

THE ANNUAL REPORT
of the
DEPARTMENT OF AGRICULTURE

July 1, 1964 to June 30, 1965

PLEASE RETURN

5
1381
Agr

STATE DOCUMENTS

MONTANA STATE LIBRARY
930 East Lynn
Helena, Montana 59601

DEPARTMENT OF AGRICULTURE
HELENA, MONTANA

November 30, 1967

Honorable Tom Salcock
Governor of the State of Montana
Helena, Montana

Dear Governor Salcock:

Respectfully submitted herewith is the annual report of the Department of Agriculture in conformance to Section 3-101 I.C.M. 1947. The report covers the fiscal year July 1, 1966 through June 30, 1967 and includes financial data for the several divisions including income and expenditure with remaining balance as of June 30, 1967. I am pleased to state that the department operated well within its budget for the period. Statistical information as to inspections, fees, licenses and collections is indicative of the scope of work in insuring wholesome products for the Montana consumer.

Value of crops produced in Montana for the years 1964 and 1965 is as follows:

	<u>IN THOUSAND DOLLARS</u>	
	<u>1964</u>	<u>1965</u>
Wheat	\$114,991	\$122,901
Hay	74,546	65,822
Barley	39,387	42,551
Sugar Beets	12,562	17,270
Potatoes	7,507	8,945
All other crops	19,211	16,021
TOTAL - All Main Crops	258,170	273,210

See

1967

103

101

Production of wheat, Montana leading cash crop, totalled 102,475,000 bushels, up 13 percent from a year ago, and valued at \$123 million, supplemented with an approximate 32 million in certificate payments, brings the total value from wheat to \$155 million. Winter wheat set a new production record and the yield of 29 bushels per acre equalled the previous high in 1911. Hay production also set a new production record of 3.1 million tons, up 12 percent from last year and 23 percent above average. Barley, the largest feed crop, totalled 58,700,000 bushels and the average yield of 37.6 bushels per acre was the highest since 1924.

Though the season was abnormally cool and wet and was conducive to good livestock and crop production, some crops were down because of the cool, wet season and early frosts, among them sugar beets, alfalfa seed and dry beans. Sugar beet production estimated at 745,000 tons was 23 percent below last year and 1 percent below average. The cherry crop was unfortunately almost a total loss.

Cash farm receipts from livestock and livestock products, crops and government payments which are more truly indicative of the economic flow of dollars and the strength of Montana agriculture are as follows:

Cash Receipts	1944*	1945**
	----- Dollars -----	
Livestock & Livestock Products	203,272,000	227,500,000
Crops	181,070,000	180,000,000
Government Payments	77,250,000	7,500,000
	<hr/>	<hr/>
Total	461,600,000	415,000,000

* Official U.S.D.A. Estimates

** Based on receipts through October. Totals for 1945 are preliminary approximations and are not official estimates.


Although official figures are not yet available for November and December, the volume of cattle sold has been large and will boost the total for above recent years. Prices for livestock are considerably higher than a year ago though receipts from sale of crops are below last year.

Cash receipts from the sale of livestock and livestock products and crops were supplemented by significantly large government payments for wheat and feed grain programs, and for conservation, soil bank, Sugar Act and Wool Act payments. The total of these payments may be at a record high of \$47.5 million.

Page 3.

The year 1945 was a good production year and the abundant rainfall insures good grazing potential and sub-soil moisture for the 1946 crop.

Respectfully submitted.


C. Lowell Purly
Commissioner of Agriculture

CLP:mks

AGRICULTURAL STATISTICS DIVISION

In addition to special interest in Montana cattleman and wheat production as made available this year through statistical projects carried on in cooperation with the Statistical Reporting Service, U. S. Department of Agriculture. This work originated under state funds matched with federal funds. Major items of market intelligence type information are (1) county of origin and destination of Montana cut le by counties within the state and to other counties; (2) counties of wheat grown in Montana, and (3) protein content of Montana grain, winter wheat and spring wheat. It was worthy to note for instance that Montana is the largest supplier in the Western States of a certain number of cattle shipped into the Corn Belt area. Shipments out of Montana during the calendar year 1957 totaled 1,093,765 head, 24 percent more than in 1956. Leading states which received significant numbers and portions of this total were as follows: Iowa, 315,534 head, representing 29 percent of the total; Minnesota, 132,537 head, and 12 percent; Illinois, 111,113 head, and 10 percent; and Nebraska, 74,377 head and 7 percent. Other states which depend on Montana as a source of supply were South Dakota and Wyoming each with 4 percent, and California, 3 percent; and Wisconsin, North Dakota, and Idaho each 2 percent. These 13 states received 82 percent of Montana's out-of-state shipments of cattle. In the current year shipments of beef in large and income from livestock continue to be the backbone of our state's economy.

The information on varieties of wheat grown and protein content of Montana wheat is disseminated to growers, research workers, and the grain trade. It was of special interest to out-of-state buyers who needed wheat for milling purposes that has strong gluten qualities and was high in protein content. We strongly believe that the information made available through this portion of the matched fund project will be strengthened as well as create a market for Montana wheat.

Administrational work was continued under the State-Federal Cooperative agreement during the fiscal year ending June 30, 1957. This included preparation of county estimates for all crops and livestock items, and publication in December, 1957, of the biennial bulletin entitled Montana Agricultural Statistics, Volume X. Copies of this publication were furnished to the Legislature during the last session. In addition, the various statistical series of county and state estimates were updated; state estimates of production of grains and manufactured and stock dairy products were prepared and published under the cooperative agreement.

COMMERCIAL FEED AND FERTILIZER DIVISION

Montana laws require registration, inspection, and sampling of all commercial feeds, fertilizers and soil amendments distributed in the state. Regulatory functions of these laws are delegated to the Commissioner of Agriculture or his deputies. In this case, Division personnel. The Division personnel stationed at the Montana Agricultural Experiment Station, Montana State University, Bozeman, and fieldmen at Fairfield and Miles City are responsible for the following duties for both commercial feeds and fertilizers.

Review registration applications with accompanying label copy to determine if the labels conform to uniform labeling rules and practices. This review assists, whenever possible, feed manufacturers and dealers, and fertilizer manufacturers, blenders and dealers in the production, labeling, and distribution of their respective products in order to assure compliance, not only with Montana regulatory laws, but also those of Federal departments which control interstate commerce.

Fieldmen inspect commercial feeds and fertilizers offered for sale in the state to see that they are properly registered and labeled as registered.

Representative samples of the various feeds and fertilizers are taken by the fieldmen. These samples are prepared for analysis and analyzed within the limits of personnel and laboratory facilities available to check the guaranteed analysis. The results of analysis are reported to the Commissioner of Agriculture, the manufacturer of the product and the dealer who offered the product for sale. An annual report of all analyses is published and is available on request.

Commercial Feeds Registered	1,402
Commercial Feeds Gross Annual Value - number firms	203 (\$13,091,852.41)
Commercial Fertilizer registered	4
Grades	2,330
Additional Grades	210
FORAGE	7,569.-
Blending Plants	1)

DAIRY DIVISION

The Dairy Division of the Montana Department of Agriculture's scope of activities include sanitary inspection and regulation of dairy product plants, dairy products, oleomargarine and production and sale of eggs.

In carrying these objectives the respective interests of consumers, producers, merchants and processors are well considered. Since consumers are the ultimate purchasers, every effort is made at the retail store level to provide consumers with wholesome, dependable quality dairy products and eggs. This requires constant contacts and cooperation in working with producers, merchants and processors, in the production of quality milk, cream and eggs and the follow-through in processing and marketing of the finished product. While only limited follow-up information for care of these products in the home is provided by this Division, other State and Federal Departments constantly provide this guidance and information.

One of our main works is quality; an excellent working relationship with our State University and their highly qualified dairy specialist staff enabled us to carry out an outstanding educational program with producers, processors and merchants. At least every other month a surprise check of dairy products is made at retail stores and manufacturing plants. These products are carefully picked and shipped to our State University where the dairy specialists on the University staff judge the products for quality. They also run laboratory tests. These results are mailed back to the retail store or dairy plant and personal contacts are made regarding results of the quality tests with the store or plant personnel, where quality deficiencies have developed, efforts are made to determine if it may have occurred during processing or marketing or delivery. Funds on a matching basis for this work are provided by the U. S. Department of Agriculture under the Matching Fund program.

A voluntary certified egg program is carried out with Montana egg producers. Under this program a special label or sticker is provided qualified producers to use in marketing their eggs.

Winter rations of the Department includes checking accuracy of producer milk-fat tests. Frequent check tests are made at dairy plants that purchase milk and cream from producers on the basis of the milk fat content. Dairy plant composite milk tests are run in comparison with original tests. These are also compared with daily fresh milk samples picked up by our fieldmen when they ride the bulk milk truck that picks up producers milk. When noticeable differences between fresh and composite sample milk fat tests occur, frequent rechecks are made and detailed information obtained on factors that may have affected the milk fat content of the milk.

Fieldmen of the Dairy Division routinely visit retail stores and wholesale dealers to check quality, grade, weight and labeling of dairy products, eggs and oleomargarine for compliance with the state law. Restaurants and public eating places are also routinely checked particularly for compliance with the law regarding the serving and the posting of required signs where oleomargarine is used or served.

July 1, 1964 through June 30, 1965

FIELD WORK DAIRY DIVISION

1. Total Licenses issued	1,577
2. Eggs, Dairy products, Oleomargarine, poultry and store inspections	1,579
3. Sanitary inspection of plants manufacturing dairy products	1,271
4. Quality tests on dairy products	2,060
5. Dozens of eggs checked for proper grade	205,153
6. Number of egg seals sold	1,270,000
7. Butterfat tests for dairy products	2,225
8. Milk and cream butterfat tests run to check accuracy of sampling and weighing milk from farm tank	1,710
9. Trips on pickup bulk milk tanks to check accuracy of sampling and weighing milk from farm tank	503
10. pounds of poultry inspected and graded for USDA (chickens and turkeys)	235,025
11. Gold Seal Farm Inspections	223
12. Babcock and Egg Graders Inspections	161
13. Wholesale Egg and Butter Inspections	20
14. Official or Miscellaneous calls	595
15. Frozen Eggs - Cans Inspected	1,583

STATE GRAIN LABORATORY DIVISION

The Montana Grain Inspection Laboratory, Division of the Montana Department of Agriculture, provides Grain Grading, Protein Testing, Sedimentation Value and Official Weighing services to the grain industry.

The main laboratory is at Great Falls with a second laboratory at Harlowton where inspectors licensed by the U.S.D.A. grade grain and determine sedimentation value under the U. S. Grain Standards Act. The inspectors pass the examination of the U.S. D. A. before receiving their license and then are under the supervision of the U.S.D.A. in grain grading procedure. A third laboratory at Bozeman is in conjunction with the Montana State University Experiment Station.

The protein testing sections of both laboratories are members of the Pacific Northwest Section of American Association of Cereal Chemists. Such membership gives a check on protein testing procedure by means of a collaborative check sample.

The quality of grain determined by grade and protein tests is of vital importance to buyers and sellers. It is the basis of price settlement between the two. Protein premiums based on tenths of a percent are paid to the producer of high protein wheat. The price is also based on the numerical grade of the grain with discounts for various factors such as shrunken and broken kernels, froet damage, sprout damage, and other degrading factors. Qualified personnel determine this quality in an unbiased manner.

The Great Falls office has personnel stationed at Shelby and Lewistown. The employees at Shelby and Lewistown perform official weighing service for the grain terminals there. They also officially sample boxcars of grain and send the samples to Great Falls for testing.

Official state weighers stationed at the larger grain terminals at Great Falls, Shelby and Lewistown supervise the weighing of carloads of grain being loaded or unloaded. These official weights are used in settling loss claims of the elevator against the railroads.

Mustard seed is also graded at Great Falls under the Montana Mustard Seed Standards established by the Montana legislature for adoption in 1947. These standards have gained world wide acceptance and are the basis of Canadian and other mustard standards.

The Montana Grain Inspection Laboratories at Great Falls and Harlowton are required by law to be self supporting on a fee basis. Besides being self supporting, five percent of the gross revenue is deposited to the state general fund.

GRAIN STANDARDS AND MARKETING

GREAT FALLS LABORATORY

Protein Tests- Carloads	17,350
Submitted Samples	21,697
Grade Determination	
Carloads	24,222
Submitted Samples	10,115
Weighting - Carloads	3,021
Sedimentation Tests	604

HARLOWTON LABORATORY

Protein Tests	
Carloads	1,349
Submitted Samples	5,551
Grade Determination	
Carloads	1,020
Submitted Samples	237
Sedimentation	592
Contamination Tests	27
Malting Tests (Carloads Barley)	6

TOTALS BOTH LABORATORIES

Protein Tests - Carloads & Submitted samples	44,312
Grade Determination-Carloads & Submitted Samples	45,695
Sedimentation Tests	1,286
Contamination Tests	27
Malting Tests (Barley)	6
Weighting Carloads	3,423
Grain Dealers & Public Warehouseman Licenses	400
Grain Dealer and/or Track Buyer Licenses	7
Grain Dealer Licenses	78
Agricultural Seed Buyers	5
Mustard Seed Contractors	3

HORTICULTURAL INSPECTION AND QUARANTINE SERVICE

Section 3-1101, Revised Codes of Montana, 1947, reads: "The Department of Agriculture, through the Division of Horticulture, shall enforce all of the laws of the State of Montana now in force or hereafter enacted relating to the production and regulation of the industry of horticulture in the State of Montana."

Inspectors for this division are subject to call at all times. They assist the growers and anyone concerned in the packaging and shipping of fruits and vegetables to see that the commodities being shipped comply with various standards and regulations in effect in this state as to quality, condition, size, maturity, packaging, labeling, grading and grade, as well as observance of State and Federal quarantine regulations. They also assist growers and shippers in finding market outlets and assist buyers in locating desired supplies. As an adjunct to its regulatory work, the Division of Horticulture is often called on to assist citizens with problems related to Agriculture and Entomology.

At public sheds and county shipping points detailed examination of the commodities is made by inspectors. After this, often an official joint Federal-State inspection certificate setting forth facts about the quality, condition, size, pack and grade of the products inspected is issued. These certificates are recognized nationally and are admissible as evidence in courts. Often-time products are sold to processing plants and the price paid to producers is based on grade determinations made by state inspectors at the plant. All produce entering Montana from other states is inspected to see that it meets the grade standards of our state, and is free from insect, pest and plant disease.

Licensing, bean dealers and inspection services provided by Sections 3-1401 to 3-1414, inclusive, Revised Codes of Montana, 1947 are enforced by this division to see that regulations pertaining to buying, selling, warehousing and licensing are carried out. In cooperation with the U.S. Department of Agriculture, the Division of Horticulture has two inspectors who are licensed to inspect Federal Cuts for color, grade and time of inspection.

As people are engaged in the nursery business there in a number of years and for this reason a constantly increasing amount of service is being requested of the Division of Horticulture. All nursery stock shipped out of the state must be inspected and must carry a Certificate of Inspection signed by a duly authorized inspector, stating that it is free from insects and plant disease. All incoming nursery stock must also be inspected to see that it is free from disease and insects and to determine that no stock prohibited entry by quarantine laws into our state. These measures are necessary for the protection of an investment that often represents a lifetime of work and planning.

The Horticultural Division has cooperated with the U.S. Department of Agriculture in the Barberry eradication program. The work has progressed to the point that Montana is on a maintenance basis. No serious rust damage has been experienced from host plants within our state in recent years. Apple production is the source of a major income in the state. A serious rust epidemic such as has been experienced in times past, could raise havoc with this crop and seriously affect the economy of the state. In addition to the regulatory work required by the department under the terms of the basic laws, the Montana Division of Horticulture voluntarily cooperates with numerous Federal and State Government Departments and other civic agencies in projects which are of benefit to the entire state. This is done with the idea of promoting the best interests of the State of Montana in general and the agricultural industry, in particular.

MONTANA DEPARTMENT OF AGRICULTURE
HORTICULTURAL INSPECTION AND QUARANTINE SERVICE - MISSOULA

INSPECTION SUMMARY - OFFICE AND FIELD DATA
Comparison for Years - 1961 - 1962 - 1963 - 1964

INSPECTIONS AT:	<u>1961</u>	<u>1962</u>	<u>1963</u>	<u>1964</u>
Post Office	1,928	2,077	2,263	2,174
Stores	4,973	4,592	4,698	3,481
Farms	1,609	1,880	1,906	1,448
Express	882	910	767	560
Trucks	6,205	7,043	8,003	6,697
Freight	410	312	365	695
Dry Beans	<u>169</u>	<u>181</u>	<u>152</u>	<u>188</u>
Totals	16,176	16,995	18,154	15,246

INSPECTION CERTIFICATES ISSUED

FRUIT AND VEGETABLES	<u>1961</u>	<u>1962</u>	<u>1963</u>	<u>1964</u>
Federal-State	1,497	1,667	1,333	1,958
State	329	545	767	689
Condition	922	337	426	347
Condemnation	28	32	18	26
Beans, Dry-Federal	<u>169</u>	<u>181</u>	<u>152</u>	<u>188</u>
Totals	2,945	2,762	2,696	3,208

OFFICE DATA

	<u>1961</u>	<u>1962</u>	<u>1963</u>	<u>1964</u>
Letters	1,769	1,856	1,822	1,872
Circulars and Bulletins				
Issued	3,602	3,366	3,412	3,389
Phone Calls	1,555	1,780	1,824	1,792
Personal Calls	1,641	1,605	1,680	1,642
Meetings Attended	<u>7</u>	<u>5</u>	<u>8</u>	<u>14</u>
Totals	8,574	8,612	8,746	8,709

INSPECTOR'S DATA

	<u>1961</u>	<u>1962</u>	<u>1963</u>	<u>1964</u>
Letters Answered	1,884	1,964	1,804	1,561
Phone Calls	3,838	3,987	3,295	3,248
Office Calls	1,621	1,990	1,705	1,472
Meetings	<u>1</u>	<u>5</u>	<u>9</u>	<u>2</u>
Totals	7,344	7,946	6,813	6,283

MONTANA DEPARTMENT OF AGRICULTURE
HORTICULTURAL INSPECTION AND QUARANTINE SERVICE
MISSOULA, MONTANA

COMPARISON NURSERY STOCK INSPECTED

	<u>1960</u>	<u>1961</u>	<u>1962</u>	<u>1963</u>	<u>1964</u>
Trees (Shade & Fruit)	26,508	21,814	13,093	15,390	10,079
Evergreens	104,878	150,900	9,660	25,072	13,890
Small Fruits	78,395	477,470	430,459	404,520	822,427
Shrubs and Ornamentals	42,864	63,186	100,955	223,447	68,998
Seedlings	6,248	40,057	52,600	70,000	3,761
Bulbs	111,123	173,452	120,744	134,600	47,234
Miscellaneous	<u>45,555</u>	<u>54,212</u>	<u>45,280</u>	<u>52,500</u>	<u>14,057</u>
Totals	415,571	981,091	772,791	925,529	980,446

COMPARISON NURSERY STOCK CONDEMNED AND DESTROYED

	<u>1960</u>	<u>1961</u>	<u>1962</u>	<u>1963</u>	<u>1964</u>
Trees (Shade & Fruit)	21	427	367	139	64
Evergreens	501	556	781	686	149
Small Fruits	2,117	4,174	8,750	7,285	216
Shrubs	111	112	287	314	32
Bulbs	2,000	2,484	4,555	1,123	471
Seedlings	93	127	893	438	2
Miscellaneous	<u>500</u>	<u>501</u>	<u>615</u>	<u>776</u>	<u>27,171</u>
Totals	5,343	8,383	16,248	10,761	28,105

MONTANA DEPARTMENT OF AGRICULTURE
 HORTICULTURAL INSPECTION AND QUARANTINE SERVICE
 MISSOULA, MONTANA

COMPARISON OF NUMBER OF PACKAGES OF FRUITS AND VEGETABLES
 CONDITIONED AND CONDEMNED DURING - 1960 - 1961 - 1962 - 1963 - 1964

<u>Commodities</u>	<u>1960</u>	<u>1961</u>	<u>1962</u>	<u>1963</u>	<u>1964</u>
Apples	225	455	858	255	645
Apricots	120	85	315	235	97
Avocados	13	36	8	25	17
Blackberries			12		
Cantaloupes	140	1,659	931	1,120	263
Cherries	240	282	567	666	1,576
Cranberries			450	500	119
Fruit, Mcls.	834		1,080	804	35
Grapefruit	1,948	3,258	548	1,456	1,468
Grapes	1,220	417	611	760	495
Lemons		110	40		40
Oranges	868	1,506	3,109	640	1,050
Peaches	2,980	717	3,217	5,500	1,527
Pears	15	294	18		10
Plums-Prunes	17	20	12	140	53
Raspberries	365	282	44	85	27
Rhubarb	8				34
Strawberries	1,144	3,078	5,085	2,487	735
Tomatoes	2,615	4,745	2,197	4,215	1,104
Watermelons	28,158	31,854	133,528	183,775	3,380
Asparagus	10	19	163		14
Broccoli	26	15	22	35	39
Beans, Gr.	2	4	50		1
Beets		6	19	12	
Cabbage	340	55	4	3	25
Carrots	156	170	557	155	350
Cucumbers	479	598	135	125	178
Cauliflower	155	343	160	1,129	1,656
Celery	216	229	249	280	32
Corn, Green	438	140	221	133	113
Lettuce	1,265	2,237	1,729	2,789	2,184
Onions, Dry	1,115	835	390	2,493	705
Onions, Gr.	94	154	120	215	199
Peas, Green	7	4	15		3
Potatoes	7,728	9,914	10,099	9,707	4,208
Peppers	93	424	860	475	19
Radishes	35	278	105	398	57
Spinach	12	9			5
Squash	165	395	643	660	6
Swt. Potatoes	159	185	920	457	710
Turnip-Beets	16	23	30	60	42
Veg. Mcls.	<u>410</u>	<u>455</u>	<u>135</u>	<u>145</u>	<u>197</u>
Totals	53,831	65,290	169,256	221,934	23,418

MONTANA DEPARTMENT OF AGRICULTURE
 HORTICULTURAL INSPECTION AND QUARANTINE SERVICE
 MISSOULA, MONTANA

COMPARISON IN TERMS OF CARLOADS OF HOME GROWN
 FRUITS AND VEGETABLES INSPECTED DURING 1963 - 1964

	<u>1 9 6 3</u>			<u>1 9 6 4</u>		
	<u>Rail</u>	<u>Truck</u>	<u>Total</u>	<u>Rail</u>	<u>Truck</u>	<u>Total</u>
Apples		2 1/2	2 1/2		2	2
Cherries				73 1/4	15	88 1/4
Raspberries		22 1/2	22 1/2		10	10
Strawberries		8 3/4	8 3/4		4 3/4	4 3/4
Tomatoes		1	1			
Fruit Mcls.		1 1/4	1 1/4		1/4	1/4
Beets						
Cabbage		8 1/2	8 1/2		3 3/4	3 3/4
Carrots		1 1/2	1 1/2		1	1
Corn, Green		11	11		13 1/2	13 1/2
Cucumbers		1/2	1/2		1/4	1/4
Lettuce		4 1/4	4 1/4		3 1/2	3 1/2
Onions, Dry		1	1		1	1
Onions, Gr.		2 1/4	2 1/4		1 1/4	1 1/4
Peppers					1/4	1/4
Potatoes	1,028 3/4	868	1,896 3/4	1,568 1/4	961 1/2	2,529 3/4
Relishes		6 3/4	6 3/4		2 3/4	2 3/4
Squash		2 1/4	2 1/4		1	1
Srt. Potatoes						
Turnip-Bagas		8 3/4	8 3/4		9 1/4	9 1/4
Veg. Mcls.		4 3/4	4 3/4		5 1/2	5 1/2
Total	1,028 3/4	955 1/2	1,984 1/4	1,641 1/2	1,036 1/2	2,678

MONTANA DEPARTMENT OF AGRICULTURE
HORTICULTURAL INSPECTION AND QUARANTINE SERVICE
MISSOULA, MONTANA

COMPARISON IN TERMS OF CARLOADS OF FRUITS AND VEGETABLES IMPORTED
AND INSPECTED DURING THE YEARS 1963 AND 1964

	<u>1 9 6 3</u>			<u>1 9 6 4</u>		
	<u>Rail</u>	<u>Truck</u>	<u>Totals</u>	<u>Rail</u>	<u>Truck</u>	<u>Totals</u>
Apples	1 3/4	377 1/2	379 1/4		354 1/2	354 1/2
Apricots		24	24		25 1/4	25 1/4
Avocados		20	20		19 1/2	19 1/2
Cantaloupes		287 3/4	287 3/4	1	268 3/4	269 3/4
Cherries		12 1/4	12 1/4		6	6
Cranberries		11	11		13	13
Fruit Mcls.		81	81		107	107
Grapefruit	1/4	229	229 1/4		245	245
Grapes		145 1/2	145 1/2	1/2	129 3/4	130 1/4
Lemons		70 1/4	70 1/4		64	64
Oranges		420	420		513	513
Peaches		152 3/4	152 3/4		173 1/2	173 1/2
Pears		57 3/4	57 3/4		68 1/2	68 1/2
Plums-Prunes		35 1/2	35 1/2		36 3/4	36 3/4
Raspberries		9 1/4	9 1/4		8 3/4	8 3/4
Rhubarb		2	2		3	3
Strawberries		142 1/4	142 1/4		132 3/4	132 3/4
Tomatoes		417 3/4	417 3/4		409	409
Watermelons	19 3/4	410 1/2	430 1/4	1 1/4	908 1/2	909 3/4
Asparagus		12 3/4	12 3/4		16 1/4	16 1/4
Broccoli		11 1/4	11 1/4		9 1/4	9 1/4
Beets		1 1/4	1 1/4		1 1/4	1 1/4
Beans, Gr.		1/4	1/4		1/4	1/4
Cabbage	1	139 1/4	140 1/4		131 1/2	131 1/2
Carrots		211 3/4	211 3/4	2 1/2	201 1/4	203 3/4
Cauliflower		48 3/4	48 3/4		49	49
Celery		223 1/2	223 1/2		232	232
Corn, Gr.	1/2	70 1/4	70 3/4	1/4	58	58 1/4
Cucumbers		28 3/4	28 3/4		26	26
Lettuce		1,122 3/4	1,122 3/4		1,178	1,178
Onions, Dry		160 1/4	160 1/4		157 3/4	157 3/4
Onions, Gr.		78 3/4	78 3/4		81 1/2	81 1/2
Pears					1/2	1/2
Peppers		18 1/2	18 1/2		17	17
Potatoes	178 3/4	639 3/4	818 1/2	122 1/2	741 3/4	864 1/4
Radishes		85 1/4	85 1/4		96 1/2	96 1/2
Spinach		1	1		2	2
Squash	1	32	33	1/4	28 1/2	28 3/4
Sweet Potatoes		34 3/4	34 3/4		31 3/4	31 3/4
Turnip-Bagas		33	33		24	24
Veg. Mcls.		104	104		95 3/4	95 3/4
Totals	203	5,963 3/4	6,166 3/4	128 1/4	6,666 1/4	6,794 1/2

MONTANA DEPARTMENT OF AGRICULTURE
HORTICULTURAL INSPECTION AND QUARANTINE SERVICE
MISSOULA, MONTANA
COMPARISON OF NUMBER OF PACKAGES OF FRUITS AND VEGETABLES
INSPECTED DURING 1962 - 1963 - 1964

	<u>I M P O R T E D</u>			<u>H O M E G R O W N</u>		
	<u>1962</u>	<u>1963</u>	<u>1964</u>	<u>1962</u>	<u>1963</u>	<u>1964</u>
Apples	296,811	303,422	283,663	842	2,296	1,545
Apricots	26,201	24,344	25,360			
Avocados	15,141	15,955	15,810			
Cantaloupes	80,158	90,022	83,770			
Cherries	11,272	15,020	17,180	147,600		106,023
Cranberries	11,616	11,163	13,031			
Fruit Mcls.	46,899	7,062	53,363	384	367	111
Grapefruit	122,739	105,552	112,831			
Grapes	144,375	158,916	155,954			
Lemons	30,461	32,529	29,669			
Oranges	214,491	203,410	236,520			
Peaches	196,391	152,688	173,588			
Pears	63,969	43,308	51,001			
Plums-Prunes	38,486	35,541	36,607			
Raspberries	5,716	6,738	6,652	11,373	16,772	7,546
Rhubarb	175	1,190	1,819			
Strawberries	85,871	106,876	99,487	2,309	5,769	3,428
Tomatoes	251,704	263,225	257,671	253	509	
Watermelons	73,171	108,089	229,558		198	
Asparagus	6,795	8,298	10,637		300	
Broccoli	5,143	4,784	3,993			
Beets	101	523	468			
Beans, Gr.		173	139			
Cabbage	40,751	45,087	42,190	2,750	2,862	1,297
Carrots	72,083	84,949	81,143	560	408	387
Cauliflower	31,902	24,943	24,424			
Celery	90,954	100,596	104,784			
Corn, Gr.	30,823	35,990	29,208	4,251	5,494	6,970
Cucumbers	31,190	34,607	31,522	259	777	320
Letuce	331,765	359,310	377,199	474	1,468	1,099
Onions, Dry	118,648	96,035	91,359	288	646	704
Onions, Gr.	27,656	31,712	32,662	1,231	1,011	482
Peas, Gr.		201	360			
Potatoes	290,268	293,709	310,581	844,640	718,788	910,720
Peppers	19,180	21,877	21,019		1,077	209
Radishes	35,453	34,430	38,689	3,030	2,711	1,245
Spinach		829	1,566			
Squash	17,069	20,975	18,612	1,356	1,450	702
Sweet Potatoes	26,689	28,490	24,276			
Turnip-Bagas	13,177	19,625	14,581	4,497	5,012	5,275
Veg. Mcls.	31,859	41,747	38,269	2,212	1,961	2,256
Totals	2,937,153	3,005,940	3,181,395	1,028,309	769,876	1,050,319

MONTANA DEPARTMENT OF AGRICULTURE
 HORTICULTURAL INSPECTION AND QUARANTINE SERVICE
 MISSOULA, MONTANA

COMPARISON VALUES IN DOLLARS OF FRUITS AND VEGETABLES
 INSPECTED DURING 1962 - 1963 - 1964

	<u>I M P O R T E D</u>			<u>H O M E G R O W N</u>		
	<u>1 9 6 2</u>	<u>1 9 6 3</u>	<u>1 9 6 4</u>	<u>1 9 6 2</u>	<u>1 9 6 3</u>	<u>1 9 6 4</u>
Apples	\$ 1,225,194.67	\$ 1,195,482.68	\$ 1,117,632.22	\$ 3,317.48	\$ 9,046.24	\$ 6,087.30
Apricots	100,873.85	93,724.40	97,626.00			
Avocados	49,898.64	57,438.00	56,916.00			
Cantaloupes	425,294.80	500,622.22	466,762.00			
Cranberries	44,721.60	42,977.55	50,169.35			
Cherries	43,397.20	57,827.00	66,143.00	568,260.00		408,188.55
Fruit Mcls.	181,990.68	150,388.52	205,447.55	1,478.40	1,412.95	427.35
Grapefruit	391,796.68	315,600.48	337,364.69			
Grapes	563,683.37	621,361.56	608,895.14			
Lemons	106,415.16	106,695.12	97,314.32			
Oranges	928,189.79	856,356.10	995,328.20			
Peaches	756,105.35	587,848.80	668,313.80			
Pears	248,252.93	167,168.88	196,863.86			
Plums-Frns.	148,171.10	136,832.85	140,936.95			
Raspberries	22,006.60	25,941.30	25,610.20	43,786.05	64,572.20	29,052.10
Rhubarb	673.75	4,581.50	7,000.16			
Strawberries	377,605.80	470,254.40	437,742.80	10,159.60	25,383.60	15,083.20
Tomatoes	894,059.43	942,345.50	922,462.18	905.74	1,822.22	
Watermelons	284,707.73	416,142.65	883,798.30		762.30	
Asparagus	24,171.00	34,851.60	44,675.40		1,260.00	
Broccoli	21,247.90	11,489.60	9,583.20			
Beets	404.00	2,092.00	1,872.00			
Beans, Gr.		692.00	556.00			
Cabbage	205,086.60	216,417.60	202,512.00	13,200.00	13,737.60	6,225.60
Carrots	247,109.08	297,321.50	284,000.50	1,960.00	1,428.00	1,354.50
Cucumbers	141,269.02	151,579.46	138,066.36	1,134.42	3,403.26	1,401.60
Cauliflower	82,064.15	59,863.20	58,617.60			
Celery	476,948.28	460,729.68	479,910.72			
Corn, Green	129,456.60	151,158.00	122,673.60	17,854.20	23,074.80	29,274.00
Lettuce	974,592.78	998,881.80	1,048,613.22	1,317.72	4,081.04	3,055.22
Onions, Gr.	95,263.92	104,649.60	107,784.60	4,062.30	3,336.30	1,590.60
Onions, Dry	419,529.20	326,519.00	310,620.60	907.20	2,196.40	2,393.60
Peas, Green		804.00	1,440.00			
Potatoes	714,200.60	714,649.96	757,817.64	2,142,061.52	1,753,842.72	2,221,156.80
Peppers	111,263.28	126,143.27	117,075.83		5,998.89	1,164.13
Radishes	134,258.83	123,259.40	138,506.62	11,527.40	9,705.28	4,457.10
Spinach		440.00	6,264.00			
Squ	93,476.86	93,145.00	93,060.00	6,780.00	7,250.00	3,510.00
Swt. Potatoes	124,153.74	131,053.80	111,669.60			
Turnip-Bagas	35,700.98	49,847.50	37,035.74	11,799.44	16,253.68	13,401.04
Veg. Mcls.	115,132.60	166,988.00	153,076.00	7,370.60	7,844.00	9,024.00
Totals	\$10,939,008.55	\$10,972,165.48	\$11,607,767.95	\$2,847,882.07	\$1,956,411.48	\$2,756,846.69

MONTANA DEPARTMENT OF AGRICULTURE
HORTICULTURAL INSPECTION AND QUARANTINE SERVICE

VALUE OF PRODUCE IMPORTED INTO MONTANA BY RAIL AND TRUCK
IN 1963 AND 1964 DURING SUCH MONTHS AS IT WAS OR COULD
HAVE BEEN PRODUCED IN MONTANA

	<u>1 9 6 3</u>	<u>1 9 6 4</u>	<u>INCREASE</u>	<u>DECREASE</u>
Apples	\$1,195,482.68	\$1,117,632.22	\$	\$ 77,850.46
Cantaloupes	500,622.22	466,762.00		33,860.22
Cherries	57,827.00	66,143.00	8,316.00	
Pears	167,168.88	196,863.86	29,694.98	
Plums, Prunes	136,832.85	140,936.95	4,104.10	
Raspberries	25,941.30	25,610.20		331.10
Rhubarb	4,581.50	7,000.16	2,418.66	
Strawberries	470,254.40	437,742.80		32,511.60
Tomatoes	942,345.50	922,462.18		19,883.32
Asparagus	34,851.60	44,675.40	9,823.80	
Beans, Gr.	692.00	556.00		136.00
Beets	2,092.00	1,872.00		220.00
Cabbage	216,417.60	202,512.00		13,905.60
Carrots	297,321.50	284,000.50		13,321.00
Cauliflower	59,863.20	58,617.60		1,245.60
Celery	460,729.68	479,910.72	19,181.04	
Corn, Gr.	151,158.00	122,673.60		28,484.40
Cucumbers	151,579.46	138,066.36		13,513.10
Lettuce	998,881.80	1,048,613.22	49,731.42	
Onions, Dry	326,519.00	310,620.60		15,898.40
Onions, Gr.	104,649.60	107,784.60	3,135.00	
Peas, Gr.	804.00	1,440.00	636.00	
Peppers	126,143.27	117,075.83		9,067.44
Potatoes	714,649.96	757,817.64	43,167.68	
Radishes	123,259.40	138,506.62	15,247.22	
Spinach	3,316.00	6,264.00	2,948.00	
Squash	93,145.00	93,060.00		85.00
Turnip-Bagas	49,847.50	37,035.74		12,811.76
Totals	\$7,416,976.90	\$7,332,255.80	\$188,403.90	\$273,125.00

MONTANA DEPARTMENT OF AGRICULTURE
HORTICULTURAL INSPECTION AND QUARANTINE SERVICE

COMPARISON GENERAL FREIGHT (OUTSIDE OF PRODUCE) TRUCKED THROUGH BORDER STATIONS
AT CULBERTSON, ST. REGIS AND NOXON, MONTANA

	<u>1961</u>	<u>1962</u>	<u>1963</u>	<u>1964</u>
Autos, Trucks & Parts	3,243,986	8,917,248	5,835,280	4,974,650
Bakery Products	992,000	1,395,500	1,079,500	1,042,000
Beer & Beer Products	3,918,335	211,926	5,172,301	23,116,380
Beverages & Bottles	11,187,390	14,822,138	17,643,890	4,308.110
Boats	370,200	123,250	80,650	311.100
Building Materials	3,122,237	10,438,248	11,784,590	23,950,812
Canned Goods	9,373,860	10,875,935	16,984,884	16,278,538
Cement	4,787,334	8,480,550	10,634,050	3,409,400
Christmas Trees	54,000	16,000	551,410	285,000
Compressed Gas	1,232,000	226,000	1,658,610	2,108,800
Construction Equipment	861.489	143,215	333,500	198,000
Dairy Products	5,452,500	8,768,717	12,238,408	8,173,125
Drug & Laundry Products	3,177,833	2,170,434	3,002,111	2,427,010
Dynamite & Powder	1,439,676	1,461,182	10,319,006	12,960,487
Fertilizer	2,466,785	4,878,630	5,266,971	6,824,910
Fish	8,311,424	10,497,685	10,831.985	13,628,227
Frozen Foods	23,286,798	36,735,066	47,563,349	46,354,745
Furniture	170,000	294,000	494,100	194,500
Grain	425,000	45,000	92,000	
Groceries	17,408,300	21,427,277	27,718,323	24,485,988
Gasoline (Gas & Oil)	3,538,395	2,951,750	1,521,300	483,059
General Freight	44,006,488	152,680,746	330,535,144	387,724,660
Household Goods	15,642,934	19,164,704	16,423,805	17,556,452
Hardware	2,553,100	388,855	137,000	
Livestock	322,200	5,642,930	1,728,125	3,173,915
Lumber	37,454,129	51,845,906	54,675,503	62,898,593
Meat	3,747,391	4,492,704	4,448,636	3,250,058
Machinery	9,245,470	14,719,776	14,399,900	20,807,379
Mine Equipment	144,000	887,500	69,450	
Molasses	2,045,200	2,342,540	4,246,970	3,897,080
Nursery Products	3,739,815	7,460,304	6,988,952	11,313,321
Oils & Kerosene	79,000	167,000	40,000	132,500
Packing House Supplies	270,500			
Pipe	1,043,277	2,205,400	1,952,329	2,467,050
Poles & Posts	2,385,210	1,260,500	1,643,500	1,462,250
Poultry & Eggs	334,600	239,100	592,611	1,010,300
Seeds	3,551,383	4,661,880	6,286,684	11,955,782
Stock Feed	1,048,600	1,222,510	865,000	2,125,010
Steel	2,629,891	7,214,378	6,257,525	8,883,465
Trailers & Parts	16,000	152,800	408,250	247,100
Twj	657,000	6,940,800	761,500	1,187,550
Total Pounds	235,735,730	428,570,084	643,167,102	735,607,306

WEIGHTS AND MEASURES DIVISION

During the past biennium, the inspectors for the Montana Weights and Measures Division, spent many hours on nonroutine assignments, such as, collecting delinquent petroleum dealers' licenses, calibrating weights for industry, calibrating farm milk tanks, also spending much time on quantity control of pre-packaged commodities.

The consuming public seldom realizes when anyone makes a purchase at the food store, fills his tank with gasoline at the service station, buys or sells any merchandise by weight or measure, the transaction is not only between himself and the vendor. To many, it may be a surprise to know that every such transaction is participated in by a third man--even though he is not present in person. The third man is a Weights and Measures' official or inspector who checks all weighing and measuring devices used commercially in the state of Montana.

The inspector must be a person of numerous abilities. He must be mathematically intelligent, honest and dedicated.

During the past year, most of the inspectors were enrolled in a home-study course, which was provided them free of charge by the National Bureau of Standards.

These officials also have a staggering amount of responsibility placed on them. Not only are they responsible for the several thousand dollars worth of equipment which they must use, but also for the accuracy of the devices which they test.

The value of the work performed by these field inspectors is difficult to visualize, but we must realize that the laws which the weights and Measures' officials are required to enforce, apply to all levels of commercial exchange. They apply when goods are exchanged between farmers and ranchers and processors, manufacturers and distributors, wholesalers and retailers, retailer and consumer.

As a result of the above stated transactions, the following is a list of work performed by the Division of Weights and Measures from July 1, 1954 through June 30, 1955, so that equity may prevail:

	<u>Tested</u>	<u>Rejected</u>
Scales	1,044	522
Retail Pumps	6,221	254
Wholesale Meters	1,301	120
L.P. Gas Meters	178	26
packages	2,420	1,374
	<u>Calibration</u>	
Measures	13	
Crivers	10	
Weights	502	
Milk Tanks	21	
Bollies	7	

DEPARTMENT OF AGRICULTURE

PERIOD: July 1, 1964 to June 30, 1965

TOTAL FUNDS AVAILABLE July 1, 1964 to June 30, 1965

510-3	<u>Administration (General)</u>		
	Administration	63,588.00	
	Agricultural Statistics	14,694.00	
	Commercial Feed & Fertilizer	37,907.62	
	Dairy	55,227.59	
	Horticulture	106,453.26	
	Weights and Measures	29,274.27	
	Real Estate	<u>128.30</u>	\$409,352.22
510-4	<u>Capital</u>		
	Administration	400.33	
	Agricultural Statistics	-----	
	Commercial Feed & Fertilizer	3,423.51	
	Dairy	532.74	
	Horticulture	475.00	
	Weights and Measures	<u>6,126.52</u>	11,024.01
297-2	Horticulture		7,005.00
510-5	Cherry Orchard Disease Control		10,000.00
719200	Revolving Fund		30,615.12
306-1	Grain Laboratories		192,570.35
306-2	Grain Laboratories - Capital		5,965.50
307-1	Research Marketing		<u>14,752.07</u>
	<u>TOTAL APPROPRIATED FUNDS AVAILABLE</u>		\$691,365.31

EXPENDITURES

510-3	<u>Administration (General)</u>		(Trans. Out)
	Administration	64,265.78	
	Agricultural Statistics	14,451.48	
	Commercial Feed & Fertilizer	34,872.93	
	Dairy	52,312.40	14.90
	Horticulture	145,134.32	748.43
	Weights and Measures	74,621.57	227.00
	Real Estate	<u>128.30</u>	<u>128.30</u>
			\$385,051.22
510-4	<u>Capital</u>		
	Administration	-----	
	Commercial Feed & Fertilizer	2,525.07	
	Dairy	349.50	
	Horticulture	474.00	
	Weights and Measures	<u>5,088.12</u>	9,337.29
297-2	Horticulture		6,995.00
510-5	Cherry Orchard Disease Control		9,920.00
719200	Revolving Fund		
	Dairy	5,381.00	
	Weights and Measures	<u>18,293.88</u>	24,165.74

EXPENDITURES (Continued)

306-1	Grain Laboratories			
	Great Falls (including Shelly)	132,070.54		
	Harlowton	13,092.77	193.42	
	Shelly	<u>27,233.63</u>		\$177,996.94
306-2	Grain Laboratories			
	Great Falls	3,723.99		
	Harlowton	<u>234.10</u>		3,957.78
307-1	Research Marketing			
	Agricultural Statistics	7,235.40		
	Dairy	<u>4,765.15</u>		12,000.55
TOTAL EXPENDITURES				<u>\$610,032.12</u>

BALANCES - APPROPRIATED FUNDS

510-3	<u>Administration (General)</u>			
	Administration	19,401.00		
	Agricultural Statistics	242.56		
	Commercial Feed & Fertilizer	3,034.69		
	Dairy	2,900.51		
	Horticulture	2,572.53		
	Weights and Measures	<u>14,425.40</u>		\$ 42,576.77
510-4	<u>Capital</u>			
	Administration	48.13		
	Commercial Feed & Fertilizer	507.91		
	Dairy	163.20		
	Horticulture	1.00		
	Weights and Measures	<u>138.40</u>		\$ 1,057.64
297-2	Horticulture			10.00
510-5	Cherry Orchard Disease Control			80.00
719200	Revolving Fund			12,449.34
306-1	Grain Laboratories			14,574.90
306-2	Grain Laboratories			2,031.00
307-1	Research Marketing			<u>6,751.52</u>
				\$ 40,031.14

DISBURSEMENTS - Capital and Operation

Administration		44,265.71
Agricultural Statistics		21,686.11
Commercial Feed & Fertilizer		37,391.60
Dairy		63,301.09
Grain Laboratories		
Great Falls	135,794.22	
Harlowton	13,025.17	
Shelly	<u>27,233.63</u>	\$161,954.72
Horticulture		162,523.32
Weights and Measures		<u>98,883.77</u>

TOTALS \$610,032.12

INCOME - July 1, 1964 to June 30, 1965

COMMERCIAL FEES		
Registrations	14,690.00	
Gross Annual Value	5,540.00	
Miscellaneous	<u>235.00</u>	\$ 23,465.00
COMMERCIAL FERTILIZER		17,331.10
DAIRY DIVISION		
Licenses	16,115.50	
Poultry	397.00	
Egg Seals	11,067.42	
Gold Seal	140.00	
"Cook Off"	<u>335.00</u>	31,104.92
GRAIN LABORATORIES		
Great Falls	178,577.64	
Harlowton	<u>13,753.41</u>	202,353.09
GRAIN LICENSES		7,140.00
WEIGHTS AND MEASURES		
Scale Inspections - Regular	28,074.56	
Scale Inspections - Special	12,922.70	
Petroleum	<u>32,042.00</u>	73,049.26
HORTICULTURE		
Inspection Fees	58,101.46	
License fees	<u>9,201.00</u>	68,302.46
MONTANA RURAL REHABILITATION		
Balance - July 1, 1964		37,556.00
Income		24,860.64
Funds Available		67,049.54
New Loans		None
Balance - June 30, 1965		67,049.54

MONTANA REAL ESTATE COMMISSION

Balance - June 30, 1964		30,204.82	
Income			
207000	38,684.26		
General	<u>5,112.59</u>		
		43,996.85	
Total Funds Available			\$ 74,201.67
Disbursements			
Expenses	29,436.02		
Deposited General Fund	5,112.59		
Reversion to General Fund	1,500.00		
Reversion University Endowment Fund	<u>7,742.79</u>		
			43,791.40
Balance - June 30, 1965			\$ 30,410.27

