

MINUTES OF MEETING OF
WESTERN EXPERIMENT STATION DIRECTORS
July 21, 1955
Laramie, Wyoming

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Revised
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distributed 11/13/55

1. Present:

J. E. Kraus, Chairman, Idaho
R. W. Henderson, Secretary, Oregon
Harold Benn, Wyoming
G. H. Bridgman, Wyoming
H. M. Briggs, Wyoming
M. T. Buchanan, Washington
A. S. Curry, New Mexico
R. D. Ensign, Idaho
C. E. Fleming, Nevada
Gale Hamilton, Colorado
R. S. Hawkins, Arizona
M. M. Kelso, Montana
F. E. Price, Oregon
P. F. Sharp, California
D. W. Thorne, Utah
S. S. Wheeler, Colorado

E. C. Elting, Office of Experiment Stations
V. L. Harper, Assistant Chief, Forest Service
J. C. Knapp, Administrator, FCS
Raymond Price, Forest Service
K. S. Quisenberry, Crops Research, ARS
O. E. Reed, Livestock Research, ARS
Walter M. Scott, Utilization Research, ARS
Harry C. Trelogan, Director, AMS

2. Minutes of February, 1955, Meeting

On page 9 of the February, 1955, minutes the figure \$18,900 proposed for WM-23 was corrected to \$19,000. No other changes were made.

3. Reports by USDA Representatives

a. Chairman Kraus called on Dr. Quisenberry for a discussion of the ARS program in Crops Research. Crops Research Branch received some increases in Field Crops, Horticulture, and Entomology, which will permit strengthening of some of the cooperative programs with the states.

Entomology: Mexican fruit fly, bees (Arizona and Utah), insect resistance to insecticides (Washington), mosquitoes (Oregon).

Crops: Alfalfa breeding in west, grass breeding, range and forage in Colorado and Montana, weeds in range.

Horticulture: Virus diseases - Washington and Utah; grape virus - California citrus decline - Florida; National arboretum, Washington, D. C.

Other emergency items: Yellow clover aphid - expanded work in Southwest. Cantaloupe work in Arizona and California. Air pollution - agriculture does not get any of the \$5,000,000 special appropriation. Health, Education and Welfare may be able to make some funds available to the states for work with states affecting plants and animals.

Wheat: Proposed list of inferior wheat varieties was discussed.

Miller Bill: Implications discussed.

Crop allotments: When a station enters into an agreement with a grower to increase a crop the station must take full control of the crop. The station should contract for a fixed price to have crop grown, and station rather than grower must sell the crop.

Seed Storage Facility: Hopeful that it will be in the 1957 budget. Thorne moved that the Western Directors group give our encouragement to this proposal and urge its approval. Seconded by Henderson. This was withdrawn and the following statement prepared by Buchanan and seconded by Briggs was substituted and passed: The National Seed Storage Facility was discussed at some length. Among the questions raised was, "What other capital outlays are to be included in the 1957 budget request?" There was no definitive answer to this question. The Directors then passed the following resolution: "WITHOUT PREJUDICE TO OTHER CAPITAL OUTLAY PROPOSALS OF ARS ABOUT WHICH WE HAVE INCOMPLETE OR NO INFORMATION AT THE PRESENT TIME, WE GO ON RECORD AS FAVORING THE APPROPRIATION OF FUNDS FOR THE ERECTION AND OPERATION OF THE NATIONAL SEED STORAGE FACILITY AS A PART OF THE BUDGET OF AGRICULTURAL RESEARCH SERVICE."

b. Reed, Director of Livestock Research of ARS, reported on developments in his group. McPhee retired July 1st. Simms will take Reed's position as Director of Livestock Research in September. Although the disease laboratory work in the East Wing of Agriculture building has been excellent they have been directed to discontinue the work on disease organisms affecting man, such as anthrax and tuberculin. This presents an emergency need for facilities. Ornithosis presents a new disease problem. Work on this project is now being carried on in cooperation with the Texas, California, and Minnesota Experiment Stations.

He discussed the efforts of the American Cattlemen's Association regarding beef cattle breeding research.

Dr. Warwick will replace Dr. Madsen and will be cooperating on W-1. Dr. Terrill will be transferred from Dubois to Beltsville. He will head up all sheep work.

Wheeler: Has disease branch developed cooperative programs with states on rhinitis or red nose?

Reed: Not up to the present time. It may be done later under new appropriations.

c. Comments by Dr. Scott. Assistant Director Carl Spach has retired and was replaced by Dr. Matchett. Planning staff in Washington has been reduced to three people, Director Hilbert and Assistant Director Scott and Matchett.

Topics suggested for collaborators meeting were:

1. Instrumentation
2. New evaluation methods - analytical, organoleptic, consumer acceptance.

3. Forage crop problems and progress.
4. New and improved western fruit and vegetable products.
5. Recent developments in processing poultry and eggs.
6. Sugar beet technology - laboratory and pilot plant studies.

Copley suggested a two-day formal program plus a third day for informal individual conferences.

BRIGGS MOVED AND PRICE AND BUCHANAN SECONDED THAT WE RECOMMEND TO DIRECTOR COPLEY INSTRUMENTATION BE SELECTED AS FIRST PREFERENCE WITH NEW EVALUATION METHODS AS ALTERNATE OR AS COMBINATION. ATTENDANCE OF STAFF MEMBERS IN ADDITION TO COLLABORATORS WAS INVITED AND URGED. Motion carried. Dr. Scott will convey this action to Director Copley who will suggest possible convenient dates.

The utilization research program was discussed only briefly because of limited time and because it had been discussed in some detail at the earlier meeting of the Western Directors at our laboratory in Albany, California.

d. Harry Trelogan called attention to the following personnel items of interest.

Dr. Omer W. Herrmann, who has been agricultural attache in Paris, has been appointed Deputy Director for Research and Statistics of the Agricultural Marketing Service and is currently assuming his new duties.

Dr. George Irving, formerly Chief of the Biological Sciences Branch of the Marketing Research Division, transferred to the Agricultural Research Service as Associate Administrator.

Dr. W. T. Pentzer is the new Chief of the Biological Sciences Branch. He was formerly head of the Quality Maintenance Section of the Branch.

Dr. Fred V. Waugh, Director of the Agricultural Economics Division and currently Chairman of our Research Council, is not enjoying sufficiently good health to permit him to attend this meeting.

He discussed briefly changes in program that were under way, particularly in the Western Region, including the Khapra beetle program.

New studies are proposed relative to produce markets in the San Francisco area.

About \$250,000 has been earmarked by Congress for cost and margin studies in the 1956 fiscal year.

Increased activity in grain sanitation research will be necessary because of tightening of standards by the Food and Drug Administration.

Sharp inquired regarding status of Home Economics research. The discussion centered around activity of committee that was recently appointed to study the problem.

e. Comments by Joe Knapp, Farmer Cooperative Service Administrator.

Knapp reviewed activities of his group in working with cooperatives. Copies of his paper entitled "The Mission of the Farmer Cooperative Service" were distributed.

15% of the marketing cooperatives are located in the western states, representing about \$2,000,000,000 gross and 340,767 memberships in 970 associations. About 14% of the total U. S. farm supplies and equipment purchasing business comes through cooperatives.

Knapp reviewed the progress made by the recent Western Region Conference on Co-operative Research held at Pullman and described on page 3 of the July, 1955, issue of "News for Cooperatives."

f. Comments by Dr. V. L. Harper, Assistant Chief of Forest Service.

He discussed program of the Forest Products Laboratory and the nine regional Forest Experiment Stations. Problem of utilizing forest thinnings has required expanded study.

Forest protection - fire, disease, insects - is requiring more attention as value of timber increases. Problems resulting from upsets of biological equilibrium were described.

New work starting in forest genetics. Much basic research needed before much practical application can be made.

Watershed research is fourth area receiving increased attention.

Kelso inquired regarding opportunity for cooperation between Forest Service and States in research on marketing of farm forest products, for example.

4. Comments by Dr. Elting, Acting Administrator of the Office of Experiment Stations

Additions and changes in staff of the Office of Experiment Stations will be announced shortly.

He discussed forthcoming committee to work on revision of wheat standards and asked Directors to endorse at least two experiment station representatives. The names of D. D. Hill and Mark Barmore were suggested. DIRECTORS WERE IN AGREEMENT THAT A REPRESENTATIVE SHOULD BE SOUGHT FROM GREAT PLAINS HARD WHEAT AREA. A MOTION TO THIS EFFECT BY BRIGGS WAS SECONDED AND CARRIED. Dr. Quisenberry is to relay this action to Washington, D. C.

Because of Miller pesticide act, a zero tolerance is in effect on new pesticides until cleared otherwise. Implications relative to station publication were discussed. Some publications will have to be stopped and others already in print may have to have disclaimer statements appended before distributing.

Group asked Sharp to send to each Director a copy of the statement to be issued to his staff relative to the Miller amendment.

Price emphasized importance of stations' role in closing gap between Food and Drug people and farmers.

Sharp discussed liability angles relative to quoting results of other stations without having done some experimentation. If results of another state are erroneous, another state becomes liable even though results were quoted verbatim.

Comments of legislative committee relative to regional research program were discussed by Elting.

Need for more specific justification statements to support 9b program requests was emphasized.

He raised question regarding how effectively we are gearing our program to meet emergency problems. Fluorine problem was cited as an example. Need for Federal and State interests to keep each other better informed relative to these problems that can become major issues after appropriation requests have become finalized, as in the case of yellow clover aphid, cantaloupe blight and bee problem.

Low income farm problem was discussed. About \$3,000,000 will be available with about \$350,000 under Sherman Johnson's direction and about \$2,000,000 to Extension.

In hearing the House took a dim view of the proposed elimination of the 20% marketing minimum. (See page 5, line 21 of bill)

Elting discussed report of Commission on Intergovernmental Activities which proposes amendment of formulas for allocation of Federal Grant-in-Aid Programs.

Price and Buchanan urged cooperation with American National Cattlemens Association, and Price reported favorable progress at Denver meeting.

5. Buchanan reported on Legislative Committee. He reported also on Farm Commodity Advisory Committee meeting. This group favored reduction in Extension appropriation, no change in proposed budget for research in states and increase in budget for USDA research.

He discussed importance of discouraging earmarking of funds.

6. Desirability of establishing a set of procedures regarding the selection, preparation, initiation and maintenance of regional cooperative projects. Curry read a statement he prepared relative to policy in selecting new projects. Statement is as follows.

"Confusion, difficulties and discouragement during the past few years regarding the development of the regional research program indicate that there is something lacking in the manner in which this program is administered.

"Procedures should be developed which will permit the greater use of intelligence, judgment and efficiency in establishing and maintaining a program of this sort. The adoption and use of proper procedures will contribute towards harmonious relationships and greater interest in the studies by members of technical committees and others.

"As a means of bringing about improvement in this situation it is suggested that the Directors adopt procedures of the sort indicated below:

(1) The Directors should survey their own staffs to obtain project statements for consideration for possible regional study. These statements should include 'title,' 'objectives' and 'justification.' These statements need not be in the form of the final finished product, but they should be adequately specific so they will not be confused with other studies or proposed studies. If a State or States wishes project statements based on proposals by other groups (such as WAERC) that's fine. If several states submit the same suggestions, it indicates wide interest.

(2) These statements should be compiled and distributed to all Directors in the Region with the request that they, with the aid of their staffs, classify the statements on a priority basis to determine which of the statements should be developed into possible regional projects.

(3) After the various statements have been classified and selected by the Directors as individuals, the Directors as a group should then select a few for initiation or possible initiation. These selections should then be considered by the Directors as a group and classified on a basis of importance and priority. The Directors should then select a few of the statements for development into regional project proposals. All proposals should be reviewed each year and reclassified as the occasion demands.

(4) After a few specific proposals have been selected for possible use the Directors should appoint a subject-matter committee of three persons and charge them with the specific responsibility of carefully preparing regional proposals on the specific subject and not on the general area. These proposals would give special attention to 'Title,' 'Objectives,' 'Reasons for Undertaking the Work,' and 'Previous Work.' The other parts of the outline should be left to the official technical committee.

(5) After acceptable regional proposals have been prepared by the subject-matter committee they should be circulated among all Directors to determine which states will actively cooperate on the project.

(6) After this has been determined the technical committee should be appointed and instructed to complete the outline for final approval.

Procedure for the Allocation of 9b3 Non-Marketing Funds to States.

"It is recognized that this task is a responsibility of the technical committee. However, some of these committees have become discouraged with this problem and have recommended that they be relieved of the responsibility. This definitely indicates the need for a sound workable procedure which will permit the committee members to use their knowledge, intelligence and judgment in making recommendations for allocations by States.

"Therefore, it is suggested that the Directors encourage the use of the procedures indicated below:

A. The 9b3 allocation of funds should be made in one amount to the regional project by the Directors, as is done at present. The Directors should indicate to the technical committee, at the earliest possible date, the approximate amount of 9b3 funds they will ultimately allot to the project.

1. The problem of allocations to states should be discussed whenever appropriate during the meetings of the technical committee.
2. It should be made clear that final decision regarding the state allocations will not be made during the meeting.
3. Project reports during meetings should include a discussion of the financial picture, including 'State and other funds' as well as '9b3 funds,' the 'accomplishments,' 'the work in progress' and 'future work.' These discussions will yield information of value to all committee members regarding the proper allocation of 9b3 funds for the succeeding years.
4. After adjournment of the meeting each committee member will be in possession of information which will enable him to summarize the situation in private and arrive at reasonably sound conclusions as to the proper allocation of the 9b3 funds.
5. These recommendations should then be mailed to the Chairman, technical committee, for summarizing and inclusion in the budget.

"Technical committee members must go to technical committee meetings equipped with up-to-date information regarding the budget picture. They must know the amount of staff time, the amount of salary and the non-salary funds to be allotted the project. They should be informed regarding the amount of state funds and the amount of 9b3 requested."

The group wished to have an opportunity to study these suggestions before taking action at the fall meeting. Curry requested comments from the Directors

7. Representation at October 17-18, 1955. Meeting of the Agricultural Research Institute. Buchanan inquired regarding representation of this group at the meeting of the Agricultural Research Institute on October 17 and 18 in Washington, D. C. Buchanan was designated as official representative of Western Directors.

8.

MINUTES OF JOINT MEETING OF
EXPERIMENT STATION AND EXTENSION DIRECTORS
AT FORT COLLINS
July 22, 1955

President W. E. Morgan of Colorado A. & M. College discussed "The Role of Resident Instruction in Agricultural Development" as

1. A trainer of young men and women,
2. In sparking leaders,
3. In furnishing the central core around which develops the cultural character of the agricultural community.

Director Kraus discussed the topic, "The Role of Research in Agricultural Development." He emphasized the basic nature of research and the need to sell research not only to the farmer but to the consumer. He emphasized the need for more research to determine the basic underlying principles affecting plant and animal growth.

He quoted Wheeler McMillan's editorial to the effect that one million dollars is spent per day for storage of surplus crops and in which McMillan speculated about what would happen to the crop surplus problems if one million were spent per year to develop new crops or alternate uses of present crops to eliminate the surplus problem.

F. L. Ballard, Associate Director of Extension at Oregon State College, spoke on "The Role of Extension in Agricultural Development" tracing the development of the Extension Service program.

"The people will pay through taxation for more than we anticipate if we give them good service," according to Director Ballard.

"Don't talk in terms of what you can do with the staff you have, but instead talk in terms of the needs of the people and they will provide you with the funds to do the job if you handle it right," he advised.

In the discussion that followed, Dean Price emphasized the need for the three divisions, research, resident instruction, and extension, to function as a group, a great deal of the strength of each division coming from its being an integral part of the overall group.

Director Wheeler questioned whether the job opportunity in Extension has been fully sold to our young people.

Assistant Dean Harold Benn emphasized the important function of the Extension Service in recruiting students who will train themselves for roles in Extension, research and resident instruction.

Director Kelso raised the question why agricultural education draws so many more students than the curricula from which we draw most of our Extension and research workers. He suggested that the fact that agricultural education has been more "professionalized." He asked what might be done to stimulate students to seek training for Extension in the numbers that seek training for agricultural education.

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Pertaining to Seed Certification.
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MEETING OF DIRECTORS
July 22, 1955

9.

Meeting reconvened at 1:00 P.M.

9. Fluorine Research. Director Wheeler advised the group that the President of the Colorado State Farm Bureau Federation, Mr. Anderson, was to appear at 2:00 P.M. to encourage allocation of funds for fluorine research. Group disliked having pressure groups appear on programs of Directors' meetings.

Dr. Elting reported that Byron Shaw had made the statement to the effect that the states should use some of their 9b3 increment for fluorine research rather than have USDA funds earmarked for this purpose.

Mr. Anderson, President of the Colorado State Farm Bureau Federation, at the request of the American Farm Bureau Federation, appeared to urge initiation of research with 9b3 funds. He believes that this is a problem for the region to work on and one that needs immediate attention. Believed funds should be shifted to this problem in volume enough to solve the problem in the near future. Problem transcends some of the problems currently being financed with 9b3 funds.

Kraus and Price reviewed developments to date. Price estimated that at least one million dollars have already been spent on research on this problem, mostly financed by industry.

The technical committee will meet again this fall to develop recommendations, after studying available data, regarding future research. At least \$125,000 is being spent in this region this year.

Mr. Anderson inquired whether research is under way to prevent fluorine from getting into air. Price replied that it was our belief that it was industry's responsibility to prevent escape of gas or to accept responsibility for damage done.

In response to Mr. Anderson's question about whether available data has been summarized, Price replied that the Utah station was summarizing data for the region.

Kelso outlined the problem in Montana and discussed plans for handling the problem.

Briggs agreed to try to get to the chairman of the Livestock and Dairy Committee of the American Farm Bureau Federation a copy of the National Research Council's report on fluorosis.

10. Travel to HEPP Meetings. Buchanan discussed status of HEPP with reference to out-of-state travel expenses. Kraus and Henderson objected to this group taking group action against permitting attendance of staff members at HEPP meetings at state expense. It was agreed that the matter would be discussed by Directors of states involved.

11. Statement on Policies and Responsibilities Pertaining to Seed Certification. Desirability of development of such a statement was discussed. Little enthusiasm for such a statement was shown but group referred it back to the ESCOP committee of which Kraus is a member.

12. Resume of Director Kelso's Report to the Western Directors on the Committee of Nine Meeting Held June 14-15, 1955.

The Committee of Nine gave considerable time to a discussion of Congressional statement that certain lines of research, particularly in rural life and population dynamics should be eliminated from the list of regional research projects. The Committee concluded that certain existing regional research projects would be difficult to support before Congress and voted to ask the Southern and North Central Directors to eliminate from the regional research list projects in their regions dealing with such problems as childrearing. However, the Committee concluded that it would be possible to defend before Congress regional research in problems of population movements. No Western regional research project was affected by these discussions.

The Committee of Nine adopted a motion to withhold allotment of regional research funds on certain projects and included in the motion a statement that project write-ups should give increasing attention to the matter of clarity of statement and a clear indication of the significance of the project to the solution of real life problems. The Committee emphasized the importance of project write-ups being, insofar as possible, put in language understandable by the laymen so that the laymen could clearly understand the significance of the project toward the solution of problems significant to the solution of real life problems. It was brought out that this matter was broader in its significance than regional research projects only, but could be considered to apply to all project write-ups, particularly to Federal Grant project write-ups.

The Office of Experiment Stations assured the Committee of Nine that they would support before the next session of Congress the regional research projects in the field of population movements and any other rural life projects submitted by the Directors if they were so written as to be clear and understandable to the laymen.

The Committee of Nine also gave consideration to a proposed interregional research project in Agricultural Price Policy drawn up by a committee of the Committee of Nine which it had set up at its meeting in Washington in November 1954. This committee was composed of Director Dow of Maine, Director Welch of Kentucky, Director Wilson of Kansas, and Director Kelso of Montana. The outline for the proposed interregional research project was not ready in time to hand out to the Western Directors at their meeting but Director Kelso was instructed to see to it that the Western Directors received copies of the interregional project outline as soon as it was available. He asked that the Directors consider the proposed project with the heads of their departments of Agricultural Economics and advise him as soon as possible after they had received it concerning their reactions to it and whether or not their stations would be interested in contributing to such an interregional research project by undertaking a research project dealing with some one of the objectives listed in the project. He pointed out that the Committee had drawn the project with the idea that individual states well equipped with personnel or other facilities that would make it possible for them to undertake a project of national significance that would contribute to the interregional research project would be assigned such contributing project responsibilities. In this respect the contributing projects contributing to the interregional research project would each be of national significance and be of importance to all the states in the country.

13. Interregional Research Proposal on Price Policy. Proposed approach would involve specific assignments to individual workers in individual states with interregional coordination, according to Kelso. No action required at this meeting. Project outlines will be presented for consideration in November. USDA will not enter this area of research.

14. Other Interregional Research Proposals. The proposed project on energy requirements was withdrawn from consideration by several regional groups.

A seed germination project may be proposed by the southern group, according to Price.

Recessed at 5:00 P.M. and reconvened at 9:00 P.M.

15. Discussion of Allocation of Funds for 1956-57. Kraus pointed out that if there is no increase in 1956-57 the allocation for non-marketing projects will have to be reduced by about \$8,570 in order to provide for interregional research projects. At \$3,000,000 and \$6,000,000 increments, \$137,280 and \$286,280 respectively would be available as increases for non-marketing projects in the west. Total allocations for marketing research projects in addition to WM-16 and WM-23 would be \$194,600 with no increase, \$231,000 at \$3,000,000, and \$266,250 at \$6,000,000, compared to \$197,500 in 1955-56.

Sharp suggested that if there is no increase that no additional inter-regional projects be approved. This could be effected by amendment of action taken over a year ago by the Committee of Nine or by disapproving IR proposals.

SHARP MOVED AND BUCHANAN SECONDED THAT PROJECTS W-1 TO W-30 INCLUSIVE BE HELD AT PRESENT LEVEL IN 1957 UNLESS SOME EMERGENCY ARISES. CARRIED.

Kelso suggested that if level is frozen we should let technical committee know that the action applies only to the project numbers involved and does not preclude expansion under a new project proposal.

SHARP MOVED AND BUCHANAN SECONDED THAT WE AUTHORIZE OUR COMMITTEE OF NINE MEMBERS TO USE THEIR BEST JUDGMENT IF NECESSARY IN MAKING ADJUSTMENT IN NO INCREASE COLUMN TO ABSORB AMOUNT THAT MIGHT BE DEDUCTED FOR ACTIVATION OF ADDITIONAL IR PROJECTS. PASSED.

Briggs reported on proposals for new research projects by a committee of the Western Section of the American Society of Animal Production. The titles of the proposed projects are as follows:

Environmental Factors Affecting Growth in Farm Animals.
 Factors Affecting Reproduction in Domestic Animals.
 Factors Controlling the Physiological Activity of the Gastro-intestinal Tract and Feed Utilization in Domestic Animals.

Sharp discussed a proposal entitled "Toxic Residues in Fruits, Vegetables and Animal Products Resulting from the Use of Chemicals to Control Insect Pests and distributed copies to each director.

Wheeler discussed a proposal entitled "Physiological Genetic Studies Involving Different Levels of Soil Fertility" and distributed copies to each Director.

Kraus discussed the following project proposals:

- Adaptability of the small watersheds program to the Western United States.
- Comparative economic analysis of laws and related institutions affecting ground water use in the various Western states.

The former would be an appraisal of the Government's watershed program as it applies to the West.

Wheeler discussed a proposal entitled "Causes and Prevention of Breeding Failure in Beef Cattle." The suggestion was made that this work could be done under W-2, but Wheeler objected strongly because of wide difference in environment of beef cattle and dairy cattle.

Sharp discussed Agnes Fay Morgan's proposal, "The Role of Diet in Cholesterol Metabolism." Directors were supplied with copies of the proposed project.

The W-4 project proposes shifting \$15,000 to the above proposal, and requests \$25,000 additional, making a total of \$40,000. Sharp believes that in a few years W-4 will be replaced entirely by other projects embracing new objectives.

Kraus discussed proposals by Home Economists entitled "The Effect of Marketing Procedures on Quality and Consumer Acceptance of Food Products of Economical Importance in the West" and "Serviceability of Fabrics and Garments. Discussion followed whether latter would raise objectives similar to those raised in the recent Congressional hearings. General consensus of opinion was that proposal was of value but that the marketing proposal would require close coordination between Agricultural Economists and Home Economists.

Henderson proposed the following projects:

- Root development of forage plants in relation to soil environment
(Recommended by W-23 Technical Committee)
- Establishment and persistence of legumes (Recommended by W-23)
- Harmful forage insects (Recommended by W-23)

He reported that he had met in June with western entomologists and with plant pathologists in an effort to stimulate them to set up organizations to screen and develop and promote regional research projects in their respective fields. Recommendations will be forthcoming soon from the entomologists.

Kelso proposed projects entitled "Environment and crop production" and "Animal diseases."

By informal vote the following were eliminated:

- Serviceability of fabrics and garments.
- Factors affecting reproduction in domestic animals.
- Factors controlling the physiological activity of the gastrointestinal tract and feed utilization in domestic animals.

Breeding failure in beef cattle.
 Establishment and persistence of legumes.
 Small watersheds.
 Physiological genetic studies involving different levels
 of soil fertility.

The following was suggested by the administrative advisors as desirable levels for projects W-31 to W-40 and for WM-16 and WM-23:

	<u>\$3,000,000</u>	<u>\$6,000,000</u>	<u>Present level</u>
W-31	\$ 27,000	\$ 27,000	\$ 14,000
W-32	19,000	19,000	10,500
W-33	20,000	23,000	12,000
W-34	50,000	50,000	50,000
W-35	45,000	50,000	35,000
W-36	30,000	30,000	15,000
W-37	15,000	15,000	10,000
W-38	15,000	30,000	8,000
W-39	25,000	25,000	1,855
W-40	20,000	25,000	15,700
WM-16	16,000	16,000	16,000
WM-23	19,000	19,000	19,000

On W-39 it was agreed that the \$25,000 figure should be considered as a set-aside figure to be used in case funds cannot be obtained from other sources.

Curry stated that toxic residues, ground water, forage insects, and animal diseases are the most important new proposals as far as he is concerned.

Kraus and Sharp suggested that the proposal on marketing procedures be financed out of WAERC allocation for marketing research.

Henderson moved and Briggs seconded that \$15,000 be tentatively allocated for the marketing procedure project. This would come out of the marketing quota. (Secretary failed to note whether this motion was voted.)

Elting called attention to pesticide residue projects in Southern and Northeastern regions and urged coordination among work in various regions.

Briggs moved and Wheeler seconded that the following tentative allocations be adopted. Carried.

Project No.	Abbreviated Title	Administrative Advisor	Tentative Allocation for 1956-57		
			**No increase	3,000,000	6,000,000
W-31	The conservation and improved use of nitrogen	D. W. Thorne	\$14,000	\$26,000	\$27,000
W-32	Basic hydrologic factors relating to water conservation	D. W. Thorne	10,500	19,000	19,000
W-33	Economics of alternative methods of water application	D. W. Thorne	12,000	20,000	23,000
W-34	Range livestock nutrition	C. E. Fleming	50,000	50,000	50,000
W-35	Internal parasites of ruminants	M. M. Kelso	35,000	43,335	50,000
W-36	Efficiency in the harvesting and use of seeded forage crops	A. S. Curry	15,000	25,000	30,000
W-37	The biology and ecology of rangeland grasshoppers	M. M. Kelso	10,000	15,000	15,000
W-38	Fungus induced root diseases	R. W. Henderson	8,000	15,000	30,000
W-39	Effects of fluorine	F. E. Price	1,855	25,000	25,000
W-40	Breeding forage plants	R. W. Henderson	15,700	20,000	25,000
W-41	Animal diseases	H. M. Briggs	-	15,000	30,000
W-42	Ground water laws	F. E. Price	-	10,000	15,000
W-43	Forage insects	R. W. Henderson	-	8,000	20,000
W-44	Role of diet in cholesterol metabolism	P. F. Sharp	-	10,000***	25,000***
W-45	Toxic residues	P. F. Sharp	-	8,000	15,000
W-46	Environmental factors affecting growth in farm animals	C. E. Fleming	-	-	30,000
W-47	Root development of forage plants in relation to soil environment	R. D. Ensign	-	-	20,000
W-48	Environment and crop production	M. M. Kelso	-	-	9,337
WM-26	Marketing procedures and quality of products	J. E. Kraus	-	15,000	15,000
WM-27	Livestock shrinkage	M. M. Kelso	*	*	*
WM-28	Quality factors	J. E. Kraus	*	*	*
WM-29	Price supports	M. M. Kelso	*	*	*
WM-30	Legume and grass seeds	M. T. Buchanan	*	*	*
WM-31	Farm forest products	S. S. Wheeler	*	*	*
WM-32	Long staple cotton	A. S. Curry	*	*	*

* Revised figures to be obtained from WAERC.

** If one or more proposed new inter-regional projects are approved, it will be necessary to make some reductions in the figures indicated in this column.

***An additional \$15,000 will be transferred to W-44 from present allocation of W-4, "Nutritional Status of Population Groups in Selected Areas of the West," making total allocation of \$25,000 and \$40,000 at the \$3,000,000 and \$6,000,000 levels, respectively.

16. Special Instructions to W. A. E. R. C.

W.A.E.R.C. should be informed:

- (1) That we have set target figure for Agricultural Economics Marketing figure at \$3,000,000 level at \$216,500.
- (2) We are approving W-42 for \$10,000 at \$3,000,000 level.
- (3) We have adopted a freeze rule on certain other projects that will apply to W-16 unless very special justification is presented.
- (4) Under \$6,000,000 figure target becomes \$251,250 and W-42 becomes \$15,000.
- (5) Small watersheds project was not approved.
- (6) Note similarity of WM-R to WM-26, which will be prepared by Home Economists in cooperation with Agricultural Economists.
- (7) With new target figures they will have to present revised project allocations.

17. Assignment of Administrative Advisors. The following list of advisors was approved subject to revision in November meetings.

WM-14	P. F. Sharp to replace P. S. Eckert
WM-26	J. E. Kraus
WM-27	M. M. Kelso
WM-28	J. E. Kraus
WM-29	M. M. Kelso
WM-30	M. T. Buchanan
WM-31	S. S. Wheeler
WM-32	A. S. Curry
W-6	R. D. Ensign to replace J. E. Kraus
W-12	R. D. Ensign to replace J. E. Kraus
W-24	A. S. Curry to replace P. S. Eckert
W-28	D. W. Thorne to replace R. H. Walker
W-29	D. W. Thorne
W-30	D. W. Thorne
W-31	D. W. Thorne
W-32	D. W. Thorne
W-33	D. W. Thorne
W-41	H. M. Briggs
W-42	F. E. Price
W-43	R. W. Henderson
W-44	P. F. Sharp
W-45	P. F. Sharp
W-46	C. E. Fleming
W-47	R. D. Ensign
W-48	M. M. Kelso

Buchanan was assigned to the Title II "meats" project.

Administrative advisors are to try to have a copy of each new project outline in hands of screening committee before November meetings.

18. Procedure for Assigning Project Numbers. Numbers will be assigned to project proposals even though action was taken earlier to use letters until funds are approved.

BRIGGS MOVED THAT IT BECOME THE POLICY TO ASSIGN NUMBERS AT THE TIME ADMINISTRATIVE ADVISORS ARE ASSIGNED. CARRIED.

19. Miscellaneous. Elting suggested we consider possibility of working out some arrangement with the Office of Experiment Stations for assignment of personnel to assist Directors in handling details of regional research.

Discussion was started by Fleming relative to allowance for use of state cars. It was agreed to continue to abide by rules of the state involved.

Buchanan suggested that each expense account be cleared with state's accounting office before sending to administrative advisor.

Henderson had several items that G. B. Wood and Wendel Calhoun of W.A.E.R.C. had requested he present, but due to lateness of hour time was not available.

20. Election of Officers. Fleming and Curry were duly nominated for President. Curry was elected. Henderson was reelected as Secretary.

21. Appreciation for Hospitality. The meeting was concluded at 12:30 A.M. with a unanimous vote of appreciation to personnel at the two host stations, Wyoming and Colorado, for their fine hospitality, comfortable facilities, and for the very interesting program which they arranged. The group was appreciative of the contribution made to the meeting by the various representatives of the U.S.D.A. who had traveled many miles to participate in the meetings. The group is indebted to personnel of the Bureau of Reclamation and the U.S. Forest Service for the very informative tour of the irrigation and power projects and of the Frazier Forest Experiment Station.

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