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*Farm business analysis 0.9*

*like*

The Hebrew University  
The Faculty of Agriculture  
Rehovot

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A Report on the Economic Situation  
of Established Family Farms

Appendix:  
Method of Data Collection and Analysis

March 1959

The Hebrew University  
The Faculty of Agriculture  
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Appendix:  
Method of Data Collection and Analysis

March 1959

# A REPORT ON THE ECONOMIC SITUATION OF THE ESTABLISHED FAMILY FARM

## APPENDIX:

### METHOD OF DATA COLLECTION AND ANALYSIS

#### A. Sources of Data

##### a) The Cooperative

The Cooperative keeps a unified account for its own financial activities as well as a separate account for each individual member. The system of book-keeping differs from one co-operative to the other, but all keep to a basic pattern which is prescribed by the audit union.

The basic book-keeping system comprises a separate account for each of the service departments of the Cooperative and a separate account for each settler member. All the purchasing, selling and other financial transactions concerning the settlers are recorded on the individual settler's card. At the end of each month most cooperatives give their settlers a copy of his account comprising all his transactions during the month. This monthly account serves as the main source for the economic data of the individual farm. As can be seen from the attached questionnaire the analysis is based on physical as well as financial data: e.g. quantities of milk, eggs and meat sold as well as quantities of feed, fertilizers, water, etc. purchased. In most monthly accounts of the settlers not all the physical and financial data appear in the detail required for analysis. In these cases we went back to the source records, mostly the summary accounts of the service department: e.g. the grain store or the waterworks, to extract the data pertaining to the individual settler. In this way we collected all the data available in the cooperative. Of course not every cooperative records all the details, for instance 30% of the villages under study do not measure the water consumption of the individual holding or some others do not record an item, as for instance the exact number of poultry sold, but only the poultry by weight. In such cases we only recorded the details on the items available.

##### b) The Farmer

All the details not available in the cooperative have to be supplemented on the farm itself. The main items which are taken from the farmer are:

- 1) Labor. An estimate is made of the total labor days worked by every member of the family on the farm. It is based upon the elimination of days not spent in farming, e.g. outside labor, days of sickness, military service, vacation, etc. and on the employment of hired workers.  
The number of days spent in each farm-branch can only be estimated according to labor-norms. The total number of days required according to norms is being compared with the actual number spent by the total labor force so as to get an evaluation of labor performance.
- 2) Crop rotation, which includes all the crops grown on the land.
- 3) For every crop a yield estimate is given by the farmer and checked by the field-man.

4) Livestock Inventory

In the dairy herd every head of stock is recorded individually with all the data found in the questionnaire. For the poultry flock 5 groups are noted: Layers, broilers, pullets, chicks and breeding cocks. The inventory of the livestock is taken at the beginning and at the end of the period under study.

5) Private Transactions. These include all sales and purchases which do not go through the books of the cooperative. Most of these private transactions are not recorded and thus one has to rely on the memory of the farmer. However, on the basis of the cooperative records and the input - output relationships we do have a certain cross - check on the quantities sold and purchased privately. In addition the farmer is asked about private loans and new investments.

6) Estimate of Capital Worth: All buildings, machinery, livestock irrigation equipment, etc. is estimated at its renewal value at the time of the farm visit.

7) Home and Farm consumption: An estimate is made of the quantities of milk, eggs, poultry and vegetable consumed by the family as well as the milk given to calves, manure production and green fodder yields, in order to calculate the total production value of the farm.

c) Other Sources:

Some Cooperatives have specialized services which keep records, such as the herd book, the flock record, the incubator sales lists, disease and pest control services etc. All these records serve as a cross check for the data obtained from the farm and the cooperative.

B. Method of Data Collection and Processing

As the first step the data in the cooperative is collected. For this purpose preprinted summary forms are used, having 12 monthly columns for all input and output items which occur in the cooperative accounts of the settler. These forms are then summarized and the totals for each item transferred onto the farm questionnaire in its appropriate place. The data from the cooperative service records, such as the herd book, the incubator etc. are transcribed directly into the questionnaire.

C. Farm Visit

Every farm which is analysed is visited by one of the fieldmen. To these visits the fieldmen come equipped with the questionnaire filled with all the data obtained from the cooperative. During the visit the whole questionnaire is gone through together with the farmer, checking the data from the cooperative and filling in the data not available there. In addition, the buildings, livestock and fields are thoroughly surveyed, to compare the farm results with the impression on the farm and the farmer.

The questionnaire with all the summary forms are then taken back to the office where the questionnaire is summarized and analysed by farm branches, efficiency and profitability indices. In most cases the questionnaire has to be referred back to the farmer for further inquiries before it can be finally tabulated.

Most of the items found in the questionnaire are tabulated. Tabulation is carried out on large listing sheets by villages on which the farm are ordered according to the size of their net income from the highest to the lowest.

Finally the farmer's report is made out in which the output, input, profitability and efficiency indices are recorded by the farm branches. This report is handed back to the farmer by the same fieldman who made the farm visit. The fieldman prepares a tabulation of the main results and the main causes for the variation of the particular farm from the profitability of all farms analysed in the village. By this method it is very easy for the fieldman to explain the differences and their causes to the individual farmer. It should be remembered here that all farms have an identity number in this survey and no names appear either on the questionnaire or on the village tabulation.

This is the basic scheme of processing and analysis of all the material collected. All specialized analyses such as of farm types or farm branches are then resummarized or retabulated from this basic material.

QUESTIONNAIRE FOR DETERMINING FARM RENTABILITY

FARM NUMBER 1

VILLAGE NUMBER XIX

Year under study 1957/58

a. Family Labour

1. Labour Force

Member of Family	Age	Experience in Agr. years	Nr. of estimated working days during the year	Imputed Expenses		Date of visit		Kind of work
				IL. per day	IL. per year	Working days	IL.	
Farmer	53		187	12	2244		129	Partial outside work
Farmer's wife	54		165	10	1650			
S o n	22		310	12	3720			
Son's wife	20		-					Full outside work
S o n	18		-					Army service
Daughter	18		-					
T o t a l			662		7614			

b. Hired Labour

Branch or kind of work	Nr. of working days during year	Salary paid - IL.		
		Cash pay	Imputed value of farm produce or services	T o t a l
				-
				-
				-
				-
				-
T o t a l	10	71	-	71

c. Summary of Labour Input - in Standard workingdays

C r o p s	Dunam	Nr. of Standard workdays	Livestock	Units	Nr. of Stand. Workdays
Grains & Hay - unirrigated			C o w s	6.8	184
Other inirrigate crops			Young stock	9.8	59
Green Fodder - irrigated	25.4	127	Layers	400	120
Vegetables - irrigated			Other Poultry		
Orchards, fruit bearing-irrig.	5.3	80	Total Livestock		363
" " " unirrig.					
Young orchards	1.3	8			
Misc.(Investments etc.)			Total standard workdays		578
			Total farm labour days		672
Total Crops	32.0	215	Percent of Labour efficiency		116

2. L a n d

Physical Area - Dunam

R e n t

Irrigated Land	25
Unirrigated Land	-
Total cultivated Land	25
Buildings and Yards	2.5
Uncultivated Land	
Miscellaneous	
Total Farm Area	27.5

	Total Dunam	IL.
Long term lease	25	20
Short " "		
Total		20

Crop Rotation by Fields

Field crops, irrig./unirrig.

Name or Nr. of field	Physic. Dunam	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
25	unirrig												
26													
27													
28													
29													
30													
31													
32													
33													
34													

Total irrigated field crops

Irrigated Orchard

Total unirrigated area

Utilization of irrigated area in Dunam/Month

- 1) Total irrigated area (without orchard)
- 2) Total " crop dunams (without orchard)
- 3) Index of irrigated land utilization  

$$\left( \frac{2}{1} \times 100 \right)$$



CULTIVATED AREA AND CROP DESIGNATION

Crop	D u n a m			Output in tons								Output in H.								Unit Price	Remarks						
				Gross Product,		Farm use		S a l e s				Home use	Inven-tory	Gross		Farm use		S a l e s									
	Per dunam	Total	Fodder	Seeds	Co-op	Private	Production	Fodder	Seeds	Co-op	Private			Home use	Inven-tory	Gross Output	Cash Sales										
Wheat																											
Sorghum																											
Barley																											
Total Grains																											
Irrig. Pasture																											
Egyptian Clover	2.8		2.8	6	17																						
C o r n	7.5		7.5	4	30																						
Alfalfa	2.6		2.6	7	18																						
Stavion	3.2		3.2	8	26																						
Mangold	3.7		3.7	12.0	44																						
Sateria	2.8		2.8	1.5	4																						
Cattle beans	2.8		2.8	2.5	7																						
Total green fodder	25.4		25.4		146							2920	2659		261								261	261			
Hay crops																											
Potatoes																											
Tomatoes																											
Total Vegetables																											
Lemons	.5																										
Oranges																											
Valencia	1.5																										
Clementines	3.3																										
Total fruit bearing orchards	5.3																										
Clementines	1.3																										
Total young Orchards	1.7																										
Total Orchards	6.6																										
Miscellaneous																											
Total Crops												8030	2659		5371									5371	5371		

Dairy Herd

Name	Date of last calving	Age at beginning of the year or at date of purchase	Date of purchase or birth	Date of sale or death	Value at		**) Purchases		**) Sales		Reason for sale, home use etc.	Number of months in the herd
					* beginning of year	Value at end of year	Co-op.	Private	Co-op.	Private		
Pnina	III 58				1450	1300						12
Aviva	IX 58	51			1300	1150						12
Tikva	II 58	53			1600	1450						12
Adara		53		V 58	1600	-			1360			8
Nissana		54			1600	1600						12
Asa					-	1500						10
Atida					-	1500						10
Ellula					-	1500						5
Total cows					7550	10000			1360			81
Asa	XI 57	IV 55			1600	-						2
Aida	XI 57	VI 55			1600	-						2
Ellula	IV 58	IX 55			1600	-						7
Noga		V 55		X 57	1600	-			1600			-
Heifers					6400	-			1600			11
Aviva		14			770	1600						12
Shalva		13			730	1600						12
H. Calves born before Oct. 1st.					1500	3200						24
Vashti		IV 58			-	420						5
Chagith		IX 58			-	300						1
Heifer calves born during year under study					-	720						6
Son of Aviva		I 57			300	900						12
" "Nissana		I 57			300	900						12
" "Atida		XI 57			-	800						11
" "Asa		XI 57			-	800						11
" "Tikva		II 58			-	650						8
" "Pnina		III 58			-	600						7
" "Dromth		9		IV 58	700	-			2003			7
" "Tikva		9		IV 58	700	-						7
Two bull calves		12		X 57	1700	-			1791			2
Total bull calves					3700	4650			3794			77
Total cattle					1150	18570			6754			

\*) Imputed prices  
 \*\*) Actual prices received or paid

Home use in kg.  
 " " " IL.

D. A I R Y H E R D

Balance of stock inventory  
- in Nr. of heads

Output in change of inventory and cattle  
trade (IL.)

Entering	Nr.	Leaving	Nr.
Beginning of year	17	End of year	17
Purchases		Sales	6
Birth	6	Death and home use	
<b>T o t a l</b>	<b>23</b>	<b>T o t a l</b>	<b>23</b>

Inventory change	588
Output in cattle trade - total	6754
Co-op sales	6754
Private sales	
Home use	

Average head of cattle during year

M a n u r e

K i n d	Nr.	Cattle units
C o w s	6.8	6.8
H e i f e r s	.9	.5
H. C a l v e s	2.5	.8
B. Calves for rearing	1.4	.5
B. Calves for meat	5.0	1.7
<b>T o t a l</b>	<b>16.6</b>	<b>10.3</b>

	Gross product	Farm use	Sales		Invent + -	Gross Output
			Co-op	Private		
Cubic m.	100	87		13		13
IL.	600	520		80		80

Remarks:

Summary of dairy herd production

I t e m	Gross production	Farm use	S a l e s		Home use	Changes in Inv. + -	Gross Output	Cash Sales
			Co-op	Private				
Equivalent of kg milk								
Fresh Milk	31710	1140	29970		600			
Total Milk								
IL.								
Milk	9112	324	8615		173		8788	8615
Milk products								
Inventory change	- 580					- 580	-580	
Cattle trade	6754		6754				6754	6754
Manure	600	520		80			80	80
<b>T o t a l</b>	<b>15886</b>	<b>844</b>	<b>15369</b>	<b>80</b>	<b>173</b>	<b>- 580</b>	<b>15042</b>	<b>15449</b>

A n a l y s i s

kg. milk per cow 4660

Price per liter of milk - IL. .288

Dunam fodder per CATTLE UNIT 2.5

Cattle Fodder	Farm produced							Purchased			Feed Units	
	No. of Dunam.	Ton per dunam		Prod. in Tons	Value in IL	Feed Units		Ton	Value in IL	Feed Units	Total	Per Cattle Unit
		Norm	Actual			Per Ton	Total					
Alfalfa	2.6	6-8		18		120	2160					
Egypt.Clover	2.8	5-7		17		110	1870					
Mangold	3.7	8-15		44		100	4400					
Stavion	3.2	6-10		26		80	2080					
Corn	7.5	3-5		30		80	2400					
Pansilaria		4-5				100						
Sateria	2.8	1-2		4		110	440					
Cattle peas		3-4				100						
Cultivated pas.		1-2				90						
Cattle beans	2.8	2-3		7		100	700					
Sunflowers		3-4				80						
Total green fodder	25.4			146			14050				14050	1360
" irrig pasture		800 F.V.										
" natural "												
" silage								2.0	52	200	200	20
" hay & straw		.35				350		15.3	1872	5350	5350	520
" concentrates								18.5	3874	18560	18560	1800
Total fodder							14050		5798	24110	38160	3700

Concentrated feed units in percent of total supply 48  
 Purchased feed units in percent of total supply 63

Feed needs of the Dairy herd

Group	No. of heads	Feed units p.head	Total feed units
Cows	6.8	1500	10200
H.Calves up to 3 months	2.5		3680
" " 3-11 "			
" " 12-24 "	.9	1720	1550
B.Calves up to 3 months	6.4		8570
" " 3-12 "			
Bulls			
Milk in kg.	31.7	.4	12680
Total			36680

Feed Balance

Surplus	1480	F.V.
Deficit	-	F.V.

Price of feed unit

Farm produced	.	I.L.
Purchased	.240	I.L.
Total	.	I.L.

\*) Cabbage leaves

The Poultry Flock

Summary of poultry production in IL.

I t e m	Gross production	Farm use	S a l e s		Home use	Inventory changes +/-	Gross output	Cash Sales
			Co-op	Private				
Eggs	8008		7808		200		8008	7808
Inventory changes	1522					1522	1522	
Poultry sales & home use	2230		1670		560		2230	1670
Manure	144	144						
<b>T o t a l</b>	<b>11904</b>	<b>144</b>	<b>9478</b>		<b>760</b>	<b>1522</b>	<b>11760</b>	<b>9478</b>

E g g s	Gross production	For Farm Incubation	Co-op sales		Private sales		Home use	Total Output
			Brood Eggs	Table Eggs	Brood Eggs	Table eggs		
Units	81101		21483	55618			4000	
IL	8008		3700	4108			200	

Manure	Gross production	Farm use	S a l e s		Inventory changes +/-	Total Output
			Co-op	Private		
Tin measure	1200	1200				
IL.	144	144				

Egg prices

IL.

Analyses

Co-op. Brood eggs	0.172
" Table eggs	0.074
Total private sales	0.
All sales	0.101

Nr. of Tons of Feed	29.4
Nr. of eggs per Tons of Feed	2760
kg. of meat per " " "	59.5
" " " " "	x20 1190
Total Number of Standard Eggs per Ton of Feed	3950

F o d d e r

Total concentrated feed	29.4ton	7161 IL.
" " " per average layer	kg.	IL.

Price per kg. concentrated feed	.244 IL.
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Inventory and Poultry Movements

Entry	At beginning of year			Purchases				Total Nr. of birds	Remarks
	Nr.	kg.	IL.	Co-op.		Private			
				Nr.	IL.	Nr.	IL.		
Purchased Eggs									
Chicks				1200	974			1200	
Pullets	305	305	610					305	
Broilers									
Layers	444	666	1776					444	
Breeding Cocks									
<b>Total</b>	<b>749</b>	<b>971</b>	<b>2386</b>	<b>1200</b>	<b>974</b>			<b>1949</b>	
Farm incubation								-	Total purchased in IL.
Total entry of birds								1949	974

Exit	At end of year			Co-op sales			Private sales			Home use		Total Nr. of birds
	Nr.	kg.	IL.	Nr.	kg.	IL.	Nr.	kg.	IL.	Nr.	IL.	
Purchased Eggs												
Chicks												
Pullets	400	500	1200	128	154	367						
Broilers				82	85	124						
Layers	677	1015	2708	429	591	1179				200	560	
Breeding Cocks												
<b>Total</b>	<b>1077</b>	<b>1515</b>	<b>3908</b>	<b>639</b>	<b>830</b>	<b>1670</b>				<b>200</b>	<b>560</b>	<b>1916</b>
Deaths in number of chickens												33
Total exit of birds												1949

Changes in inventory value	1522 IL
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Remarks:

Meat production in weight	kg.
Co-op sales	830
Private sales	
Inventory changes	544
Home rise	375
<b>Total</b>	<b>1749</b>

Meat price per kg.: 2.- IL.

CURRENT EXPENSES

Feed stuff

I t e m	Tons	IL.			Price per ton	Designation	Feed Unit
		Co-op	Private	Total			
<u>Cattle</u>	18.40	3788					
Milk meal	.16	86					
<u>TOTAL CATTLE FEED</u>	18.56			3874	208		
<u>Poultry</u>							
Layers	13.50	3177					
Batteries	8.35	2138					
Chicks	2.14	595					
Pullets							
Grain	5.40	1103					
Miscellaneous		148					
<u>TOTAL POULTRY FEED</u>	29.39			7161	244		
<u>Work Animals</u>							
Total concentrated feed				11035			
Cabbage leaves		14					
Orange Peels		38					
Silage				52			
Green fodder & pasture							
	15.3	1872					
H a y				1872			
S t r a w							
Miscellaneous							
Total feed purchased				12959			
Total for cattle use				5798			





CURRENT EXPENSES

I t e m	Unit and quantities	I L.			Price per Unit	Designation	Remarks
		Co-op	Private	Total			
L i m e Fertilizers		18 306					
Fertilizers and Manure				324			
Artf. Insemination		99					
Herd book		72					
Security		6					
Cattle miscell.		97					
Poultry "		111					
Transportation & Marketing costs				385			
Co-op Taxes						Co-op 1106	
Total Taxes				440			
Cattle Insurance		345					
Security "		128					
Insurance				473			
Cattle		2					
Misc.		337					
Miscellaneous				339			
Interim Summary				1961			

S u m m a r y  
I L.

Summary of expenses in I L.

Total page 9	12959
" " 10	1809
" " 11	1961
Total other cash expenses	16729

Expenses	Cash	Imputed	Total
Other cash expenses	16729	<del>      </del>	16729
Salary for workers	71	7614	7685
R e n t	20	-	20
Purchase of chicks & pullets	974	<del>      </del>	974
I n t e r e s t	-	-	-
Depreciation	<del>      </del>	1308	1308
Total farm expenses	17794	8922	26716

CAPITAL

I t e m	Cubic Meter	Full description	Full (* replacem- ent value IL.	Age at beginn- ing of year	Yearly depreciation		Value in IL.		R e m a r k s
					%	IL.	At beginning of year	At end of year	
	50		7500	23	3	225	2550	2325	
	50		1650	11	3	50	1150	1100	
	92		14000	1958	-	-	-	14000	
Living quarters			23150			275	3700	17425	
Cow shed	50		2500	36-7	2.5	78	1272	1234	
Hay barn	50		1750	6	5	88	1310	1222	
Open shed									
Manure pit									
Fences	18	Beton 100 gum.	600	36	-	-	-	-	
			700	10	5	35	385	350	
			1000	5	10	100	600	500	
Total buildings for dairy herd			6550			261	3567	3306	
Poultry houses	40		1600	34	2.5	40	230	240	
	40		1600	49	-	-	-	-	
	90		3600	3	3	108	3384	3276	
Rearing house	30		1200	22	3	36	444	408	
Mr. of Batteries		Rearing Battery electr.	900	5	10	90	540	450	
		72 Unit Laying Battery	400	7	10	40	160	120	
Store	18		600	20	3	18	258	240	
Total poultry buildings			9900			332	5066	4734	
Total other buildings									
Total farm buildings			16450			593	8633	8040	

\*) Purchases and sales according to actual prices

C A P I T A L

I t e m	Full description	Full (* replac- ment value-IL.	Age at beginn- ing of year	Yearly depreciation		Value in IL.		Designation of depreciation	
				%	IL.	At beginning of year	At end of year	Branch	IL.
Brought forward p.12		16450			593	8633	8040		
Tractors	Ferguson	4500	2	7	315	4185	3870	Fodder	
Sprayers								Grains	
Floughs								Vegetables	
Cultivators	1/3	80	2	10	8	72	64	Orchards	
Drills									
Rakes									
Carts									
Choppers	for tractor	250	1958	-	-	-	250		
Harrow									
Platform		1400	1	10	140	1400	1260		
Total tools & machines		6230			463	5657	5444		
Pipes 1 Inches	600 Meter	1200	10	10	120	120	-	Fodder	
" 2 "	120 "	240	3	10	24	192	168	Grains.	
" "	" "							Vegetables	
								Orchards	
Water meter	1	130	10	10	13	13	-		
Total irrigation equipment		1570			157	325	168		
Interim summary - bring forward to page 14		24250			1213	14615	13652		

\*) Purchases and sales according to actual prices

C A P I T A L

I t e m	Full description	Full (* replacem. value - IL.	Age at beginning of year	Yearly depreciation		Value in IL.		Designation of de- preciation
				%	IL.	At beginning of year	At end of Year	
Brought forward p. 13		24250			1213	14615	13652	B r a n c h      IL.
								Fodder Grains Vegetables Orchards
Draught animals								
	Lemons      ) Oranges      ) Valencia     )	680	21-22		45	725	680	
	New plantation	200	1958	-	-	-	200	
	Clementina    4.6 dunams	2555	4-6-21		50	2605	2555	
Total orchards		3435			95	3330	3435	
Total stores								Capital per standard dunam
Total farm capital		27685			1308	17945	17087	

\*) Purchases and sales according to actual prices

SUMMARY OF CAPITAL

Assets	At beginning of year			At end of year		
	Farm	Co-op	Total	Farm	Co-op	Total
Living quarters	3700			17425		
Buildings for dairy herd	3567			3306		
Poultry buildings	5066			4734		
Machines	5657			5444		
Irrigation equipment	325			168		
Draught animals						
Orchards	3330			3435		
Stores						
Cattle	19150			18570		
Poultry	2386			3908		
Other livestock						
Loans to others						
Credit in the Co-op.	3300					
<b>Total in assets</b>	<b>42781</b>			<b>39565</b>		
Gross new investments during year				-	1908	

Liabilities (including current accounts)	The Lender	Year loan rec'd	How many years	% Interest	Debts in IL.		Yearly cash payments			
					At beginning of year	At end of year	Principal	Interest	Total	
Total exceeding a year										
Private debt						1000				
Debt at current acc.						3594				
Total less than a year						4594				
<b>T o t a l</b>										
Imputed interest - IL.					Total interest - IL.					

Summary of capital at end of year - IL.	F a r m	Co-op.	Total
Living quarters	17425		
Farm capital	39565		
Short term debts	4594		
Long term debts			
<b>Equity</b>	<b>52396</b>		

## S U M M A R Y

Production and Output in IL.	Gross Production	Farm use	S a l e s		Home use	Changes in inventory + -	Gross Output	Cash sales
			Co-op	Private				
Fodder and grains	2920	2659	261				261	261
Vegetables & potatoes								
Orchards	5110		5110				5110	5110
Miscellaneous crops								
Total crops								
Dairy herd	15886	844	15369	80	173	- 580	15042	15449
Laying flock	11904	144	9478		760	1522	11760	9478
Other poultry								
Other livestock								
Investments which do not appear in inventory.								
Miscellaneous								
T o t a l	35820	3647	30218	80	933	942	32173	30298

Measure of profitability	IL.
Gross production	35820
Gross output	32173
Total cash expenses + depreciation	19102
Net income	13071
Imputed labour expenses	7614
Net profit	5457
Nr. of family labour days	662
Income per family labour day	19.7

ALLOCATION OF EXPENSES TO FARM BRANCHES

	orchard	poultry	dairy	green fodder
Concentr. feed		7161	3874	
Green fodder			52	
H a y			1872	
Straw				
PURCH FODDER		7161	5798	
Pest control	86			
Seeds				227
Water	85			340
Tractor	90			360
Fertilizers	64			260
R e n t	-	-	-	20
Depr. of Machinery	93			370
" " Irrig. Equip.	31			126
" " Orchard	95			
TOTAL EXPENSES FOR FIELD WORK	544			1703
Paid Work Days				71
Chicks		974		
Pest Control Livst.		264	104	
F u e l		123	130	
Production Expenses		111	274	
T a x e s	66	132	242	
Insurances		73	400	
M i s c.	50	102	187	
TOTAL MISC. EXPENSES	116	805	1337	
Depr. of Buildings		332	261	
TOTAL EXPENSES	660	9272	7396	1774

TOTAL EXP. for GREEN

147 Work Days

1764

FODDER PRODUCED ON THE FARM

3538 =  
= 251 Prutot per feed unit.

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PURCHASES FROM THE CO-OP. SUPPLY STORE

Date of Purchase	Cattle Feed						P o u l t r y F e e d												Grains for work animals		Sacks		Total I.P.
	Conc.Fodder for Cows		Conc.Fodder for calves		Milk Powder		Concentrated Fodder								G r a i n s		Miscell.		+	-			
	Quant.	I.P.	Quant.	I.P.	Q.	I.P.	For Layers		For Pullets		For Chicks		For Batteries		Q.	I.P.	Q.	I.P.			Q.	I.P.	
							Q.	I.P.	Q.	I.P.	Q.	I.P.	Q.	I.P.									
X . 57	800	157				20	550	119					800	178	950	190		12					676
XI	750	146				20	850	182					800	181	700	140		4					673
XII	1.350	262					1000	214					900	203	615	123		8					810
I 58	1.600	310					1300	278					450	102	567	113		9					812
II	1.150	235		3		20	1000	230					300	77	300	63		4					632
III	1.450	302		3			350	84		200	56	700	189	150	32		4						670
IV	1.700	360				26	-	-		650	182	1.200	329	500	105		4						1006
V	1.700	366					850	211		400	114	700	192	400	84		35						1002
VI	1.600	344					1100	273		600	172	700	192	250	53		12						1046
VII	1.750	359					1700	413		250	71	650	178	250	53		32						1106
VIII	1.750	359					2600	632				650	179	300	63		4						1237
(	1.600	333					2200	541				500	138	400	84		20						1116
IX (	600	124																					124
(	600	125																					125
	18.400	3782		6		86	13.500	3177				2.100	595	8350	2138	5382	1103		148				11035

Farm number 1 XIX

SUMMARY ACCOUNT FOR THE ANALYSIS OF FAMILY FARMS

Year 1957/58

Family Farm Project

Income	Total Income		October		November		December		January		February		March		April		May		June		July		August		September	
	I.P.	Qty.	I.P.	Qty.	I.P.	Qty.	I.P.	Qty.	I.P.	Qty.	I.P.	Qty.	I.P.	Qty.	I.P.	Qty.	I.P.	Qty.	I.P.	Qty.	I.P.	Qty.	I.P.	Qty.	I.P.	Qty.
<u>Dairy herd</u>																										
Milk (kg)	8615	29970	585	2000	617	2123	701	2313	619	2173	631	2093	913	3107	956	3438	945	3386	812	2879	711	2547	565	1921	560	1990
Bull calves	3794		1791												2003											
Cow sales	2960		500		1100											1360										
<u>Poultry</u>																										
Brood Eggs (units)	3700	21483	800	4100	699	3583	333	1905	283	1618	217	1238	164	939	317	1810	177	1011	200	1352	119	914	208	1597	183	1416
Table Eggs (units)	4108	55618	202	2700	153	1967	363	4365	595	7475	488	5949	464	5937	287	4061	259	3499	191	2734	261	3606	272	4128	573	9197
<u>Geese</u>																										
Breeding cocks	124		12	5																	4	3	64	52	44	22
Meat from layers (units)	1179		125	34	266	140	202	64	119	41	196	60	246	75	6	3	7	5					10	6	2	1
Broilers (units)	367		37	5	38	6	82	12	11	2	12	2	4	1	5	1			46	28	4	1	87	55	41	15
<u>Citrus Fruit (kg.)</u>																										
Clemantines	1610	8039			1378	6749	153	845					79	999												
Shamuti	2539												820	9651	1422						297					
Valencia	253														158	1868					95					
Lemons	708												549	6997							159					
Hay and grains returned empty sacks																										
residual payments																										
Work for the Co-op.	129		9		9				29						18				15		21		28			
Interest																										
Sale of seeds	261				38		185						38	1171												
<b>TOTAL INCOME</b>	<b>30347</b>		<b>4061</b>		<b>4298</b>		<b>2019</b>		<b>1656</b>		<b>1544</b>		<b>4699</b>		<b>3592</b>		<b>2906</b>		<b>1264</b>		<b>1671</b>		<b>1234</b>		<b>1403</b>	

Farm Number 1 XIX  
 Year 1957/58

Expenses	Total Exp.		October		November		December		January		February		March		April		May		June		July		August		September			
	I.L.	Qty.	I.L.	Qty.	I.L.	Qty.	I.L.	Qty.	I.L.	Qty.	I.L.	Qty.	I.L.	Qty.	I.L.	Qty.	I.L.	Qty.	I.L.	Qty.	I.L.	Qty.	I.L.	Qty.	I.L.	Qty.		
<u>Purchases in the Co-op. Store</u>																												
Concentrated feed	3,874		274		216		285		316		257		329		392		382		350		372		363		338		167	
Hay, straw	1,872	15.3													908		533		264									
Silage	52								14						38													
Seeds for folder crops	227		88		14						59		56													10		
Fertilizers	324		55		52		25		18		30				22		17		61			19			25			
<u>Expenses for the Dairy Herd</u>																												
Artificial insemination	99		9		10		10		20						40		10											
Cattle insurance and veterinary	577		39		39		39		39		39		39		39		39		39		39		39		148			
Herd book	175		14		14		14		14		14		14		14		14		14		14		14		21			
<u>Expenses for the poultry flock</u>																												
Purchase of chicks	974												534				440											
Pest control	264										15				63		41		30		30		37		48			
Miscellaneous	111				53								42													16		
Concentrated feed	7,161		510		507		549		503		374		364		620		637		689		747		878		783			
<u>Expenses for field crops</u>																												
Machinery rent	450		20												24		76		212		36		47		35			
Land rent	20		20																									
Water	425		35		35		35		35		35		35		35		35		35		35		35		40			
Pest control in the orchards	86																								86			
<u>General Expenses</u>																												
Hired Labour	71		23		42		6																					
Interest																												
Miscellaneous	339		76				35																					
Petrol and electricity	340		36		18		56		12		52		18		38		112		44				58		39			
<u>New Investments</u>																												
Dairy herd																												
Poultry flock																												
Living quarters	8,800				3,800		5,000																					
Equipment																												
<u>Taxes</u>																												
Co-op Taxes	1,106		85		85		85		85		85		85		85		85		85		85		128		128			
Income tax	1,260		85		75		110		110		110		110		110		110		110		110		110		110			
Pension fund	864						464										400											
National insurance	30								8						5				4		6		7					
Cooperative shares	56		56																									
<u>Private Expenses</u>																												
Co-op. Store	1,530		128		128		128		128		128		128		127		127		127		127		127		127			
Cash drawn from the coop.	6,154		500		480		600		300		400		650		400		650		250		300		700		924			
<b>Total Expenses</b>	<b>37,241</b>		<b>2,053</b>		<b>5,568</b>		<b>7,441</b>		<b>1,602</b>		<b>1,598</b>		<b>2,462</b>		<b>2,960</b>		<b>3,735</b>		<b>2,314</b>		<b>1,961</b>		<b>2,601</b>		<b>3,006</b>			

THE HEBREW UNIVERSITY  
THE FACULTY OF AGRICULTURE

REHOVOT

REPORT TO THE FARMER

Economic Analysis of the farm operation  
for the year 1957/58

Farm No. 1 XIX

C O N T E N T S

1. Area
2. Labour force
3. Farm capital

Results of farm branches

4. Vegetables
5. Orchards
- 6-7 Dairy herd
- 8-9 Poultry flock
10. Summary

A r e a

At your disposal are 25 cultivatable irrigated dunams  
 - " unirrigated "  
 Total 25  
 =====

you utilized the irrigated land .... Months/Dunam in the surveyed year  
 .... " " " " previous "

<u>Crops dunam</u>	Survey year		Previous years	
	irrigated	unirrigated	irrigated	unirrigated
Grains				
Green fodder	25.4			
H a y				
Vegetables and potatoes				
Other crops				
Orchards	6.6			
T o t a l	32			

Labour Force

According to norms you should have invested 578 working days as follows:

Hay, grains and green fodder	127
Orchards	88
Vegetables and potatoes	
Dairy herd	243
Poultry flock	120
<u>Miscellaneous</u>	
<u>T o t a l</u>	<u>578</u>

Actually you invested during the year	672	working days
of these you and your family worked	662	" "
" " paid labourers	10	" "

The number of invested working days amounted therefore to 116 %  
of the norms in the surveyed year as against ..... %  
in the previous year.

Farm Capital

The value of your farm capital at the beginning of the year  
amounted to 42781 I.P.

The value of your farm capital at the end of the year  
amounted to 39565 I.P.

The value therefore increased by 3216 I.P.  
decreased =====

<u>I t e m s</u>	<u>At the beginning of year</u>	<u>At the end of year</u>
Farm buildings	8633	8040
Irrigation and other equipment	5982	5612
Orchards	3330	3435
Dairy herd	19150	18570
Poultry flock	2386	3908
Drought animal		
Credit in the Cooperative	3300	
Miscellaneous		



V e g e t a b l e s

	<u>Surveyed year</u>	<u>Previous year</u>		<u>Surveyed year</u>	<u>Previous year</u>
Utilized area-dunam			Yield per dunam-ton		
Yield - ton			Price per ton - I.P.		
Gross output - I.P.			Gross output per dunam - I.P.		
<u>Expenses during surv.year-I.P.</u>			<u>Measure of profitability</u>	<u>Surveyed year</u>	<u>Previous year</u>
Paid work days			Gross output - I.P.		
Seeds and plants			<u>Current expenses -I.P.</u>		
W a t e r			Net income - I.P.		
Machinery			<u>Net income per dunam I.P.</u>		
Expenses of Drought Animal					
Fertilizers					
R e n t					
Depreciation of equipment					
Pest control					
<u>Taxes and miscellaneous</u>					
<u>T o t a l</u>					

ORCHARDS

Fruit bearing orchards - dunam	<u>5.3</u>
Young orchards - dunam	<u>1.3</u>
Yield - ton	<u>28.5</u>
Gross output - I.P.	<u>5110</u>

Yield per dunam - ton	<u>5.4</u>
Price per ton - I.P.	<u>180</u>
Gross output per dunam - I.P.	<u>          </u>

Expenses

Hired workers	<u>-</u>
Cultivation expenses	<u>449</u>
Depreciation	<u>95</u>
Taxes and miscellaneous	<u>116</u>
<b>T o t a l</b>	<b><u>660</u></b>

Measure of profitability

Gross output	5110	I.P.
Expenses	<u>660</u>	I.P.
Net income	<u>4450</u>	I.P.

DAIRY HERD

Annual average number of cattle	Surveyed year	Previous year	Balance of stock inventory in number of heads	
			Stock at beg. of year	Stock at end of year
C o w s	6.8			
Heifers	.9		17	17
Calves	2.5		--	6
Bull calves	6.4		6	--

	<u>Surveyed year</u>	<u>Previous year</u>
Total milk production - liter	31710	
Average milk yield per cow - liter	4660	
Price of milk - prutot per liter	288	
Price of purchased feed - unit - prutot	240	
Price of farm produced feed - unit - prutot	251	
Concentrated feed units in percent of total supply	48	
Purchased feed units in percent of total supply	63	

DAIRY HERD (CONT.)

<u>I n c o m e</u>	<u>Surveyed year</u>	<u>Previous year</u>	<u>E x p e n s e s</u>	<u>Surveyed year</u>	<u>Previous year</u>
Milk	8788		Concentrated fodder	3874	
Inventory charges	-580		Purchased hay, straw	1924	
Sales of cattle	6754		Exp. of farm produced fodder	1774	
<u>Manure</u>	<u>80</u>		Hired labour		
<u>Total gross output</u>	<u>15042</u>		Taxes and miscellaneous	1337	
			Depr. of buildings and equipment	261	
			<u>T o t a l</u>	<u>9170</u>	

Measure of profitability

Gross output - I.P.	
<u>Expenses - I.P.</u>	
<u>Net I n c o m e -I.P.</u>	

Surveyed year

Previous year

15042

9170

5872

Net income per cow - I.P.

863

POULTRY FLOCK

Utilization of poultry fodder (Number of Standard eggs per ton of feed)

Total consumption of feed - ton <u>29.4</u>	Per ton of feed	<u>%</u>	
		Physical proportion	Monetary proportion
Total eggs <u>81100</u>	2760	70	68
Total kg. of meat 1749 x 20 = <u>34980</u>	1190	30	32
Total Standard eggs <u>116080</u>	3950	100	100

Inventory of poultry - units

	<u>At beginning of year</u>	<u>At end of year</u>
Chicks		
Pullets	305	400
Broilers		
Layers	444	677
Breed cocks		

Purchased chicks - 1200

Purchased pullets - -

POULTRY FLOCK (CONT.)

<u>I n c o m e</u>	<u>Surv. year</u>	<u>Previous year</u>	<u>E x p e n s e s</u>	<u>Surv. year</u>	<u>Previous year</u>
E g g s	8008		Purchased feed	7161	
Inventory changes	1522		Exp. of grain production		
Poultry sales and home use	2230		Hired labour		
<u>M a n u r e</u>			Purchased chicks	974	
Total gross output	11760		Pest control	264	
			F u e l	123	
			Taxes and misc.	418	
			Depr. of buildings and equipment	332	
			<u>T o t a l</u>	<u>9272</u>	

Measure of profitability

	<u>Surveyed year</u>	<u>Previous year</u>
Gross output	11760	
<u>Expenses</u>	<u>9272</u>	
<u>Net Income</u>	<u>2488</u>	
<u>Net income per ton of feed</u>	<u>85</u>	

Summary of profitability in  
surveyed year - I.P.

	<u>Gross output</u>	<u>Gross input</u>	<u>Net income</u>
Vegetables and potatoes			
Orchards	5110	660	4450
Dairy herd	15042	9170	5872
Poultry flock	11760	9272	2488
Miscellaneous *	<u>261</u>	<u>-</u>	<u>261</u>
T o t a l	<u>32173</u>	<u>19102</u>	<u>13071</u>
Previous year - total	=====	=====	=====

Miscellaneous \* Sales of fodder seeds

.....

.....

