A 7en Year Study

FARM MANAGEMENT PROGRAM NORTHEASTERN MINNESOTA

Iron Range Resources and Rehabilitation
Commission

in Cooperation with

Minnesota Department of Education Vocational Division

and

University of Minnesota Institute of Agriculture

and

Area Vocational - Technical School

Duluth, Minnesota

September, 1966

STATE OF MINNESOTA Dopartment of IRON RANGE RESOURCES AND REHABILITATION 60 State Office Building St. Paul, Minnesota

--- FOREWORD ---

This report is a summary of a ten year period, 1956 - 1965, for the Farm Management Program in Northeastern Minnesota. It is a cooperative effort between the Iron Range Resources and Rehabilitation; Minnesota Department of Education, Vocational Division; University of Minnesota, Institute of Agriculture; and the Duluth Area Institute of Technology.

It is our hope that a study such as this will assist farmers in the area to improve their present operations by increasing production and raising labor earnings. Also, the trends indicated in this ten year study may point out to some individual cooperating farmer that certain livestock or crop enterprises for his farm should be altered due to consistent lower-than-average participation in the past.

The value of this service to farmers is in the continuous operation of the program over a period of years. Certainly then, we have reached a milestone as the program has now been in operation for its tenth year. With increased importance placed on good records these days it would seem imperative that the Annual Report as we know it be continued and further summary studies such as this one be encouraged.

We wish to commend Robert G. Anderson, Vocational Agriculture Coordinator for the Duluth Area Institute of Technology and Record Analyst, for his interest in this project. This work demands extra time and effort on his part. Also, the success of this report is made possible by the excellent cooperation he has received from the cooperating farmers, by teachers of vocational agriculture, by instructors in the Manpower Development and Training Farm Management classes and by county agents in the area.

This report is offered with the best wishes of this department and with the hope that it will be of some help to farmers and teachers in the area toward a more efficient, successful and prosperous agriculture program.

Copies of this report will be available to anyone interested at no chargo.

A.M. DeYoannes, Commissioner

INTRODUCTION

The Duluth Area Institute of Technology, in cooperation with the University of Minnesota and the Vocational Division of the Minnesota State Department of Education, is charged with the responsibility for operation and maintenance of the Farm Management Program for Northeastern Minnesota. This report is a summary of the first ten years of the program.

The main purposes of this ten year study are: (1.) To indicate trends in the area that may point up the success or failure of certain crop or livestock enterprises over the years. (2.) To help individual cooperating farmers and others interpret their operations in relation to the averages. (3.) To encourage more farmers in the area to participate in a complete record keeping and analysis program.

This ten year study was completed under the direction of Robert G. Anderson, Area Vo Ag Program Coordinator and record analyst for the Duluth Area Institute of Technology. Clerical assistance was provided by Mrs. Sandra Wrenfrow and Mrs. Ruth Nordstrom. Financial assistance was provided by the Iron Range Resources and Rehabilitation Commission.

Directing locally in a supervisory capacity were: Dr. L.V. Rasmussen, Superintendent of the Duluth Public Schools and Mr. Harold D. Hill, Director of Vocational and Adult Education for the Area Institute of Technology in Duluth.

Cooperating agencies were represented by:
Mr. G.R. Cochran, Mr. S.K. Wick and Mr. Robert
Van Tries of the State Department of Education,
Vocational Division; Dr. Milo Peterson, Dr. Edgar
Persons and Dr. Paul Marvin of the University of
Minnesota Ag Education Department and Dr. Truman
Nodland of the University's Ag Economics Department.

We are sincerely grateful to Mr. A.M. DeYoannes, Commissioner of the Iron Range Resources

and Rehabilitation Commission, and the Commission as a whole for their interest and financial assistance in the Farm Management Program in Northeastern Minnesota. We are especially thankful this year when additional funds were made available to complete this ten year study. Their cooperation has been excellent.

Special thanks are also extended to Mr. Art Vieira, printing instructor for the Duluth Public Schools, and to his class for their wonderful work in the publishing of this report.

Many things are changing in the agricultural production field. In farm accounting and analysiswe have moved from the "hand" method of computing the analysis to electronic data processing procedures. We have used the new method now for two years and are excited about what we can look forward to in the future. It appears that this process holds great potential for our program, giving more accuracy, saving much time and enlarging our outreach far beyond what we are now doing.

This report deals with farmers enrolled in farm management classesin fifteen (15) counties as shown on the Minnesota outline map on the inside cover of this report. These counties and the number of cooperating farmers over the ten year period are as follows:

Becker	20	Koochiching	23
Beltrami	3	Lake O' Woods	7
Carlton	20	Ottertail	6
Cass	30	Pine	14
Clearwater	6	St. Louis	21
Crow Wing	1	Todd	85
Hubbard	34	Wadena	30
Itasca	7		

Many of the above are no longer on the program for various reasons. Two cooperators, Walter Reyer, Staples, and L.R. Johnson, Meadowlands, have been enrolled every year for the past ten years. Twenty nine (29) cooperators have been enrolled for from 5 - 10 years some not currently enrolled, however.

Introduction continued:

Vocational Agriculture teachers and County Agents in the area are the key to impossible success that has been achieved in this program. Those who have been cooperating over the years are as follows:

Vo Ag Teachers Robert G. Anderson Kenneth Ostlund Robert P. Johnson Dalton Seeling Elmer Fragodt Ed Takala Gerhard Erickson Sulo Ojakangas Richard Mitton Wilho Kemp Leo Wilenius Sherrill Robinson Clayton Bray Robert Underwood Martin Klingenberg C.V. Williams William Guelker Erwin Prachar Rav Collen Anthony Grebenc Don Gustafson Raymond White Delbert Harrington Einard Waisanen Donald Larsen Lennen Naley Don Ericson Donald Barstad Chris Back Paul Jourdan Earl Koeberl Wil Meierhofer Rodger Palmer David Skorseth

County Agents
Sig Restad
Arnold Heikkala
John Eix
Art Frick
Robert Asheman
J.O. Jacobson
David Radford
George Saksa
Otto Lee
Kenneth Hallbach
Glen Smith
Miles Rowe

Special tribute is due to Leo Keskinen, the first Vo Ag Coordinator in the Duluth area, for his diligent work in getting the program started in Northeastern Minnesota. He served as coordinator and record analyst until 1963, when Robert G. Anderson, present coordinator assumed the position. Also, Nellie Hopper, clerical assistant for Leo for many years, is due much credit for her contribution to the program. Leo is now serving as Director of the Area Vocational School in Grand Rapids.

Mr. Gust Neubauer, deceased, served as field man for the program for sveral years in its infancy and was instrumental in helping the program move along when the going was difficult.

Note is made here of the year 1965 in regard to the Study. During this year there were enrolled about seventy lower income families under the MDTA Farmer—General program. It will be noticed that that this enrollment influenced various parts of the report and this factor should be borne in mind when the study is reviewed.

THIS PUBLICATION IS DEDICATED TO:





Mr. and Mrs. Walter Reyer — Staples, Minnesota

These two farm couples have been on the N. E. Farm Management Program every year since its beginning in 1956. They have been excellent cooperators and have given unselfishly of their time and record information so that others may be helped. For many years the Reyer operation was used as an instructional tool for Vocational Agriculture students in various area high schools

Mr. and Mrs. L. R. Johnson — Meadowlands, Minn.

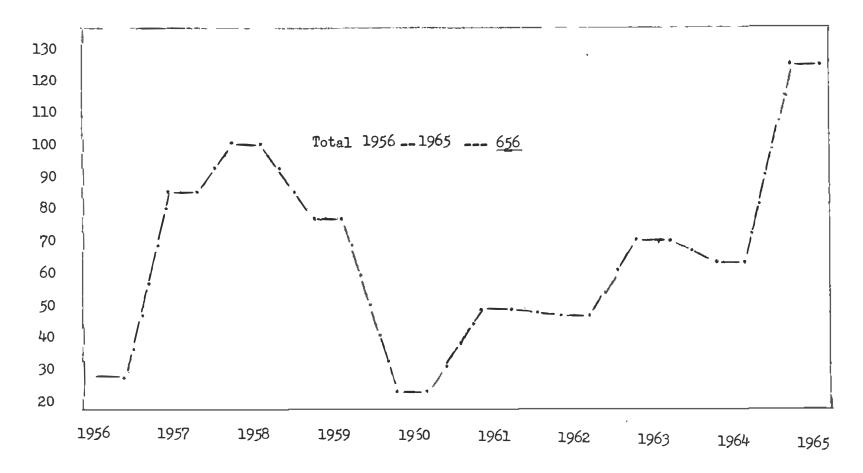
where the fundamentals of account book keeping and analysis data were learned. Currently, the Johnson farm is being used for a similar purpose.

Mr. and Mrs. Reyer, Mr. and Mrs. Johnson—we salute you and hope that you have gained as much from the program as you have contributed. We all say "thanks"!!

TABLE OF CONTENTS

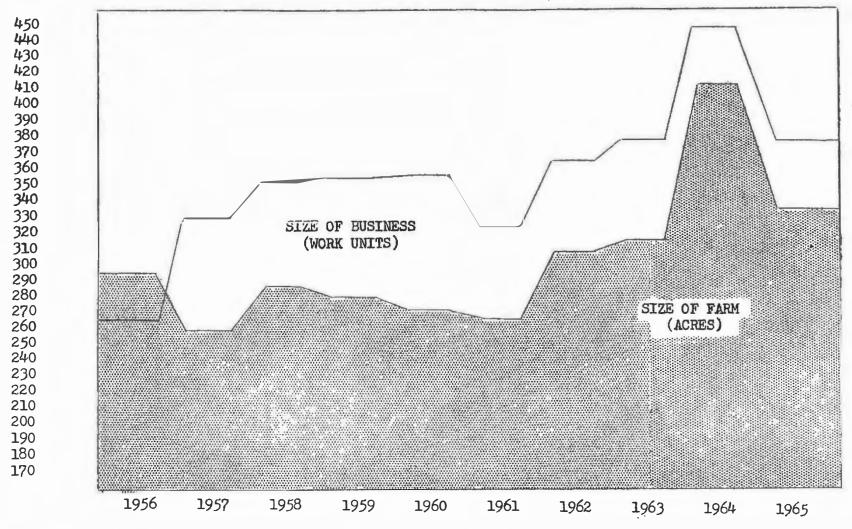
	Page number
Foreword	XXX
Introduction	1.2
Dedication	3
Number of Cooperating Farmers	3 4 5 6
Size of Farms, Size of Farm Business	5
Farm Capital and Net Worth	6
Farm Assets and Liabilities	7
Farm Receipts and Expenses	7 8
Labor Earnings and Return to Capital & Labor	
Percent of Gross Receipts Saved as Return to Capital & Labor	. 16
Estimated Return per Hour Operator	11
Ten Year Thermometer Chart	12
Labor Earnings & Excelled Factors	13
Number of Organization and Efficiency Factors	14
Household and Personal Expenditures as Compared to	
Return to Capital & Family Labor	1 5
Factors Related to the Dairy Enterprise	16-20
Factors Related to the Hog Enterprise	21-23
Factors Related to the Beef Enterprise	24-26
Factors Related to the Sheep Enterprise	27,28
Factors Related to the Chicken Enterprise	5, 5
Cropping History	30
Fertilizer Bought	n
Summary of Averages	32
1956 - 1965 in a "Capsule"	29 30 31 32 33

NUMBER OF COOPERATING FARMERS



^{*} Average number cooperators for the 10 year period --- 66
Low in 1960 partly due to IRRRC funds were not available
High in 1965 in part due to additional Manpower Development & Training Cooperators

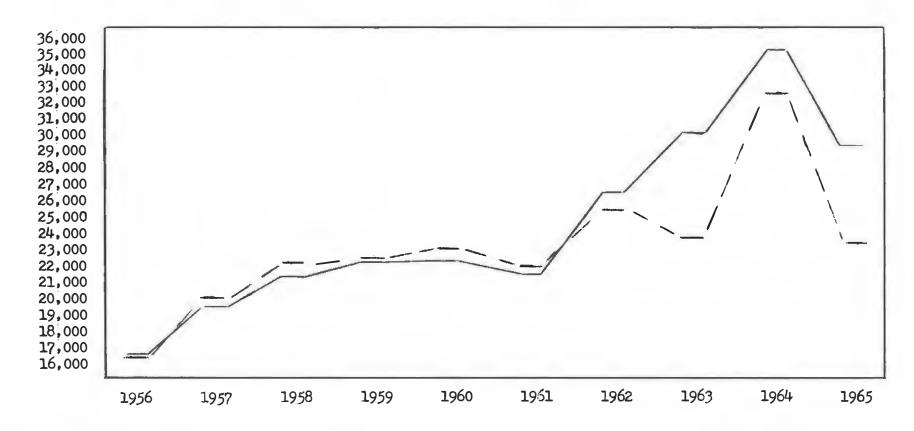
SIZE OF FARM (ACRES)
AND
SIZE OF BUSINESS (WORK UNITS)*



^{*}Work Unit - A normal 10 hour day put in by an average worker.

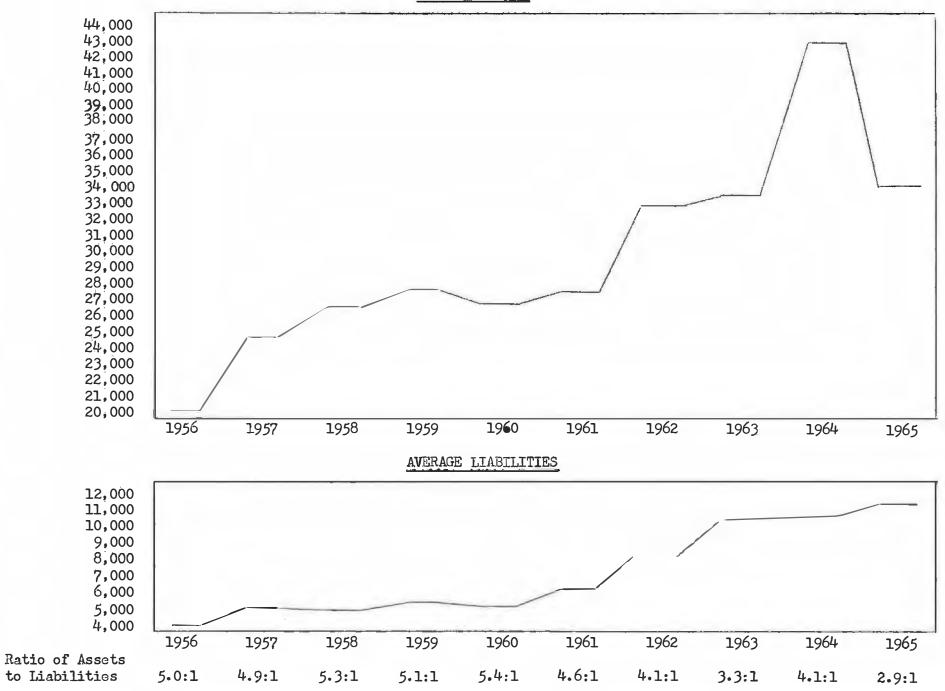
(Total determined by assigning a specific number of work units to various classes of livestock and crops.)

FARM CAPITAL AND NET WORTH

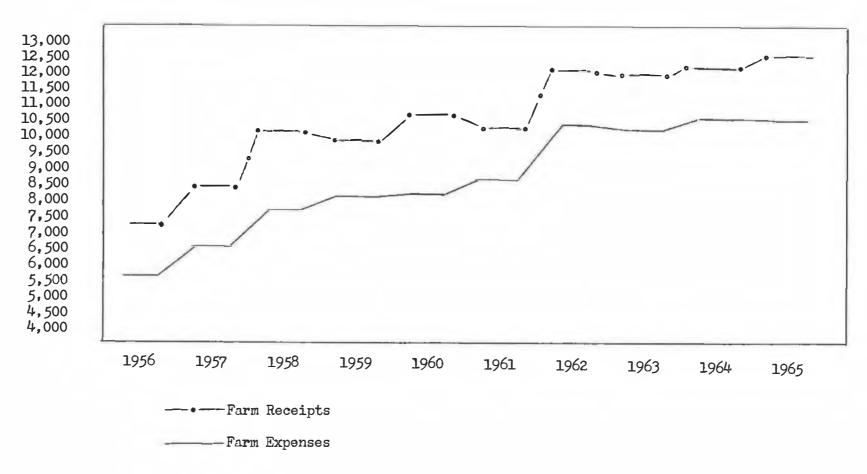


Farm Capital Net Worth

AVERAGE ASSETS



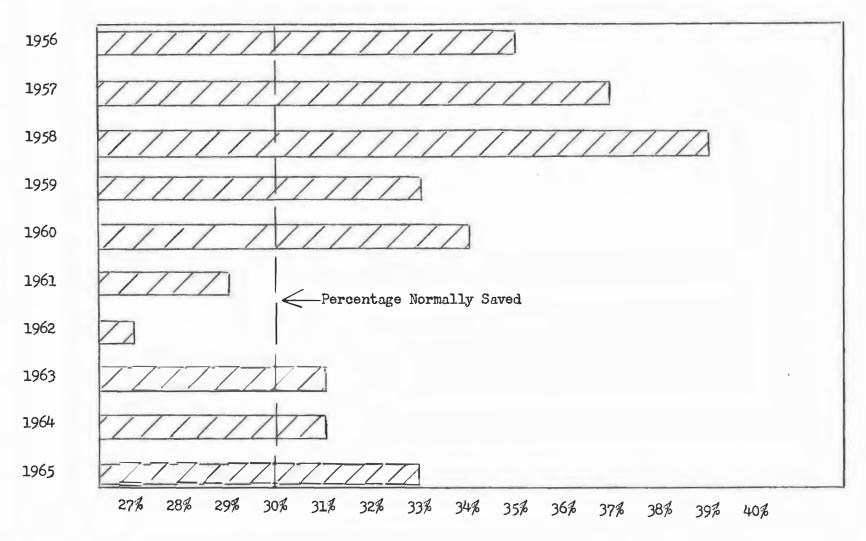
FARM RECEIPTS AND EXPENSES



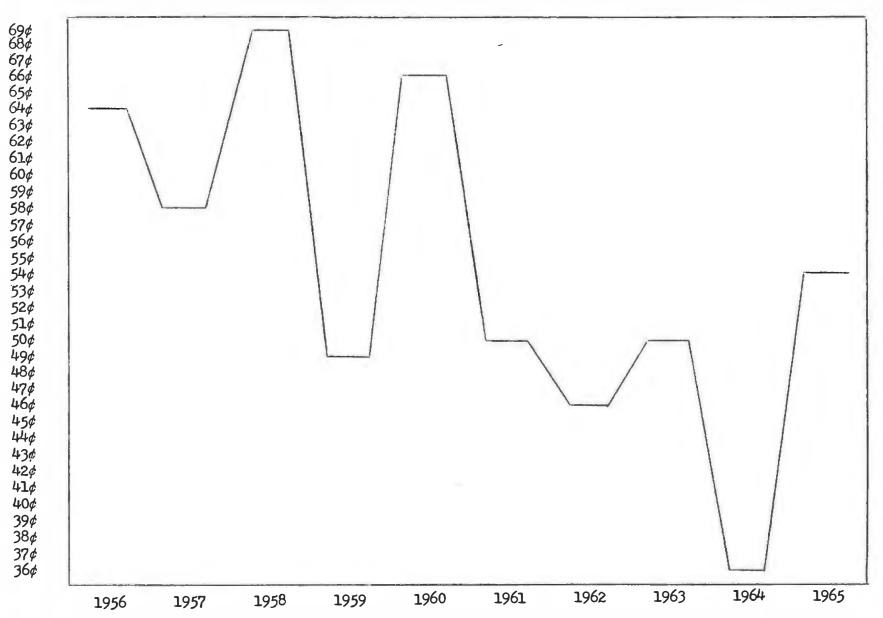
LABOR EARNINGS
AND
RETURN TO CAPITAL AND FAMILY LABOR



PERCENT OF GROSS RECEIPTS SAVED AS RETURN TO CAPITAL AND LABOR



ESTIMATED RETURN PER HOUR -- OPERATOR



LABOR EARNINGS CORRELATED WITH EXCELLED FACTORS*

AVERAGE 1958-1965

This graph draws attention to the fact that farmers who exceed the average in one or more of the seven efficiency factors also report higher labor earnings.

No. of factors in which farmers	Average No. of	AVERAGE LABOR EARNINGS								
excelled	Farms	0	1	1000	1	2000	1	3000	1	4000
0 or 1	12	\$5	513							
2 or 3	24			\$1	,507					
4 or 5	25					\$2	.482			
6.or 7	8							\$3	,625	

2. Choice of Crops

3. Returns From Livestock

4. Amount of Livestock

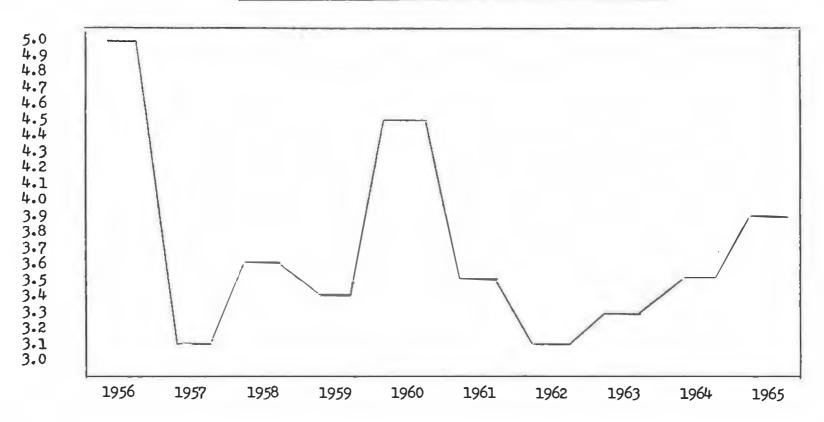
5. Size of Business

6. Work Units Per Worker

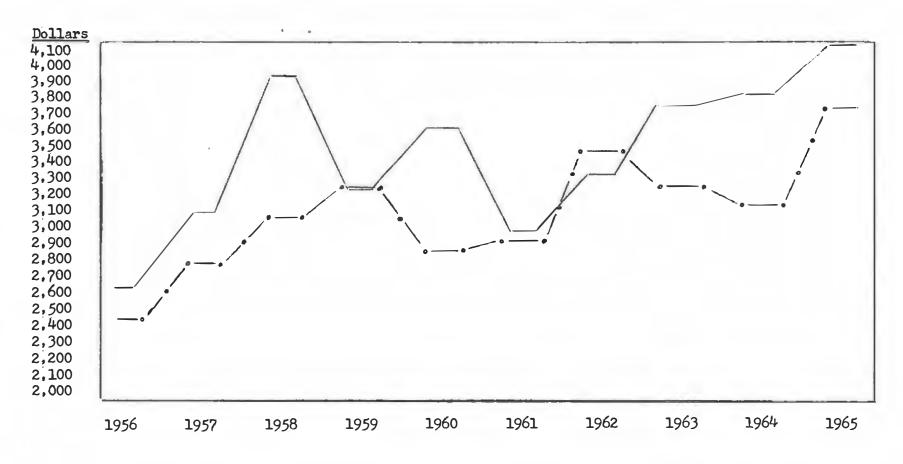
7. Control Over Expenses

^{*1.} Crop Yields

AVERAGE NUMBER OF ORGANIZATION AND EFFICIENCY FACTORS



HOUSEHOLD AND PERSONAL EXPENSE COMPARED WITH RETURN TO CAPITAL AND LABOR



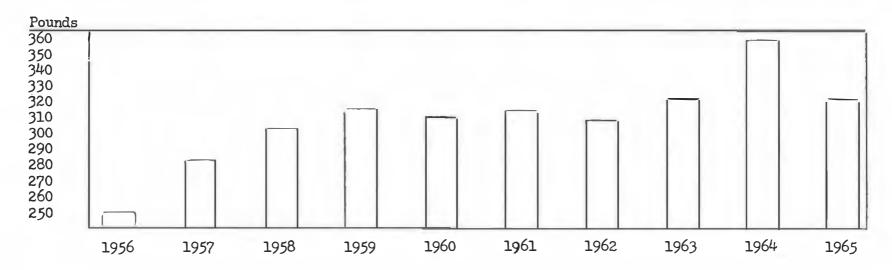
— . — Total Cash Expense and Perquisities

_____Return to Capital and Labor

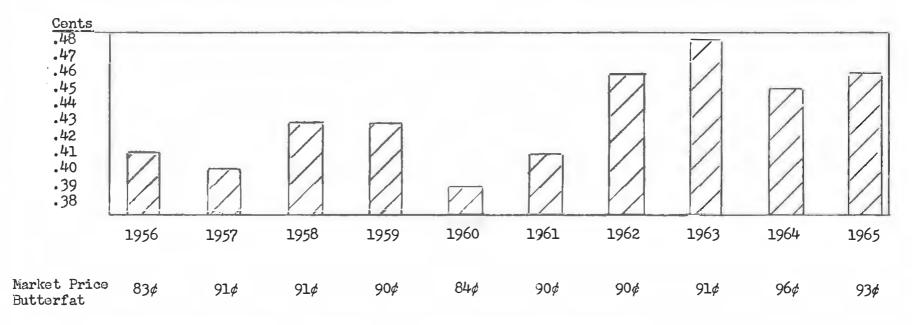
FACTORS RELATED TO THE DAIRY ENTERPRISE

	1956	1957	<u> 1958</u>	1959	<u>1960</u>	1961	1962	1963	1964	1965
No. of Head	17.5	17.9	18.3	19.5	21.2	18.8	20.4	23.3	24.7	23.4
Lbs. BF Per Cow	251	283	306	315	311	315	310	323	360	322
Lbs. of Milk Per Cow				8482	7964	8309	8267	8997	9621	8819
Feed Cost Per Cow	\$ 97.63	113.74	129.04	135.55	120.53	130.42	139.80	153.18	162.64	150.03
Total Value Produced	\$213.97	271.05	297.62	293.78	272.32	287.96	279.97	286.82	342.36	290.87
Return Over Food	\$116.34	157.31	168.58	158.23	151.79	157.54	140.17	133.64	179.72	140.84
Return For \$100 of Feed	\$235.00	263.00	241.00	217.00	227.00	221.00	200.00	187.00	210.50	193.80
Feed Cost Per Lb. BF	\$.41	.40	.43	.43	•39	.41	.46	.48	.45	.46
Total Sales, Dairy Products	\$3250.00	4470.00	4830.53	5106.00	4361.00	5068.00	4794.00	5201.00	6031.00	5622.00
Livestock Sales, Dairy	\$698.00	971.00	1369-54	1322.00	1077.00	977.00	1173.00	1162.00	1008.00	1404.00
No. of Cooperating Farmers in the Dairy Enterprise	22	71	89	71	17	39	32	49	38	88

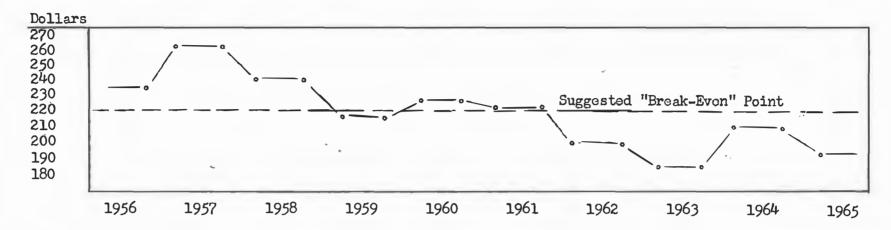
POUNDS OF BUTTERFAT PER COW



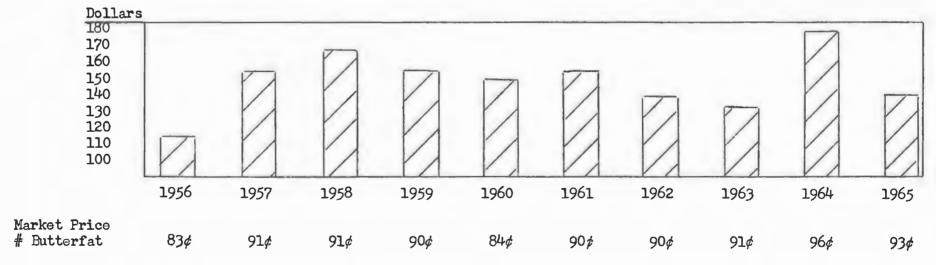
FEED COST PER POUND BUTTERFAT



RETURN FOR \$100 OF FEED FED TO DAIRY



RETURNS OVER FEED COSTS PER DAIRY COW

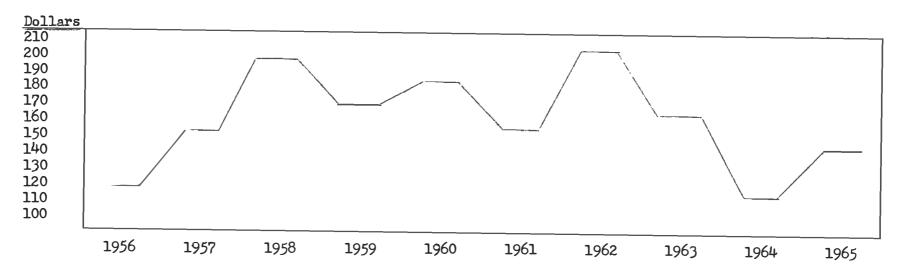


*Break-Even Point -- A Return for \$100 feed that will cover all costs including labor.

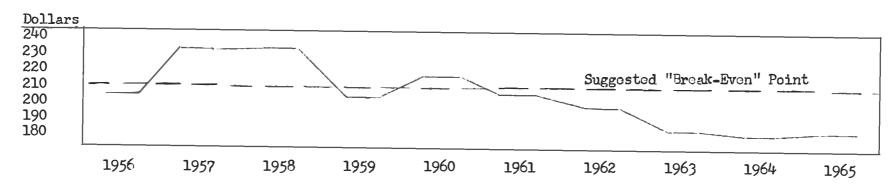
FACTORS RELATED TO THE OTHER DAIRY ENTERPRISE

	1956	<u> 1957</u>	<u> 1958</u>	1959	<u>19</u> 60	1 <u>9</u> 61	1 <u>9</u> 62	1963	<u> 1964</u>	<u> 1965</u>	
Net Inc. in Value	\$ 48.09	55.75	78.26	77 • 59	79.18	75.36	87.71	73.83	49.97	66.98	
Total Feed Costs	\$ 43.79	40.27	44.03	45.27	46.60	47.74	42.67	44.19	43.07	45.33	
Returns Above Feed Costs	\$ 4.30	15.48	34.23	32.32	32.58	27.62	45.04	29.64	6.90	21.65	
Returns for \$100 of Feed	\$120.00	154.00	199.00	171.00	188.00	158.00	206.00	167.00	116.02	147.76	
No. of Head	19.9	18.5	18.9	20.5	21.3	20.8	25.1	25.8	29.7	27.2	
No. of Cooperating Farmers in the Other Dairy Enter		71	91	74	17	39	32	49	39	85	
FACTORS RELATED TO THE ALL DAIRY ENTERPRISE											
Value of Produce	\$161 <i>.5</i> 7	211.51	248.47	240.91	229.57	236.65	372.01	231.53	248.07	222.19	
Total Feed Costs	\$ 82.17	95.76	111.50	116.16	106.13	113.68	186.17	125.10	137.10	151.99	
Returns over Feed Costs	\$ 79.40	115.75	136.97	124.75	123.44	122.97	185.85	106.43	110.97	70.20	
Returns for \$100 of Feed	\$207.00	234.00	235.00	207.00	219.00	208.00	200.00	185.00	180.94	146.19	
Animal Units of Cattle	27.6	27.4	27.6	29.8	32.0	28.9	32.9	36.4	38.8	31.9	
No. of Cooperating Farmers in the All Dairy Enterpr		71	90	72	17	39	32	49	39	88	

RETURN FOR \$100 OF FEED FED TO OTHER DAIRY

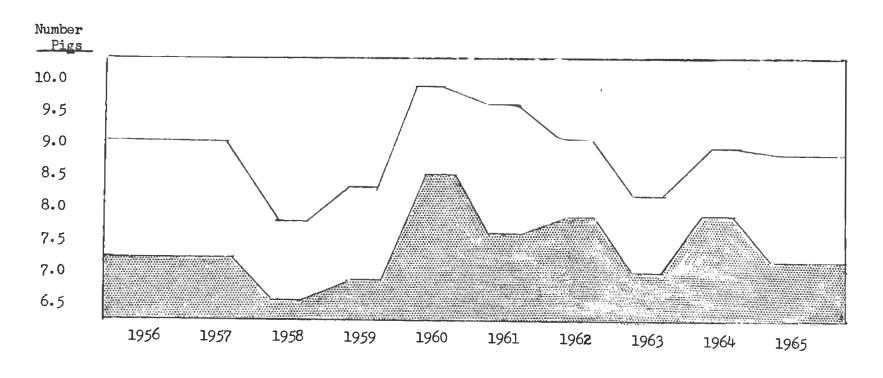


RETURN FOR \$100 OF FEED FED TO ALL DAIRY



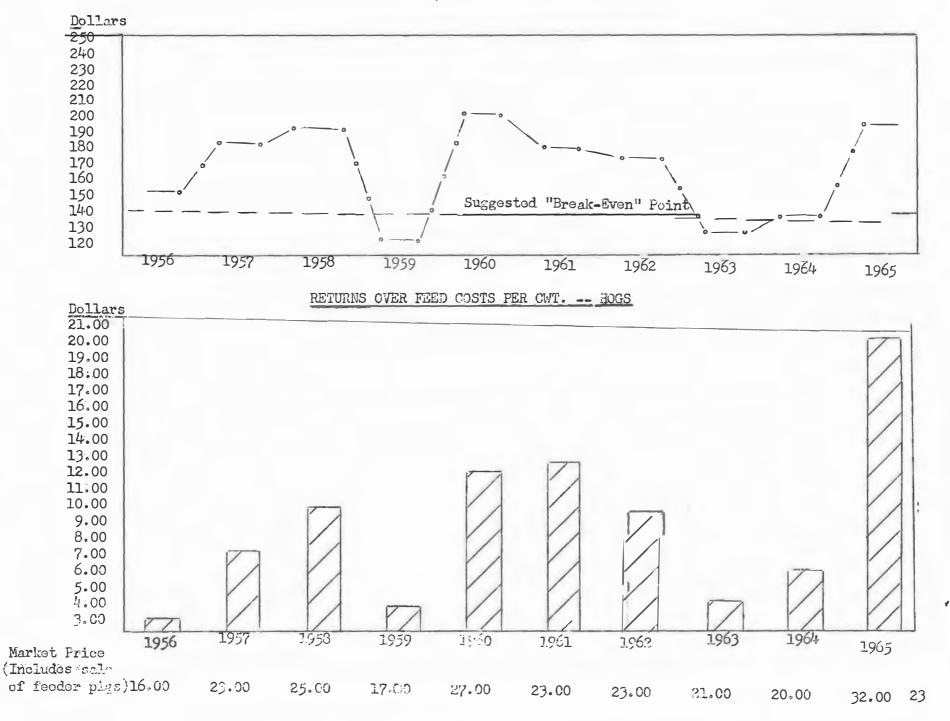
FACT	ORS RELAT			RPRISE					41	
Feed Cost per Cwt.	\$ 13.78	1957 13.62	1958 12.94	<u>1959</u> 1507	1960 12.60	1961 15.06	1962 12.41	196 <u>3</u> 14.68	1964 14.10	1 <u>965</u> 14.32
Net IncDec. in Value Per Cwt.	\$ 17.24	21.50	23.27	19.38	25.19	28.15	22.40	19.31	20.46	34.97
Ret. Over Feed Costs per Cwt.	\$ 3.71	7.88	10.33	4.31	12.59	13.09	9•99	4.63	6.36	20.65
Ret. for \$100 Feed	\$156.00	194.00	197.00	120.00	208.00	186.00	180.00	132.00	145.11	-244.20
Price Rec. per Cwt.	15:51	22.92	24.97	16.76	26.88	23.03	22.93	21.00	19.85	32.20
Total Value, Hogs Sold	\$581.00	495.00	1118.00	941.00	1117.00	1673.00	1313.00	739.00	511.00	797.00
No. of Litters Raised	2.8	11.2	13.0	16.0	22.0	24.9	23•9	18.8	20.0	25.0
Pigs Born per Litter	9.0	9.0	7.7	8.2	10.0	9•5	9.3	8.1	8.9	8,8
Pigs Raised per Litter	7.3	7.3	6.5	6.8	8.5	7.5	7.8	7.0	7.8	7.3
Pounds of Pork Produce	d 5718	6530	9929	13468	11186	12402	13300	8685	12709	10896
No. of Cooperating Farmers in Hog Enter	• 10	26	40	35	10	23	18	29	10	17

PIGS BORN PER LITTER AND PIGS RAISED PER LITTER



Pigs Born Per Litter

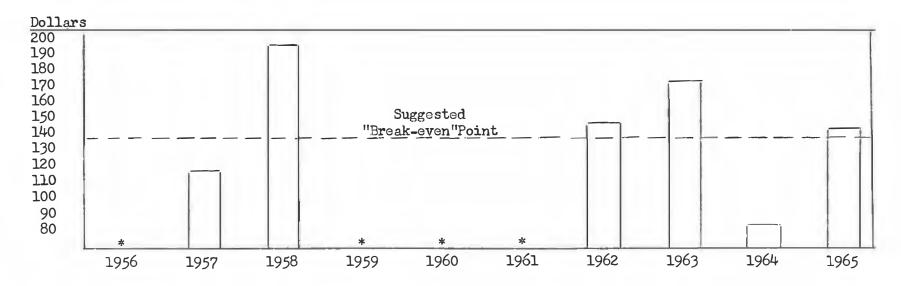
Pigs Raised Per Litter



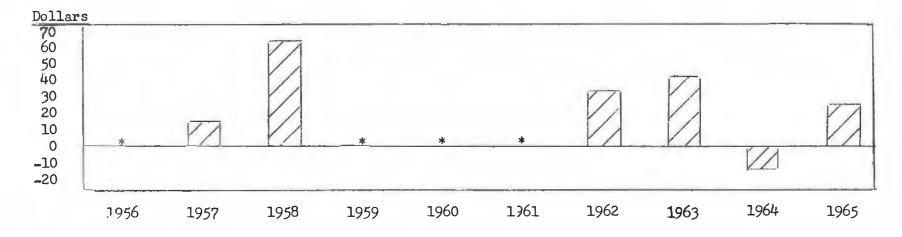
FACTORS RELATED TO THE BEEF ENTERPRISE

Beef Breeding Herd Feed Costs Per Animal Unit	<u>1956</u>	<u>1957</u> \$111.30	<u>1958</u> 75•53	<u>1959</u>	<u>1960</u>	<u>1961</u>	<u>1962</u> 71•34	1963 5 8. 63	1964 67•74	<u>1965</u> 64.01
Net Inc. in Value of Animals		\$121.94	142.58		CTE NATE		105.32	100.93	55•95	90.72
Rets. Above Feed Cost Per A/U	TOTAL SHARE	\$10.64	67.05				33.98	42.30	(-11.79)	26.71
Return for \$100 Feed		\$16.00	196.00				147.00	172.00	82.57	141.68
No. of Cows & Bulls								36.3	82.8	47.3
No. of Animal Units		14.4	13.4				33•7	38.4	70.9	52.3
Pounds of Beef Produced				w8 48h					25660	23067
All Beef Sales (Incl. Feeders)		\$88.00	234.36	65.00	135.00	79.00	1060.00	718.00	943.00	559.00
No. of Cooperating Farmers in the Beef Breeding Enterprise	~	Ţŧ.	9		***		6	11	6	16
Feeder Cattle Feed Costs Per Cwt.								\$ 10.21	9.51	11.20
Net Inc. in Value of Animals	No Bo	eef Feeder	s Report	ed 1956.	-1962		1	\$ 14.16	18.76	18.41
Rets. Above Feed Cost Per Cwt.								\$. 3.95	9.25	7.21
Return for \$100 of Feed								\$139.00	197.15	164.40
Price Paid Cwt. Beef Bought								\$ 22.80		3•59
Price Received for Beef Sold								\$ 18.59	17.87	18.34
Avorage Cwts.								66.9	31.7	23.6
Pounds of Beef Produced								63455	21447	15550
Cooperating Farmers in Feeders								5	4	24 8

RETURN FOR \$100 OF FEED BEEF BREEDING

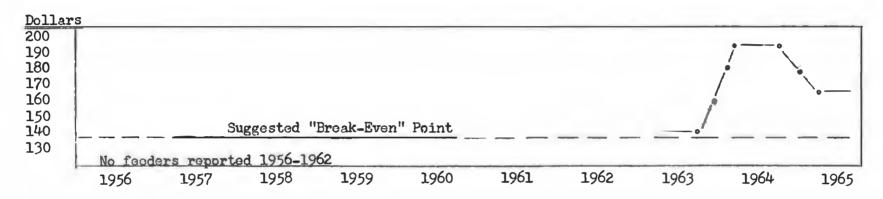


RETURNS OVER FEED COSTS
BEEF BREEDING

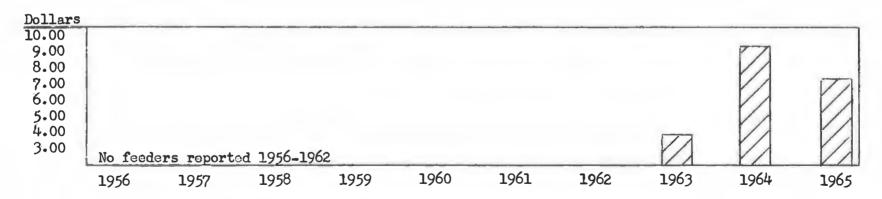


^{*}No Beef Reported

RETURN FOR \$100 OF FEED FEEDER CATTLE



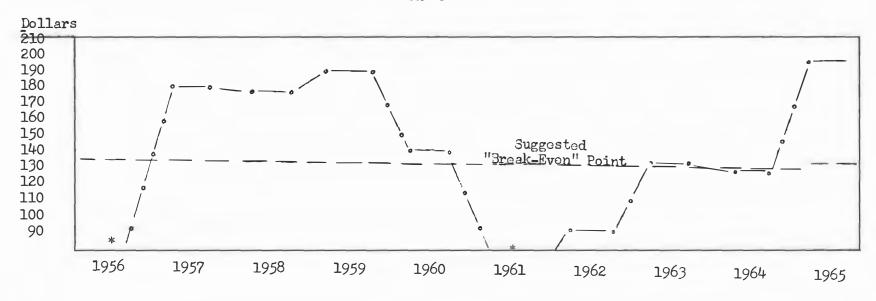
RETURN OVER FEED COSTS FEEDER CATTLE



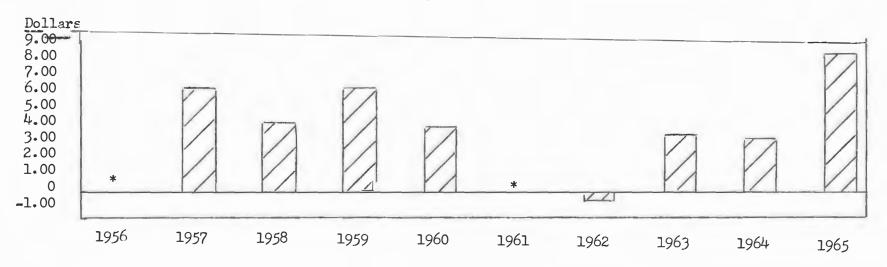
FACTORS RELATED TO THE SHEEP ENTERPRISE

	1956	<u> 1957</u>	1958	1959	1960	1961	1962	1963	1964	<u> 1965</u>
Feed Costs Per Ewe	000 440	\$ 10.41	9.42	6.95	9.90	40 62	11.71	9.61	10.46	8.34
Total Value Produced		\$ 16.81	13.78	13.38	13.92		11.23	13.31	14.12	16.92
Rets. Above Feed Cost Per Head		\$ 6.40	4.35	6.43	4.02	₩ →	(48)	3.70	3.66	8.58
Return for \$100 of Feed	an w	\$181.00	179.00	193.00	143.00	450 4139	96.00	138.00	134.97	203.00
Price Per Cwt. Lamb Sold			49 49		== 4 0				\$ 19.32	18.05
Price Per Lb. wool Sold		£00 400						atica casti	\$.66	• 59
Pounds of Wool Per Sheep Shear	ed					w a		ᇣᄦ	7.4	7.2
No. Ewes Kept for Lambing						n.a) esb		-	35.2	50.7
Percent Lamb Crop	***		equa						118.2	117.0
Percent Death Loss			∞			⇔ œ	÷		29.6	26.9
Average No. of Ewes		45.8	56.4	67.8	54.8		48.0	40.3	36.9	55•9
Sheep and Wool Sales \$ 3	9.00	69.00	89.56	123.00	120.00	84.00	70.00	100.00	97.00	123.00
No. of Cooperating Farmers in the Shoep Enterprise		6	12	10	3		4	9	6	12

RETURN FOR \$100 OF FEED SHEEP



RETURN OVER FEED COST3 SHEEP



*No Sheep Reported

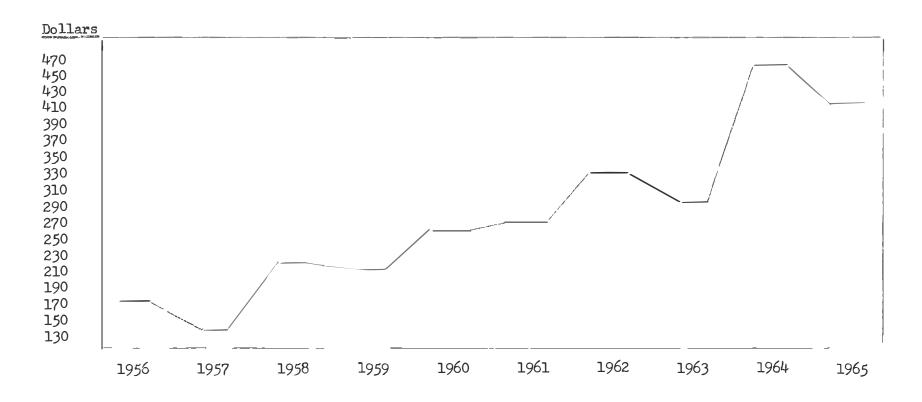
FACTORS	RELATED	TO	THE	CHICKEN	ENTERPRISE
			_		

				: '							
		1956	1957	1958	1959	1960	1961	1962	1963	1964	1965
Total Feed Cost Per Hen	\$	4.28	3.75	4.30	3.24	-		4.18	4.41		2.38
Total Value Produced	\$	4.75	7.66	6.26	3.28		400 Audi	5.60	4.48		2.63
Ret. Over Feed Cost Per He	en\$	•57	3.91	1.96	.04	-		1.42	.47		.25
Return for \$100 of Feed	\$12	27.00	215.00	190.00	101.00		2 Mar 6.00	134.00	110.00	willer ange.	110.50
Price Per Dozen Eggs Sold	\$	•32	.32	•33	•25		:	.30	•30		26
Eggs Laid Per Hen		137	112	170	123			181	126	; 	102
Average No. Hens		74	71	69	125		-	114	105		225
Percent Death Loss					-				7		10.6%
Chicken Sales	\$ 1	8.00	10.00	16.48	12.00	6.00	3.00	5.00	6.00	20.00	8,• 00
No. of Cooperating Farmers						1					
in the Chicken Interpris		9	18	16	11			3	5	0	4

CROF	PING	HISTORY
		A

Corn Acreage Yield Per A. (Bu.)	1956 12.2 50.0	19 <u>5</u> 7 15.5 35.3	1958 13.1 25.5	1959 17.7 35.6	1960 6.5 52.6	1961 10.0 53.2	1962 11.4 39.2	1963 12.9 53.2	1964 9•9 44•7	196 <u>5</u> 6.1 26.1
Corn Silage Acreage Yield Per A. (Ton)	6.7 6.0	7.7 6.6	11.8 4.7	8.6 6.0	12.4 6.2	11.2	14.5 6.8	15.0 8.6	18.6 6.1	24.2 5.1
Oats Acreage Yield Per A. (Bu.)	17.8 33.0	19.5 36.4	22.5 50.4	23.0 43.6	21.2 46.4	16.1 30.8	22.6 37.2	23.4 37.7	24.6 39.7	23.0 35.6
Alfalfa Hay Acreage Yield Per A. (Ton)	14.4	27.2 1.7	28.7 1.7	26.2 1.9	22.4 1.7	31.1 1.3	37.0 2.0	39.5 1.6	33.1 1.7	29.5 2.1
Other Leg. & Mixes Acreage Yield Per A. (Ton)	21.2 1.8	8.4 1.8	15.8 1.4	25.0 1.3	20.2	29·3 1·3	26.3 1.6	16.2 1.5	56.8 1.2	26.0 1.4
Annual Hay Acreage Yield Por A. (Ton)	11.5	17.9 1.5	12.5	7.4 1.3	6.8 •9	13.1	3.9 1.0	3.7 1.6	लेख च्या कृत्य हरण	5.4 1.2
Legume/Grass Seed Acreage Yield Per A. (Lbs.)	.8 75.0	2.2 88.7	1.9 139.4	1.8 241.2	3.2 207.5		1.3 116.9	3.8 206.3	9•7 70•6	7.1 333.5
Fertilizor (\$)	174	137	225	211	267	274	334	297	467	412
Power, Mach, Equip., Bldg.	7.86	8.33	9.25	9.04	9.31	10.15	9.18	8.81	7•94	7•58

FERTILIZER BOUGHT



SUMMARY OF AVERAGES										
	1956	1957	<u>1958</u>	1959	1960	1961	1962	<u>1963</u>		
Size of Farm (Acres)	296	259	289	280	271	265	309	316		
Total Farm Capital	\$ 16514	19626	21489	22413	22470	21878	26622	30092		
Total Farm Receipts	\$ 7402	8481	10193	9866	10656	10397	12095	12086		
Total Farm Evnonces	¢ 5660	6577	222/1.	8746	8300	0760	10/1/10	10212		

*										
Total Farm Roceipts	\$ 740	02 8481	10193	9866	10656	10397	12095	12086	12175	12582
Total Farm Expenses	\$ 566	6577	7774	8146	8309	8768	10440	10212	10568	10540
Labor Earnings	\$ 17	33 1904	2419	1720	2347	1629	1655	1874	1607	2042
Return to Capital & Labor	\$ 26	19 3099	3940	3237	3609	2981	3310	3767	3809	4125
Percent Tillable Land in HRC	23.9	9% 33.5%	35.8%	37.9%	38.7%	43.2%	48.7%	47.7%	43.1%	48.1%
Productive Livestock Units per 100 Acres	14	.2 19.4	18.6	21.5	24.7	22.6	23.1	21.9	20.3	17.3
Size of Business (Work Units)	2'	71 329	351	354	356	323	364	378	449	376
Work Units Por Worker	_ 2	03 226	245	247	243	235	250	261	251	237
Power, Mach, Eq. & Bldg. Exp. per Work Unit	\$ 7.	36 8 . 33	9.25	9.04	9.31	10.15	9.18	8.81	7.94	7.58
Averages (Acres): Small Grains Cultivated Crops Till. land in Hay Tillable Pasture Percent of Land Tillable	18 24 <i>5</i> 3 19	.1 25.2 .4 64.0 .9 9.9	27.1 66.5 15.6	30.4 26.8 63.8 15.5	29.0 19.8 68.3 18.1	23.9 21.7 76.2 14.7	29.6 25.9 71.3 19.4	32.3 28.1 69.9 19.6	38.4 35.4 99.6 24.7	29.9 33.1 68.0 20.6
	, , , ,	2,0 1,00%) 	<i>)</i> ~• 0/0	J~ • J №	71-20	J1• 1/0	J * • ±/0	JJ•1/0	J0•17

1964

. 409

35261

<u> 1965</u>

.332

29197

1956-1965 IN A CAPSULE										
	1956	19 <u>5</u> 7	1958	1959	1960	1961	1962	1963	1964	1965
Farm Sizo (Acres)	296	259	289	280	271	265	309	316	409	332
Size of Business (Work Units)*	267	329	351	354	356	323	364	378	449	377
Return To Capital & Family Labor	\$2068	2958	3940	3237	3609	2981	3310	2681	3443	3366
Labor Earnings	1733	1904	2419	1720	2347	1629	1655	1874	1607	2042
Net Worth (Avg. Jan.1 & Dec.31)	16024	19693	21601	22219	22537	21691	24859	23302	32780	22404
Ratio of Assets to Liebilities	4.98:1	4.87:1	5-32:1	5.14:1	5.38:1	4.56:1	4.07:1	3.26:1	4.10:1	2.94:1
Expenses Per Dollar Income	•77	.78	.76	.83	•78	.84	.86	.85	.87	.84
Roturn Per Dollar Invested	•11	.10	.11	.08	.11	.08	.06	•09	.10	.07
% of Gross Receipts Saved As Return to Capital & Family Labor	28%	35%	39%	33%	34%	29%	27%	22%	28%	27%
Source of Income										
Income From Livestock	87%	83%	86%	86%	86%	88%	86%	84%	77%	83%
Income From Crops	5%	7%	4%	7%	7%	5%	6%	8%	11%	11%
Miscellaneous Income	8%	10%	10%	7,6	7%	7%	8%	8%	12%	6%

^{*}One work unit equals one 10 hour working day.