of that meeting so Wheeler directed his comments to only a few points. He reported that the Interim Committee of ESCOP will be continued and noted the action to establish a Marketing Subcommittee.

Committee of
Nine

Rasmussen reported that several projects in the area of pesticides research were approved in November but that the Committee will further review these projects at its April 1965 meeting.

He also discussed the Committee's deliberations on procedures for the origination, review, planning and coordination of regional research projects. He mentioned the WAERC Statement on Regional Research Procedures and stated that while this statement proposed a highly streamlined process for review and approval, the proposal nonetheless seemed to him to be close to an ideal system. The Committee will continue its consideration of this statement at its April 1965 meeting. Rasmussen also mentioned that the Committee of Nine is attempting to coordinate its regional research planning with the program plans of the Legislative Subcommittee.

Legislative
Subcommittee

Peterson called attention to the letter of February 17, 1965 from Dowe of Vermont relative to needs of the Legislative Subcommittee for information on both 1966 and 1967 programs. This request was for specific examples of research to be done under the following selected areas for research concentration in 1966:

1. Meeting increased costs of research
2. Marketing and utilization
3. Pesticides and pest control
4. Resource research and development
5. Land use adjustments
6. Agricultural policy
7. Efficiencies of production and handling of commodities
8. Product quality preservation and improvement
9. Foods and nutrition
10. Other

It was agreed by consensus that each Director would prepare two or three examples of most interest at his Station and forward these to Peterson who will prepare the summary for transmittal to Director Dowe by April 1. These examples should be documented with objectives and justification for the proposed research.

Peterson reported that he has been selected to prepare and present material to the House Subcommittee on behalf of the Legislative Subcommittee.

The letter from Director Dowe also requested assistance in preparing for the 1967 appropriation hearings with USDA, Budget Bureau, and the Congress. Rasmussen stated that there should be forward planning by Regional Research Committees and the Committee of Nine of the regional research program. This program should be coordinated with Legislative Subcommittee plans.

Rasmussen moved, Peterson seconded, that RRC be charged with developing a program for the use of RRF associated with a \$10 million increase in Hatch appropriations in 1967 for recommendation at the July 20-22 meeting. Passed. This program is to be developed within the areas of concentration selected by the Legislative Subcommittee as follows:

1. Meeting increased costs of research
2. Marketing and utilization
3. Resource protection
4. Resource research and development
5. Improved quality and efficiency
6. Land use adjustment and agricultural policy
7. Human nutrition and consumer use
8. Other

WAERC

Huffman reported on the meeting of WAERC in Hawaii, mentioning the excellent seminar and survey which were planned by Dr. Perry Philipp, Head of the Department of Agricultural Economics in Hawaii.

Huffman reported that the Council was still concerned that the Social Science Committee and WAERC must coordinate their programs in the area of rural adjustments research. He reported that WAERC also was concerned that the Directors have not, as yet, insured continuation of the Social Science Committee beyond its April 1965 meeting. Directors discussed the July 1964 recommendations of WAERC relative to this matter and, in particular, discussed the recommendation that WAERC be reformulated under the name Western Agricultural Council on Economic and Social Research.

Question was raised as to why the term economic should be in the title since by definition, economics is a social science. Question was also raised as to whether such a restructured group should include home economists concerned with social problems, as well as the agricultural economists and sociologists.

It was recognized that there is overlap of interest on the part of WAERC and the Social Science Committee but that coordination of research is a problem in other overlapping disciplines.

Question was raised as to what is the purpose of a group such as WAERC or Social Science Committee. This purpose was stated to be to advise Directors on specific research needs of the Region.

Rasmussen reported that a letter from the Chairman of the Social Science Committee noted WAERC's concern about the working relationships within the social science area. Social Science Committee also has such concern but does not agree that merger of the two groups would achieve the goals Directors desire.

Peterson suggested that Huffman inform WAERC that Directors do see problems of mutual and overlapping interest and that they encourage the two groups to cooperate in program formulation. He suggested that the groups might meet together and that at a minimum Minutes should be exchanged among all members of the two groups.

Peterson moved, Ensign seconded, that WSSC and WAERC members be encouraged to exchange Minutes. Passed.

WSWRC

Frevert reported that there has been no meeting of WSWRC since the November meeting of Directors, but reminded Directors that WSWRC is concerned about its ability to perform effectively in the absence of Department Heads at its meetings. He requested that Directors review the situations in their States and send Department Head or Heads to the 1965 meeting, if at all possible.

WSSC

Hill reported that WSSC will meet April 20-21 in Salt Lake City. It will then review proposed research projects in the area of economic opportunity and water conservation and utilization. Peterson noted that the WSSC seemed to be tailoring research programs around funding possibilities rather than around the most pressing problems of the Region. /See motion recorded under "WAERC" above, relative to exchange of Minutes between members of WSSC and WAERC./

WHEARC

Bohmont reported that WHEARC met to review areas in which personnel are available for home economics research in the region and to determine what areas need early study. The group found that there are 80 research personnel on Western Station staffs, 49 of whom are Ph.D.'s. Two-thirds of these research workers are engaged in the area of food and nutrition and ten percent in the area of child development.

WHEARC determined that there are pressing research needs in six areas but proposed activation for only three of these in 1965-66. This group also is interested in research possibilities under the Economic Opportunity Act of 1964 and will draw up proposals to implement research which will forward the objectives of that Act. WHEARC will meet in November 1965.

RRC Report

REPORT OF THE COMMITTEE ON REGIONAL RESEARCH

to

THE WESTERN DIRECTORS
Berkeley, California
March 3-4, 1965

The following were present at the March 1-2, 1965 meeting of the Regional Research Committee at Berkeley, California:

R. E. Ely
P. J. Leyendecker
R. W. Henderson
K. W. Hill
B. F. Beacher
J. O. Gerald, Recording Secretary

A. PROJECT OUTLINES REVIEWED

1. Recommended for activation 7/1/65:

W-50, Atmospheric Stresses on the Performance of Laying Chickens. RRC found this revision to be satisfactory. However, the committee should review whether the lack of the Glendale, Arizona, Station, or any other proposed participant, to participate will make it impossible to achieve the objectives. If so, then the committee should advise the stations prior to June 1, 1965 so that no Form 20's will be submitted. The summary of accomplishments was acceptable.

RRC recommends approval, subject to the above provision, of the project as W-50 to extend from 7/1/65 to 6/30/70.

/Ely moved, Henderson seconded, adoption. Passed./

W-54, Appraisal of Opportunities for Adjusting Farming to Prospective Markets. RRC noted that this revision is to be coordinated with GP-5, a companion Great Plains project. This presumably accounts for the 6-year duration requested. RRC encourages the committee to plan the work so that regional publications will soon be available, and to make the State assignments for the subcommittee tasks involved in Objectives 2, 3 and 5 at an early date. A summary of accomplishments was prepared and accepted two years ago.

RRC recommends approval as W-54 to extend to 6/30/71.

/Ely moved, Wheeler seconded, adoption. Passed./

W-71, The Effect on Ponderosa Pine Seedling Establishment of Genetical and Environmental Factors through Their Influence on Root and Top Development. This project revision meets the suggestions made by RRC in November 1964, and RRC recommends approval as W-71 to 6/30/70. The summary of accomplishments was received in November 1964.

/Ely moved, Hervey seconded, adoption. Passed./

W-85, Factors Contributing to the Efficiency of Nitrogen Utilization in Western Soils. This revision of the W-31 project shows that careful thought was given to the question of regionality of the research problem and procedures. The outline was well prepared, and the committee is to be commended. The critical review showed that the objectives of the old project were achieved, but RRC believes the critical review could be expanded to become the basis of a regional publication on past accomplishments. RRC encourages the committee to attempt such publications, both for the old project and for the new work.

RRC recommends approval of the outline as W-85, to begin 7/1/65 and to extend to 6/30/70.

/Ely moved, Wheeler seconded, adoption. Passed.

W-86, A Physiological and Morphological Study of Rest and Hardiness in Fruit Trees. This was a well-prepared project with very good organization. RRC asks that the technical committee not overlook publication possibilities. The Procedures Section gives no indication that regional publication is planned.

RRC recommends approval as W-86 to begin 7/1/65 and to end 6/30/70.

/Ely moved, Henderson seconded, adoption. Passed.

W-87, Identification and Characterization of Clay Mineral Species in Soils of the Western Region. This revision satisfies the objections of March 1964. RRC suggests that certain States outside the West might contribute to this area, particularly States in the Great Plains.

RRC recommends approval as W-87 to begin 7/1/65 and to extend to 6/30/70.

/Ely moved, Henderson seconded, adoption. Passed.

W-88, Enteric Disease of Neonatal Calves. This outline was prepared hurriedly, but nonetheless appears to be well written.

RRC recommends approval to 6/30/70 as W-88.

/Ely moved, Frevert seconded, adoption. Passed.

WM-51, Economic Factors Affecting Sugar Marketing.

This revision made in response to request of the Committee of Nine appears to be in order.

RRC recommends its approval as WM-51 to 6/30/69.

/Ely moved, Rasmussen seconded, adoption.
Passed./

WM-52, Maintaining Marketability of Stored Grain and Cereal Products through Insect Control by Methods Leaving No, or a Minimum of, Pesticide Residue. This revision of WM-16 is acceptable to RRC. However, RRC suggests that the Administrative Adviser clarify the marketing application of Procedures Section, E-b, in transmitting the outline to the Committee of Nine. The summary of accomplishments was acceptable.

RRC recommends approval as WM-52 to 6/30/70.

/Ely moved, Ensign seconded, adoption. Passed./

WM-53, Advertising and Pricing Practices of Food Retailers. This project outline must be corrected to include a percentage figure left blank on page 3, and to specify cooperating agencies and organization of the technical committee. This should be done prior to the April 12, 1965 meeting of the Committee of Nine.

RRC recommends approval as WM-53 to 6/30/70, subject to suggested corrections being made.

/Ely moved, Leyendecker seconded, adoption.
Passed./

2. Outline Disapproved:

WM- , Market Structures and Distribution and Use Patterns of Hay and Feed Grains in the Western Region. RRC questions if it is appropriate to include feed grains in this outline and then make no provision for accomplishment of the objectives for feed grains. Further, the procedures for hay do not appear adequate to satisfy the objectives. This project, as proposed, should not require more than two years at most for completion.

RRC recommends that the outline not be approved. However, RRC will be glad to review a revised outline by mail if resubmitted by May 15, 1965.

/Ely moved, Henderson seconded, adoption.
Passed./

3. Outline Amendment Approved:

RRF Administration, Planning and Coordination of Co-operative Regional Research. RRC believes the proposed amended outline for RRF Administration represents a highly desirable and significant advance in Federal and State research coordination. The purpose of the amendment, if approved, will help to effect the purposes originally intended in the 9b3 Section, Regional Research, of the 1946 Research and Marketing Act.

RRC calls to the attention of Directors that the project authorizes the Stations to use RRF-P&C-funds to send staff to meetings of companion projects in other regions when requested by advisers; to send representatives to meetings to coordinate any and all research findings for regional problem solution; to publish Proceedings of symposia, conferences, etc., and in other respects, to undertake cooperative efforts with RRF support which heretofore have been engaged in only to a limited extent.

RRC recommends approval of the amendment, with the suggestion that Directors recommend it with high endorsement to the Committee of Nine and CSRS.

/Ely moved, Leyendecker seconded, adoption. However, he suggested that action be deferred pending review of the proposed amendment by Directors. This was done by consensus. At a later time, Bohmont moved, Peterson seconded, taking up the question. Passed. The motion that the amendment be recommended with high endorsement to the Committee of Nine and CSRS, passed.

B. PROPOSAL FOR REVISIONS AND NEW PROJECTS

1. Authorized for outline preparation:

W-37, Natural Factors Responsible for Grasshopper Population Change. Although this project has been in existence for about ten years, the problem still exists. RRC recommends that the committee be authorized to proceed with revision or a new outline.

/Ely moved, Wheeler seconded, adoption. Passed.

W-44, Species Differences in Lipid Metabolism of Man and Certain Laboratory Animals. RRC commends W-44 for its past accomplishments. The committee

should concentrate on a specific problem in a revision or new project.

RRC recommends authorization for the committee to proceed with preparation of the outline.

/Ely moved, Rasmussen seconded, adoption. Passed./

WM-26, Physical and Chemical Properties Affecting Consumer Use of Western Fruits and Vegetables. RRC believes a contribution can be made in this area, but suggests that the committee limit its study to only a few commodities and concentrate on Objective 2. This objective is to develop and standardize techniques of measurement.

RRC recommends authorization for preparation of the outline.

/Ely moved, Peterson seconded, adoption. Passed./

2. Referred to Western Directors for Decision:

W-69, Housing for two-Person Households for the Aging. RRC was divided in opinion as to the appropriateness of this area for Station endeavor. It is a project which could perhaps be funded with grants from Health, Education, and Welfare, or elsewhere. RRC asks that Western Directors consider the merits of this project.

/Advantages and disadvantages of activating the proposal were discussed. Henderson moved, Rasmussen seconded, that the W-69 Technical Committee be authorized to proceed with revision but with the understanding that the Adviser is to notify other States of the date and place of the meeting. Passed./

3. Action to Authorize Revision not Taken:

W-25, Factors Controlling the Direction and Rate of Change in Range Vegetation. This proposal is entirely too broad, in RRC's opinion. Coordination of broad-scale research should not be attempted by a technical committee. RRC requests the committee to submit one or more specific problem oriented proposals offering promise of accomplishment of objectives within a reasonable period of time.

RRC recommends that authorization to revise be withheld pending submittal of more specific proposals.

/Ely moved, Frevert seconded, adoption. Hervey requested that decision be deferred pending a review with RRC of the objections by RRC to the proposal. Frevert moved, Wheeler seconded, that the motion be tabled. Passed.

/At a later meeting, Henderson moved, Frevert seconded, that the question be taken up for consideration. Passed.

/Hervey reported that he was in agreement with the RRC recommendation and if passed will ask the technical committee to submit one or more specific problem-oriented proposals at a later meeting. The motion passed.

W-74, Seed Chalcids Attacking Leguminous Seed Crops.
RRC believes that work on chalcids might be completed with non-regional funds. It encourages the technical committee to accomplish objectives of the current project by 6/30/66. If the results yield promising leads as to other areas of regional interest, the committee should submit a proposal for review.

RRC recommends that authorization to revise W-74 be withheld.

/Ely moved, Peterson seconded, adoption. Passed.

C. AD HOC COMMITTEE RECOMMENDED

Wildlife and Recreation. As reported in November 1964, RRC has considered the desirability of authorizing an ad hoc committee which would meet to examine what Stations are now, and should be, doing in the area of wildlife and recreation. WAERC has done considerable work on an ad hoc basis in this area, but its consideration has not covered all disciplines.

RRC recommends that Alexander be appointed as Adviser to organize an Ad Hoc Committee for this review. RRC suggests that he should seek full cooperation in this review from members of WAERC's Range and Water Committees and other interested groups.

/Ely moved, Henderson seconded, adoption. Passed.

D. REASSIGNMENTS OF ADVISERSHIPS

RRC received a request from Thorne that he be relieved of some of his Advisership duties. RRC recommends the following immediate shifts:

Social Science Committee, from Thorne to Buchanan.

W-67, Soil-Plant-Water Relationships, from Thorne to Hill.
W-68, Soil Moisture Movement, from Thorne to Asleson.
W-81, Water Transfer, from Thorne to Huffman.
W-54, Adjusting Farming, from Asleson to C. P. Wilson.

Ely moved, Rasmussen seconded, adoption. Passed.

E. TRUST FUND REQUESTS

RRC reviewed requests for trust funds to finance regional services and facilities. It reminds Advisers that there is no provision for trust funds to finance interregional and specialist travel. RRC encourages all Directors to support such travel when requested by Advisers. Some specific comments follow:

W-45 - RRC recommends continuation of the special funding pattern for 1965-66, but will carefully review this matter of trust funds for contributing research when W-45 comes up for revision in 1966.

WM-51 - RRC believes the progress on this project will not be hampered materially by deferral for one year of any special trust for computing purposes.

RRC recommends adoption of the trusts shown in Table 1, for 1965-66, except for the Administration trust which will be considered later.

Ely moved, Henderson seconded, adoption. Passed.

F. OTHER ITEMS

1. RRC wishes to remind Advisers that proposals to revise and summaries of accomplishments under current projects should be forwarded to RRC before project outlines are revised.

The technical committees for the following projects due to terminate 6/30/66 have not as yet been authorized to proceed with revision:

W-6, New Plants; W-25, Rangeland Improvement; W-34, Range Livestock Nutrition; W-40, Breeding Forage Plants; W-45, Pesticide Residues; W-49, Cattle Breeding Failures; W-74, Leguminous Forage Insects; WM-38, Cooperatives; WM-44, Promotion and Utilization; WM-46, Milk Market Organization; and WM-49, Cotton Marketing.

RRC will review proposals from any of these groups at its July 19, 1965 meeting. RRC also wishes to remind Advisers that hereafter Advisers are to evaluate project outlines for the Region as indicated in Directors November 1964 Minutes, p. 16.

2. Summary of Actions on Projects due to Terminate 6/30/65:

- W-31 - Revision approved, see W-85.
- W-50 - Revision approved.
- W-54 - Revision approved.
- W-60 - To terminate without revision or replacement.
- W-69 - Revision preparation, and approval by mail, authorized.
- W-71 - Revision approved.
- WM-16 - Revision approved as WM-52.
- WM-39 - To terminate without revision or replacement.
- WM-40 - Replacement outline approved as WM-53, subject to certain corrections as indicated above.
- WM-43 - To terminate without revision or replacement.

3. Projects due to Terminate 6/30/67:

W-24, W-27, W-38, W-41, W-48, W-58, W-80, WM-33 but see March 1962 Minutes, page 87, WM-35 and WM-50.

4. New Projects being Activated 7/1/65:

W-86, W-87 and W-88.

5. Tables 2 and 3 are appended to the Minutes for the information of Directors as to approximate allocations of RRF in 1965-66 and approximate State total allotments of RRF in 1965-66.

ARPC

Peterson reported on activities of the Agricultural Research Planning Committee which was organized in 1964. Members are appointed by the Secretary of Agriculture to carry out functions suggested by ESCOP. The Committee has appointed several subcommittees for the handling of special assignments. One of these is concerned with scientific manpower of the Department and the Stations. One task of this subcommittee is to review the faculty status of USDA personnel located on campuses.

Knoblauch discussed several aspects of this subcommittee's deliberations, including policy on USDA employees training; graduate assistants to work under RMA contracts and grants;

faculty and graduate faculty status of USDA research personnel stationed at Land-Grant Colleges or Universities; training of Experiment Station scientists; and training, exchange and other USDA-University relationships. Three specific items relating developments in this area are reproduced below:

A. Policy on USDA Employee Teaching

Under date of February 2, 1965 Dr. Brady received the following policy statement on employees teaching:

"As you requested in a memorandum dated December 3, 1964, the reference prohibiting the establishing of special tours of duty for employees engaged in teaching has been eliminated.

"The new instructions will permit adjustment of work schedules at the discretion of the head of the agency concerned to enable non-temporary full-time employees to teach at educational institutions.

"These and certain other changes in this general area will appear in the revised instructions. The complete revision should be printed and distributed in about two weeks."

(Memo from Acting Director of Personnel, USDA.)

B. Graduate Assistants Assigned to Work Under RMA Contracts and Grants

"ARS has always pursued a policy of selecting contractors for RMA research contracts and grants on the basis of outstanding research facilities and technical competence in order to achieve the best possible performance. Every attempt has been made to select project leaders or project supervisors with the best technical or scientific backgrounds in order to bring about optimum research findings. Division Directors, subject-matter specialists, negotiators and Division Administrative Officers should at the time of negotiation discuss with the contractor or grantee the desirability of assigning to the research graduate assistants of high caliber as the success of the research may well depend upon the competence of *** the assistants assigned. During performance of the contract or grant research, the Contracting or Authorizing Officer's designated representative should continue to emphasize that the best available *** talent should be utilized in carrying out the research."

(Excerpt from ARS Temporary Circular 64-203 - 12/1/64.)

C. Faculty and Graduate Faculty Status of USDA Research Personnel Stationed at a Land-Grant College or University

- (1) "As chairman of the Agricultural Research Planning Committee subcommittee on Scientific Manpower, I have been asked to request that variation in practice of the various universities where USDA research personnel are stationed, with respect to the faculty status of such personnel, be discussed at the Spring 1965 Regional Directors meetings. Dr. Knoblauch expects to attend the North Central and Western, and I expect to attend the Northeastern and Southern. We will be prepared to comment briefly on this topic

"Most universities confer appropriate professorial rank on qualified senior personnel. Such action facilitates the participation of such persons in limited classroom teaching and supervision of graduate students. Such participation by its research personnel is encouraged by USDA when specifically approved."

(T. C. Byerly to L. M. Turk, Alex Black, O. B. Garrison and R. E. Huffman - Chairmen, Regional Directors, 2/3/65.)

With regard to the third item, faculty and graduate faculty status, Knoblauch stated that it is not really a question of faculty status but rather of graduate faculty status which is required to permit supervision of graduate students, teaching graduate level courses, etc. He stated that CSRS may direct an inquiry to graduate school Deans to determine what requirements USDA personnel must meet to be classified as graduate faculty.

Station Role in
Land and Water
Research Pro-
grams

Hill reported that Thorne had raised question as to whether Stations can or should try to develop working relationships with Federal agencies having research programs in the area of land and water development use and conservation. He reported that several Federal agencies have large programs of this nature.

The Chairman appointed Frevert, Chairman; Huffman, Wheeler and Peterson, to study the questions and report back to the group at a later session.

This group reported back that, in its opinion, Western Directors can do very little in the way of influencing Federal agencies' programs. It was felt that this would require cooperation at the National level among the Stations.

Frevert moved, Wheeler seconded, that Western Directors recommend that ESCOP establish a subcommittee to review the situation in land and water research and determine what, if any, action might best be taken. Passed.

The group also considered a problem which appeared to be approaching a critical stage with respect to the patent clause in the granting contracts being signed, or presented for signing, between a number of Land-Grant Universities and the Department of the Interior for the establishment of Water Research Institutes.

Peterson moved, Leyendecker seconded, that Western Directors suggest that the Chairman of ESCOP invite Dr. Roland P. Renne, Director, Water Resources Research, Department of Interior, to meet with ESCOP at its next meeting to discuss relationships between Department of Interior and the States with respect to Water Research Institutes, and particularly with regard to the matter of patent policy. Passed.

Regional Research
Publication
Policy

Rasmussen reported that the Washington Station editor had reviewed the Regional Research Publication Policies of Western Directors and had offered certain recommendations for his consideration. These recommendations were that there should be no regional cover format; that one State act as holder of the regional number series, if regional numbers are required; and that editors at each Station be authorized to handle regional publications in the most economical manner.

Discussion emphasized that current policies are liberal in their permissive nature. No action was taken.

Approval of
Meetings in
Hawaii

Huffman reported that he was concerned that his responsibility with regard to the approval of technical committee meetings in Hawaii could not be exercised readily. Procedures adopted in November 1964 [WD Minutes, pages 19-20] require that Advisers determine from the Chairman of Western Directors what other groups have already been authorized to meet in Hawaii in the fiscal year in question. If two or more other groups had already been authorized to meet in Hawaii in the fiscal year, the Adviser should either not approve the proposed meeting place, suggest deferral of the meeting to a later fiscal year, or refer the matter to Western Directors for review and decision. Huffman reported that W-38, W-44, W-56, W-57, and WM-48, technical committees had all requested approval of meetings in 1965-66 and that WM-51 had requested approval for 1966-67.

Bohmont stated that it seemed unreasonable to him to refer such questions to the Chairman of Western Directors and most unreasonable to refer them to the Western Directors as a group. He stated that he as Adviser was willing to accept

the responsibility of determining whether or not a meeting of his committee in Hawaii is acceptable to the Hawaii Station and is justified.

Bohmont moved, Henderson seconded that hereafter Advisers need not refer questions of meeting in Hawaii to the Chairman of Western Directors, as required by the policy adopted in November 1964. Passed.

Replacement of
Recording
Secretary

Huffman reported on developments in the search for a replacement for WAERC Secretary and Recording Secretary. Directors asked that he instruct the WAERC Committee responsible for this selection to select the best qualified individual who may be available.

Huffman also read, for the information of Directors, the resolution adopted by WAERC in July 1964 reporting its appreciation for the services of WAERC Secretary.

RRF Trust for
Reimbursement
of ERS Services

Huffman reported that ERS had raised question concerning the adequacy of the trust fund used to reimburse ERS, in part, for services of WAERC Secretary and Recording Secretary. Following discussion, Ely moved, Rasmussen seconded, that the RRF trust fund for these purposes be increased in 1965-66 to \$8,800. Passed.

Pesticide Residue
Tolerance in
Animal Products

Peterson reported on steps being taken in California in an attempt to gain acceptance of small tolerances for pesticide residues in milk, meat and eggs. He stated that there are no tolerances, even though it is economically not feasible at present to produce animal products which contain no trace of residues.

Program for 1965
Meeting of Experi-
ment Station
Section

Ensign reported that the Executive Committee of the Experiment Station Section will meet March 16, 1965 to discuss and organize the program for the 1965 meeting. He asked for suggestions of Directors for the program.

Resolution of
Appreciation

Wheeler reported that he has requested to be relieved of his duties as Director of the Colorado Agricultural Experiment Station on July 1, 1965. He expressed his thanks for the associations with Western Directors over the past 15 years and his hope that he will see the group from time to time in the future. He stated that he will continue as Dean of the College of Agriculture at Colorado State University after July 1.

Bohmont offered the following resolution of appreciation:

WHEREAS, Dr. Sherman S. Wheeler has been an active and dedicated member of the Association of Western Directors for the past 15 years; and

WHEREAS, Director Wheeler plans to retire from active Administration of the Colorado Agricultural Experiment Station as of June 30, 1965; and

WHEREAS, Director Wheeler's contribution to Agriculture in the Western Region and the Nation is well known and his active participation in the deliberations of the Western Directors will be missed;

THEREFORE BE IT RESOLVED, that the Association of Western Directors at their official spring sessions on March 3, 4, and 5, 1965 at Berkeley, California wish to recognize Dr. Wheeler for his leadership and contribution to agricultural research and sincerely wish him continued health, happiness and success.

Bohmont moved, Peterson seconded, adoption of the resolution. Passed unanimously with rising applause.

Kraus moved, Ely seconded, that Western Directors express their thanks to the University of California for the facilities arranged for these meetings; to Kelly, Linsley, Peterson, and Vaux, for the hospitality shown by them and their wives to visiting Directors and their wives; and to Director Copley and other personnel at WURDD for the program and tour at the Laboratory. Passed unanimously.

Certificate for
Former Members
of WAESD

Directors discussed the possibility and feasibility of presenting appropriate certificates to retired members of WAESD. Leyendecker volunteered to take suggestions of Directors as to wording and design and to bring a tentative format to the July 20-22, 1965 meeting for decision.

By consensus, Directors agreed to forward suggestions to Leyendecker.

November 1965
Meeting

By consensus, it was agreed that Western Directors should ask the Executive Secretary of NASU&LGC to reserve a room for one or more meetings of Western Directors for a total period not less than four hours. Gerald and Linsley will make arrangements.

Date and Place
of Spring 1966
Meeting

Frevert moved, Leyendecker seconded, that Western Directors meet at the University of Arizona in Tucson in the spring of 1966. Passed. The dates of March 9-11, 1966 were tentatively selected as the dates for the meeting.

Meeting at the
Western Regional
Research Labora-
tory

Directors met at the Western Utilization Research and Development Division Laboratory of the Agricultural Research Service in Albany, California, the afternoon of March 4, 1965. The program prepared by staff there consisted of preliminary discussions and a tour of four areas of study in the Lab. The program was as follows:

Welcome M. J. Copley, Director, WURDD

Remarks R. E. Huffman, Chairman, Western Association of Agricultural Experiment Station Directors

Remarks M. J. Copley, Director, WURDD

Mycotoxins

A. C. Keyl, Head, Pharmacodynamics Investigations,
Pharmacology Laboratory, WURDD

Egg Pasteurization and Other Food Bacteriological Problems

Hans Lineweaver, Chief, Poultry Laboratory, WURDD

Castor Allergy

L. L. Layton, Head, Physiologically Active Compounds
Investigations, Pharmacology Laboratory, WURDD

Tour of Laboratory

1. WURDD Wheat Pilot Plant
Studies in Reverse Osmosis

A. I. Morgan, Jr., Chief, Engineering and
Development Laboratory, WURDD

2. Wool Processing Laboratory

H. P. Lundgren, Chief, Wool and Mohair
Laboratory, WURDD

3. Report on the Plant Enzyme Pioneering Research
Laboratory

E. F. Jansen, Chief Chemist, Plant Enzyme
Pioneering Research Laboratory, WURDD

4. Flatulence Studies on Dry Beans

E. L. Murphy, Chemist, Legume Investigations,
Vegetable Laboratory, WURDD

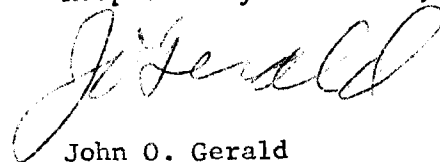
In addition to program participants listed above, the attendants at this meeting follow:

M. J. Copley, Director
Fred Stitt, Assistant Director
C. H. H. Neufeld, Assistant Director
A. H. Brown, Assistant Director
R. L. Olson, Assistant Director
R. H. Nagel, Assistant to Director
H. K. Burr, Chief, Vegetable Laboratory
Hans Lineweaver, Chief, Poultry Laboratory
A. I. Morgan, Jr., Chief, Engineering & Development
Laboratory
W. L. Stanley, Chief, Fruit Laboratory
G. O. Kohler, Chief, Field Crops Laboratory
J. W. Pence, Chief, Cereals Laboratory
F. DeEds, Chief, Pharmacology Laboratory
E. F. Jansen, Chief Chemist, Plant Enzyme Pioneering
Research Laboratory
A. C. Keyl, Head, Pharmacodynamics Investigations,
Pharmacology Laboratory
L. L. Layton, Head, Physiologically Active Compounds
Investigations, Pharmacology Laboratory
W. L. Wasley, Head, Fiber Chemistry Investigations,
Wool and Mohair Laboratory
E. L. Murphy, Chemist, Legume Investigations, Vegetable
Laboratory

Adjournment

The meeting was adjourned.

Respectfully submitted,



John O. Gerald
Recording Secretary

Table 1. 1965-66 Trust Allotments Recommended by WD
March 3-5, 1965

Project and State	1964-65 Allotment	1965-66 Funds	
		Requested	Recommended
W-6 Arizona	\$ 1,000	\$ 1,000	\$ 1,000
Hawaii	750	750	750
Montana	1,000	1,000	1,000
Oregon	500	500	500
Washington	40,398	41,431	41,431
Total	43,648	44,681	44,681
W-45 Arizona	5,125	5,125	5,125
California	10,240	10,240	10,240
Colorado	5,120	5,120	5,120
Hawaii	5,120	5,120	5,120
Idaho	5,120	5,120	5,120
Nevada	5,120	5,120	5,120
Oregon	5,120	5,120	5,120
Utah	5,120	5,120	5,120
Washington	5,120	5,120	5,120
Total	51,205	51,205	51,205
W-49 Colorado	-	300*	-
W-57 Arizona	500	500	500
W-60 Colorado	700	(See W-80)	-
W-61 New Mexico	-	200*	-
Washington	-	175*	-
Total	-	375*	-

Table 1. Cont'd.

2

Project and State	1964-65 Allotment	1965-66 Funds	
		Requested	Recommended
W-80 Colorado	(See W-60)	700	-
W-84 California	18,000**	18,000**	18,000**
WM-35 Wyoming	-	300*	-
WM-48 Washington	10,000	10,000	10,000
WM-51 Hawaii	-	3,000	-
RRF Admin. Montana	8,195	8,800	8,800
TOTAL	\$132,248	\$137,861	\$133,186

* For interregional or specialist travel which is to be paid by Station employing the traveler.

** Special "off the top" allocation to be continued through 1968-69 Fiscal Year; see WD Minutes, November 1964, p. 9. This is not a trust fund, however.

Table 2. Approximate Allocations of RRF in 1965-66 ^{1/}

Item	Appropriations (increase over 1964-65)		
	No increase	\$2.0m Increase	\$10.0m Increase
Interregional projects	\$ 199,900	\$ 209,900	\$ 209,900
CRF-1 project	250,000	250,000	250,000
Committee of Nine reserve	100,000	250,000	250,000
Committee of Nine	10,000	10,000	10,000
Total	\$ 559,900	\$ 719,900	\$ 719,900
Total RRF	9,414,313	9,914,313	11,914,313
Residual for Regions	\$8,854,413	\$9,194,413	\$11,194,413
Allocated to Western Region	\$2,169,331	\$2,252,631	\$ 2,742,631
Trusts (see Table 1)	115,186	115,186	115,186
Spec. Allo. (see Table 1)	18,000	18,000	18,000
State Total Allotments	2,036,145	\$2,119,445	\$ 2,609,445

^{1/} Based on indicated allocations shown in November 1964 Minutes of Committee of Nine.

Table 3. Approximate State Total Allotments of RRF in 1965-66

State	:State base:: Quota Allocation ::			:Allocation:: of Increases ^{b/} ::			: State Total Allotment			
	: Adjusted ::	No	\$2.0m	\$10.0m	No	\$2.0m	\$10.0m	No	\$2.0m	\$10.0m
	: Base ^{a/} ::	Increase:	Increase:	Increase:	Increase:	Increase:	Increase:	Increase:	Increase:	Increase:
Arizona	: \$ 144,952 ::	\$ 31,579:	\$ 38,110:	\$ 76,525 ::	\$ 176,531:	\$ 183,062:	\$ 221,477			
California:	236,817 ::	58,699:	70,838:	142,245 ::	295,516:	307,655:	379,062			
Colorado	: 191,297 ::	47,292:	57,072:	114,603 ::	238,589:	248,369:	305,900			
Hawaii	: 72,540 ::	15,145:	18,277:	36,701 ::	87,685:	90,817:	109,241			
Idaho	: 116,935 ::	28,876:	34,848:	69,976 ::	145,811:	151,783:	186,911			
Montana	: 127,682 ::	33,496:	40,423:	81,172 ::	161,178:	168,105:	208,854			
Nevada	: 70,695 ::	17,163:	20,712:	41,591 ::	87,858:	91,407:	112,286			
New Mexico:	77,065 ::	20,063:	24,212:	48,619 ::	97,128:	101,277:	125,684			
Oregon	: 190,532 ::	45,080:	54,403:	109,244 ::	235,612:	244,935:	299,776			
Utah	: 137,142 ::	35,163:	42,436:	85,213 ::	172,305:	179,578:	222,355			
Washington:	160,210 ::	40,855:	49,304:	99,005 ::	201,065:	209,514:	259,215			
Wyoming	: 107,488 ::	29,379:	35,455:	71,196 ::	136,867:	142,943:	178,684			
Total	: \$1,633,355 ::	\$402,790:	\$486,090:	\$976,090 ::	\$2,036,145:	\$2,119,445:	\$2,609,445			

^{a/} See RRC Report (Resumed), Item E-2, March 1964 Minutes, page 18.

^{b/} Allocation of increases computed on basis of "percentage of increases" shown in Column 3, Table 2, March 1963 Minutes, page 33.