MINUTES OF THE MEETING
JOINT SUBCOMMITTEE
ON EDUCATION APPROPRIATIONS
MONTANA STATE
HOUSE OF REPRESENTATIVES

January 30, 1985

Tape 33 Side A

The meeting of the Education Subcommittee was called to order by Chairman Gene Donaldson at 8:05 A.M. on Wednesday, January 30, 1985, in Room 104 of the State Capitol.

All members were present.

The purpose of the meeting was EXECUTIVE ACTION on the Budget of the Agricultural Experiment Station.

Bill Sykes (33:A:045) of the Legislative Fiscal Analyst's office gave a review of the Experiment Station's budget. He said he met with personnel from the agency and worked out details on issues in the budget. He said he made a mistake in the calculation of health benefits. LFA current level for personal services should be $6,305,649 for each year. Mr. Sykes said that if the faculty and graduate research assistants are excluded from 4 percent vacancy savings, an additional $141,022 would be added to each fiscal year, bringing the LFA personal services total to $6,446,671 for each year.

At this point, Chairman Donaldson asked Mr. Sykes if the budgets of the Bureau of Mines and other agencies were handled in this same way as far as faculty vacancy savings are concerned. Mr. Sykes said the faculties of the other agencies which had appeared before the Subcommittee were excluded from vacancy savings.

Mr. Sykes said that in the personal services area the issue which still should be considered is the adding back of the dairy FTE at $62,353 for each year. Also, the Subcommittee needs to consider the issue of higher salaries for part-time employees. He said that on the earmarked revenue, the Agricultural Experiment Station will not generate the amounts of revenue projected by the LFA. He said the projected amount should be $520,000 for each fiscal year. The General Fund total would change as a result of adding in the changes made in the personal services area, and subtracting the lower amounts projected for earmarked revenue. The new General Fund totals are $5,720,052 for FY 86 and $5,681,650 for FY 87, Mr. Sykes said.

A general discussion and question and answer session followed between Mr. Sykes, Sib Clack, Office of the Budget and Program

Planning, Dr. Welsh, Director, Agricultural Experiment Station, Dr. Tietz, President, Montana State University, and members of the Subcommittee (33:A:145).

Regarding the equipment budget, Chairman Donaldson said that when large equipment items are requested, it becomes necessary to approach them on an item-by-item basis. He said the best possible advice available relative to equipment needs in a station comes from members of the advisory committees.

Mr. Sykes distributed a revised list of equipment from the Experiment Station (EXHIBIT 1). Mr. Sykes explained that Dr. Welsh re-sorted the list to show items that are to be replaced, requested new items and upgrades.

Discussion of the personal services area of the budget followed (33:A:308).

Representative Moore (33:A:384) moved adoption of LFA current level personal services at $6,446,671 for each year. The motion passed unanimously.

A discussion of the dairy research project followed between the Subcommittee members, Dr. Welsh and Dr. Tietz (33:A:441).

Dr. Welsh explained that the dairy herd and its maintenance have been discontinued. However, the research project work in the area of animal nutrition still deals with questions that apply to the dairy industry. Therefore, even though the dairy itself is closed, the people will be reassigned to other segments of animal nutrition work.

Dr. Tietz explained that only those FTE dependent upon the income from the dairy have been eliminated; the positions that were funded by the state have been transferred over to the new nutrition program.

Senator Hammond asked what adjustments caused the discontinuance of the off-station plots. Dr. Welsh said the issue that resulted in the reduction of off-station testing is associated with the vacancy rate problem. Senator Hammond asked if, with the adjustment of the vacancy rate, off-station testing would resume. Dr. Welsh said if the personal services budget that was just approved holds, then the agency will be able to resume the off-station work. Senator Hammond said this is probably the most effective work being done in agriculture in northern and northeastern Montana.

Senator Haffey (33:A:561) made a motion that $62,353 for dairy research be approved for each year, and that it be included in current level, and added to the $6,446,671 for personal services. There was a roll call vote, and the motion passed 6 - 1 with Representative Peck dissenting.

Tape 33 Side B

A discussion of part-time employees' salaries followed. Jack Noble, Office of the Commissioner of Higher Education, said that when the operating budget instructions for the University System is released, in order to have the FTE compiled for part-time people in a uniform rate, a value is assigned. In 1984 the value for non-physical plant and part-time employees was arrived at by dividing the budget category by $15,400. This is done for all institutions so that there is a uniform FTE calculation, Mr. Noble said.

Further discussion of the issue followed between Mr. Noble, Ms. Sutton, Fiscal Officer, Agricultural Experiment Station, and Mr. Sykes (33:B:090).

Chairman Donaldson suggested that the issue be passed over until the next day, pending clarification.

Senator Haffey (33:B:125) moved acceptance of the inflation figures for operating expenses in the amounts of $44,950 for FY 86 and $53,217 for FY 87. The motion passed unanimously.

Discussion followed between the Subcommittee members, Dr. Welsh, Dr. Tietz, Ms. Sutton and Mr. Sykes regarding supplies and materials expenses (33:B:220).

Representative Moore suggested that on this issue, the Experiment Station and LFA's office start at zero and clarify exactly what funding is needed, and that any decision be delayed until the next day. Chairman Donaldson concurred with the suggestion.

Representative Moore (33:B:368) moved adoption of LFA current level for equipment in the amounts of $100,516 for FY 86 and $107,110 for FY 87. The motion passed unanimously.

A discussion of equipment followed between Dr. Welsh, Larry Johnson, a member of the Advisory Council, and the Subcommittee members (33:B:400).

Tape 34 Side A

Senator Haffey asked Chairman Donaldson if he wanted to go through the revised equipment list item-by-item. Chairman Donaldson said he didn't thik that was necessary and said that the Advisory Council had been very careful when putting the list together. Larry Johnson said the equipment list contains all top priority items, no "pork barrel."

Senator Haffey said that either the entire amount of equipment should be included in the modified column, or some part of the $592,227 and $519,372 should be identified as current level. Chairman Donaldson said the problem with driving off of current level is that if the base is in error, which could possibly be the case, then the problem gets worse as you go along.

Senator Haffey said a different definition of current level is: "necessary to serve the needs of the particular agency and to fulfill its defined goals." Representative Hand noted that his concern is that if the necessary equipment is not funded, but the people are there, they will have nothing to do.

Dr. Welsh said it is not correct to say that there has been no concern about capital equipment on the part of the Legislature. The problem has been, however, the level that has been made available relative to the level of need.

Representative Moore (34:A:250) moved adoption of the modified equipment request of the Agricultural Experiment Station in the amounts of $592,227 for FY 86 and $519,312 for FY 87.

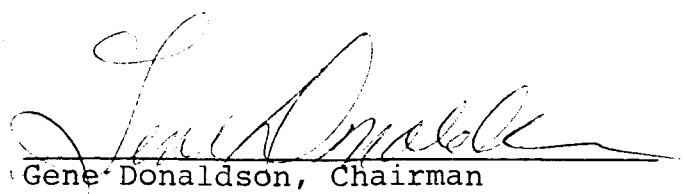
There was discussion of the motion.

Representative Moore said that somewhere within the Experiment Station's budget, money would have to be found to pay for the equipment. Senator Haffey suggested that the motion be amended so that the amounts are subject to submission to the Subcommittee of numbers that reflect consistency within the last four years.

Senator Haffey suggested that the issue be reconsidered at the next meeting of the Subcommittee, and that part of the $592,227 and $519,312 be included in current level, and that the $100,000 be increased accordingly, leaving the remainder as a modified. Representative Peck said that, on that basis, a list of equipment that would substantiate the base is necessary. Senator Hammond said that needs change, and such a list shouldn't be required.

Following further discussion of the equipment issue, Representative Moore withdrew the motion.

The meeting adjourned at 9:55 A.M.



Gene Donaldson, Chairman

DAILY ROLL CALL

EDUCATION SUB COMMITTEE

49th LEGISLATIVE SESSION -- 1985

Date January 30, 1985

NAME	PRESENT	ABSENT	EXCUSED
Rep. Gene Donaldson, Chair	X		
Sen. Judy Jacobson, Vice	X		
Sen. Jack Haffey	X		
Sen. Swede Hammond	X		
Rep. Bill Hand	X		
Rep. Jack Moore	X		
Rep. Ray Peck	X		

VISITORS' REGISTER

Education Sub COMMITTEE

BILL NO. _____ DATE Jan. 30, 1985

SPONSOR _____

NAME (please print)	RESIDENCE	SUPPORT	OPPOSE
Jack Noble	Helena	✓	
Alan Baxter	Bozeman	✓	
Perry Dalton	Bozeman	✓	
Larry Johnson	Kremlin	✓	
James R. Welsh	Bozeman	✓	
Bill Tuttle	Bozeman	✓	
Sam Shepherd	Bozeman	✓	

IF YOU CARE TO WRITE COMMENTS, ASK SECRETARY FOR WITNESS STATEMENT FORM.

PLEASE LEAVE PREPARED STATEMENT WITH SECRETARY.

ROLL CALL VOTE

HOUSE COMMITTEE EDUCATION SUBCOMMITTEE

DATE January 30, 1985 BILL NO. _____ TIME _____

NAME	AYE	NAY
Sen. Jack Haffey	X	
Sen. Swede Hammond	X	
Sen. Judy Jacobson	X	
Rep. Gene Donaldson	X	
Rep. Bill Hand	X	
Rep. Jack Moore	X	
Rep. Ray Peck		X

Joyce Beckes
Secretary Joyce Beckes

Gene Donaldson
Chairman Gene Donaldson

Motion: Senator Haffey moved that $62,353 for dairy research be approved for the Agricultural Experiment Station for each year, and that it be included in current level and added to the $6,446,671 for personal services.

EXHIBIT 1
1-30-85

EXPLANATION OF MAES EQUIPMENT LIST

The MAES equipment list is broken into two lists; one for 1986 and one for 1987 (Headings in green). Each list is subtotaled on Category Of Need (Headings and subtotals in pink). Within each Category Of Need is a subsubtotal on each type of equipment (Headings and subsubtotal in yellow).

There are five types of Categories Of Need(marked in pink):

1. NEW EQUIP. Items that were not on the inventory list before.

2. OBLIGATIONS. Items which have purchase costs obligated in previous years.

3. REPLACEMENTS. Items which are replacements for items on the inventory list.

4. SIDNEY/USDA Items which were jointly used at Eastern in Sidney with USDA and lost when USDA relocated.

5. UPGRADES Items which represent an upgrading of one piece of equipment or a replacement of equipment which had been borrowed.

Each of the above five Categories Of Need are broken down into subsubtotals (marked in yellow) such as Farm Machinery, Tractors, Laboratory & Scientific etc.

Below are described what type of data can be found in each of the columns:

1. Tag. A unique code for each item.

2. Description. Describes the old or new item.

3. Hr/Miles. Lists the number of hours or miles on each item.

4. Cost. Gives the replacement cost of the item.

5. Justification-For-Item. Gives an explanation of the need.

6. Location. Gives the name of the department and its location.

MAES Equipment Needs For Departments in 1986
(sorted by catagory of need and then classification)

Tag	Description	Hr/Miles Yr	Cost	Justification-For-Item	Location
** Catagory Of Need: NEW EQUIP.					
* Equipment : Farm Machinery					
NEW70	BALER	0	3738	ESSENTIAL TO LIVESTOCK RESEARCH.	Animal & Range Bozeman
NEW17	SWATHER	0	10530	ESSENTIAL TO LIVESTOCK RESEARCH.	Animal & Range Bozeman
NEW22	WASHER HIGH PRESSURE	0	2001	ESSENTIAL TO RESEARCH IN VET. SCIENCE.	Veterinary Sci. Bozeman
NEW21	MOWER ROTARY	0	8634	WILL BE USED FOR RESEARCH PLOTS. EXPENSIVE TO MAINTAIN	Plant & Soil Sci. Bozeman
* Subsubtotal *			24903		
* Equipment : Laboratory & Scientific					
NEW44	HPLC EQUIPMENT	0	8100	THIS LAB ANALYTICAL INSTRUMENT IS USED IN BASIC WEEDS AND GENETICS RESEARCH. IT IS SHARED BY SEVERAL FACULTY. THE REST OF THE 22000 WILL BE COVERED SOFT MONEY.	Plant & Soil Sci. Bozeman
NEW45	NIR LAB EQUIPMENT	0	3000	THIS INSTRUMENT IS USED TO DETERMINE SEVERAL ASPECTS OF KERNAL QUALITY IN CEREAL CROPS. $ 9000 WILL BE COVERED BY GRANTS.	Plant & Soil Sci. Bozeman
NEW49	ULTRA/FILTRA EQUIP	0	4000	ULTRA/FILTRA EQUIP MATCHING FUND FOR $13,000 LAB UNIT IN SOIL FERT RESEARCH AT BOZEMAN AND HUNTLEY FOR MEASURING CHEMICL ELEMENTS IN SOILS.	Plant & Soil Sci. Bozeman
NEW30	CHROMATOGRAPH LIQUID	0	24000	THIS ITEM WILL GREATLY ENHANCE THE NUTRITION RESEARCH. CUSTOM ANALYSIS PROVIDED BY THIS MACHINE IS AVAILABLE AT $17 PER SAMPLE MAKING IT COST EFFECTIVE TO BUY.	Animal & Range Bozeman
NEW18	COUNTER SCINTILLATIO	0	35000	THIS ITEM IS ESSENTIAL FOR CHEMICAL ANALYSIS WORK DONE ON ALL AG. RESEARCH PROJECTS.	Chemistry station Bozeman
NEW19	SOLVENT DELIVERY SYS	0	8000	THIS ITEM WILL BE ESSENTIAL FOR DETAILED CHEMICAL ANALYSIS DONE ON AG.. RESEARCH POJECTS.	Chemistry station Bozeman
NEW8	MICROSCOPE WILD DISE	0	4200	WE HAVE NO MICROSCOPE IN THE DEPARTMENT AVAILABLE TO CONDUCT AND PHOTOGRAH RESEARCH WITH VECTOR-PATHOGEN RELATIONSHIPS.	Entomology Bozeman
NEW32	PHOTOMICROSCOPE	0	9000	THIS MICROSCOPE WILL BE USED BY MANY SCIENTISTS IN PHYSIOLOGY,NUTRITION,RANGE SCIENCE AND MEATS FOR MICROPHOTOGRAPHIC OBSERVATIONS.	Animal & Range Bozeman
NEW39	HOOD,CLEAN AIR	0	5000	ESSENTIAL FOR BIOENGINEERING TO ENSURE SAFE USE OF BIOHAZARDOUS MATERIALS	Entomology Bozeman
NEW41	HOOD LAMINAR FLOW	0	10000	TO PREVENT CONTAMINATION OF BOTH RESEARCH MATERIALS AND INVESTIGATORS DURING STUDIES ON EMBRYO TRANSPANTS. THESE STUDIES CANNOT BE DONE WITHOUT THIS FACILITY.	Entomology Bozeman
* Subsubtotal *			110300		
* Equipment : Processing Data					
NEW65	AD CONVERSION BOARD	0	4360	THIS BOARD WILL ALLOW EXPERIMENTATION WITH HARDINESS IN CHERRY BUDS AND OTHER PLANTS,AND INSECT HARDINESS FOR SELECTING POTENTIAL BIOLOGICAL WEED CONTROLS	Western at Corvallis
NEW66	IBM PC COMPUTER	0	2700	FOR ANALYSIS OF DATA OF BIOLOGICAL CONTROL OF WEEDS. THIS COMPUTER WILL INCREASE OUR PRODUCTIVITY AND REDUCE THE TIME NEEDED TO PUBLISH RESULTS.	Western at Corvallis

MAES Equipment Needs For Departments in 1986
(sorted by catagory of need and then classification)

Tag	Description	Hr/Miles Yr	Cost	Justification-For-Item	Location
NEW60	IBM PC COMPUTER	0	3500	SUPPLEMENT PRESENT PC XT FOR WORD PREOCESSING AND ADDITIONAL CAPACITY FOR SUMMERIZATION AND RETREIVAL OF DATA.	Northwestern at Creston
NEW48	COMPUTER	0	4000	THE BASIC COMPUTER UNIT ALONG WITH SEVERAL OTHER GROUPS WILL BE USED FOR 1 ACCOUNTING AND 2 SECETARIAL CLERICAL POSTIONS.	Plant & Soil Sci. Bozeman
NEW7	IBM-XT+COMPONENTS	0	6100	THIS COMPUTER IS ESSENTIAL FOR OFFICE OPERATION AND RESEARCH ANALYSIS IN OUR DEPARTMENT.	Entomology Bozeman
NEW33	COMPUTER KPRO MOD10	0	3000	THIS COMPUTER WILL BE USED FOR DATA ANALYSIS, RESEARCH IMPLEMENTATION, CHEMICAL INVENTORY, AND BUDGET ANALYSIS	Microbiology Bozeman
NEW10	COMPUTERS 5 MICROS	0	27000	MICROS PROVIDE CHEAPER, MORE RAPID ACCESS THAN THE MAINFRAME. THESE COMPUTERS ARE ESSENTIAL IN ANALYZING ECONOMICS RELATED DATA.	Ag. Economics Bozeman
NEW34	COMPUTER WORKSTATION	0	3714	THIS WORKSTATION WILL PROVIDE A BETTER INFORMATION SERVICE FOR MONTANA FARMERS. IT WILL PROVIDE A FASTER,TIMELY ANALYSIS WITH A LOWER COST THAN OUR EARLIER PUB	Publications & News Bozeman
* Subsubtotal *			54374		
* Equipment : Vehicles					
NEW40	TRUCK 1/2 T	0	10000	ESSENTIAL TO RESEARCH ON BIOLOGICAL CONTROL OF WEEDS.	Entomology Bozeman
* Subsubtotal *			10000		
** Subtotal **			199577		

MAES Equipment Needs For Departments in 1986
(sorted by catagory of need and then classification)

Tag	Description	Hr/Miles Yr	Cost	Justification-For-Item	Location
** Catagory Of Need: OBLIGATIONS					
* Equipment : Improvements					
OBG46	IRRIGATION SYSTEM	0	6000	THIS IS THE FINAL PHASE OF AN IRRAGATION SYSTEM ON THE AGRONOMY FARM. IT IS USED FOR CONTROLLED RESEARCH PLOTS AND FARM MANAGEMENT OF ROTATION FIELDS.	Plant & Soil Sci. Bozeman
* Subsubtotal *			6000		
** Subtotal **			6000		

MAES Equipment Needs For Departments in 1986
(sorted by catagory of need and then classification)

Tag	Description	Hr/Miles	Yr	Cost	Justification-For-Item	Location
** Catagory Of Need: REPLACEMENT						
* Equipment : Farm Machinery						
048628	DRILL-IHC 15' MDL #1	3200	74	6000	DRILL-IHC 150 MDL#1.NEEDED FOR PRODUCTION OF GRAIN. TOTAL COST IS $12,000. FOUNDATION SEED WILL PAY 50 PERCENT.	Central at Moccasin
042478	WINDROWER-IHC 210	0	74	25000	THE PRESENT WINDROWER WAS SECURED IN '70. LEASED & PURCHASED IN '74. RECENT TECH. IMPROVEMENTS WILL PERMIT MORE VERSTILE USE FOR GRAIN, HAY, PEA, ETC.	Northwestern at Creston
018682	DISC TANDEM 12-FT IH	0	65	5600	DISC,TANDEM 12FT. IHC #37-1965.PARTS NOT AVAILABLE AND MUST BE MADE IN THE SHOP.	Southern at Huntley
020336	LEVELER LAND EVERSMA	0	67	12000	LEVELER LAND, EVERSMAN-1967.PARTS ARE NOT AVAILABLE AND MUST BE MADE IN THE SHOP.	Southern at Huntley
083386	PLOW SPINNER IHC #31	0	80	6300	PLOW, SPINNER IHC #314-AGE UNKNOWN.PARTS ARE NOT AVAILABLE AND MUST BE MADE IN THE SHOP.	Southern at Huntley
011466	FARM WAGON GEAR, 4 1	0	64	4000	GOOSENECK TRAILER. NEEDED TO HAUL EQUIPMENT FROM OUR MAIN FARM TO DRYLND FARM AND SCD FARM. EARC DOES NOT HAVE A TRAILER.	Eastern at Sidney
* Subsubtotal *				58900		
* Equipment : Laboratory & Scientific						
RPL50	FARINOGRAPH EQUIP	0		5000	REPLACE UNIT IN CEREAL TESTING LAB/25 YRS OLD. USED TO EVALUATE FLOUR SAMPLES.	Plant & Soil Sci. Bozeman
RPLAAH	ANALYZER CHEMICAL	0		10000	THE CHEMISTRY ANALYSER WAS PURCHASED SEVEN YEARS AGO. IT IS FREQUENTLY IN A STATE OF DISREPEAIR. PARTS ARE IMPOSSIBLE TO OBTAIN.	Veterinary Sci. Bozeman
RPLAAK	DRYER CRITICAL PT.	0		5000	THE CRITICAL POINT DRYER IS DEFECTIVE AND PRODUCES SPECIMENS WITH EXTENSIVE AMOUNTS OF ARTIFACTS.THESE INTERFEREWITH EVALUATION OF SCOPE PLATES.	Veterinary Sci. Bozeman
000056	STILL GLASS BARNSTEA	0	71	2500	DISTILLER IS NEEDED EVERY DAY FOR ALL PHASES OF RESEARCH.	Home Economics Bozeman
002473	MICROSCOPE LEITZ WET	0	60	6000	THE PRESENT MICROSCOPE IS 25 YEARS OLD AND IS FREQUENTLY INOPERABLE. THIS UNIT IS ESENTIAL TO THE OPERATION OF THE DISEASE RESEARCH PROGRAM.	Veterinary Sci. Bozeman
022959	CENTRIFUGE	0		10000	THIS CERTRIFUGR IS 24 YEARS OLD AND HAS CORROSION AND DETERIORATION IN THE ELECTRONICS.THIS CENTRIFUGE IS NEEDED TO CONDUCT RESRCH STUDIES IN VIROLOGY.	Veterinary Sci. Bozeman
082496	SPUTTER COATER	0		6000	THE SPUTTER COATER IN THE ELECTRON MICROSCOPE LAB COATS SPECIMENS WITH UNEVEN THICKNESS WHICH INTERFERES WITH VISUALIZATION OF MARKERS UNDER THE SCOPE.	Veterinary Sci. Bozeman
* Subsubtotal *				44500		
* Equipment : Office						
082219	COPIER SAVIN MODEL 7	0	79	10000	OUR COPIER IS REQUIRING MORE IN MAINTENANCE COSTS THAN IT IS WORTH. WITH THE AMOUNT OF RESRCH. REPORT PRODUCED IN OUR DEPT,WE CAN'T AFFORD TO DO WITHOUT ONE.	Plant Pathology Bozeman

MAES Equipment Needs For Departments in 1986
(sorted by catagory of need and then classification)

Tag	Description	Hr/Miles	Yr	Cost	Justification-For-Item	Location
* Subsubtotal *				10000		
* Equipment : Shop						
005435	LATHE CLAUSING PED	0	55	11000	THE LATHE DOES NOT PRODUCE A FINISHED PRODUCT WITH THE NECESSARY PRECISION DUE TO ITS AGE AND WORN CONDITION. IT IS USED BY MANY DIFFERENT PROJECTS.	Ag. Engin. Bozeman
* Subsubtotal *				11000		
* Equipment : Tractors						
056961	TRACTOR JD 2020	1800	75	5000	THIS TRACTOR IS ESSENTIAL FOR RESEARCH. THE OLD TRACTOR IS UNRELIABLE AND EXPENSIVE TO REPAIR	Western at Corvallis
082384	TRACTOR IHC574 DIESE	2554	80	20000	USED FOR GENERAL FARM, LIVESTOCK FEEDING DAILY & SOILS & AGRONOMY RESEARCH.	Nothern at Havre
* Subsubtotal *				25000		
* Equipment : Vehicles						
048048	CHEVROLET SEDAN	93000	73	10000	CONSIDERABLE RUSTING IN THE BODY AND CONTINUAL ENGINE PROBLEMS. MAKES ABOUT 13 MILES PER GALLON ON THE ROAD.	Northwestern at Creston
038806	AUTO FORD VAN 1970	40000	70	13000	HALF TON VAN. NEEDED FOR TRANSPORTATION OF THE SUMMER WORK CREW TO THE DRLND RESRCH FARM. CURRENT VAN IS 14 YEARS OLD AND NEEDS REPLACEMENT	Eastern at Sidney
070068	AUTO JEEP 1678 CHERO	59923	78	10000	ADMINISTRATION USE & STAFF. HIGH USE.	Nothern at Havre
051222	AUTO PLY FURY 1976 4	88671	76	12000	PLYMOUTH FURY SEDAN. SEDAN SHOULD BE REPLACED WITH A SURBURBAN TYPE VEHICLE.	Southern at Huntley
067636	AUTO JEEP WAGON 1967	91765	67	10000	TRUCK REPAIRS ARE COSTING ALMOST AS MUCH AS REPLACEMENT	Animal & Range Bozeman
052417	AUTO HORNET AM 76	81507	82	10000	THE PROGRAM THAT THIS CAR SERVES HAS TEST PLOTS ALL OVER MT. THE PRESENT VEHICL IS NOT ROAD-WORTHY ENOUGH TO VISIT THESE TEST SITES.	Plant Pathology Bozeman
024988	AUTO DODGE VAN 1969	80000	69	10000	VAN IS TOTALLY WORN OUT. A VEHICLE IS NEEDED TO TAKE THE CREW TO AND FROM THE AGRON FARM AND FARM WORK.	Plant & Soil Sci. Bozeman
040467	TRLR FB 9x17 REID	0	72	4500	TRAILER-FB 9x17 REID-1972. WAS NOT DESIGNED FOR THE OVER THE ROAD USE. WE BLOW OUT AT LEAST 6-8 TIRES A YEAR.	Southern at Huntley
054566	TRUCK IHC PANEL 1965	52191	74	15000	1-TON DUAL CAB PICKUP. NEEDED FOR TRANSPORTATION AND TO HAUL TRAILER WITH SPECIAL EQUIPMENT.	Eastern at Sidney
REPAAL	TRUCK GMC 4x4 78	92000	78	10000	THE PICKUP IS USED IN BIOLOGICAL WEED CONTROL AND IS DRIVEN ALL OVER MONTANA. THE PICKUP IS UNRELIABLE AND CANNOT BE ECOCONOMICALLY REPAIRED.	Western at Corvallis
048046	TRUCK DODGE 71 3/4	35857	71	10000	HE 71 DODGE PICKUP IS HEAVY DUTY USED FOR FLD WORK AND SHOULD BE REPLACED WITH A SIMILAR TYPE FOR FARM OPERATION HAS 50000MLS. SHOULD BE RENEWED FOR SAFETY.	Northwestern at Creston
056321	TRUCK DODGE 5 17	25000	75	12000	VEHICLE IS USED FOR SOIL SAMPLING AT OFF-STATION SITES. HAS 25000 MILES OF USE AND IS SHOWING SIGNS OF MAJOR REPAIR IN NEAR FUTURE.	Western Triangle at Conrad
061765	TRUCK DODGE 53 3/4	108375	75	10000	TRUCK REPAIRS ARE COSTING ALMOST AS MUCH AS REPLACEMENT.	Animal & Range Bozeman
072317	TRUCK FORD 68 1-2	114205	68	14000	TRUCK REPAIRS ARE COSTING ALMOST AS MUCH AS REPLACEMENT.	Animal & Range Bozeman

MAES Equipment Needs For Departments in 1986
(sorted by catagory of need and then classification)

Tag	Description	Hr/Miles	Yr	Cost	Justification-For-Item	Location
072582	TRUCK, DODGE '70 1/2	152107	70	10000	TRUCK REPAIRS ARE COSTING ALMOST AS MUCH AS REPLACEMENT.	Animal & Range Bozeman
* Subsubtotal *				160500		
** Subtotal **				309900		

MAES Equipment Needs For Departments in 1986
(sorted by catagory of need and then classification)

Tag	Description	Hr/Miles Yr	Cost	Justification-For-Item	Location
** Catagory Of Need: UPGRADES					
* Equipment : Farm Machinery					
UPG42	ROLLER HARROW 12FT	0	7200	TO REPLACE BORROWED EQUIPMENT NOT AVAILABLE WHEN NEEDED FOR RESEARCH ON FARM OPERATIONS.	Southern at Huntley
UPG3	TUB GRINDER	0	16000	ESSENTIAL TO THE ANIMAL NUTRITION PROGRAM. IT REPLACES BORROWED EQUIPMENT NOT AVAILABLE WHEN NEEDED FOR RESEARCH.	Southern at Huntley
* Subsubtotal *			23200		
* Equipment : Improvements					
UPG12	IRRIGATION SYSTEM	0	2500	THIS SYSTEM EXPANDS THE REAEARCH ON WATER REQUIREMENTS FOR CROPS. IT WILL ALLOW US TO DETERMINE THE MOST EFFICIENT IRRIGATION LEVEL FOR ECONOMIC CROP PRODUCTION	Ag. Engin. Bozeman
* Subsubtotal *			2500		
* Equipment : Laboratory & Scientific					
UPG61	LAB EQUIPMENT	0	5000	UPGRADING SEED CLEANING AND SEED WEIGHING TECHNOLOGY.	Northwestern at Creston
UPG57	BARLEY PEARLER	0	2050	THE ONE WE USE BELONGS TO ANIMAL AND RANGE SCIENCES DEPT AND IT IS TOO SMALL.	Home Economics Bozeman
UPG47	SEED GERMINATION CHM	0	3000	TO REPLACE AN OLD CHAMBER NO LONGER FUNCTIONAL. USED TO CONDUCT RESEARCH IN SEED DORMANCY AND VIGOR.	Plant & Soil Sci. Bozeman
* Subsubtotal *			10050		
* Equipment : Processing Data					
UPG27	COMPUTER FILE SERVER	0	10000	ALL HARD DISKS SATURATED BY THE INFORMATION WHICH WE ARE REQUIRED TO KEEP AND MAKE AVAILABLE TO GROUPS SUCH AS THE LFA. REPLACES NEED FOR EXTRA MANPOWER.	Dean & director Bozeman
* Subsubtotal *			10000		
* Equipment : Tractors					
UPG43	TRACTOR JD 4040	0	21000	TO UPGRADE TRACTOR CAPACITY TO HANDLE EQUIPMENT.	Southern at Huntley
* Subsubtotal *			21000		
* Equipment : Vehicles					
UPGAAF	TRUCK	87833	10000	VEHICLE HAS 87,833 MILES. ENGINE AND TRANSMISSION IN POOR CONDITION AND UNABLE TO MAKE TRIPS AROUND THE STATE.	Plant & Soil Sci. Bozeman
* Subsubtotal *			10000		
** Subtotal **			76750		
*** Total ***			592227		

MAES Equipment Needs For Departments in 1987
(sorted by catagory of need and then classification)

Tag	Description	Hr/Miles Yr	Cost	Justification-For-Item	Location
** Catagory Of Need: NEW EQUIP.					
* Equipment : Farm Machinery					
NEW6	DRILL NO-TILL	0	3000	MOST OF THE CROPPING SYSTEMS WORK IS OFF STATION. WE HAVE NO OTHER DRILL THAT IS SUITABLE UNDER THE CONDITIONS IMPOSED ON OUR WORK.	Western Triangle at Conrad
* Subsubtotal *			3000		
* Equipment : Laboratory & Scientific					
NEW53	LIQUID SCINTILL COUN	0	10000	MATCHING FUNDS FOR $30,000 LAB UNIT. USED TO MONITOR RADIOACTIVE MATERIAL IN PLANT TISSUE AND SOIL EXTRACTS.	Plant & Soil Sci. Bozeman
NEW55	THERMOGRADIENT GERM.	0	3000	REQUIRED FOR RESEARCH PROGRAMS DEALING WITH SEED GERMINATION AND SEEDLING DEVELOPMENT.	Plant & Soil Sci. Bozeman
NEW56	PYROMETER EQUIPMENT	0	2095	FOR CLIMATOLOGY RESEARCH TO COLLECT SOLAR RADIATION DATA AND DEVELOPMENT MODELS FOR RATE OF PLANT DEVELOPMENT.	Plant & Soil Sci. Bozeman
NEWAAC	ENVIR. CHAMBER	0	6000	PERVICAL 35LLVL ENVIRONMENTAL CHAMBER WITH OPTIONS CDEJ. ALLOWS INSECT AND PLANT DISEASE STUDIES TO BE CONDUCTED UNDER CONTROLLED CONDITIONS.	Eastern at Sidney
NEW31	AUTO-PIPETTING STATI	0	18000	THIS ITEM WILL GREATLY ENHANCE RESEARCH IN PHYSIOLOGY, THE MACHINE WILL GREATLY ENHANCE THE PRODUCTIVE OF THE LAB. IT WILL REMOVE ERROR AND TEDIOUS WORK.	Animal & Range Bozeman
NEW14	WEATHER STATION PORT	0	5000	THE STATION IS NEEDED TO AUOTMATICALLY LOG THE DATE SO IT CAN BE DOWNLOADED FOR COMPUTER ANALYSIS. IT IS NEEDED TO STUDY THE EFFECT OF CLIMATE ON IRRIGATION.	Ag. Engin. Bozeman
NEW20	SPECTROPHOTOMETER UV	0	25000	THIS ITEM WILL IMPROVE OUR ANALYTICAL CAPABILITIES WITH A STATE-OF-THE-ART INSTRUMENT.	Chemistry station Bozeman
* Subsubtotal *			69095		
* Equipment : Processing Data					
NEW15	COMPUTER+COMPONENTS	0	6000	THIS ITEM IS NEEDED FOR DEVELOPING EXPERIMENTAL CONTROL AND DATA ACQUISITION SYSTEMS FOR RESEARCH EXPERIMENTS.	Ag. Engin. Bozeman
NEW35	COMPUTER WORKSTATION	0	3714	THIS WORKSTATION WILL PROVIDE A FASTER,TIMELY,AND CHEAPER INFORMATION SERVICE FOR MONTANA FARMERS. THIS IS A COMPLIMENTARY UNIT TO THE 1986 REQUEST.	Publications & News Bozeman
* Subsubtotal *			9714		
* Equipment : Vehicles					
NEW52	1/2TON FLATBED TRUCK	0	5000	TO HAUL BULKY CROP RESIDUE(STRAW AND HAY),PULLING TRAILERS,AND GENERAL FARM USE AT AGRONOMY FARM.	Plant & Soil Sci. Bozeman
* Subsubtotal *			5000		
** Subtotal **			86809		

MAES Equipment Needs for Departments in 1987
(sorted by catagory of need and then classification)

Tag	Description	Hr/Miles Yr	Cost	Justification-For-Item	Location
** Catagory Of Need: OBLIGATIONS					
* Equipment : Laboratory & Scientific					
OBG51	NIR EQUIP PAYMENT	0	3000	FINAL PAYMENT FOR UNIT.ANNUAL PAYMENT ON $18,000 LAB INSTRUMENT USED TO DETERMINE KERNEL QUALITY IN CEREAL CROPS.$9,000 WAS COVERED BY GRANT FROM WHEAT COMM.	Plant & Soil Sci. Bozeman
* Subsubtotal *			3000		
** Subtotal **			3000		

MAES Equipment Needs For Departments in 1987
(sorted by catagory of need and then classification)

Tag	Description	Hr/Miles	Yr	Cost	Justification-For-Item	Location
** Catagory Of Need: REPLACEMENT						
* Equipment : Farm Machinery						
070196	ROTAVATOR-HOWARD 50"	0	77	2001	THE ROTAVATOR IS ESSENTIAL FOR RESEARCH TILLAGE. IT NEEDS $2000 IN REPAIRS.	Western at Corvallis
011714	HARVESTER GEHL CB600	3500	74	15000	CURRENT HARVESTER VERY WORN AND REPAIRS COSTLY. NECESSARY TO CHOP CORN AND GRASS SILAGE.	Nothern at Havre
049581	PLOW IHC ROLLOVER #3	0	74	5000	CURRENT PLOW WORNOUT, NECESSARY TO PREPARE FIELDS FOR CROP PRODUCTION.	Nothern at Havre
042483	HARVESTER-FORAGE PLO	0	74	4000	IT IS NECESSARY TO KEEP RESRCH EQUIP CURRENT. THE UPDATE & RENEWAL OF EQUIP IS ESSENTIAL FOR OBTAINING HARVESTS AT OPPORTUNE TIMES.	Northwestern at Creston
018678	SWATHER IHC MDL#201	0	65	25000	SWATHER IHC MDL.#201-1965.CANNOT GET PARTS FOR THIS 19 YEAR OLD SWATHER AND COSTLY PARTS MUST BE MADE IN THE SHOP.	Southern at Huntley
* Subsubtotal *				51001		
* Equipment : Laboratory & Scientific						
048629	LAB EQUIPMENT	0		20000	NEEDED TO EQUIP THE SOIL AND PLANT ANALYSIS RESEARCH LAB AFTER IT IS REMODELED.	Central at Moccasin
010308	HOOD FUME LAB	0	68	4000	THE PRESENT HOOD IS DANGEROUS TO THE HEALTH OF THE PEOPLE IN THE LAB.	Southern at Huntley
017545	SCALE LIVESTOCK FAIR	0	63	5000	SCALE-LIVESTOCK,FAIR. RECIEVED EXTREMELY HEAVY USE AND NEEDS TO BE REPLACED RATHER THAN UNDERGO EXPENSIVE REPAIR.	Southern at Huntley
002440	CENTRIFUGE INT REFRI	0	56	20000	THIS CETRIFUGE IS WEARING OUT AND WE NEED ONE WITH A HIGH CENTRIFUGAL FORCE.IN ORDER TO COMPLETE QUALITY VIROLOGY STUDIES.	Veterinary Sci. Bozeman
069192	MIXER SORVALL OMNIMI	0		2001	THE SORVALL OMNIMIXER HAS HAD DAILY USE RESULTING IN EXCESSIVE WEAR TO THE CHUCK AND COUPLING ADAPTER. IT IS ESSENTIAL TO PARASITOLOGY RESEARCH.	Veterinary Sci. Bozeman
002524	MICROTOME ROTARY	0		10000	THE ROTARY MICRTONE IS OLD AND HAS TWO MAJOR REPAIRS IN THE PAST FEW YEARS. THIS INSTRUMENT IS CRITICAL TO THE PROCESSING OF TISSUE SPECIES.	Veterinary Sci. Bozeman
082322	SHARPENER-KNIFE	0		6000	THE EXISTING KNIFE SHARPENER CANNOT SHARPEN TUNGSTEN-CARBIDE KNIVES OR LARGER KNIVES FOR SECTION TISSUES.THIS UNIT IS CRITICAL TO HISTOPATHOLOGY LAB.	Veterinary Sci. Bozeman
* Subsubtotal *				67001		
* Equipment : Office						
018634	COPIER PHOTO DRY 3M	0	66	7500	SHARP SF-850 COPIER. NEEDED FOR USE IN PREPARING ANNUAL REPORTS, BOOKLETS AND OTHER MATERIALS. EARC HAS A COPIER WITH A CAPACITY OF 1 COPY PER 2 MIN	Eastern at Sidney
055193	COPIER AB DICK 955	0	83	2500	NECESSARY FOR BILLING & REPORTS. HIGH USE ITEM.	Nothern at Havre
* Subsubtotal *				10000		

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Tag	Description	Hr/Miles	Yr	Cost	Justification-For-Item	Location
* Equipment : Processing Data						
040245	TERMINAL DECWRITER I	0	82	2001	NECESSARY FOR LETTER QUALITY AND REPORT PRINTING.	Nothern at Havre
* Subsubtotal *				2001		
* Equipment : Tractors						
054580	TRACTOR JOHN DEERE #	3000	74	26000	TRACTOR, DIESEL, ROW CROP TYPE. NEEDED FOR PLOWING, DISKING,SUMMER FALLOWING, PUMPING IRR. AND HARVESTING SUGARBEETS AT RESRCH CENTER.	Eastern at Sidney
049583	TRACTOR IHC F966 HYD	5575	74	25000	USED FOR FARMING, LIVESTOCK FEEDING & SOILS AND AGRONOMY RESEARCH	Nothern at Havre
069900	TRACTOR J-D-2030	0	77	20000	ITEM IS IN CONSTANT NEED OF REPAIR AND ENGINE OVERHAUL.USED FOR GENERAL FARM WORK OF NONRESRCH FIELDS.	Plant & Soil Sci. Bozeman
* Subsubtotal *				71000		
* Equipment : Vehicles						
RPL54	1 TON CLUB CAB TRUCK	0		18000	NEEDED TO REPLACE 1977 GMC PICKUP FOR PULLING TRAILER WITH HEAVY PLOT EQUIP. TO OFF-STATION SITES. MUST BE HEAVY DUTY.	Plant & Soil Sci. Bozeman
041375	AUTO FORD ESCORT '82	80000	82	10000	THIS REPLACEMENT VEHICLE IS NEEDED TO TRAVEL TO RESEARCH PLOTS. THE ESCORT IS UNECONOMICAL TO REPAIR AND UNRELIABLE.	Ag. Engin. Bozeman
057396	AUTO CHEV VAN 1975	65000	75	15000	THIS VEHICLE IS NEARING THE TIME & MILEAGE WHEN IT IS NOT ROAD-WORTHY TO VISIT OFF-STAT. RSRCH.IT NEEDS TO CARRY HARVEST MATERIAL AND RSRCH EQUIP TO OTHER STAT.	Plant Pathology Bozeman
060411	TRUCK GMC SUBR 1977	111140	77	12000	STAFF VEHICLE USED BY SOIL SCIENTIST. HIGH USE DUE TO STATION TRIALS.	Nothern at Havre
070063	TRUCK GMC '77 1/2	54521	77	12000	STAFF PICKUP TO USE DAILY IN LIVESTOCK RESEARCH PROGRAM.	Nothern at Havre
049688	TRUCK GMC PU'74 1/2	113975	74	10000	THIS TRUCK SHOULD BE REPLACED WITH A NEWER USED UNIT.	Southern at Huntley
001110	TRUCK CHEV STOCK '42	251915	56	24000	THE JUSTIFICATION FOR ALL TRUCKS BEING REPLACED IS FOR GEN. ON-GOING OPERATION OF THE LIVESTOCK FARM.REPAIRS ARE COSTING ALMOST THE SAME AS REPLACEMENT.	Animal & Range Bozeman
011827	TRUCK DODGE '51 3/4	125073	62	14000	TRUCK REAIR COSTS ARE COSTING ALMOST AS MUCH AS REPLACEMENT.	Animal & Range Bozeman
024964	TRUCK DODGE '69 1/2	60000	69	10000	TRUCK REPAIRS ARE COSTING ALMOST AS MUCH AS REPLACEMENT.	Animal & Range Bozeman
024973	TRUCK DODGE '69 1/2	75762	69	10000	TRUCK REPAIRS ARE COSING ALMOST AS MUCH AS REPLACEMENT.	Animal & Range Bozeman
069450	TRUCK GMC '77 1/2	67946	77	14000	TRUCK REPAIRS ARE COSTING ALMOST AS MUCH AS REPLACMENT.	Animal & Range Bozeman
072583	TRUCK, DODGE '64 1/2	75000	70	12000	TRUCK REPAIRS ARE COSTING ALMOST AS MUCH AS REPLACEMENT.	Animal & Range Bozeman
RPLAAI	TRUCK	167835		10000	PICKUP IS VERY OLD AND IN POOR CONDITION.VEHICLE IS NEEDE FOR HORT FARM RESRCH AND GREENHOUSE RESRCH.	Plant & Soil Sci. Bozeman
* Subsubtotal *				171000		
** Subtotal **				372003		

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Tag	Description	Hr/Miles Yr	Cost	Justification-For-Item	Location
** Catagory Of Need: SIDNEY/USDA					
* Equipment : Laboratory & Scientific					
SIDAAB	LAB MILL WILEY	0	3500	LABORATORY MILL.A PLANT TISSUE GRINDER IS NEEDED TO PREPARE STRAW,GRAIN,AND OTHER PLANT TISSUES FOR CHEMICAL ANALYSIS. EARC USES A USDA WILEY MILL FOR TRANSFER	Eastern at Sidney
SIDAAD	DRYING OVENS	0	20000	DRYING OVENS. NEEDED FOR OVEN DRYING FORAGE GRAIN AND SOIL SAMPLES. EARC HAS PROBLEMS GETTING TIMELY ACCESS TO USDA DRYING OVENS WHICH DISRUPTS RESEARCH.	Eastern at Sidney
* Subsubtotal *			23500		
** Subtotal **			23500		

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Tag	Description	Hr/Miles Yr	Cost	Justification-For-Item	Location
** Catagory Of Need: UPGRADES					
* Equipment : Farm Machinery					
UPG2	BALER LARGE ROUND	0	14000	IT COSTS $2000 PER YEAR TO RENT THIS ITEM. IT IS IMPOSSIBLE TO RENT WHEN IT IS NEEDED. THE RENTED MACHINES LOSE A LOT OF STRAW IN THE FIELD.	Southern at Huntley
* Subsubtotal *			14000		
* Equipment : Laboratory & Scientific					
UPGAAE	MICROTOME SLEDGE	0	20000	THE PRESENT SLEDGE MICROTONE IS ON LOAN AND THERE ARE SERIOUS LIMITATIONS ON THE SIZE OF SPECIES THAT IT CAN HANDLE.WE NEED ONE THAT HOLD LARGER SPECIES.	Veterinary Sci. Bozeman
* Subsubtotal *			20000		
** Subtotal **			34000		
*** Total ***			519312		