

WESTERN ASSOCIATION OF AGRICULTURAL EXPERIMENT STATION DIRECTORS
AND
UNITED STATES DEPARTMENT OF AGRICULTURE
212 POST OFFICE BUILDING
BERKELEY, CALIFORNIA 94701

OFFICE OF THE
RECORDING SECRETARY

November 28, 1967

TO : Western Directors
FROM : Leo R. Gray, Recording Secretary
SUBJECT: Minutes of November 1967 Meetings of Western Directors

Minutes of the November 1967 Meetings are attached.

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MINUTES OF WESTERN DIRECTORS'
REGULAR FALL MEETING

Sheraton-Columbus Hotel
Columbus, Ohio
November 12-15, 1967

Call to Order
and Attendance

Chairman Asleson convened the meeting on November 13, 1967 at 7:10 p.m. Those present during all or part of the meeting included:

R. K. Frevert	Arizona
C. F. Kelly	California
A. M. Boyce	California
J. H. Meyer	California
E. G. Linsley	California
D. F. Hervey	Colorado
C. P. Wilson	Hawaii
R. D. Ensign	Idaho
J. E. Kraus	Idaho
J. A. Asleson	Montana
M. J. Burris	Montana
D. W. Bohmont	Nevada
R. E. Ely	Nevada
M. L. Wilson	New Mexico
P. J. Leyendecker	New Mexico
G. B. Wood	Oregon
K. W. Hill	Utah
J. S. Robins	Washington
L. C. Ayres	Wyoming
M. T. Buchanan	Director-at-Large
C. F. Sierk	CSRS
L. R. Gray	Recording Secretary

Asleson distributed copies of: 1) W. Paul's memorandum on Regional Research Publications, dated October 3, 1967; and 2) the Financial Statement for DAL. (NOTE: This Financial Statement appears as an Appendix to the Minutes of the Special Meeting of Directors held in October 1967.)

July 1967
Minutes

Asleson and Buchanan suggested that the Western Directors' Minutes of July 1967 be amended. The paragraph at the bottom of page 7 (under "Position of DAL") should be amended to read as follows:

"The Executive Committee agreed to: 1) Pay into escrow the 7½ percent cost of fringe benefits over and above the DAL's salary, (this 7½ percent rate will be the same as that which Washington State

University contributed to Buchanan's retirement benefits through 3/31/67. The University of California system requires five years for an employee to obtain vested rights in its retirement system). A key question was, what would DAL give up if his position terminated before five years? (He would receive in a lump sum that amount of the fringe benefits, less accrued interest, that was deposited in the escrow account during his tenure as DAL.); 2) The required amount of principal would go into escrow each year, out of the \$60,000 budget for the position of DAL, separate from the California payment. The accrued interest earned from this escrow account would go to the Western Directors' Association. If the DAL stays five years or more, the principal in escrow also would accrue to WD; and 3) The present salary of the DAL would continue at least until 6/30/68."

Wood moved, Robins seconded, for approval of the above amendment and that Western Directors adopt the July 1967 Minutes as amended. PASSED.

Report of DAL

Buchanan distributed two handouts, namely: 1) Guidelines for Program Planning; and 2) Data on Agricultural Research Facilities. Western Directors are requested to review the above handouts and send their comments to Buchanan.

Buchanan reported on Assistant Secretary G. Mehren's response to his DAL letter (of 10/18/67) regarding the October 1967 meeting of WD.

Buchanan noted that other regions will take steps similar to the ones taken by Western Directors at their Special Meeting held in October 1967.

With respect to the Guidelines for Program Planning, Buchanan indicated some priorities need to be set on the SMY totals.

Bohmton noted that RRC has served in the role of recommending priorities to Western Directors.

Buchanan - Western Directors chose to make the administrative review first.

- The consensus of Western Directors is that they have no objections to the guidelines as presented and at some point in time may well use such procedures as outlined by Hawkins. However, in the meantime, Western Directors have made administrative review determination procedures and are following guidelines deemed to be adequate. We could ask advisory committees to consider projected research priorities by problem program proposals within their areas of interest on a year-to-year basis.

Wood suggested we might go back to our own staffs to ascertain types of priority recommendations visualized within our own states. We could then bring them back to a meeting of Western Directors and probably select regional task force areas in which we need some special guidance and thus obtain an improved perspective as to priorities by RPA's.

Frevert - About 85 percent of the SMY inputs of ARS occur at SAES but we don't have their SMY's reflected in our RPA inputs.

Kraus suggested that some priority rating ought to be made for or by task force group areas before additional funds are allocated.

Asleson - We might ascertain our own state priority projections as Wood suggested and send them to Buchanan, then give him authority to arbitrarily compile these for the Western Region and so represent us at the National level.

Bohmton - We might set priorities for SMY projections by RPA's for FY 1969-1970 by states and send our priorities to the DAL by December 15, 1967.

Buchanan will send a memorandum to Western Directors indicating further guidelines as to information needed.

Asleson noted after some discussion, that the above proposal (evolved by Wood, Asleson and Bohmton) is the consensus of the group.

ESCOP

Frevert - Legislation on humane treatment of animals has been introduced. The Legislative Subcommittee is awaiting outcome of this legislation before making further recommendations.

- The subject of financing CRIS was discussed. Costs for this program are expected to be well in excess of \$400,000 per year. About half of the projects come from the states. Who should pay for the support of CRIS?

- The Marketing Subcommittee has made some revisions in the definition of marketing. The new definition will be spelled out in a new manual that will be out in 1968.

- The question of regional DAL's being housed in Washington, D. C. so as to have continual representation there was discussed, but no action was taken.

- A National Centralized Farm Management Research and Extension computer program is being proposed by the Extension Service for implementation in 1968. ESCOP did not favor the development of such a program.

Ensign - Ronningen brought up the idea of National or Regional administrative workshops for department heads. ESCOP took no action.

- Byerly referred to a letter concerning a "voluntary letter of credit" procedure for paying Hatch or regional funds to SAES. Such letters should be reviewed critically with your Station fiscal officer.

Asleson - Byerly indicated CSRS hopes to have this "letter of credit" procedure into effect January 1, 1968 on a voluntary basis with each Station.

Asleson brought up the subject of tenure on ESCOP. After some discussion, Bohmont moved, Wood seconded, that RRC review NASU&LGC policy regarding procedure for electing ESCOP officers and report back to WD. PASSED.

Committee of Nine

Ely indicated the Committee of Nine has a meeting scheduled for the afternoon of November 15, 1967. He had nothing more to report.

WAERC

C. P. Wilson indicated he had nothing to report about WAERC at this time.

WSWRC

Frevert indicated he has scheduled a meeting of WSWRC in Reno, Nevada, December 18-19, 1967. He had nothing more to report.

WHEAL

Bohmton indicated he had nothing to report about WHEAL at this time.

WSSC

Wood - WSSC met at Las Vegas, Nevada, October 19-20, 1967. The total group consisted primarily of behavioral scientists. Two representatives from Cornell came to the meeting.

- A regional project proposal was developed for submission to RRC entitled: "Criteria for Defining Rural Development Areas." (See RRC Report, Item C 2.)

- WSSC also had an interesting seminar on "Problems of Medical Health in Rural Areas." The committee voted to hold their next meeting at Denver, Colorado, April 10-12, 1968 and to concentrate on the theme of medical health problems in rural areas.

REPORT OF THE COMMITTEE ON REGIONAL RESEARCH
to
THE WESTERN DIRECTORS

Neil House, Columbus, Ohio
13 November 1967

Chairman Hill convened the RRC meeting at 12:55 on November 12, 1967. Those in attendance were:

K. W. Hill, Chairman
C. P. Wilson
E. G. Linsley
L. C. Ayres (Alternate)
C. F. Sierk
L. R. Gray, Recording Secretary

A. REVIEW OF INTERIM ACTIONS

Hill - We are pleased to note the compliance of the Directors with the new policy enunciated and adopted at the July 1967 meeting. RRC members felt much more comfortable in dealing with project proposals under these new ground rules.

1. WM-56, "Cooperatives' Role in Dynamic Agriculture"

RRC reviewed a preliminary draft of this revised regional research project outline, and will send its comments to the Administrative Adviser (Wood).

No action by Western Directors is necessary at this time.

2. W-102, "Biological Methods of Control of Animal Parasites"

RRC reviewed a preliminary regional research project outline proposal, and will send its comments to the Administrative Adviser (Jensen).

No action by Western Directors is necessary at this time.

3. W-101, "An Evaluation of the Influence of Management on Production and Economic Efficiency in Agriculture"

Frevert asked for advice of the Western Directors as to whether or not he should request Directors to designate representatives to an initial technical committee or should one state initiate the project for a year or so to develop techniques.

After some discussion, Hill indicated:

RRC recommends that their March 1967 recommendation regarding W-101 be withdrawn and that the number be dropped.

Hill moved, M. Wilson seconded, approval of this recommendation. PASSED.

B. REQUESTS FOR EXTENSION

WM-47, "Locational and Product Competition Among Selected Horticultural Food Crops"

RRC recommends that Western Directors approve the extension of this project for two years ending June 30, 1970, and that Alexander remain as Administrative Adviser.

RRC calls the Western Directors' attention to the limited number of SMY's allocated to work on this regional research project in FY 1968.

Hill moved, M. Wilson seconded, adoption of these recommendations. PASSED.

C. PROPOSALS FOR REVISED OR NEW PROJECTS

1. W-56, "The Interrelation of Nematodes and Other Pathogens in Plant Disease Complexes"

This technical committee submitted a "Comprehensive Review of Regional Research Project W-56," and requests permission to revise its regional research project outline. If approved, a formal project outline will be submitted for consideration by RRC and the Western Directors at their spring meetings in 1968.

RRC recommends that Western Directors approve this request for permission to revise W-56.

RRC will send its comments to the Administrative Adviser (Ayres).

Hill moved, Frevert seconded, adoption of these recommendations. PASSED.

2. W- , "Criteria for Defining Rural Development Areas"

RRC recommends that Western Directors approve this regional research proposal as a new area of work, and that Dr. G. Burton Wood be the Administrative

Adviser to organize a regional committee to prepare a project outline proposal, and submit it to RRC for review prior to final approval by the Chairman of Western Directors.

Hill moved, Kelly seconded, adoption of these recommendations. PASSED.

D. GENERAL COMMENTS

1. Western Directors Subcommittee on Advisory Committees

- a. RRC recommends to Western Directors that representatives from outside the Western Region be permitted to participate with our advisory committees upon request of the Station Director (of interested state) and approval of the Western Directors. RRC further recommends that these outside representatives participate at the expense of their home Station, and that they have limited voting rights except on matters to be recommended to Western Directors.

Hill moved, Hervey seconded, adoption of these recommendations. PASSED.

Discussion of the above motion indicated that interested non-Land Grant Institutions desiring to have representatives participate with our advisory committees would likewise clear through the Station Director of their state.

b. Additional Advisory Committees

RRC reviewed with C. P. Wilson a policy statement pertaining to additional advisory committees. RRC makes no recommendation on this subject.

Asleson suggested that this subject be held in abeyance for further consideration at the spring meeting of Western Directors. The group concurred.

2. Regional Research Projects with Questionable Support

RRC calls Western Directors' attention to the fact that 14 regional research projects in the West

each have one or less scientist-man-years (SMY) allocated to them for the fiscal year ending 1968. The projects are: WM-35, WM-44, WM-47, WM-52, WM-58, WM-59, WM-60, W-66, W-71, W-89, W-93, W-97, W-102, and W-103.

Sierk - Out of 197 regional projects, 26 had one SMY or less in FY 1968.

Bohmton noted that all projects don't require the same full-time equivalent of SMY inputs. State Agricultural Experiment Stations are putting more into regional research than is being reported in their SMY's. He questioned the significance of one SMY or less as a criterion for an appropriate level of financing of regional research committee project efforts.

Miscellaneous

1. W-6, "The Introduction, Multiplication, Preservation, and Determination of Potential Value of New Plants for Industrial and Other Purposes"

M. Wilson - W-6 faces some financial problems this coming year due to loss of facilities, and use of new lands anticipated for new facilities. This will be reflected in requests for special funds next spring.

2. List of Technical Committee Members

Asleson requested Station Directors to continue sending their list of technical committee members to the Recording Secretary each year.

3. DAL Funds in Savings

Asleson - The proposal made at the summer meeting regarding the deposit for earnings of DAL funds has been investigated and found to be in order.

Bohmton moved, Ayres seconded, that the Treasurer (Asleson) go ahead and carry out the proposal referred to above.

4. Policy of Paying for the Expenses of Outside Speakers at Technical Committee Meetings

The policy of Western Directors has been that technical committees would find such expense money wherever they can. Individual Stations, such as California, have covered some of such expenses. The consensus of Western Directors was to continue to cover such expenses as they have done in the past.

5. Suggested Schedule of SAES Program Reviews

Sierk - J. O. Grandstaff indicated a suggested schedule of visits to Western SAES in 1968 to be as follows:

Oregon - January 8 - 12
California, (Berkeley and Riverside) - March 12-21
Idaho - April 15 - 19
Washington - May 20 - 24
Montana - June 17 - 21
Utah - September 30 - October 4
New Mexico - December 2 - 6

Future Meetings

The spring meetings will be in Las Cruces, New Mexico, February 28 - March 1; RRC, February 26-27, 1968.

The summer meeting for 1968 is tentatively scheduled for the last full week of July at Fort Collins, Colorado; the dates are July 24-26 for Western Directors and July 23 for RRC.

Appreciations

Kelly commended Asleson for his fine performance as Chairman of Western Directors. The Directors responded with applause.

The Directors also applauded K. W. Hill for his fine service as Chairman of RRC.

Adjournment

Asleson, with the assistance of the new Chairman (Hervey), adjourned the meeting of Western Directors on November 13, at 10:20 p.m.

Respectfully submitted,



Leo R. Gray
Recording Secretary

RECOMMENDED INCREASES TO 1977 IN SAE'S IN WESTERN REGION
BY ACTIVITY GROUPS AND RESEARCH PROBLEM AREAS 1/
f *Weld's minutes*
Feb 1967

	ARIZ.	CALIF.	COLO.	HAW.	IDAHO	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.	Recom.	TOTAL
Forestry	3.4	60.0	4.2	4.0	7.0	0.4	5.0	2.5	26.0	1.0	8.5	2.6	124.6	121.0
Soil, Water Pollution	11.9	60.0	13.6	5.2	5.0	6.6	9.0	4.5	13.6	7.0	12.5	3.9	152.2	157.0
Agricultural Engr.	1.9	20.0	0.2	4.8	2.0	—	0.7	3.0	—	4.5	1.2	38.3	31.0	
Entomology	4.8	20.0	2.5	4.1	3.4	3.0	1.0	2.5	6.0	3.5	4.0	2.0	58.8	58.0
Animal Disease	4.1	15.0	6.8	1.3	3.5	5.0	3.5	—	4.0	3.0	4.0	4.1	54.5	46.0
Animal Production	7.8	10.0	9.5	4.9	3.5	6.4	1.8	3.5	10.0	5.5	7.0	10.1	80.0	63.0
Hort. Crop Production	14.3	45.0	6.3	10.4	4.0	2.4	2.5	4.0	11.0	4.0	13.5	2.8	115.7	219.0
Field Crop Production	18.9	20.0	7.8	5.0	3.0	10.4	2.5	13.0	70	6.0	10.0	6.2	109.3	105.0
Food Sc. Live.	0.2	5.0	0.6	—	3.0	1.0	—	—	4.0	3.0	1.0	1.0	18.8	7.0
Food Sc., F. & Veg.	0.5	10.0	0.6	4.2	4.0	—	—	—	5.0	2.5	4.0	—	30.8	25.0
Food Sc. Field Crop	1.4	4.0	0.2	—	1.5	1.0	—	—	—	—	—	—	—	2.0
Food Safety	0.8	35.0	0.7	3.5	3.0	0.8	—	—	3.0	1.0	2.0	—	46.8	23.0
Prod. Economy	1.9	21.0	1.5	3.0	2.0	1.3	1.0	3.0	1.5	3.5	2.2	42.7	32.0	
Gen. Economy	0.6	15.0	1.0	2.0	1.0	1.9	2.0	—	2.0	1.5	2.5	0.6	30.1	24.0
Rural Development	0.5	10.0	0.7	3.0	2.0	3.3	1.2	2.0	2.0	1.0	3.0	—	28.7	25.0
Mkt. Efficiency	0.9	20.0	0.7	2.8	4.0	1.1	—	1.5	1.0	1.0	2.0	(-)/1.2	33.8	12.0
Foreign Economy	—	5.0	—	1.0	—	0.2	—	—	—	—	1.0	1.0	8.2	2.0
Technical Assistance	(4.0)	5.0(100%)	—	(6.0)	—	—	—	—	—	(5.0)	(5.5)	5.0	72.0	
Consumer Orientation	2.1	20.0	2.9	4.8	1.0	0.8	1.5	2.0	6.0	1.5	3.0	0.4	46.0	35.0
Total	72.0	400.0	59.3	61.0	52.9	45.6	31.0	37.2	108.0	43.0	86.0	37.0	1033.0	1068.0

1/ Activity Groups as recommended by B. D. Joy.

FORESTRY GROUP

Final - Minutes, July 1967

RPA #	Short Title	ARIZ.	CALIF.	COLO.	HAW.	IDAHO	MONT.	NEV.	N. MEX.	ORE.	UTAH	WASH.	WYO.	TOTAL Recom	Target	
110 - Survey	0.5	2.0	-	0.7	-	-	1.0	-	-	-	-	-	-	2.0	3.2	5.0
111 - Timber Mgt	-	2.0	0.5	(-) 0.7	1.0	-	-	-	-	-	1.0	(-) 0.3	6.5	-	3.0	
201 - Insects	0.5	3.0	-	0.6	0.5	-	-	0.5	1.0	-	1.0	0.5	7.6	-	12.0	
202 - Diseases	0.4	3.0	0.2	(-) 0.2	0.5	-	-	-	1.0	-	1.0	-	-	5.9	-	10.0
203 - Fire	-	2.0	0.2	-	-	-	-	-	-	-	-	-	-	-	2.2	5.0
301 - Biol. Eff.	-	3.0	0.7	2.4	0.5	-	-	-	2.0	0.3	2.0	-	-	13.9	9.0	
302 - Engineering	-	3.0	-	-	-	-	-	-	-	-	1.0	-	-	-	4.0	3.0
303 - Economics	-	3.0	0.3	0.6	0.5	-	-	-	-	-	-	-	-	-	5.4	2.0
401 - Utilization	-	10.0	0.5	-	0.5	-	-	-	8.0	-	-	-	-	19.0	28.0	
501 - Grades	-	-	0.2	-	-	-	-	-	1.0	-	-	-	-	-	1.2	1.0
502 - Marketing	-	3.0	-	-	-	-	-	-	1.0	-	-	0.5	0.4	4.9	2.0	
506 - S. D. & Price	-	2.0	-	-	-	-	-	-	-	-	0.5	-	-	-	2.5	2.0
902 - Recreation	0.5	5.0	0.8	0.3	1.0	-	1.0	-	1.0	0.6	1.0	-	-	11.2	-	10.0
903 - Multiple Use	0.5	1.0	-	-	1.0	0.2	1.0	1.0	-	0.5	-	-	-	6.2	-	6.0
904 - Wildlife & Fish	1.0	15.0	0.8	-	1.0	-	1.0	1.0	6.0	0.1	-	-	-	25.9	19.0	
905 - Trees, Environ.	-	3.0	-	0.3	0.5	0.2	1.0	-	-	-	-	-	-	5.0	8.0	
Total	3.4	69.0	4.2	4.0	7.0	0.4	5.0	2.5	26.0	1.0	8.5	2.6	124.6	121.0		

^{1/} RPAs are classified in "An Inventory of Agricultural Research of SAES, Forestry Schools and Research Agencies of USDA" compiled by RPDES, June 1967.

AIR, SOIL, WATER, WATERSHED AND ENVIRONMENTAL POLLUTION GROUP

RPA #	Short Title	ARIZ.	CALIF.	COLO.	HAW.	IDAHO	MONT.	NEV.	N. MEX.	ORE.	UTAH	WASH.	WYO.	Recom	TOTAL Target
101 - Soil Resources		1.1	-	0.5'	0.6	0.5'	-	1.8	0.5'	2.0	-	1.0	0.5'	8.5'	20.0
102 - Soil Structure		1.6	-	0.5'	(-) 0.2	2.0	1.5'	-	1.0	2.0	1.0	2.0	0.5'	11.9	18.0
103 - Soil Salinity		0.3	5.0	1.0	0.3	1.5'	-	-	-	-	1.0	1.0	-	10.1	9.0
105 - Water Conserv.		4.4	5.0	2.7	1.4	-	1.0	3.7	1.0	1.0	0.5'	2.0	3.5'	26.2	28.0
106 - Drain. & Irrig.		0.5	5.0	2.0	1.0	0.5'	1.0	-	1.0	-	1.0	2.0	(-) 0.3	13.7	12.0
107 - Watershed Mgt.		0.8	5.0	2.2	0.1	-	-	-	-	-	0.5'	1.0	-	9.6	6.0
109 - Weather		0.5	10.0	1.0	0.5	-	0.7	-	1.0	-	1.0	2.0	(-) 0.3	16.4	10.0
214 - Air Pollution		-	10.0	0.5'	0.2	0.5'	-	-	-	-	1.0	-	-	12.2	9.0
901 - Allev. Pollut.		2.7	20.0	3.2	1.3	-	2.4	3.5'	-	1.8.0	1.0	1.5'	-	43.6	42.0
Total		11.9	60.0	13.6	5.2	5.0	6.6	9.0	4.5'	13.0	9.0	12.5'	3.9	152.2	157.0

AGRICULTURAL ENGINEERING GROUP

RPA #	Short Title	ARIZ.	CALIF.	COLO.	HAW.	IDAHO	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.	Recom	TOTAL	Target
305 - Mech. Ft. & Veg.	0.8	12.0	0.1	1.6	0.5	-	0.7	3.0	-	2.0	-	-	-	20.7	27.0	
308 - Mech. Fld. Crops	-	4.0	3.1	1.0	0.5	-	-	-	-	0.5	0.5	0.5	0.5	6.6	-	
313 - Poultry Mgt 1/3	0.4	0.5	-	3.5	0.5	-	-	-	-	-	-	-	-	1.9	-	
313 - Beef Mgt 1/3	0.3	0.5	-	0.5	-	-	-	-	-	-	-	-	-	1.3	1.0	
313 - Dairy Mgt 1/3	-	0.5	-	0.5	-	-	-	-	-	-	-	-	-	1.0	-	
313 - Swine Mgt 1/3	0.4	0.5	-	0.2	-	-	-	-	-	-	-	-	-	1.1	-	
313 - Sheep & O.A.Mgt.	-	0.5	-	-	-	-	-	-	-	-	-	-	-	0.5	2.0	
313 - Mgt. Unallotted	-	0.5	-	-	-	-	-	-	-	-	-	-	-	1.5	-	
315 - Gen. Purp. Impr.	-	1.0	-	0.7	0.3	-	-	-	-	-	-	-	-	1.0	1.0	
Total	1.9	20.0	0.2	4.8	2.0	-	-	0.7	3.0	-	4.5	1.2	38.3	31.0		

ENTOMOLOGY GROUP

RPA & Short Title	#	ARIZ.	CALIF.	COLO.	HAW.	IDAHO	MONT.	NEV.	N. MEX.	ORE.	UTAH	WASH.	WYO.	TOTAL Recom	Target
204 - Fruit, Pests		0.4	4.0	2.4	1.0	0.5	-	-	0.5	2.0	0.5	1.0	-	10.3	18.0
204 - Veg., Pests		0.6	7.0	2.6	0.6	0.5	-	-	0.5	2.0	-	1.0	-	9.8	10.0
207 - Corn & Gs, Pests	-	-	0.3	0.5	-	-	-	-	-	-	-	-	-	0.8	-
207 - Rice, Pests	-	1.0	-	-	-	-	-	-	-	-	-	-	-	1.0	1.0
207 - Wheat & SG	-	-	0.2	-	-	-	-	-	-	-	-	-	-	0.5	-
207 - Pas., For. Pests	0.3	1.0	-	0.4	1.0	1.5	1.0	-	1.0	1.0	-	-	-	1.5	8.7
207 - Cotton, Pests	0.6	3.0	-	-	-	-	-	1.0	-	-	-	-	-	4.6	1.0
207 - Soybeans, Pests	-	1.0	-	-	-	-	-	-	-	-	-	-	-	1.0	-
207 - Peanuts, Pests	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
207 - Tobacco, Pests	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
207 - Sugar, Pests	-	2.0	-	0.3	-	-	-	-	-	-	-	-	-	2.3	2.0
207 - Misc., Pests	0.2	-	-	-	-	-	-	-	-	-	-	0.5	-	0.7	1.0
210 - Poultry, Pests	0.1	-	0.2	0.2	-	-	-	-	-	-	-	0.2	0.5	1.2	2.0
210 - Beef, Pests	0.4	-	0.3	0.1	0.5	-	-	0.5	-	0.5	0.3	-	-	2.6	1.0
210 - Dairy, Pests	0.1	-	0.2	0.5	-	-	-	-	-	-	0.5	-	-	1.3	1.0
210 - Swine, Pests	0.1	-	0.2	-	-	-	-	-	-	-	-	-	-	0.3	-
210 - Sheep, O.A.	-	-	-	-	-	-	-	-	-	-	0.5	-	-	0.5	2.0
706 - Man, Pests	0.6	3.0	0.5	0.6	0.2	-	-	-	-	-	-	-	-	4.9	3.0
204,207,210 - Not All C. 1.4	-	-	(-) 0.5	0.2	1.5	-	-	-	-	2.0	1.0	-	-	5.6	6.0
314 - Bees	-	1.0	-	0.5	-	-	-	-	-	1.0	-	-	-	1.5	-
Total	4.8	20.0	2.5	4.1	3.4	3.0	1.0	2.5	8.0	3.5	4.0	2.0	58.8	58.0	

ANIMAL DISEASE GROUP

RPA #	Short Title	ARIZ.	CALIF.	COLO.	HAW.	IDAHO	MONT.	NEV.	N. MEX.	ORE.	UTAH	WASH.	WYO.	TOTAL Recom	Target
211 - Poultry, Dis.		0.4	1.0	0.1	0.2	0.3	-	-	1.0	0.6	-	-	-	3.6	5.0
212 - Poultry, Para.		0.2	1.0	-	0.2	-	-	-	-	0.2	0.3	-	-	1.9	2.0
213 - Poultry, Chem.		-	1.0	0.1	0.1	-	-	-	-	0.2	-	-	-	1.4	1.0
211 - Beef, Disease		1.3	1.0	3.0	0.2	1.2	3.0	2.0	-	-	0.3	0.5	1.1	13.6	9.0
212 - Beef, Para.		0.5	1.0	0.2	-	0.5	0.8	-	-	0.1	0.2	0.9	4.2	3.0	
213 - Beef, Chem.		-	1.0	0.1	0.1	-	-	-	-	0.1	0.5	0.7	2.5	-	
211 - Dairy, Disease		0.8	2.0	-	0.2	0.5	-	-	-	1.0	0.3	1.0	-	5.8	6.0
212 - Dairy, Para.		-	-	-	-	-	-	-	-	-	0.1	1.0	-	1.1	-
213 - Dairy, Chem.		-	-	-	0.1	-	-	-	-	0.1	0.5	-	0.7	-	
211 - Swine, Disease		0.4	-	-	0.2	-	-	-	-	-	-	-	0.6	-	
212 - Swine, Para.		-	-	-	0.2	0.2	-	-	-	-	-	-	0.4	-	
213 - Swine, Chem.		-	-	-	-	-	-	-	-	-	-	-	-	-	
211 - Sheep, O.A., Dis.		-	0.5	2.0	-	1.0	1.5	-	1.0	0.3	-	1.9	8.2	13.0	
212 - Sheep, O.A., Para.		0.1	0.5	0.2	-	0.2	-	-	-	0.1	-	0.1	1.2	5.0	
213 - Sheep, O.A., Chem		-	0.1	-	-	-	-	-	-	1.0	0.1	-	(-) 0.6	0.6	2.0
211 - Not Allocated		-	1.0	-	-	-	-	-	-	0.5	-	-	1.5	-	
212 - Not Allocated		0.1	1.0	-	-	-	-	-	-	-	-	-	1.1	-	
213 - Not Allocated		0.3	1.0	0.6	-	-	-	-	-	-	-	-	1.9	-	
707 - Transmission		-	3.0	0.4	(-) 0.2	0.8	-	-	-	-	-	-	4.0	-	
Total		4.1	15.0	6.8	1.3	3.5	5.0	3.5	-	4.0	3.0	4.0	4.1	54.3	46.0

ANIMAL PRODUCTION GROUP

RPA #	Short Title	ARIZ.	CALIF.	COLO.	HAW.	IDAHO	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.	TOTAL Recom	Target
310 - Poultry, Reprod.	-	-	0.5	-	-	-	-	-	-	0.6	-	-	1.1	2.0	
311 - Poultry, Feed	-	-	0.5	(-)0.2	-	-	-	0.5	1.0	-	0.5	-	2.3	3.0	
312 - Poultry, Env. Str.	-	-	0.2	0.3	0.3	-	-	0.5	-	0.3	0.5	-	2.1	2.0	
313 - Poultry, Improv	-	-	-	-	-	0.1	-	-	-	0.3	-	-	0.4	1.0	
409 - Poultry, Prod.	-	-	(-)0.1	-	-	-	-	1.0	-	-	-	-	0.9	4.0	
Subtotal, Poultry	(-)	(-)	(1.2)	(-)	(0.3)	(0.1)	(-)	(1.0)	(2.0)	(1.2)	(1.0)	-	(6.8)	(12.0)	
310 - Beef, Reprod.	1.1	0.5	3.0	0.5	-	1.2	-	-	1.0	0.7	0.5	3.0	11.5	11.0	
311 - Beef, Feed Eff.	2.0	-	1.0	(-)0.1	0.7	1.5	-	-	1.0	0.3	1.5	2.2	10.1	5.0	
312 - Beef, Env. Str.	0.4	-	1.5	0.2	0.3	0.3	-	1.0	-	-	0.5	0.8	5.0	3.0	
313 - Beef, Improv.	0.4	-	0.5	0.4	-	0.8	-	-	0.3	0.5	0.5	0.5	3.4	3.0	
409 - Beef, Prod.	1.0	0.5	0.5	-	0.3	0.5	1.8	2.5	1.0	0.5	0.5	2.0	9.1	9.0	
Subtotal, Beef	(4.9)	(1.0)	(5.5)	(1.0)	(1.3)	(4.3)	(1.8)	(1.5)	(3.0)	(1.8)	(3.5)	(8.5)	(39.1)	(31.0)	
310 - Dairy, Reprod.	0.3	1.0	0.3	0.5	-	-	-	1.0	1.0	0.7	0.5	-	5.3	3.0	
311 - Dairy, Feed	-	0.5	-	1.3	1.0	0.2	-	-	1.0	0.3	0.5	-	4.8	2.0	
312 - Dairy, Env. Str.	0.6	-	-	0.6	0.3	-	-	-	-	0.2	1.0	-	2.7	-	
313 - Dairy, Improv.	0.2	-	-	0.2	-	-	-	-	-	0.2	0.5	-	1.1	-	
409 - Dairy, Prod.	0.2	0.5	-	0.1	-	-	-	-	-	0.2	-	-	1.0	-	
Subtotal, Dairy	(1.3)	(2.0)	(0.3)	(2.7)	(1.3)	(0.2)	(-)	(1.0)	(2.0)	(1.6)	(2.5)	(-)	(4.9)	(5.0)	

ANIMAL PRODUCTION GROUP (CONT'D)

RPA #	Short Title	ARIZ.	CALIF.	COLO.	HAW.	IDAHO	MONT.	NEV.	N. MEX.	ORE.	UTAH	WASH.	WYO.	Recom.	TOTAL
310 - Swine, Reprod.	-	-	-	-	0.3	0.1	-	-	-	-	-	-	0.4	-	-
311 - Swine, Feed	-	-	0.5	1.0	-	0.3	-	-	-	-	-	-	1.8	-	-
312 - Swine, Env. Str.	-	-	-	0.2	-	-	-	-	-	-	-	-	0.2	-	-
313 - Swine, Improv.	0.5	-	0.1	-	0.3	-	-	-	-	-	-	-	0.9	-	-
409 - Swine, Prod.	0.3	-	0.1	-	-	-	-	-	-	-	-	-	0.4	-	-
Subtotal, Swine	(0.8)	(-)	(0.5)	(1.4)	(0.3)	(0.7)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(3.7)	(-)
Sheep, O.A., Reproduction	-	0.5	-	-	-	0.2	-	-	-	0.5	-	-	-	1.2	3.0
Sheep, O.A., Feed	0.2	-	-	0.3	0.4	-	-	1.0	0.1	-	-	-	-	2.0	3.0
Sheep, O.A., Env. Stress	-	0.5	-	(-)	0.1	-	0.2	-	-	0.1	-	-	0.2	0.9	1.0
Sheep, O.A., Improv.	-	-	-	-	0.1	-	-	-	0.1	-	-	-	0.4	0.6	2.0
Sheep, O.A., Production	-	0.8	-	-	0.2	-	-	1.0	0.1	-	-	1.0	3.1	6.0	
Subtotal, Sheep	(0.2)	(1.0)	(0.8)	(0.1)	(0.3)	(1.1)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(1.6)	(7.8)
310 - Not allocated	-	2.0	0.2	(-)	0.1	-	-	-	1.0	-	-	-	-	3.1	-
311 - Not allocated	0.3	1.0	-	-	-	-	-	-	-	-	-	-	1.3	-	-
312 - Not allocated	0.3	2.0	-	-	-	-	-	-	-	-	-	-	2.3	-	-
313 - Not allocated	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
409 - Not allocated	-	1.0	-	-	-	-	-	-	-	-	-	-	1.0	-	-
Subtotal, N.A.	(0.6)	(6.0)	(0.2)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(7.7)	(-)
Total for Animal Product. Group	7.8	10.0	9.5	4.9	3.5	6.4	1.8	3.5	10.0	5.5	7.0	10.1	80.0	63.0	

HORTICULTURAL CROP PRODUCTION GROUP

RPA & Short #	Short Title	ARIZ.	CALIF.	COLO.	HAW.	IDAHO	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.	TOTAL Recon	Target
205 - Citrus, Dis.		0.6	5.0	-	2.1	-	-	-	-	2.0	-	-	-	9.7	15.0
205 - Decid., Dis.		0.1	0.0	1.3	-	1.0	0.1	-	0.5	-	-	1.0	-	1.0	-
206 - Citrus, Weeds		-	2.0	-	0.7	-	-	-	-	-	-	-	-	2.7	3.0
206 - Decid., Weeds		-	2.0	0.1	-	-	-	-	-	-	-	0.5	-	0.6	-
304 - Citrus, Improv.		1.1	2.0	-	1.6	-	-	-	-	-	-	-	-	4.7	70.0
304 - Decid., Improv.		0.6	2.0	1.0	(-) 1.8	-	-	-	0.5	2.0	1.5	3.5	-	9.3	-
402 - Citrus, Prod.		0.5	2.0	-	1.3	-	-	-	-	-	-	-	-	3.8	14.0
402 - Decid., Prod.		0.2	2.0	-	-	-	-	-	-	1.0	0.3	-	-	3.5	(102.0)
Subtotal, Fruit	(3.1)	(24.0)	(2.4)	(3.9)	(1.0)	(0.1)	(-) (1.0)	(5.0)	(1.8)	(5.0)	(5.0)	(-) (47.3)	(-) (102.0)		
205 - Veg. & Potatoes		3.1	2.0	-	1.7	1.0	0.5	-	0.5	-	-	1.0	0.3	7.1	13.0
206 - Veg. & Potatoes		6.5	2.6	0.5	1.0	-	-	1.0	-	-	0.2	1.5	-	6.7	5.0
304 - Veg. & Potatoes		2.2	1.0	0.5	1.4	2.0	0.5	0.5	1.5	2.0	0.3	3.5	0.5	15.9	62.0
402 - Veg. & Potatoes		0.3	1.0	1.0	1.5	-	-	-	-	1.0	0.2	-	-	5.0	11.0
Subtotal, V.&P.	(3.1)	(6.0)	(2.0)	(5.6)	(3.0)	(1.0)	(1.5)	(2.0)	(1.0)	(3.0)	(3.0)	(3.7)	(6.0)	(34.7)	(91.0)
205 - Not Allocated		0.4	1.0	-	-	-	-	-	-	-	-	-	-	1.4	-
206 - Not Allocated		0.3	2.0	-	(-) 0.5	-	-	-	-	-	-	-	-	1.8	-
304 - Not Allocated		1.0	1.0	-	-	-	-	-	-	-	-	-	-	2.0	-
402 - Not Allocated		0.2	1.0	-	-	-	-	-	-	-	-	1.0	-	2.2	-
906 - Ornamentals		2.2	16.0	1.9	1.4	-	1.3	1.0	1.0	3.0	1.5	1.5	1.5	26.3	26.0
Total	10.3	45.0	6.5	10.4	4.0	2.4	2.5	2.0	1.0	4.0	1.3	4.0	1.3	15.7	217.0

FIELD CROP PRODUCTION

		TOTAL													
RPA #	Short Title	ARIZ.	CALIF.	COLO.	HAW.	IDAHO	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.	Recom	Target
208 - Corn, G.S., Dis.	-	1.0	0.7	-	-	-	-	-	-	-	-	-	-	1.7	-
209 - Corn,G.S.,Weeds	0.2	-	0.4	0.4	-	-	-	-	-	-	-	-	-	1.0	-
307 - Corn,G.S.,Imp.	0.7	-	2.6	-	-	-	0.5	-	-	-	-	-	-	3.8	-
405 - Corn,G.S.,Prod.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal,Corn,G.S.	(0.9)	(-)	(1.4)	(3.7)	(-)	(-)	(0.5)	(-)	(-)	(-)	(-)	(-)	(-)	(6.5)	(-)
208 - Rice, Disease	-	1.0	-	-	-	-	-	-	-	-	-	-	-	1.0	2.0
209 - Rice, Weeds	-	1.0	-	-	-	-	-	-	-	-	-	-	-	1.0	-
307 - Rice, Improv.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0
405 - Rice, Prod.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal, Rice	(-)	(2.0)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(2.0)	(2.0)
208 - Wheat, SG, Dis.	-	1.0	-	-	2.2	-	-	-	-	-	-	1.0	1.0	5.2	5.0
209 - Wheat,SG, Weeds	0.3	-	1.0	-	-	0.2	-	-	2.0	-	0.5	2.1	4.1	4.0	4.0
307 - Wheat,SG, Imp.	0.8	-	1.0	-	-	1.5	-	-	1.0	2.0	2.0	0.5	8.8	16.0	16.0
405 - Wheat,SG, Prod.	0.3	-	1.0	-	-	1.4	-	-	-	-	0.5	-	3.2	1.0	1.0
Subtotal,Wheat	(1.4)	(-)	(4.0)	(-)	(-)	(5.3)	(-)	(-)	(3.0)	(2.0)	(4.0)	(1.6)	(21.3)	(26.0)	(26.0)
208 - Past.,For.,Dis.	0.6	1.0	-	0.7	-	0.3	-	-	-	-	0.5	-	3.1	4.0	4.0
209 - Past.,For.,Weeds	0.3	-	0.1	-	0.2	-	-	-	-	-	0.5	-	7.1	1.0	1.0
307 - Past.,For.,Imp.	0.7	1.0	-	(-) 0.8	-	0.7	2.0	0.5	2.0	1.5	1.0	1.1	9.7	18.0	18.0
405 - Past.,For.,Prod.	0.4	-	-	-	-	-	-	-	-	-	-	0.4	-	-	-
Subtotal,P - F	(2.0)	(2.0)	(-)	(-)	(1.2)	(2.0)	(2.5)	(2.0)	(1.5)	(1.1)	(2.5)	(1.1)	(14.3)	(23.0)	(23.0)

FIELD CROP PRODUCTION (CONT'D)

FIELD CROP PRODUCTION (CONT'D)

RPA & #	Short Title	ARIZ.	CALIF.	COLO.	HAW.	IDAHO	MONT.	NEV.	N. MEX.	ORE.	UTAH	WASH.	WYO.	Recom.	TOTAL Target
208 - Sugar Cps, Dis.	-	2.0	0.2	0.4	1.0	0.3	-	-	-	-	-	-	-	3.9	2.0
209 - Sugar Cps, Weeds	0.1	1.0	-	0.4	-	0.1	-	-	-	-	0.5	-	-	2.1	1.0
307 - Sugar Cps, Imp.	-	1.0	-	0.8	-	0.3	-	-	-	0.5	0.5	-	-	3.1	2.0
405 - Sugar Cps, Prod.	-	1.0	0.1	-	-	-	-	-	-	-	-	-	-	1.1	-
Subtotal, Sugar	(0.1)	(5.0)	(0.3)	(1.6)	(1.0)	(0.7)	(-)	(-)	(-)	(0.5)	(1.0)	(-)	(-)	10.2	5.0
208 - Oil, Misc., Dis.	0.5	2.0	-	0.3	-	-	-	-	-	-	0.5	-	-	3.3	1.0
209 - Oil, Misc., Weeds	-	1.0	-	-	-	-	-	-	-	-	-	-	-	1.0	1.0
307 - Oil, Misc., Imp.	1.4	1.0	-	(-)	0.3	1.0	0.2	-	-	-	0.5	-	-	3.8	8.0
405 - Oil, Misc., Prod.	0.3	1.0	-	(-) 0.2	-	-	-	-	-	-	-	-	-	1.1	1.0
Subtotal, O.M.	(2.2)	(5.0)	(-)	(-)	(0.2)	(0.9)	(0.2)	(-)	(-)	(-)	(-)	(-)	(-)	(9.2)	11.0
208 - Not Allocated	0.2	-	-	(-) 0.1	-	-	-	-	-	-	-	-	-	0.1	-
209 - Not Allocated	0.3	-	-	0.1	1.0	-	-	-	-	-	-	-	-	1.4	-
307 - Not Allocated	4.9	-	-	(A) 0.2	-	-	-	-	-	-	-	-	-	4.7	-
405 - Not Allocated	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal, N.A.	(3.4)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(6.2)	(-)
112 - Range Mgt.	1.4	-	1.6	0.2	-	3.0	-	8.5	2.0	2.0	3.5	24.2	15.0		
Total	18.9	20.0	7.3	5.0	3.0	10.4	2.5	13.0	7.0	6.0	10.0	6.2	109.3	105.0	

LIVESTOCK, FOOD SCIENCE AND UTILIZATION GROUP

RPA & Short #	Short Title	ARIZ.	CALIF.	COLO.	HAW.	IDAHO	MONT.	NEV.	N. MEX.	ORE.	UTAH	WASH.	WYO.	TOTAL Recom.	TARGET
410 -	New & Improved Poultry, eggs	-	-	-	-	0.5	-	-	-	1.0	0.8	-	-	2.3	2.0
412 -	Poultry, Quality	0.1	1.0	-	-	0.5	-	-	-	-	-	-	-	1.6	1.0
501 -	Poultry, Imp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
410 -	New & Improved Beef, Meat	0.1	-	-	-	0.5	-	-	-	0.6	-	-	-	1.2	-
411 -	Beef Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-
412 -	Beef Quality	-	1.0	0.6	-	0.2	0.6	-	-	1.0	0.1	-	-	3.5	-
501 -	Beef Imp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
410 -	New & Improved Dairy	-	-	-	-	0.5	-	-	-	1.0	1.0	-	-	2.5	-
411 -	Dairy Prod.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
412 -	Dairy, Quality	-	2.0	-	-	0.5	0.2	-	-	1.0	-	-	-	3.7	1.0
501 -	Dairy, Imp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
410 -	New & Improved Swine	-	-	-	-	-	-	-	-	-	-	-	-	-	-
411 -	Swine Prod.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
412 -	Swine, Quality	-	-	-	-	0.3	0.1	-	-	-	-	-	-	0.4	-
501 -	Swine, Imp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
410 -	Sheep & O.A.	-	-	-	-	-	-	-	-	-	0.5	-	1.0	1.5	2.0
411 -	" " Prod.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
412 -	" " Qual.	-	1.0	-	-	-	0.1	-	-	-	-	-	-	1.1	1.0
501 -	" Imp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
410,11,12,501	= Unall.	-	-	-	-	-	-	-	-	-	1.0	-	1.0	-	-
Total		0.2	5.0	0.6	-	3.0	1.0	-	-	4.0	3.0	1.0	1.0	18.2	7.0

CROP FOOD SCIENCE AND UTILIZATION GROUP

CROP FOOD SCIENCE AND UTILIZATION GROUP (CONT'D)

RECOMMENDED INCREASES TO 1977 IN SMY'S IN SAES
IN WESTERN REGION BY RESEARCH GOALS AND PROBLEM AREAS

SUMMARY BY RPA GOALS

RPA #	Goal	ARIZ.	CALIF.	COLO.	HAW.	IDAHO	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.	TOTAL
I	11.5	44.0	12.7	5.1	6.0	7.7	7.5	13.0	11.0	8.0	16.0	10.5	153.0	
II.	15.0	82.0	14.8	13.1	11.4	11.9	5.5	5.5	17.0	7.7	17.5	8.0	209.4	
III	26.1	59.0	12.7	18.1	10.7	9.7	3.0	8.7	23.0	11.3	26.5	11.2	220.0	
IV	7.0	40.0	5.3	6.4	9.3	4.1	1.8	1.5	22.0	6.8	7.0	4.6	115.8	
V	1.3	35.0	0.9	4.7	4.5	1.8	2.0	1.5	5.0	2.0	4.2	(-)0.8	62.1	
VI	-	10.0	-	1.0	-	0.2	-	-	-	-	1.0	1.0	13.2	
VII	2.6	61.0	3.5	4.6	5.0	1.6	1.2	1.0	8.0	2.2	4.5	0.4	95.6	
VIII	1.6	15.0	2.7	3.7	2.0	2.8	0.6	2.0	3.0	1.8	3.8	0.6	39.6	
IX	6.9	54.0	6.7	4.3	4.0	5.8	9.4	4.0	19.0	3.2	5.5	1.5	124.3	
Total	72.0	400.0	59.3	61.0	52.9	45.6	31.0	37.2	108.0	43.0	86.0	37.0	1033.0	
1966 + 70 per cent	72.0	400.0	59.0	61.0	53.0	43.0	31.0	37.0	108.0	43.0	86.0	37.0	1030.0	

I. RESOURCE CONSERVATION AND USE

RPA #	ARIZ.	CALIF.	COLO.	HAW.	IDAHO	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.	TOTAL
101	1.1	-	0.5	0.6	0.5	-	1.8	0.5	2.0	-	1.0	0.5	8.5
102	1.6	-	0.5	(-)0.2	2.0	1.5	-	1.0	2.0	1.0	2.0	0.5	11.9
103	0.3	5.0	1.0	0.3	1.5	-	-	-	-	1.0	1.0	-	10.1
104	0.3	7.0	0.2	0.6	-	0.3	-	-	-	0.4	1.0	1.3	11.1
105	4.4	5.0	2.7	1.4	-	1.0	3.7	1.0	1.0	0.5	2.0	3.5	26.2
106	0.5	5.0	2.0	1.0	0.5	1.0	-	1.0	-	1.0	2.0	(-)0.3	13.7
107	0.8	5.0	2.2	0.1	-	-	-	-	-	0.5	1.0	-	9.6
108	0.1	3.0	0.5	0.6	0.5	0.2	1.0	-	1.0	0.6	1.0	0.1	8.6
109	0.5	10.0	1.0	0.5	-	0.7	-	1.0	-	1.0	2.0	(-)0.3	16.4
110	0.5	2.0	-	0.7	-	-	1.0	-	-	-	-	2.0	6.2
111	-	2.0	0.5	(-)0.7	1.0	-	-	-	3.0	-	1.0	(-)0.3	6.5
112	1.4	-	1.6	0.2	-	3.0	-	8.5	2.0	2.0	2.0	3.5	24.2
Total, Goal I	11.5	44.0	12.7	5.1	6.0	7.7	7.5	13.0	11.0	8.0	16.0	10.5	153.0

NOTE: See An Inventory of Agricultural Research... 1966, June 1967 (the "yellow book") for RPA X commodity classification.

III. PROTECTION OF FORESTS, CROPS AND LIVESTOCK

RPA #	ARIZ.	CALIF.	COLO.	HAW.	IDAHO	MONT.	NEV.	N. MEX.	ORE.	UTAH	WASH.	WYO.	TOTAL
201	0.5	3.0	-	0.6	0.5	-	-	0.5	1.0	-	1.0	0.5	7.6
202	0.4	3.0	0.2	(-)0.2	0.5	-	-	-	1.0	-	1.0	-	5.9
203	-	2.0	0.2	-	-	-	-	-	-	-	-	-	2.2
204 - B9, 10	0.4	4.0	0.4	1.0	0.5	-	-	0.5	2.0	0.5	1.0	-	10.3
204 - B11, 12	0.6	4.0	0.6	0.6	0.5	-	-	0.5	2.0	-	1.0	-	9.8
204 - B28, 97, 99	1.0	-	-	(-)0.5	0.1	0.5	-	-	1.0	0.5	-	-	2.6
Subtotal 204	2.0	8.0	1.0	1.1	1.1	0.5	-	1.0	5.0	1.0	2.0	-	22.7
205 - B9	0.6	5.0	-	2.1	-	-	-	-	2.0	-	-	-	9.7
205 - B10	0.1	7.0	1.3	-	1.0	0.1	-	0.5	-	-	1.0	-	11.0
205 - B11, 12	0.1	2.0	-	1.7	1.0	0.5	-	0.5	-	-	1.0	0.3	7.1
205 - B28, 97, 99	0.4	1.0	-	-	-	-	-	-	-	-	-	-	1.4
Subtotal 205	1.2	15.0	1.3	3.8	2.0	0.6	-	1.0	2.0	-	2.0	0.3	29.2
206 - B9	-	2.0	-	0.7	-	-	-	-	-	-	-	-	2.7
206 - B10	-	2.0	0.1	-	-	-	-	-	-	-	0.5	-	2.6
206 - B11, 12	0.5	2.0	0.5	1.0	-	-	1.0	-	-	0.2	1.5	-	6.7
206 - B28, 99	0.3	2.0	-	(-)0.5	-	-	-	-	-	-	-	-	1.8
Subtotal 206	0.8	8.0	0.6	1.2	-	-	1.0	-	-	0.2	2.0	-	13.8

B9 Citrus and subtropical fruit
 B10 Deciduous and small fruit
 B11 Potatoes
 B12 Vegetables

B28 Misc. and new crops
 B97 Unallotted plant science
 B99 Other unallotted

II. PROTECTION OF FORESTS, CROPS AND LIVESTOCK (CONT'D)

RPA #	ARIZ.	CALIF.	COLO.	HAW.	IDAHO	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.	TOTAL
207 - B14, 15	-	0.3	0.5	-	-	-	-	-	-	-	-	-	0.8
207 - B16	-	1.0	-	-	-	-	-	-	-	-	-	-	1.0
207 - B17, 18	-	0.2	-	-	-	-	-	-	-	-	-	-	0.7
207 - B19, 20	0.3	1.0	-	0.4	1.0	1.5	1.0	-	1.0	1.0	-	-	8.7
207 - B21	0.6	3.0	-	-	-	-	1.0	-	-	-	-	-	4.6
207 - B23	-	1.0	-	-	-	-	-	-	-	-	-	-	1.0
207 - B27	-	2.0	-	0.3	-	-	-	-	-	-	-	-	2.3
207 - B25, 28	0.2	-	-	-	-	-	-	-	-	-	-	-	0.7
207 - B97, 99	0.4	-	-	-	0.1	-	-	-	-	-	-	-	1.0
Subtotal 207	1.5	8.0	0.5	1.2	1.1	1.5	1.0	1.0	1.0	1.0	1.0	1.0	20.8
208 - B14, 15	-	-	1.0	0.7	-	-	-	-	-	-	-	-	1.7
208 - B16	-	1.0	-	-	-	-	-	-	-	-	-	-	1.0
208 - B17, 18	-	-	1.0	-	-	2.2	-	-	-	-	1.0	1.0	5.2
208 - B19, 20	0.6	1.0	-	0.7	-	0.3	-	-	-	-	0.5	-	3.1
208 - B21	0.6	3.0	-	-	-	-	1.5	-	-	-	-	-	5.1
208 - B27	-	2.0	0.2	0.4	1.0	0.3	-	-	-	-	-	-	3.9
208 - B25, 28	0.5	2.0	-	0.3	-	-	-	-	-	-	0.5	-	3.3
208 - B97, 99	0.2	-	(-)0.1	-	-	-	-	-	-	-	-	-	0.1
Subtotal 208	1.9	9.0	2.2	2.0	1.0	2.8	-	1.5	-	-	2.0	1.0	23.4

B14 Corn Cotton
B15 Grain sorghum B21 Soybeans
B16 Rice B23 Peanuts
B17 Wheat B24 Other oilseed crops
B18 Other small grain B25 Tobacco
B19 Pasture B26 Sugar crops
B20 Forage crops B27 Miscellaneous and new crops

B97 Unallotted plant science
B99 Other unallotted

II. PROTECTION OF FORESTS, CROPS AND LIVESTOCK (CONT'D)

RPA #	ARIZ.	CALIF.	COLO.	HAW.	IDAHO	MONT.	NEV.	N. MEX.	ORE.	UTAH	WASH.	WYO.	TOTAL
209 - B14, 15	0.2	-	0.4	0.4	-	-	-	-	-	-	-	-	1.0
209 - B16	-	1.0	-	-	-	-	-	-	-	-	-	-	1.0
209 - B17, 18	0.3	-	1.0	-	-	0.2	-	-	2.0	-	0.5	0.1	4.1
209 - B19, 20	0.3	-	-	0.1	-	0.2	-	-	-	-	0.5	-	1.1
209 - B21	0.7	1.0	-	-	-	-	-	-	-	-	-	-	1.7
209 - B27	0.1	1.0	-	0.4	-	0.1	-	-	-	-	0.5	-	2.1
209 - B25, 28	-	1.0	-	-	-	-	-	-	-	-	-	-	1.0
209 - B97, 99	0.3	-	-	0.1	1.0	-	-	-	-	-	-	-	1.4
Subtotal 209	1.9	4.0	1.4	1.0	1.0	0.5	-	-	2.0	-	1.5	0.1	13.4
210 - B29	0.1	-	0.2	0.2	-	-	-	-	-	-	0.2	0.5	1.2
210 - B30	0.4	-	0.3	0.1	0.5	-	-	0.5	-	0.5	0.3	-	2.6
210 - B31	0.1	-	-	0.2	0.5	-	-	-	-	-	0.5	-	1.3
210 - B32	0.1	-	-	0.2	-	-	-	-	-	-	-	-	0.3
210 - B33	-	-	-	-	-	-	-	-	-	-	0.5	-	0.5
210 - B98, 99	-	-	-	-	-	-	1.0	-	-	1.0	-	-	2.0
Subtotal 210	0.7	-	0.5	0.7	1.0	1.0	-	0.5	1.0	1.0	1.0	0.5	7.9

B14	Corn	B27	Sugar crops
B15	Grain sorghum	B28	Misc. and new crops
B16	Rice	B29	Poultry
B17	Wheat	B30	Beef
B18	Other small grain	B31	Dairy
B19	Pasture	B32	Swine
B20	Forage crops	B33	Sheep & Other Animals
B21	Cotton	B97	Unallotted plant science
B23	Soybeans	B98	Unallotted animal science
		B22	Others

(Page 5 of 22)

II. PROTECTION OF FORESTS, CROPS AND LIVESTOCK (CONT'D)

RPA #	ARIZ.	CALIF.	COLO.	HAW.	IDAHO	MONT.	NEV.	N. MEX.	ORE.	UTAH	WASH.	WYO.	TOTAL
211 - B29	0.4	1.0	0.1	0.2	0.3	-	-	-	1.0	0.6	-	-	3.6
211 - B30	1.3	1.0	3.0	0.2	1.2	3.0	2.0	-	-	0.3	0.5	1.1	13.6
211 - B31	0.8	2.0	-	0.2	0.5	-	-	-	1.0	0.3	1.0	-	5.8
211 - B32	0.4	-	0.2	-	-	-	-	-	-	-	-	-	0.6
211 - B33	-	0.5	2.0	-	-	1.0	1.5	-	1.0	0.3	-	1.9	8.2
211 - B98, 99	-	1.0	-	-	-	-	-	-	-	0.5	-	-	1.5
Subtotal 211	2.9	5.5	5.1	0.8	2.0	4.0	3.5	-	3.0	2.0	1.5	3.0	33.3
212 - B29	0.2	1.0	-	0.2	-	-	-	-	-	0.2	0.3	-	1.9
212 - B30	0.5	1.0	0.2	-	0.5	0.8	-	-	-	0.1	0.2	0.9	4.2
212 - B31	-	-	-	-	-	-	-	-	-	0.1	1.0	-	1.1
212 - B32	-	-	-	0.2	0.2	-	-	-	-	-	-	-	0.4
212 - B33	0.1	0.5	0.2	-	-	0.2	-	-	-	0.1	-	0.1	1.2
212 - B98, 99	0.1	1.0	-	-	-	-	-	-	-	-	-	-	1.1
Subtotal 212	0.9	3.5	0.4	0.4	0.7	1.0	-	-	1.0	0.5	1.5	1.0	9.9
B29	Poultry												
B30	Beef												
B31	Dairy												
B32	Swine												
B33	Sheep, Other Animals												
B98	Unallocated livestock												
B99	Unallocated, other												

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II. PROTECTION OF FORESTS, CROPS AND LIVESTOCK

RPA #	ARIZ.	CALIF.	COLO.	HAW.	IDAHO	MONT.	NEV.	N. MEX.	ORE.	UTAH	WASH.	WYO.	TOTAL
213 - B29	-	1.0	0.1	0.1	-	-	-	-	-	0.2	-	-	1.4
213 - B30	-	1.0	0.1	0.1	-	-	-	-	-	0.1	0.5	0.7	2.5
213 - B31	-	-	0.1	-	-	-	-	-	-	0.1	0.5	-	0.7
213 - B33	-	-	0.1	-	-	-	-	-	-	1.0	0.1	-	(-0.6 0.6
213 - B98, 99	0.3	1.0	0.6	-	-	-	-	-	-	-	-	-	1.9
Subtotal 213	0.3	3.0	0.9	0.3	-	-	-	-	-	1.0	0.5	1.0	0.1 7.1
214	-	10.0	0.5	0.2	0.5	-	-	-	-	-	1.0	-	- 12.2
Total, Goal II	15.0	82.0	14.8	13.1	11.4	11.9	5.5	5.5	17.0	7.7	17.5	8.0	209.4
B29	Poultry												
B30	Beef												
B31	Dairy												
B33	Sheep, Other Animals												
B98	Unallocated livestock												
B99	Unallocated, other												

III. EFFICIENT PRODUCTION OF FARM AND FOREST PRODUCTS

RPA #	ARIZ.	CALIF.	COLO.	HAW.	IDAHO	MONT.	NEV.	N. MEX.	ORE.	UTAH	WASH.	WYO.	TOTAL
301	-	3.0	0.7	2.4	0.5	-	-	-	2.0	0.3	2.0	-	10.9
302	-	3.0	-	-	-	-	-	-	1.0	-	-	-	4.0
303	-	3.0	0.3	0.6	0.5	-	-	-	-	-	1.0	-	5.4
Subtotal	-	9.0	1.0	3.0	1.0	-	-	-	3.0	0.3	3.0	-	20.3
304 - B9	1.1	2.0	-	1.6	-	-	-	-	-	-	-	-	4.7
304 - B10	0.6	2.0	1.0	(-1)8	-	-	0.5	2.0	1.5	3.5	-	-	9.3
304 - B11, 12	2.2	1.0	0.5	1.4	2.0	0.5	0.5	1.5	2.0	0.3	3.5	0.5	15.9
304 - B28, 97, 99	1.0	1.0	-	-	-	-	-	-	-	-	-	-	2.0
Subtotal 304	4.9	6.0	1.5	1.2	2.0	0.5	0.5	2.0	4.0	1.8	7.0	0.5	31.9
305	0.8	12.0	0.1	1.6	0.5	-	-	0.7	3.0	-	2.0	-	20.7
306	0.9	4.0	0.4	0.3	0.3	-	-	-	-	-	0.5	-	6.4
Subtotal	1.7	16.0	0.5	1.9	0.8	-	-	0.7	3.0	-	2.5	-	27.1
307 - B14, 15	0.7	-	2.6	-	-	0.5	-	-	-	-	-	-	3.8
307 - B17, 18	0.8	-	1.0	-	-	1.5	-	-	1.0	2.0	2.0	0.5	8.8
307 - B19, 20	0.7	1.0	-	(+0.8	-	0.7	2.0	0.5	2.0	1.5	1.0	1.1	9.7
307 - B21	3.0	-	-	-	-	0.5	1.0	-	-	-	-	-	4.5
307 - B23	-	1.0	-	(+0.1	-	-	-	-	-	-	-	-	0.9
307 - B27	-	1.0	-	0.8	-	0.3	-	-	0.5	0.5	-	-	3.1
307 - B25, 28	1.4	1.0	-	(-0.3	1.0	0.2	-	-	-	0.5	-	-	3.8
307 - B97, 99	4.9	-	-	(+0.2	-	-	-	-	-	-	-	-	4.7
Subtotal 307	11.5	4.0	1.0	2.0	1.0	2.7	2.5	2.0	3.0	4.0	4.0	1.6	39.3

III. EFFICIENT PRODUCTION OF FARM AND FOREST PRODUCTS (CONT'D)

RPA #	ARIZ.	CALIF.	COLO.	HAW.	IDAHo	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.	TOTAL
308	-	4.0	0.1	1.0	0.5	-	-	-	-	-	0.5	0.5	6.6
309	0.4	2.0	0.2	0.5	0.3	0.5	-	-	-	0.5	-	-	4.4
Subtotal	0.4	6.0	0.3	1.5	0.8	0.5	-	-	-	1.0	0.5	11.0	
310 - B29	-	-	0.5	-	-	-	-	-	-	0.6	-	-	1.1
310 - B30	1.1	0.5	3.0	0.5	-	1.2	-	-	1.0	0.7	0.5	3.0	11.5
310 - B31	0.3	1.0	0.3	0.5	-	-	1.0	1.0	0.7	0.5	-	-	5.3
310 - B32	-	-	-	0.3	0.1	-	-	-	-	-	-	-	0.4
310 - B33, 34	-	0.5	-	-	0.2	-	-	-	0.5	-	-	-	1.2
310 - B98, 99	-	2.0	0.2	(D.1	-	-	-	-	1.0	-	-	-	3.1
Subtotal	310	1.4	4.0	0.9	0.3	1.5	-	1.0	3.0	2.	1.0	3.0	22.6
311 - B29	-	-	0.5	(-0.2	-	-	0.5	1.0	-	0.5	-	-	2.3
311 - B30	2.0	-	1.0	(-0.1	0.7	1.5	-	-	1.0	0.3	1.5	2.2	10.1
311 - B31	-	0.5	-	1.3	1.0	0.2	-	-	1.0	0.3	0.5	-	4.8
311 - B32	-	-	0.5	1.0	-	0.3	-	-	-	-	-	-	1.8
311 - B33, 34	0.2	-	-	0.3	0.4	-	1.0	0.1	-	-	-	-	2.0
311 - B98, 99	0.3	1.0	-	-	-	-	-	-	-	-	-	-	1.3
Subtotal	311	2.5	1.5	2.0	2.0	2.4	-	0.5	4.0	0.7	2.5	2.2	22.3

III. EFFICIENT PRODUCTION OF FARM AND FOREST PRODUCTS (CONT'D)

RPA #	ARIZ.	CALIF.	COLO.	HAW.	IDAHO	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.	TOTAL
312 - B29	-	0.2	0.3	0.3	-	0.5	-	0.3	0.5	-	0.3	-	2.1
312 - B30	0.4	-	1.5	0.2	0.3	0.3	-	1.0	-	-	0.5	0.8	5.0
312 - B31	0.6	-	-	0.6	0.3	-	-	-	0.2	1.0	-	-	2.7
312 - B32	-	-	-	0.2	-	-	-	-	-	-	-	0.2	-
312 - B33, 34	-	0.5	-	(-0.1)	-	0.2	-	-	0.1	-	0.2	0.9	-
312 - B98, 99	0.3	2.0	-	-	-	-	-	-	-	-	-	-	2.3
Subtotal 312	1.3	2.5	1.7	1.2	0.9	0.5	-	1.5	-	0.6	2.0	1.0	13.2
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<i>1/3 - 313 - Agr. Engr</i>													
B29	0.4	0.5	-	0.5	0.5	-	-	-	-	-	-	-	1.9
B30	0.3	0.5	-	0.5	-	-	-	-	-	-	-	-	1.3
B31	-	0.5	-	0.5	-	-	-	-	-	-	-	-	1.0
B32	0.4	0.5	-	-	0.2	-	-	-	-	-	-	-	1.1
B33, 34	-	0.5	-	-	-	-	-	-	-	-	-	-	0.5
B98, 99	-	0.5	-	-	-	-	-	-	-	-	1.0	-	1.5
<i>1/3 Subtotal, 313 AE</i>	1.1	3.0	-	1.5	0.7	-	-	1.0	-	1.0	-	-	7.3
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<i>1/2 - 313 An. Prod:</i>													
B29	-	-	-	-	0.1	-	-	0.3	-	-	0.3	-	0.4
B30	0.4	-	0.5	0.4	-	0.8	-	-	0.3	0.5	0.5	0.5	3.4
B31	0.2	-	-	0.2	-	-	-	-	0.2	0.5	-	-	1.1
B32	0.5	-	-	0.1	-	0.3	-	-	-	-	-	-	0.9
B33, 34	-	-	-	-	-	0.1	-	-	0.1	-	0.4	0.6	-
B98, 99	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>1/2 Subtotal, 313 AP</i>	1.1	-	0.5	0.7	-	1.3	-	-	0.9	1.0	0.9	1.0	6.4

III. EFFICIENT PRODUCTION OF FARM AND FOREST PRODUCTS (CONT'D)

RPA #	ARIZ.	CALIF.	COLO.	HAW.	IDAHO	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.	TOTAL
1/6 - 313 - Soc. Sci.	-	3.0	-	0.5	0.4	0.3	-	-	-	-	-	-	4.2
3/3 Subtotal	313	2.2	6.0	0.5	2.7	1.1	1.6	-	-	0.9	2.0	0.9	17.9
314	-	1.0	-	0.5	-	-	-	1.0	-	-	-	-	2.5
315	-	1.0	-	0.7	0.3	-	-	-	-	1.0	0.7	3.7	
316	0.2	2.0	0.2	0.5	0.5	-	-	1.0	2.0	0.5	0.5	0.8	8.2
Total, Goal III	26.1	59.0	12.7	18.1	10.7	9.7	3.0	8.7	23.0	11.3	26.5	11.2	220.0

IV. PRODUCT DEVELOPMENT AND QUALITY

RPA #	ARIZ.	CALIF.	COLO.	HAW.	IDAHO MONT.	NEV.	N. MEX.	ORE.	UTAH	WASH.	WYO.	TOTAL
401	- 10.0	0.5	- 0.5	- 0.5	- -	- -	- 8.0	- -	- -	- -	-	19.0
402 - B9	0.5	2.0	- 1.3	- -	- -	- -	- -	- -	- -	-	-	3.8
B10	0.2	2.0	- -	- -	- -	- -	1.0	0.3	- -	-	-	3.5
B11, 12	0.3	1.0	1.0	1.5	- -	- -	1.0	0.2	- -	-	-	5.0
B28, 97	0.2	1.0	- -	- -	- -	- -	-	-	1.0	-	-	2.2
Subtotal 402	1.2	6.0	1.0	2.8	- -	- -	2.0	0.5	1.0	-	-	14.5
403 - B9, 10	0.5	4.0	- 3.5	- -	- -	- -	-	2.0	1.0	1.0	-	12.0
B11, 12	- 2.0	-	1.3	- -	- -	- -	1.0	0.3	0.5	-	-	5.1
B28, 38, 97, 99	- -	- -	(-0.1	- -	- -	- -	-	-	-	-	-	(-0.1
Subtotal 403	0.5	6.0	- 4.7	- -	- -	- -	3.0	1.3	1.5	-	-	17.0
404 - B9, 10	- 3.0	0.2	(-1.1	- -	- -	- -	-	2.0	1.0	1.0	-	- 6.1
B11, 12	- 1.0	0.4	0.2	4.0	- -	- -	-	0.2	1.5	-	-	7.3
B28, 38, 97, 99	- -	(-0.1	- -	- -	- -	- -	-	-	-	-	-	-0.1
Subtotal 404	- 4.0	0.6	(-1.0	4.0	- -	- -	-	2.0	1.2	2.5	-	13.3

IV. PRODUCT DEVELOPMENT AND QUALITY

RPA #	ARIZ.	CALIF.	COLO.	HAW.	IDAHO	MONT.	NEV.	N. MEX.	ORE.	UTAH	WASH.	WYO.	TOTAL
411	-	-	-	-	-	-	-	-	-	-	-	-	-
412 - B29	0.1	1.0	-	-	0.5	-	-	-	-	-	-	-	1.6
B30	-	1.0	0.6	-	0.2	0.6	-	-	1.0	0.1	-	-	3.5
B31	-	2.0	-	-	0.5	0.2	-	-	1.0	-	-	-	3.7
B32	-	-	-	-	0.3	0.1	-	-	-	-	-	-	0.4
B33, 34	-	1.0	-	-	0.1	-	-	-	-	-	-	-	1.1
Subtotal 412	0.1	5.0	0.6	-	1.5	1.0	-	-	2.0	0.1	-	-	10.3
Total, Goal IV	7.0	40.0	5.3	6.4	9.3	4.1	1.8	1.5	22.0	6.8	7.0	4.6	115.8

V. EFFICIENCY IN THE MARKETING SYSTEM

RPA #	ARIZ.	CALIF.	COLO.	HAW.	IDAHO	MONT.	NEV.	N. MEX.	ORE.	UTAH	WASH.	WYO.	TOTAL
501 - B6	-	-	0.2	-	-	-	-	-	-	-	-	-	1.2
B9, 10	-	-	-	0.4	-	-	-	-	-	-	-	-	0.4
B11, 12	-	-	-	0.1	-	-	-	-	-	-	-	-	0.1
Subtotal 501	-	-	0.2	0.5	-	-	-	-	1.0	-	-	-	1.7
502	-	3.0	-	-	-	-	-	-	-	1.0	-	0.5	0.4
503 - B9, 10	0.3	5.0	0.2	0.4	1.0	-	-	0.5	-	-	0.4	-	7.8
B11, 12	0.2	5.0	0.2	0.4	-	-	-	-	-	-	0.4	-	6.2
Subtotal 503	0.5	10.0	0.4	0.8	1.0	-	-	0.5	-	-	0.8	-	14.0
504 - B14, 15	-	-	-	0.1	-	-	-	-	-	-	-	-	0.1
B17, 18	-	-	-	-	0.5	0.5	-	-	-	-	0.3	-	1.3
B19, 20	-	-	-	-	0.2	-	-	-	-	-	-	-	0.2
B21, 22	-	2.0	-	-	-	-	-	-	-	-	-	-	2.0
B27	-	-	-	0.2	0.3	-	-	-	-	-	-	-	0.5
B28	-	-	-	(-0.2	-	-	-	-	-	-	-	-	(-0.2
Subtotal 504	-	2.0	-	0.1	1.0	0.5	-	-	-	-	0.3	-	3.9

V. EFFICIENCY IN THE MARKETING SYSTEM

RPA #	ARIZ.	CALIF.	COLO.	HAW.	IDAHo	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.	TOTAL
505 - B29	-	-	0.1	-	-	-	-	-	-	0.2	-	-0.2	0.1
B30	0.3	1.0	0.3	0.2	0.5	0.2	-	1.0	-	0.3	0.2	-	4.0
B31	0.1	1.0	-	0.2	0.5	-	-	-	-	0.3	0.2	(-0.6	1.7
B32	-	-	0.2	-	-	-	-	-	-	-	-	-	0.2
B33, 34	-	-	-	-	-	-	-	-	-	0.2	-	(-0.4	(-0.2
Subtotal 505	0.4	2.0	0.3	0.7	1.0	0.2	-	1.0	-	1.0	0.4	-1.2	5.8
506 - B6	-	2.0	-	-	-	-	-	-	-	-	0.5	-	2.5
B9 - 38	0.3	5.0	-	0.5	0.5	0.2	-	-	-	0.5	0.5	-	7.5
Subtotal 506	0.3	7.0	-	0.5	0.5	0.2	-	-	-	0.5	1.0	-	10.0
507	-	4.0	-	0.4	-	0.2	2.0	-	1.0	0.5	0.5	-	8.6
508	-	3.0	-	0.4	0.5	0.3	-	-	1.0	-	-	-	5.2
509	-	3.0	-	0.8	0.5	0.1	-	-	-	0.5	-	4.9	
510	0.1	1.0	-	0.5	-	0.3	-	-	1.0	-	0.2	-	3.1
Total, Goal V	1.3	35.0	0.9	4.7	4.5	1.8	2.0	1.5	5.0	2.0	4.2	(-0.8	62.1

VI. EXPAND EXPORT MARKETS AND
ASSIST DEVELOPING COUNTRIES

RPA #	ARIZ.	CALIF.	COLO.	HAW.	IDAHO	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.	TOTAL
601	-	5.0	-	0.7	-	0.2	-	-	-	-	1.0	1.0	7.9
602	-	-	-	0.3	-	-	-	-	-	-	-	-	0.3
603(a)	-	5.0	-	-	-	-	-	-	-	-	-	-	5.0
603(b)	(4.0)	(400.0)	-	(6.0)	-	-	-	-	-	(5.0)	(0.5)	-	
Total, Goal VI	-	10.0	-	1.0	-	0.2	-	-	-	-	1.0	1.0	13.2

603(a) Technical assistance with hard money.

603(b) Technical assistance with new funds. (A number of states would add SMYs in this area if new sources of funds were to become available for this purpose) These SMYs are not included in the total for Goal VI.

VII. CONSUMER HEALTH, NUTRITION AND WELL-BEING

RPA #	ARIZ.	CALIF.	COLO.	HAW.	IDAHO	MONT.	NEV.	N. MEX.	ORE.	UTAH	WASH.	WYO.	TOTAL
701	-	35.0	0.5	(-p) 0.8	2.3	0.4	-	-	-	1.0	1.5	-	39.9
702	0.8	-	0.2	1.3	0.7	0.4	-	-	3.0	-	0.5	-	6.9
703	-	2.0	0.2	0.6	0.2	0.4	0.2	1.0	-	0.2	0.5	(p) 2	5.1
704	-	-	0.1	0.4	0.3	-	-	-	2.0	-	0.5	-	3.3
705	0.2	-	0.5	1.3	-	-	0.5	-	-	-	-	-	2.5
706	0.6	3.0	0.5	0.6	0.2	-	-	-	-	-	-	-	4.9
707	-	3.0	0.4	(-p) 0.2	0.8	-	-	-	-	-	-	-	4.0
708	1.0	18.0	1.1	1.4	0.5	0.4	0.5	-	3.0	1.0	1.5	0.6	29.5
Total, Goal VII	2.6	61.0	3.5	4.6	5.0	1.6	1.2	1.0	8.0	2.2	4.5	0.4	95.6

VIII. RAISE LEVEL OF LIVING OF RURAL PEOPLE

RPA #	ARIZ.	CALIF.	COLO.	HAW.	IDAHO	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.	TOTAL
801	0.5	-	0.5	0.4	-	-	-	1.0	-	-	-	-	2.4
802	0.4	-	0.5	0.7	-	-	0.3	1.0	-	0.3	0.5	-	3.7
803	-	-	0.3	0.6	-	-	1.0	-	-	0.5	-	-	2.4
804	-	-	0.2	0.5	0.5	0.4	0.3	-	2.0	1.0	1.0	-	5.9
805	-	5.0	-	0.6	-	1.0	-	-	-	-	-	-	6.6
806	0.5	5.0	0.5	0.6	0.4	0.2	-	-	-	-	0.5	-	7.7
807	0.1	5.0	0.8	0.4	0.5	1.0	-	-	0.5	1.0	0.6	9.9	
808	0.1	-	0.2	0.2	-	0.2	-	-	-	0.3	-	1.0	
Total, Goal VIII	1.6	15.0	2.7	3.7	2.0	2.8	0.6	2.0	3.0	1.8	3.8	0.6	39.6

RESEARCH PROBLEM AREAS (RPA)

- | | |
|--|---|
| 101 Appraisal of soil resources | 407 New and improved feed, textile, and industrial products from field crops |
| 102 Soil structure; and soil, plant, water, nutrient relationships | 408 Quality maintenance in marketing field crops |
| 103 Management of salinity and saline soils | 409 Production of animals and animal products with improved consumer acceptability |
| 104 Alternative uses of land | 410 New and improved meat, milk and egg products |
| 105 Conservation and efficient use of water for agriculture | 411 New and improved products from wool, hides, skins, and animal fats |
| 106 Efficient drainage and irrigation systems and facilities | 412 Quality maintenance in marketing animal products |
| 107 Technology of watershed conservation and management | 501 Improvement of grades and standards |
| 108 Economic and legal problems in management of water and watersheds | 502 Development of markets and more efficient marketing of timber products |
| 109 Weather effects, probabilities, and agricultural decision making | 503 Physical and economic efficiency in marketing fruits and vegetables |
| 110 Appraisal of forest and range resources | 504 Physical and economic efficiency in marketing field crops |
| 111 Timber management | 505 Physical and economic efficiency in marketing livestock |
| 112 Range management | 506 Supply, demand, and price analysis |
| 113 Remote sensing | 507 Competitive interrelationships in agriculture |
| 201 Control of forest insects | 508 Development of domestic markets for farm products |
| 202 Control of diseases of forest trees | 509 Marketing firm and system efficiency |
| 203 Prevention and control of forest fires | 510 Farmer bargaining power |
| 204 Control of insect pests of fruit and vegetable crops | 511 Improvement of agricultural statistics |
| 205 Control of diseases of fruit and vegetable crops | 512 Improvement of grades and standards of forest products |
| 206 Control of weeds and other hazards to fruit and vegetable crops | 513 Supply, demand and price analysis--forest products |
| 207 Control of insect pests of field crops | 601 Expansion of foreign markets for U. S. farm products |
| 208 Control of diseases of field crops | 602 Evaluation of food aid |
| 209 Control of weeds and other hazards to field crops | 603 Technical assistance to developing countries |
| 210 Control of insect pests of livestock and poultry | 701 Insure food products free from toxic residues from agricultural sources |
| 211 Control of diseases of livestock and poultry | 702 Protect food supplies from harmful micro-organisms and naturally occurring toxins |
| 212 Control of internal parasites of livestock and poultry | 703 Food choices, habits, and consumption |
| 213 Protect livestock and poultry from toxic chemicals, poisonous plants and other hazards | 704 Home and commercial preparation of food |
| 214 Protection of plants and animals from harmful effects of air pollution | 705 Selection and care of clothing and household textiles |
| 301 Improvement of biological efficiency of trees | 706 Control of insect pests of man and his belongings |
| 302 New and improved forest engineering systems | 707 Prevent transmission of animal diseases and parasites to people |
| 303 Economics of timber production | 708 Human nutritional well-being |
| 304 Improvement of biological efficiency of fruit and vegetable crops | 709 Reduction of health hazards involved in the use of nonfood farm products |
| 305 Mechanization of fruit and vegetable crop production | 801 Housing needs of rural families |
| 306 Systems analysis in production of fruits and vegetables | 802 Family decision making and financial management |
| 307 Improvement of biological efficiency of field crops | 803 Causes and remedies of poverty among rural people |
| 308 Mechanization of production of field crops | 804 Improvement of economic potential of rural youth and adults |
| 309 Systems analysis in production of field crops | 805 Communication processes in rural life |
| 310 Reproductive performance of livestock and poultry | 806 Individual and family adjustment to change |
| 311 Feed efficiency in production of meat, milk, and eggs | 807 Structural changes in agriculture |
| 312 Environmental stress in production of livestock and poultry | 808 Government programs to balance farm output and market demand |
| 313 Improved livestock and poultry production management systems | 901 Alleviate soil, water, and air pollution |
| 314 Bees and other pollinating insects | 902 Forestland recreation |
| 315 Improvement of general purpose farm supplies, equipment, and buildings | 903 Multiple-use potential of forestland and evaluation of forestry programs |
| 316 Farm adjustment and management | 904 Wildlife and fish biology and habitat |
| 401 New and improved forest products | 905 Trees to enhance rural and urban environment |
| 402 Production of fruit and vegetable crops with improved consumer acceptability | 906 Culture and protection of ornamentals and turf |
| 403 New and improved fruit and vegetable products | 907 Improved income opportunities in rural communities |
| 404 Quality maintenance in marketing fruits and vegetables | 908 Improvement of rural community institutions and services |
| 405 Production of field crops with improved consumer acceptability | |
| 406 New and improved food products from field crops | |

ASSIGNMENT OF RESEARCH PROBLEM AREAS TO RESEARCH TASK FORCES AND TO PLANNING, PROGRAMMING, BUDGETING (PPB) PROGRAM ELEMENTS, SUBCATEGORIES, AND CATEGORIES

RESEARCH TASK FORCES

Soil and land use-->101, 102, 103, 104
 Water and watersheds-->105, 106
 Weather modification-->107, 108
 Remote sensing-->109, 110, 111
 Farm labor and mechanisation-->112, 113
 Quality of environment-->201, 202
 >203, 204, 205, 206
 >207, 208, 209
 Fruit-->210, 211, 212, 213
 Vegetables and potatoes-->214
 >301, 302, 303
 >304
 Forage, range and pasture-->305, 306
 >307, 308, 309
 Corn and grain sorghum-->310, 311, 312, 313
 >314
 Rice-->315, 316
 Wheat and other small grains-->401
 >402
 >403
 Cotton-->404
 >405
 Tobacco-->406
 >407
 Sugar crops-->408
 >409
 >410
 >411
 Soybeans-->412
 Peanuts-->413
 Other oilseed, miscellaneous and new crops-->501
 >502
 >503
 Poultry-->504
 >505
 Beef-->506
 >507
 Dairy-->508, 509
 >510
 Sheep-->511
 >512, 513
 >601
 >602
 Forestry-->603
 Insects pests of man and bees and other pollinating insects-->701, 702
 >703, 704
 >705
 Market structure, farm management and improvement of purchased inputs-->706
 >707
 >708
 Foreign aid and market development-->709
 Farm prices and income analysis-->801
 >802
 Food safety-->803, 804, 805, 806
 >807, 808
 >901
 >902
 >903
 >904
 Rural development and quality of family living-->905, 906
 Natural beauty and ornamental horticulture-->907, 908

PPB - PLANNING, PROGRAMMING, BUDGETING

Program Elements	Subcategories	Categories
603 Research to evaluate and improve farm income	A FARM INCOME	I INCOME and ABUNDANCE
605 Plant disease and pest research	B AGRICULTURAL PRODUCTION CAPACITY	
609 Animal disease and pest research		
612 Production efficiency research		
621 Remote sensing research		
625 Soil and water conservation and development research		
635 Marketing efficiency research	C AGRICULTURAL MARKETING AND DISTRIBUTION SYSTEM	
636 Research to improve Agricultural statistics		
651 Research on improved non-food uses for farm products		
655 Research on food aid programs	A FOOD FOR FREEDOM	II GROWING NATIONS NEW MARKETS
656 Foreign market development research	B EXPORT MARKET DEVELOPMENT	
651 Foreign agricultural development research	C AGRICULTURAL DEVELOPMENT	
666 Food and nutrition research	A DIETS AND NUTRITION	III DIMENSIONS FOR LIVING
668 Human health and safety research	B HEALTH	
650 Research to improve levels of living	D SERVICES FOR LIVING	
652 Production research to improve consumer acceptability of farm products		
654 Research to develop improved food products		
657 Research to maintain and measure quality during marketing		
667 Community improvement research	A COMMUNITY DEVELOPMENT SERVICES	IV COMMUNITIES FOR TOMORROW
669 Housing research	B HOUSING	
673 Pollution research	C RESOURCE PROTECTION and ENVIRONMENT IMPROVEMENT	
687 Watershed development research		
689 Fire prevention and suppression research		
671 Research on natural beauty	E RECREATION WILDLIFE and NATURAL BEAUTY	
698 Outdoor recreation research		
699 Wildlife and fish research		
691 Forest insect & disease research	F RESOURCES FOR TIMBER	
693 Timber production research		
695 Forest products marketing research		
697 Forest products utilization research		