

TO REPLACE PAGE 1 OF MINUTES OF WESTERN
EXPERIMENT STATION DIRECTORS MEETING IN
RIVERSIDE, CALIFORNIA, FEBRUARY 21-25, 1956.

MINUTES OF MEETINGS OF WESTERN EXPERIMENT STATION DIRECTORS
February 21-25, 1956
Riverside, California

Roll Call

Meeting called to order at 9:00 a.m., February 21, 1956, by
Chairman Curry in the Regents' Room at the Riverside Campus of
the University of California by Chairman Curry.

Present:

A. S. Curry	New Mexico
S. S. Wheeler	Colorado
H. M. Briggs	Wyoming
D. W. Thorne	Utah
C. E. Fleming	Nevada
R. S. Hawkins	Arizona
J. S. Carver	Washington
M. T. Buchanan	Washington
M. M. Kelso	Montana
D. A. Burgoyne	Utah
R. D. Ensign	Idaho
P. F. Sharp	California
A. M. Boyce	California
F. E. Price	Oregon
R. W. Henderson	Oregon
R. M. Alexander	Oregon
E. C. Elting	State Experiment Stations Div.
F. D. Fromme	State Experiment Stations Div.

HP Meyer

Initiation of
Dr. Carver

Neophyte Carver was duly instructed by Chairman Curry and the
cigars were accepted without objection.

Acceptance of
minutes

Minutes of East Lansing, Michigan, meetings were approved.
Procedures for transferring funds were reviewed.

Report of SESD
by Dr. Elting

Point No. 7 of President Eisenhower's farm message was read and
discussed. He stated that he would request maximum increase for
research that can be effectively used. \$2 million was added to
early \$2.75 million increment of payments to states and nearly
\$8 million additional was requested for USDA. A request for an
increase for payments to states of \$3.25 million, which would
bring the total payments to states to \$6 million as originally
requested by the Land-Grant College Association, was presented to
Assistant Secretary Peterson. In the final adjusted budget esti-
mates presented to the Congress, the payments to states item was
increased by \$2 million.

In budget hearing the question was raised by J. L. Whitten,
Chairman of the Agriculture Committee, regarding degree of
planning that went into use of these Federal grant funds.
Excellent plea for support was made by Representative Walter
Horan of Washington. (Buchanan smiled and bowed at this point.)

A request for a \$6 million increase has already been sent by Thackeray, Executive Secretary of Land Grant College Association, to Secretary of Agriculture for 1957-58. This would be \$35,504,708 total, or \$6 million above 1956-57 request. This is consistent with five-year plan developed last year. The Legislative Committee of ESCOP initiated this recommendation. 1957-58 Extension request is for \$6 million increment or a total of \$53,730,000, exclusive of special rural development and marketing funds.

Elting reported that data submitted by Directors on building and land facility needs are being summarized.

Appropriation bill language has been reworded in 1956-57 bill so that limitation of \$15,000 expenditure for facilities will be eliminated.

USDA appropriation request provides for three physical facilities:

National seed storage at Colorado	\$450,000
Poultry brooder house at Beltsville	225,000
Fruit laboratory at Winterhaven	810,000

Sub-units of SESD will be headed by Assistant Directors rather than Branch Chiefs:

Plant Science Area (Lefebvre)
 Animal Science Area (Grandstaff)
 Economics and Marketing Area (White)

Question was raised by Kelso and Hawkins why USDA budget was increased nearly \$9 million and states' payment item is still short \$1.25 million of request. Over a four-year period the states have gained 1 to 1.70 for USDA.

Supplemental increase proposed for USDA is a highly directed program aimed specifically at implementing President's farm program. Philosophy is that this can be better accomplished through the USDA than through the states.

Report by Fromme. \$10,693,000 of regional funds spent in 8 years.

Report on Expenditures

\$40,661,400 of total grant funds spent in 8 years. (Report to come from Fromme later.)

ESMRAC Report

Buchanan reviewed suggestion by Volk as chairman of sub-committee of ESCOP to set down the organization of ESCOP committee assignments and functions. Elting suggested ESMRAC broader than Volk's report indicated. Kelso reported that ESMRAC had not met since he was elected so he had no report to make.

Briggs reported that Committee of Nine would meet April 4-6, 1956.

- (3) That it is further our belief that a regional diagnostic laboratory would be of limited usefulness in comparison with the expansion of diagnostic laboratories within the states.

This resolution is not to be officially transmitted to the newly appointed committee, but is to be handled unofficially.

Noon Recess 11:30 to 12:30.

Afternoon Session - February 21, 1956

Review of
Research Program
of Western
Regional Research
Laboratory

Director Copley reviewed the program of the Western Regional Laboratory. He concentrated his discussion on the program of the branch laboratory at Pasadena. 75% of funds of the laboratory are devoted to citrus research, some to English walnuts, dates, and tomatoes.

The walnut program is aimed at development of a stable shelled walnut that will maintain good quality for at least six months. Walnut plantings have increased more rapidly than consumption and a surplus is probable in the near future. It is believed that within a year sufficient information will be available that results can be applied by industry.

The tomato program is aimed at development of products in which solids are concentrated and the bulk of water removed so that the product can compete against eastern states without having to pay high freight rates on a watery product.

The date problem is one of preventing darkening and associated flavor changes.

Constituents in lima beans are being studied, especially those constituents responsible for bitterness in canned beans and flatulence tendencies. Precooked dehydrated lima bean products are being investigated.

Dr. Bevins reported on citrus work of the Pasadena laboratory.

Time and temperature tolerance of frozen juice concentrates has been studied intensively.

Frozen super concentrates (4 to 1) have presented serious problems on cloud loss and flavor loss. 6 to 1 mixes are being studied as a substitute for 4 to 1.

Heating has been used by industry to get around cloud loss, but this lowers flavor quality.

Fiberboard cartons instead of 80 lb. wooden boxes presented a need for mold inhibitors. Testing of these inhibitors has necessitated very complex cooperative research.

Biphenyl has been used successfully as a mold inhibitor and attempts are being made to clear it with Food and Drug Administration.

Over 200 separate constituents have been isolated from orange juice and probably at least 200 more will be found. Some of these may have medical value and are being referred to the Albany laboratory for study.

Chemical methods for detecting adulteration and sophistication are being developed. Vapor phase chromatography for separation of compounds has excellent potential.

Report on U. S. Salinity Laboratory

Dr. Wilcox discussed the U. S. Salinity Laboratory program. The Laboratory was set up in 1937 upon the request of Western Experiment Station Directors. Recommendations of collaborators from state experiment stations have been very helpful to the laboratory. The staff has about 40 people, about 25 of whom are professionally trained. Salt burden and salt balance problems are becoming of more importance as the result of drought conditions. Rubidoux unit of laboratory concentrates on water quality problems.

Dr. L. A. Richards, Soil Physicist at the laboratory, stated that 20 to 30% of the land in the west was either out of production or used inefficiently because of salinity problems. He reviewed soil physics and plant science programs.

The meeting was recessed at about 2:00 p.m. for a very interesting tour of the Salinity Laboratory and the citrus groves of the University of California Experiment Station.

Evening Session - February 21, 1956

Proposed Revision of Western Soil Research Committee memorandum.

Thorne discussed proposed revision of memorandum with Western Soil Research Committee. Original memo excluded certain phases of engineering related to water research. WSRC has proposed a revision that would change it from WSRC to Western Regional Soil and Water Research Committee. The proposal provides for two members appointed by each Director. Wheeler and others discussed relationship of this committee to Western Directors and to technical committees. It is understood that this committee would not have direct administrative control over technical committees. Thorne moved that we give temporary approval to the functioning of this committee during the next year along lines of the memorandum submitted. Buchanan seconded. Carried without dissenting vote.

Kelso suggested that our main concern is at the regional level and that it is not necessary for us to become involved with the national group.

- Appointment of Thorne, Wheeler, & Price on special review committee. Thorne moved that the chairman appoint a committee to review the memorandum and make recommendations at our next meeting. Seconded by Buchanan. Carried. Chairman Curry named Thorne (Chairman), Wheeler, and Price to serve on this committee. (D)
- Regional Soil Association Map Thorne reported that Soil Survey work group has recommended development of a regional soil association map. Directors were asked to cooperate in making funds available for travel of delegates to meetings for this purpose.
- Proposed Regional Water Laboratory Thorne then discussed a move to set up a regional water laboratory. Two laboratories are being proposed, one in the south and one in the west for engineering type of research. Plans for a proposed laboratory in Utah were presented by Thorne.
- Expenditures for soil surveys Elting discussed a letter from Knoblauch requesting information for Dr. Kellogg on funds spent on soil research. Appropriation bodies have requested information from Dr. Kellogg on total funds spent on soil survey.
- Miller Bill and residue problems Sharp discussed the Miller Bill Amendment. Several California recommendations have had to be drastically revised because residue information was not available on all materials formerly recommended. Freeman, Andre, Guterman, and Bledsoe are on a sub-committee of ESCOP appointed to study residue problems. Guterman expressed concern about the value of a national clearing house because of variation in conditions encountered in various parts of the state. The committee was of the opinion that a regional clearing house would be of more value than the national clearing house.
- The Southern and Northeastern regions have regional projects similar to our proposed W-45 that can serve in this capacity.
- February 22, 1956
- Convened at 8:30 a.m.
- Curry asked Ensign to keep posted in the future on the National Seed Release program.
- The suggestion was made that Dr. Shaw or Dr. Elting be contacted in regard to attendance of Federal Research Administrators at the summer meeting. Curry will contact Dr. Elting to invite Federal personnel.
- Adjustments in research programs to meet changing needs. Elting advised that Secretary Benson had raised questions about the flexibility of the stations in adjusting their programs to meet the needs of changing times; e.g., surplus problems. Are we putting too much emphasis on production research? From public relations standpoint he suggested that we make greater effort to call attention to the steps we are taking or have taken to adjust to the acute problems now facing agriculture.

Elting to request information on state adjustments Price suggested that each state prepare an analysis of specific steps it is taking to adjust program to these problems. Henderson asked Dr. Elting to prepare an outline to follow in order that the information can be summarized more effectively. Dr. Elting agreed to request information from states.

Need for keeping public informed about research programs

Wheeler emphasized the need for doing a better job of informing the public about our program. Kelso pointed out need for better integration of production studies with input-output studies. He has established a station committee to give broad study of marketing research. This is an effort to get production research men to think in terms of marketing.

Buchanan moved, Wadsworth seconded, that "Be it Resolved that the Western Directors individually and collectively analyze present and prospective state and regional research programs with the view of adding emphasis during the coming year to the following problem areas:

1. Reduced costs of production, with further emphasis on those leads that will reduce costs without increasing output,
2. Reduced marketing costs through increased efficiency,
3. Improved factual framework and alternatives within which farm policy decisions may be made, and

Be It Resolved further that individually and collectively steps be taken to acquaint appropriate officials in the U.S.D.A., the farm organizations, and the public with our efforts in this direction." Carried without dissenting vote.

Each Director to utilize special news release

Briggs emphasized the need for critical review of old projects as well as new ones. Price pointed out that even though the Farm Bureau and other groups are criticizing our program as being too much headed toward production research, that real pressure for production research is coming from these same groups. Buchanan raised a question of whether or not we should prepare careful publicity releases about some of the projects. Sharp and Buchanan were appointed to arrange for suitable releases. (Copies of the release were issued to each Director before adjournment.) Each Director should check to see that his editor utilizes the releases.

Pesticide meeting

Kelso discussed proposal by Extension specialists to have meeting in March in Salt Lake City (March 12-14) to discuss pesticide residues. (See Beers letter to Extension Directors.)

Overhead charges on research grants

Henderson asked for discussion of policies relative to overhead on research grants and patent policies and called attention to organized efforts by comptrollers and business managers to extract overhead charges from research grants.

- Initiation of Director Boyce Director Boyce provided intermission refreshments that resulted in his unanimous election to membership in the Western Directors Association.
- Effort of poultry departments to develop poultry production project Kelso explained effort of the head of his poultry department to get poultrymen together to develop a proposed new poultry production research project. Objections to procedure were withdrawn after Kelso's explanation.
- Procedures for development of new regional projects Fromme explained Northcentral region system of advisory committees. Each state names a man to each advisory committee and the Directors name an advisor. Formal recommendations for research proposals come to the Directors from the group.
- Project Review Committee, to present recommendation Curry suggested that Project Review Committee consider steps for establishing a more formal program for developing research proposals in specific areas. This committee in the past has taken a passive position, reviewing only those projects that come to it from the Directors. If we ask the committee to take an active position of initiating proposals, the work load and responsibilities of this committee will be greatly increased.
- Kelso moved and Buchanan seconded that present subcommittee of three on project review be requested to develop recommendations concerning the establishment of a system of broad advisory committees, each with an administrative advisor that will be requested to study present and prospective research in these broad areas and make recommendations concerning present and proposed regional research project. Carried.
- Discussion held on function of Project Review Committee with revisions of existing projects. Reference to previous meeting clarified this. This committee is to handle revisions, but not redrafts involving wording only.
- Administrative Advisor Assignments Henderson, chairman of the committee, appointed to make recommendations on revision of administrative advisor assignments, presented a list of revised assignments. Five or six changes were directed. The revised list as officially approved to be effective July 1, 1956 is appended.
- Kelso moved and Ensign seconded that the new administrative advisor lists become effective July 1, 1956. Carried.
- Each Director advisor should send a copy of new list of administrative advisors to each chairman and secretary of technical committee for which he is administrative advisor.
- Price elected to replace Buchanan on ESCOP Nominations opened for Director to serve Buchanan's unexpired term on ESCOP (to November 1956). Moved, seconded, and passed that Secretary cast a unanimous ballot for Price.

Nominations opened for Director to fill Buchanan's term on ESCOP subcommittee on publications. Moved, seconded, and passed that Price fill this position, too.

Kelso elected treasurer of WAERC and administrative advisor

Nominations for treasurer of WAERC as replacement for Buchanan. Kelso nominated and elected. Question raised by Kelso on role of this position - was it advisory, also? Moved and passed that Kelso be administrative advisor, also. Secretary is to advise Dr. Wood of this action. 10

Project Reports

W-1	Project has been revised so work under way is outlined more adequately.
W-2	Type of work being changed. Needs new number.
W-4	Needs revision if W-44 is approved.
W-5	OK
W-6	Title being changed.
W-7	Being revised.
W-8	OK
W-11	Committee asked for more funds for project but was instructed to consider development of an additional project in weed field.
W-12	Will be revised slightly.
W-16	OK
W-22	OK
W-23	OK. Recently revised, See Henderson February 21, 1956 memo.
W-24	To be revised slightly.
W-25	OK (See Poulton's letter January 12, 1956 to Fleming relative to request for a 3-year term supplemental appropriation for taxonomy study by Wyoming.)
W-27	OK
W-28	OK
W-29	OK
W-30	OK
W-31	OK
W-32	OK
W-33	OK

W-34 OK

W-35 OK. May need narrowing down.

W-36 OK

W-37 OK

W-38 OK. See Henderson February 21, 1956 memo.

W-39 OK

W-40 OK. See Henderson February 21, 1956 memo.

WM-4 Project completed and Nevada Station Bulletin #190 published.

WM-13 Thoroughly reviewed by committee but revision not yet warranted. Oregon Station Bulletin 556 now in press. Committee is to call special meeting to consider broad price-policy research projects that would be appropriate contributing projects to IR-3. Committee proposed allotting \$1000 from WM-20 for this purpose. Directors were in agreement with Kelso that this procedure should not be approved. Briggs moved, seconded by Buchanan, that \$1200 from WM-13 P & C be returned to Washington, D. C. for transfer to California contributing project on WM-23. Carried.

WM-14 OK

WM-15 OK. Concerned about it getting into too local projects. Believe it is over-funded.

WM-16 OK. See memo February 21, 1956 from Henderson.

WM-17 OK

WM-18 OK. Recently completely revised and will be sent to review committee.

WM-19 OK. See Buchanan's fact sheet.

WM-20 OK

WM-21 OK

WM-22 OK

WM-23 OK. Wool technicians and economists are working together as directed.

WM-24 OK

WM-25 OK

Report by Kelso,
Chairman of
Project Review
Committee

The committee became aware that consideration should also be given to current programs as well as to new proposals. Recommendations were reviewed for each project. (A complete set of the individual project reviews are on file with Directors Kelso, Curry Briggs, Thorne, Henderson, and Dr. Farris of S.E.S.D.)

- Shift of W-2 to W-49 Thorne moved, Price seconded, that we approve revised project outline for W-2 as W-49, "Physiological causes of breeding failure in cattle." Carried. W-2 will be closed out in accordance with Manual of Procedures.
- W-39 Project was previously approved by the Committee of Nine. Addendum to outline will be submitted by Administrative Advisor Price.
- W-41 Moved by Sharp, seconded by Hawkins, that we approve as prepared, Carried.
- W-42 Moved by Henderson, seconded by Ensign, that we approve W-42 subject to recommended changes. Carried.
- W-43 Buchanan moved and Sharp seconded that we approve this project as "Leguminous forage crop insect pests" subject to the other changes proposed by the Project Review Committee. Carried.
- W-44 Sharp moved and seconded by Briggs that W-44 be approved after incorporation of recommendations of review committee. Carried.
- W-45 Briggs moved and Thorne seconded that budgets be appended and the project approved as revised by the technical committee. Carried.
- W-46 Moved by Henderson and seconded by Thorne that we not attempt to activate this project prior to July 1, 1957.

February 23, 1956

Reconvened at 8:15 a.m.

- W-46 Motion withdrawn by Henderson with consent of Thorne.
- Discussion of Alaska contributing project to W-46 brought out that Alaska had officially withdrawn from Western Region and should not be considered for financial support in W-46.
- Special meeting authorized to revise W-46 proposal Moved by Henderson and seconded by Fleming that we instruct Fleming and Briggs to convene a special W-46 Technical Committee meeting for the purpose of developing an acceptable project for activation July 1, 1956. After revision of the project outline the Project Review Committee is to make a recommendation to the Western Directors. The Directors are to vote on approval or disapproval of recommendation, sending ballots to Chairman Curry. Carried without dissent. Each state will have to provide travel funds.
- Status of Alaska and Texas on Western Region Projects Buchanan moved that we consider Alaska and Texas for support on projects to which they have made requests for 1956-57 with the understanding that they will make provision elsewhere for support in 1957-58. Seconded by Sharp.

Elting urged we consider keeping flexibility.

Motion by Buchanan withdrawn with consent of Sharp.

W-47

Wadsworth moved that recommendation of Project Review Committee be accepted. Lost for want of second.

Thorne expressed the view that the project was in better shape than W-46 and deserved at least equal treatment.

Sharp moved and Henderson seconded that we treat W-47 in the same manner as W-46. Carried without dissent.

Contributing project priority rating procedure

Briggs suggested that we record it as the consensus of opinion that we instruct the technical committee that a state should not rate its own project when project priority ratings are being developed.

W-48

No action.

W-

"The deterioration of certain cotton fabrics when exposed to sun, moisture, and heat as an aid in their selection for household and agricultural uses." Alexander moved adoption of the review committee's report which would require further action by the home economist. Kraus is to continue to serve in an advisory capacity. Carried.

Administrative advisor is to advise us whether this should be included in W or WM series.

W-

"Drainage design for irrigation agriculture." Thorne moved and Henderson seconded that we delay action until July meeting which would mean that it would not be funded before July 1, 1957. Carried.

SESD to make analysis of fund allocation by specific areas

Sharp requested that Project Review Committee give us an analysis of the funds that are going into specific areas; e.g., irrigation, engineering, entomology, range, etc. Henderson suggested that we request SESD to do this. Fromme agreed to make Dr. Farris available for this study. Analysis to be confined to 9b3 funds.

Other proposals

Buchanan and Henderson discussed the following proposals which are to be considered at July meetings:

Life history and ecology of insects and mites affecting grasses grown for seed and forage. (See Henderson's W-43 memo 2/21/56.)

Occurrence, behavior, effects, and control of viruses in strawberries, raspberries, and blackberries.

(Copy of tentative draft is on file with Secretary.)

Biochemistry of herbicidal action.

WM-26

"Factors which affect home utilization and consumer buying practices of fresh, frozen, and otherwise processed fruits and vegetables." Sharp reviewed history and reported that although Directors had previously suggested combining this with W-28 the two committees believed they should be kept separate but that committees should meet together. Discussion of this proposal was quite lengthy and controversial. Thorne moved, Sharp seconded, that we approve project as prepared under phase 1 for activation. Carried.

WM-28

- WM-27 Kelso moved and Sharp seconded that WM-27 be approved subject to changes recommended by review committee. Carried.
- WM-29 No project prepared at this time because information on IR-3 was needed before this could be developed properly. Kelso suggested that project remain dormant at least until July 1, 1957. Group concurred with this suggestion.
- WM-30 No outline developed. Hold for future action.
- WM-31 Wheeler reported that technical committee is acting on recommendations of review committee. Wheeler moved that project be approved in accordance with suggestions for revision made by review committee. Seconded by Ensign. Carried.
- WM-32 Moved by Briggs, seconded by Hawkins, that project be approved. Carried. Curry advised that budget has been prepared in accordance with suggestion of project committee.
- WM-28 Ensign moved and Sharp seconded that project not be accepted for activation July 1, 1956. Carried. It is understood that this does not imply that committee should attempt to present a revised project for activation in 1956-57.

Interregional Research Projects

- IR-1 Attention was called to the omission of listing of IR-1, "Introduction, preservation, classification, distribution, and preliminary evaluation of wild and cultivated species of Solanum," on the revised list of administrative advisor assignments. Each Director should add this to his copies of the list on page 2. Kraus is to continue as administrative advisor representative from the Western region.
- IR-2 Buchanan briefly reviewed the program of IR-2.
- IR-3 Kelso reported on progress being made in development of IR-3, reviewing minutes of January 3, 1956, meeting of the technical committee. A budget of \$56,530 is proposed for 1956-57.
- Schedule for new proposals for IR research Dr. Fromme reviewed new schedule of Committee of Nine for proposals of new IR projects for 1957-58. (See Fromme letter to Curry of February 6, 1956, for details.)
- Plant physiology research suggested Henderson urged Directors to give consideration to initiation of an interregional research project in plant physiology, providing facilities for controlled environment; e.g., light, temperature, humidity, photoperiod. Sharp commented that four of the California campuses are requesting extensive sums for construction of such facilities.

Poultry respiratory disease project proposed Price presented an interregional project proposal in complete form entitled "Interregional repository for the causative agents of poultry respiratory diseases." This is being presented to each of the regional associations of Directors.

Considerable discussion followed regarding whether or not this is more appropriately a U.S.D.A. function. Sharp and Henderson expressed the view that Directors should urge U.S.D.A. to utilize U.S.D.A. funds for this type of research. Price moved that project be approved. Motion lost for want of a second.

Resolution to be transmitted to USDA officials by Chairman Curry Sharp moved, seconded by Briggs, adoption of following resolution and that we instruct Chairman Curry to send copies to chairmen of other three Director groups and appropriate U.S.D.A. officials. Price is to supply copies to technical committee.

"In view of the immediate need for (1) New Castle virus, (2) infectious bronchitis agent, and (3) chronic respiratory disease agent repositories, it is moved that ARS be requested to establish and maintain national repository facilities for the above causative agents of poultry respiratory diseases at an early date, either at a Federal laboratory or by contracting with one or more state experiment stations." Carried without dissenting vote. ①

Kelso discussed the problem of financing research on problems overlapping regions. Henderson called attention to possibility of utilizing 9bl-2 and state funds if acceptable regional project is not available.

Discussion of fund allocations

- W-5 Price suggested that W-5 needs \$20,000.
- W-8 Utah offered to drop their allocation to \$2000.
- W-23 Henderson requested addition of \$3500 for Hawaii.
- W-25 Fleming requested addition of \$3500 for taxonomic study to be made for region by Wyoming.
- W-27 Kelso requested that increase of \$7500 be made to offset \$7500 reduction in gift funds and \$5000 to pick up drop in state funds of that amount.
- W-28 Thorne reviewed committee recommendations for increase to \$34,500. Administrative advisor suggested tentative figure of \$25,500.
- W-31 Thorne suggested \$26,000.
- W-32 OK
- W-33 OK
- W-34 Henderson moved and Thorne seconded that we leave at \$50,00 and suggest reallocation by committee if justified. Carried.

W-35 Kelso suggested \$46,700.

W-36

W-37

W-38 Henderson opened at \$31,600 and closed at \$25,700.

W-39 Price suggested \$26,000.

W-40 Henderson opened at \$25,000 and was closed at \$21,000.

W-41

W-42 \$10,000

W-43 Henderson opened at \$20,000 and closed at \$16,000.

W-44

W-45 Sharp suggested \$30,000.

W-46 & 47 Sharp suggested \$8000 for W-46 and \$6000 for W-47 to establish one or two of the best contributing projects.

Action on WAERC
budget recom-
mendations for
WM projects at
4.75 million
level

Buchanan moved and Kelso seconded that the WAERC January 31, 1956, target CC figures be adjusted as follows:

Deduct \$8300 from WM-28
Deduct \$4500 from WM-15,

making revised marketing total including non-economic project WM-16 at \$16,000 and WM-23 at \$19,000 and WM-26 at \$15,000, or a total of \$288,450, which is 22.5% of \$1,288,820, the 4.75 million figure. Carried.

This would leave \$24,170 that could be used to apply toward additional requests which exceed the \$976,200 by \$35,300.

WM-21

On WM-21 Wheeler requested consideration of increase in the trust fund. He recommended \$1500 on P & C. Recommend that the above motion be transmitted to the Council and that Council make appropriate adjustments within this total on approved projects. Attention is called particularly to inadequacy of WM-21 P & C, and call attention to estimated high cost of travel between Moscow and Pullman on WM-25.

There was a great deal of discussion relative to action that should be taken on increases for new or recently activated projects versus proposals for increases for old projects that have not been fully funded.

- Action taken on budgets for W-1 to W-49 at 2.75 million level
 Sharp moved and Buchanan seconded that if we need to use 2.75 figure that the projects W-30 and under appear as listed in the 2.75 column, with the exception that \$2000 be taken off W-8 and that percentage reduction be applied across the board to W-31 to W-48 inclusive, and that W-49 would get a \$33,000 minimum. Carried.
- Blanket authority given to Chairman Curry
 Committee of Nine would like to have breakdown by states for 4.75 figure at next meeting. Buchanan moved and Briggs seconded that Chairman be authorized to make whatever adjustments in allocations are necessary, using whatever counsel of other Directors and/or WAERC officials he deems advisable. Carried. (1)
- BB
 Action taken on WAERC recommendation for 3 million level
 Buchanan moved and Briggs seconded that for marketing projects that WAERC target BB at 3M level be accepted in total but that it be referred to the Council for appropriate adjusting among the projects and states, including elimination of WM-28 and taking into account the suggested re-evaluation of the P & C items. In the event something less than 3 million level is appropriated the Chairman of the Western Directors will make appropriate adjustments. Carried.
- Kelso moved and Briggs seconded that at 3 million level WM-16 be approved at \$16,000; WM-23 at \$19,000; and WM-26 at \$15,000, and that in the event of reduction WM-16 and WM-23 remain at above levels and appropriate reduction be applied to WM-26. Carried.
- Allocation of project funds by states
 A summary will be prepared and issued by the Secretary as soon as information is supplied by the administrative advisors.
- Dates for summer meeting
 Agreed on July 17, 18, 19, and 20 at Bozeman and Dubois (July 20). July 19 would be used for travel from Bozeman to Dubois.
- Project revision deadlines
 Project Review Committee will meet in Laramie May 3 and 4 to go over new projects, project revisions, and other business. Deadline for submission, re-submission, etc., will be April 20 with a copy of each to Kelso, Briggs, and Thorne. W-46, W-47, and WM-31 will go through review committee at this time.
- Appreciation of hospitality
 Kelso moved and Henderson seconded that the Western Directors extend their sincere appreciation for the splendid hospitality extended by Provost Watkins, Director Boyce, and Director Sharp on behalf of the University of California during the meeting of the Western Directors held at the Riverside campus February 21-23, 1956. The dinner, meeting rooms, travel arrangements, oranges and orange juice, coffee, donuts, pictures, secretarial service, and cigars were much appreciated by all concerned.
- Acknowledgment is also made of the splendid cooperation and assistance of Dr. Fromme and Dr. Elting. It is hoped that the former's forthcoming retirement will be postponed and that we will have the pleasure of his company at the summer meeting.

Tour of
Imperial Valley

On Friday, February 24th, Director Sharp and Dr. John Middleton of the Plant Pathology Department at Riverside conducted Elting, Buchanan, Briggs, Price, Alexander, and Henderson on a tour of research facilities at the U.S.D.A. experiment stations at Indio and Brawley, and the University of California Mellowland Station at El Centro. The tour ended at Thermal, California, where Elting, Buchanan, Briggs, and Alexander were to embark by plane. Despite earlier confirmation of reservations they found that they had none and were preparing, at the suggestion of the Secretary, for "a long walk" to Los Angeles. At this point Director Sharp and his associates took over control of the Bonanza Airlines, yielding control only after the company agreed to provide passage by air to Los Angeles for Briggs and Elting. Buchanan and Alexander were then transported at nearly the same speed, but by surface transportation, from Thermal to Riverside by Dr. Middleton, and from Riverside to Los Angeles by Director Boyce.

R. W. Henderson, Secretary
Western Experiment Station Directors

WESTERN REGIONAL RESEARCH PROJECT ADMINISTRATIVE
ADVISOR ASSIGNMENTS

Effective July 1, 1956

Project No.	Project Title (abbreviated)	Administrative Adviser
W-1	The improvement of beef cattle through the application of breeding methods.	S. S. Wheeler
W-2	Causes and prevention of breeding failure in dairy cattle.	H. M. Briggs
W-4	Nutritional status of population groups in selected areas of the west.	H. E. Myers
W-5	Avian respiratory diseases.	J. S. Carver
W-6	The introduction, multiplication, preservation and determination of potential value of new plants for industrial and other purposes.	P. F. Sharp and R. W. Hodgson
W-7	Breeding improvement of turkeys.	J. S. Carver
W-8	Rural housing.	J. S. Carver
W-11	Physiological and ecological factors related to weed control.	A. S. Curry
W-12	Control of root rots and viruses of dry and snap beans by breeding and other methods.	R. W. Henderson
W-16	Economics of range land development.	C. E. Fleming
W-22	Behavior and effects of the virus complexes latent in stone fruit varieties and rootstocks.	R. W. Henderson
W-23	Physiological and environmental factors affecting the establishment and production of forage crops.	R. D. Ensign
W-24	Improvement of mechanized production and harvesting of irrigated cotton in the arid and semi-arid west.	A. S. Curry
W-25	Ecology and improvement of brush-infested range lands.	C. E. Fleming
W-27	Vibrionic abortion in sheep.	M. M. Kelso
W-28	Irrigation water application and drainage.	F. E. Price
W-29	Soil-water-plant relationships under irrigation.	D. W. Thorne
W-30	Measurement, evaluation, and modification of soil structure.	H. E. Myers
W-31	Conservation and improved use of nitrogen in western soils.	H. E. Myers
W-32	Basic hydrologic factors in precipitation disposal related to water conservation.	D. W. Thorne
W-33	Economics of alternative methods of water application.	D. W. Thorne
W-34	Range livestock nutrition.	C. E. Fleming

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W-35	Internal parasites of ruminants.	P. F. Sharp and D. E. Jasper
W-36	Efficiency in the harvesting and use of seeded forage crops.	A. S. Curry
W-37	Biology, ecology and control of rangeland grasshoppers.	S. S. Wheeler
W-38	Nature of the influence of crop residues on fungus induced root diseases.	R. W. Henderson
W-39	Effects of fluorine on plants, animals, and soils.	F. E. Price
W-40	Breeding forage plants with superior performance, nutritive value, and seed yielding capacity.	R. D. Ensign
W-41	Animal diseases.	P. F. Sharp and D. E. Jasper
W-42	Ground water laws.	S. S. Wheeler
W-43	Forage insects.	P. F. Sharp and A. M. Boyce
W-44	The role of diet in cholesterol metabolism.	H. E. Myers
W-45	Toxic residues in fruits, vegetables and animal products.	P. F. Sharp and A. M. Boyce
W-46	Environmental factors affecting growth in farm animals.	H. M. Briggs
W-47	Root development of forage plants in relation to soil environment.	R. D. Ensign
W-48	Environment and crop production.	M. M. Kelso
IR-1	Potato breeding.	J. E. Kraus
IR-2	Stone fruit repository.	J. E. Kraus
IR-3	Price policy.	M. M. Kelso
WM-13	Wheat prices and price policies in the western region.	M. M. Kelso
WM-14	Marketing western head lettuce.	P. F. Sharp
WM-15	Needed adjustments in the dairy industry of the west.	P. F. Sharp
WM-16	Maintaining grain marketability by insect control in storage.	P. F. Sharp and A. M. Boyce
WM-17	Competitive position of frozen foods in the western region.	H. A. Wadsworth <i>Hawaii</i>
WM-18	Egg market organization and pricing efficiency in the western region.	J. S. Carver <i>Washington</i>
WM-19	Economics and engineering studies of fruit and vegetable packing.	R. M. Alexander <i>Oregon</i>

<u>Project No.</u>	<u>Project Title (abbreviated)</u>	<u>Administrative Adviser</u>
WM-20	Inter-farm market for hay and feed in the west.	C. E. Fleming
WM-21	Livestock market information, content and procedures.	S. S. Wheeler
WM-22	Sheep and lamb marketing problems in specific western states.	S. S. Wheeler
WM-23	Wool marketing.	D. W. Thorne and D. A. Burgoyne <i>Wolk</i>
WM-24	Marketing western horticultural specialty crops.	H. A. Wadsworth
WM-25	Case studies of the impact of technology in marketing.	J. S. Carver
WM-26	Marketing procedures and quality of products.	J. E. Kraus
WM-27	Shrinkage in cattle and lambs during marketing.	H. M. Briggs
WM-28	Quality factors in marketing.	J. E. Kraus
WM-29	Price supports and market control.	M. M. Kelso
WM-30	Marketing legume and grass seeds in the west.	(To be dropped)
WM-31	Marketing the products of farm forests in the west.	P. F. Sharp and H. J. Vaux <i>Call School of Forestry</i>
WM-32	Marketing long staple cotton.	A. S. Curry