

1963 - SAN DIEGO COUNTY EGG COST STUDY

With Comparisons for 1961 and 1962

Prepared by Robert H. Adolph, Farm Advisor

In Cooperation with Egg Producers of San Diego County

This study comprises the results from 28 specialized commercial egg producing ranches. Birds on these ranches were strains of the White Leghorn breed except for two ranches which used crosses of the White Leghorn and California Grey.

Particular note is made of the low labor requirements compared to previous years. During the study year many ranches contracted to have eggs cleaned and sized by their egg dealers. This accounts for the major decrease in labor usage. It was not due to a change in efficiency, but rather a transfer of the job of egg cleaning and grading to the egg dealer. The economics of this change cannot be evaluated in this report because most of the changes occurred during the middle of the study year.

Results of this year's study are arranged in order of net cash operating costs per dozen eggs. Evaluation of individual efficiency should be considered on more than one year's results. New ranches often show excellent results due to high production of stock and low cash costs due to low repair costs of new equipment. The average of this study may be considered as a goal of efficiency to attain on a year to year basis. The success of a poultry ranch operation is often dependent upon the replacement pullet growing program of the previous year. An inadequate pullet replacement program of one year will hamper results of the poultry ranch the following year.

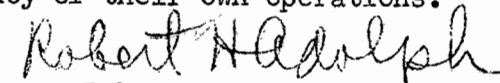
Replacement programs are changing to fewer broods per year. Only 5 out of the 28 cooperators replaced 6 or more times. Eleven of the 28 cooperators replaced 5 times and 12 replaced 4 or less times during the year.

Feed used for replacements was calculated on the basis of 25 pounds of feed per pullet replaced and 13 pounds of feed for bringing the 16-week old started pullets into lay. This calculation provided a basis for estimating costs of egg production exclusive of replacement feed costs.

The 1963 study of 28 cooperators started with 556,340 layers on hand, and ended with 658,744 layers, and an average of 597,565 birds, or 21,324 layers per ranch for the year. The study is calculated on the basis of 365 "Hen Days" per layer, and on the total dozens of eggs produced.

The 1963 San Diego County Egg Cost Study was conducted by the University of California Agricultural Extension Service in cooperation with local poultrymen. The individual cooperators sent in the results from their own operations for the specific purpose of obtaining an evaluation of their results for their own personal use in improving their poultry ranch management. They are also able to compare their results with others in the study who have their results developed on the same basis.

The results of this study cannot be considered as representative or typical of the industry. They are published so that those who are former cooperators and others who are aware of the limitations on the use of these figures may make comparisons of their own results for improving the efficiency of their own operations.



Robert H. Adolph
Farm Advisor

RHA:s:m

COMPARE YOUR RESULTS WITH AVERAGE RESULTS IN THIS STUDY
1963 - SAN DIEGO COUNTY

TABLE I - COSTS PER DOZEN EGGS

		<u>Your Results</u>
Feed Layers only	13.1	_____
Feed Replacement only	4.1	_____
Replacement Stock	2.0	_____
Supplies, Taxes & Services	1.7	_____
Hired Labor	1.8	_____
Less Income not Egg	- 1.3	_____
<hr/>		
Per Dozen Net Cash Operating Cost	21.4	_____
<hr/>		
Depreciation 10% Bldgs. & Equipment	1.1	_____
Interest 6% Stock, Land & Housing	1.1	_____
Home Labor @ \$1.25/hour	.3	_____
Management Est. 10% of Cost or 2½ cents per dozen Eggs	2.5	_____
<hr/>		
Total All Cost per dozen Eggs	26.4	_____
<hr/>		
Egg Income per dozen Wholesale only	28.4	_____
<hr/>		
+ Profit or - Loss per dozen eggs	+ 2.0	_____

TABLE II - DOLLAR COSTS PER AVERAGE LAYER

		<u>Your Results</u>
All Feed incl. Replacements	\$3.47	_____
Replacement Stock	.41	_____
Supplies, Taxes & Services	.34	_____
Hired Labor	.36	_____
Less Income Not Egg	- .27	_____
<hr/>		
Net Cash Cost per Hen	\$4.31	_____
<hr/>		
Depreciation	.23	_____
Interest 6% rate	.23	_____
Home Labor	.07	_____
Management 2½¢ per dozen produced	.50	_____
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Total Net Egg Cost per Hen	\$5.34	_____

COMPARE YOUR RESULTS WITH AVERAGE RESULTS IN THIS STUDY
1963 - SAN DIEGO COUNTY

TABLE III - FACTORS CONTRIBUTING TO COSTS

		<u>Your Results</u>
Average % Egg Production	67	_____
Number Eggs Produced per Layer	243	_____
% Large & Extra Large Eggs Sold	69	_____
% Production Sold Wholesale	94	_____
<hr/>		
<u>POUNDS FEED</u>		
Per Layer only	88	_____
All Feed Incl. Replacement	111	_____
Feed per dozen Eggs Ratio Layer only	4.3	_____
All Feed incl. Replacement	5.5	_____
Cost Feed per 100 Pounds	\$ 3.12	_____
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Cost per day-old Pullet	\$.33	_____
Cull Income each	.25	_____
All Labor Hours per Hen	.35	_____

TABLE IV - LAYING FLOCK STATISTICS

		<u>Your Results</u>
Dozen Eggs Produced per Hen	20.2	_____
<hr/>		
<u>% of Average Laying during year</u>		
Died	14%	_____
Culled	63%	_____
Added	94%	_____
Increase	+ 17%	_____
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% of Average Flock over 18 months of age	15%	_____
% Chick Loss to Laying age	8%	_____

TABLE I - HOW MUCH DOES IT COST TO PRODUCE A DOZEN EGGS

Rank & Size**	CASH OPERATING COSTS PER DOZEN EGGS - CENTS						PER DZ. NET CASH OPER. COSTS	DEPREC. CAPITAL, HOME LABOR, MGMT.				TOTAL COSTS PER DZ. EGGS	EGG INCOME PER DZ. WHSLE ONLY	+ Profit - Loss @ Whsle Price per dozen
	Feed Layers Only	Feed Replcmt. Only	Replc. Chicks S.P.*	Sup- plies Taxes Serv.	Hired Labor	Less Inc. Culls & Stock Value		Deprec. 10% Bldgs. & Equip.	Int. Stock, Land, Bldgs. & Equip.	Home Labor \$1.25 per hour	Mgmt. 2 1/2¢ per dz. Eggs			
1-D	12.8	3.9	1.9	.9	1.5	- 2.7	18.3	1.6	1.0	----	2.5	23.4	28.7	+ 5.3
2-C	12.0	4.4	1.4	2.0	2.3	- 3.2	18.9	1.2	1.4	----	2.5	24.0	-----	-----
3-B	13.1	4.6	1.6	1.0	.2	- 1.2	19.3	1.0	1.0	3.4	2.5	27.2	28.1	+ .9
4-D	12.6	4.6	1.7	1.7	1.4	- 1.8	20.2	1.0	1.2	.2	2.5	25.1	28.5	+ 3.4
5-C*	12.8	2.1	4.5*	1.5	1.8	- 2.4	20.3	.7	1.2	.2	2.5	24.9	27.7	+ 2.8
6-D	13.5	3.4	1.6	1.0	1.7	- 0.9	20.3	1.2	1.2	----	2.5	25.2	-----	-----
7-B	13.4	4.1	2.2	2.6	---	- 2.0	20.3	1.0	1.0	2.9	2.5	27.7	-----	- 0.4
8-D	13.1	4.3	1.5	1.8	1.4	- 1.7	20.4	1.3	.9	.4	2.5	25.5	27.3	+ 1.8
9-A	13.4	3.8	1.6	2.1	.8	- 1.3	20.4	.8	1.0	2.3	2.5	27.0	27.5	+ 0.5
10-B	13.7	4.9	2.7	1.9	1.1	- 3.4	20.9	1.1	1.4	3.3	2.5	29.2	27.1	- 2.1
11-C	13.1	4.0	2.1	1.9	1.6	- 1.4	21.3	.9	1.1	1.0	2.5	26.8	29.1	+ 2.3
12-A	13.9	1.3	.0	1.5	.0	+ 4.7	21.4	1.4	.6	2.1	2.5	28.0	27.6	- 0.4
13-B	14.1	4.5	2.2	1.8	.4	- 1.5	21.5	.5	1.0	2.8	2.5	28.3	28.3	-----
14-D	12.9	4.0	1.6	1.7	1.7	- 0.2	21.7	1.4	.8	----	2.5	26.4	-----	-----
15-C*	13.3	1.7	5.9*	1.6	1.4	- 1.9	22.0	.8	.9	.5	2.5	26.7	29.5	+ 2.8
16-C*	13.4	1.9	6.3*	.5	1.2	- 1.0	22.3	1.0	1.0	.9	2.5	27.7	28.3	+ 0.6
17-D	14.1	4.2	1.9	1.1	1.7	- 0.4	22.6	1.0	.8	.3	2.5	27.2	28.0	+ 0.8
18-C	12.9	4.0	1.6	2.5	2.6	- 1.0	22.6	1.0	1.0	1.1	2.5	28.2	28.9	+ 0.7
19-C*	13.4	3.3	4.2*	2.0	1.1	- 1.2	22.8	.8	1.0	.2	2.5	27.3	28.7	+ 1.4
20-A	15.0	4.1	1.0	2.9	0.4	- 0.3	23.1	.7	.7	2.7	2.5	29.7	28.0	- 1.7
21-B	13.9	4.1	1.7	2.0	2.3	- 0.8	23.2	1.2	1.0	----	2.5	27.9	29.2	+ 1.3
22-A	13.0	5.1	1.9	2.1	3.6	- 2.4	23.3	1.3	1.0	----	2.5	28.1	-----	-----
23-D	13.2	4.5	1.8	2.6	3.2	- 2.0	23.3	1.0	1.4	----	2.5	28.2	-----	-----
24-B	14.3	3.3	1.5	3.6	2.3	- 1.4	23.6	.9	.9	.3	2.5	28.2	28.7	+ 0.5
25-B	13.7	4.6	2.2	2.0	2.8	- 1.5	23.8	1.0	1.0	----	2.5	28.3	30.6	+ 2.3
26-C	15.0	4.4	2.0	2.4	1.5	- 0.9	24.4	1.3	1.2	.7	2.5	30.1	27.8	- 2.3
27-D	15.1	3.9	1.6	3.5	2.8	+ 0.1	27.0	.5	.9	----	2.5	30.9	27.5	- 3.4
28-A	16.2	---	---	2.3	5.0	+ 7.0	30.5	1.2	.8	.3	2.5	35.3	29.3	- 6.0
Ave.-Rec.														
'63-28	13.1	4.1	2.0	1.7	1.8	- 1.3	21.4	1.1	1.1	.3	2.5	26.4	28.4	+ 2.0
'62-28	13.1	4.3	2.5	2.2	2.2	- 2.4	21.9	1.1	1.1	.7	3.0	27.8	28.9	+ 1.1
'61-37	12.9	4.0	2.0	1.9	2.2	- 1.7	21.3	1.2	1.0	1.0	3.0	27.5	31.5	+ 4.0

* = 16-week old Started Pullets \$1.32 to \$1.35 - Average \$1.33 each.

**= Flock Size Average: A = 3,000 - 5,000; B = 5,000 - 10,000; C = 10,000 - 20,000; D = 20,000 - 120,000 Hens.

TABLE II - DOLLAR COSTS PER AVERAGE LAYER (365 Hen Days) ARRANGED IN ORDER OF NET CASH COST PER DOZEN EGGS

Rank & Size**	All Feed Incl. Replc.	Replc- ment Stock	Sup- plies, Taxes Serv.	Hired Labor	LESS INCOME NOT EGG		NET CASH COST PER HEN	DEPREC. CAPITAL HOME LABOR & MGMT.				TOTAL NET COST PER HEN
					Stock Inv. - Credit + Debit	Less Culls Sales		Deprec. 10% Bldgs. & Equip.	Inter- est 6%	Home Labor @ \$ 1.25 per hour	Manage- ment 2 1/2¢ per dz. prod.	
1-D	3.59	.41	.19	.33	- .53	- .05	\$ 3.94	.33	.22	----	.54	\$ 5.03
2-C	3.61	.31	.45	.51	- .48	- .22	4.18	.24	.31	----	.55	5.28
3-B	3.51	.33	.19	.05	- .02	- .22	3.84	.19	.20	.67	.50	5.40
4-D	3.52	.36	.35	.29	- .24	- .14	4.14	.21	.24	.05	.52	5.16
5-C*	2.84	.86*	.29	.35	- .38	- .08	3.88	.12	.24	.04	.48	4.76
6-D	3.38	.32	.21	.33	- .00	- .18	4.06	.25	.23	----	.50	5.04
7-B	3.54	.45	.53	.00	- .26	- .15	4.11	.19	.21	.59	.51	5.61
8-D	3.66	.31	.38	.30	- .16	- .20	4.29	.26	.19	.09	.53	5.36
9-A	3.56	.34	.44	.17	- .10	- .17	4.24	.14	.21	.48	.52	5.59
10-B	3.41	.50	.35	.20	- .44	- .20	3.82	.21	.25	.61	.46	5.35
11-C	3.50	.43	.38	.33	- .09	- .21	4.34	.19	.23	.21	.51	5.48
12-A	2.85	---	.28	.01	+1.06	- .19	4.01	.26	.12	.39	.47	5.25
13-B	3.55	.43	.35	.06	- .18	- .11	4.10	.10	.19	.53	.48	5.40
14-D	3.43	.32	.35	.34	+ .02	- .06	4.40	.28	.17	----	.51	5.36
15-C*	3.10	1.22*	.33	.30	- .22	- .18	4.55	.16	.19	.11	.52	5.53
16-C*	2.98	1.23*	.09	.24	+ .04	- .23	4.35	.20	.19	.18	.48	5.40
17-D	3.37	.36	.21	.32	+ .09	- .16	4.19	.18	.15	.06	.46	5.04
18-C	3.54	.34	.52	.55	- .01	- .20	4.74	.21	.20	.24	.53	5.92
19-C*	3.36	.86*	.40	.22	- .14	- .11	4.59	.16	.21	.04	.50	5.50
20-A	3.47	.19	.53	.07	+ .07	- .12	4.21	.13	.13	.48	.45	5.40
21-B	3.69	.35	.42	.48	- .00	- .17	4.77	.24	.22	----	.51	5.74
22-A	3.64	.38	.42	.72	- .21	- .27	4.68	.26	.20	----	.50	5.64
23-D	3.42	.34	.50	.63	- .19	- .19	4.51	.20	.27	----	.48	5.46
24-B	3.39	.29	.70	.44	- .07	- .20	4.55	.17	.18	.07	.48	5.45
25-B	3.63	.45	.40	.57	- .07	- .25	4.73	.20	.21	----	.50	5.64
26-C	3.86	.41	.48	.31	- .01	- .17	4.88	.26	.24	.14	.50	6.02
27-D	3.94	.34	.72	.59	+ .17	- .15	5.61	.11	.18	----	.52	6.42
28-A	2.80	---	.40	.87	+1.39	- .19	5.27	.21	.14	.05	.43	6.10
Ave.-Rec.												
'63-28	3.47	.41	.34	.36	- .12	- .15	4.31	.23	.23	.07	.50	5.34
'62-28	3.55	.50	.44	.45	- .31	- .17	4.46	.23	.23	.13	.61	5.66
'61-37	3.47	.41	.38	.46	- .14	- .21	4.37	.25	.21	.20	.62	5.65

* & ** See TABLE I - Footnote

TABLE III - FACTORS CONTRIBUTING TO COST OF PRODUCTION

Rank & Size	% Ave. Eggs Prod.	No. Eggs Prod. per Layer	% Large & Ext. Lg. Sold Whsle	% Prod. Sold Whsle	POUNDS FEED		EGG FEED RATIO		Cost Feed per \$ cwt.	Cost \$ per day-old Pullets (S.P.)	Cull \$ Income per each	All Labor Hours/Hen	Eggs Cleaned Sized* or both on Ranch
					Per Layer Only	All Feed incl. Replcmt.	Layers only	Feed incl. Replc. ment					
1-D	71	258	75	99	91	116	4.3	5.4	\$ 3.11	.34	.30	.27	Clean
2-C	72	264	--	--	91	123	4.2	5.6	2.94	.31	.28	.39	Both
3-B	65	239	71	97	85	111	4.3	5.6	3.16	.29	.25	.58	Neither
4-D	67	246	77	100	81	106	3.9	5.2	3.31	.34	.26	.31	Clean
5-C*	63	229	75	96	87	92	4.1	4.8	3.18	(1.32)	.33	.28	Clean
6-D	66	240	78	100	89	107	4.5	5.3	3.13	.32	.25	.27	Neither
7-B	67	243	74	97	91	115	4.5	5.7	3.09	.36	.25	.49	Neither
8-D	69	252	65	94	90	116	4.3	5.5	3.16	.30	.24	.32	Neither
9-A	68	248	63	97	94	117	4.6	5.7	3.05	.33	.24	.55	Neither
10-B	60	220	66	100	80	105	4.4	5.8	3.24	.40	.28	.65	Neither
11-C	67	245	78	96	91	115	4.5	5.6	3.04	.36	.25	.47	Both
12-A	62	225	80	96	84	92	4.5	4.9	3.09	None	.31	.32	Clean
13-B	63	229	73	64	90	116	4.7	6.1	3.07	.34	.29	.48	Both
14-D	67	243	72	99	87	110	4.3	5.4	3.11	.30	.17	.27	Neither
15-C*	68	248	70	93	91	102	4.4	5.0	3.03	(1.32)	.20	.37	Neither
16-C*	64	234	70	98	88	100	4.5	5.1	2.97	(1.34)	.28	.31	Neither
17-D	61	222	67	86	87	109	4.7	5.9	3.10	.33	.21	.26	Clean
18-C	69	252	69	97	90	115	4.3	5.5	3.09	.33	.25	.54	Clean
19-C*	66	242	77	98	90	110	4.5	5.5	3.05	(1.33)	.31	.24	Neither
20-A	60	218	72	87	89	110	4.9	6.1	3.14	.33	.18	.45	Neither
21-B	67	246	78	87	96	120	4.7	5.8	3.08	.35	.21	.38	Clean
22-A	66	241	--	97	83	112	4.1	5.6	3.25	.33	.30	.71	Both
23-D	64	232	73	97	86	111	4.4	5.7	3.08	.34	.27	.55	Both
24-B	63	231	79	98	92	112	4.8	5.8	3.01	.39	.26	.42	Neither
25-B	66	240	70	84	86	114	4.3	5.7	3.18	.39	.25	.38	Clean
26-C	65	239	62	98	97	122	4.9	6.1	3.17	.40	.23	.36	Neither
27-D	68	249	67	97	104	126	5.0	6.1	3.12	.30	.23	.25	Neither
28-A	57	208	67	88	92	92	5.3	5.3	3.04	None	.23	.67	Both
Ave.-Rec.													
'63-28	67	243	69	94	88	111	4.3	5.5	3.12	.33	.25	.35	-----
'62-28	67	245	72	95	90	115	4.4	5.6	3.08	.35	.23	.46	-----
'61-37	67	246	71	--	91	115	4.4	5.6	3.02	.36	.29	.53	-----

* Method of handling eggs at the end of the study year.

TABLE IV - LAYING FLOCK STATISTICS

Rank & Size	Doz. Eggs Produced per Hen	PER CENT OF AVE. LAYING FLOCK FOR YEAR				% Ave. Flock over 18 Mos. of Age**	% of Chick Loss to Lay	% of Replcmt. Started Pullets	Type Housing**
		Died	Culled	Added	+ Increase - Decrease Flock Size				
1-D	21.5	11	17	96	+ 68	9 /Age**	8	0	Cage
2-C	22.0	9	81	89	- 1	19	2	0	Cage
3-B	19.9	19	85	102	- 2	12	11	0	Cage
4-D	20.5	14	60	103	+ 31	11	6	0	Cage
5-C	19.1	12	32	109	+ 65	18	12	100	Cage
6-D	20.0	9	70	79	0	18	7	0	Cage
7-B	20.3	22	58	117	+ 37	9	7	0	Cage
8-D	21.0	13	83	97	+ 1	5	4	0	Cage
9-A	20.7	20	70	88	- 2	17	4	0	Wire
10-B	18.3	15	70	74	- 11	0	2	0	Wire
11-C	20.4	10	88	95	- 3	4	6	0	Cage
12-A	18.7	22	72	59	- 35	6	5	0	Cage
13-B	19.1	13	79	95	+ 3	7	34	0	Cage
14-D	20.3	19	50	112	+ 43	12	13	5	Cage
15-C	20.7	12	95	106	- 1	6	1	100	Cage
16-C	19.5	13	83	93	- 3	3	1	100	Cage
17-D	18.5	20	71	91	0	17	8	3	Wire
18-C	21.0	17	80	89	- 8	13	10	0	Cage
19-C	20.2	37	35	101	+ 29	14	6	66	Cage
20-A	18.2	17	65	82	0	5	10	0	Cage
21-B	20.5	17	84	101	0	14	3	0	Cage
22-A	20.1	13	91	106	+ 2	21	6	0	Cage
23-D	19.4	12	76	96	+ 8	20	4	0	Both
24-B	19.3	21	81	74	- 28	29	3	0	Cage
25-B	20.0	16	103	106	- 13	9	6	0	Cage
26-C	19.9	13	58	76	+ 5	12	8	0	Wire
27-D	20.8	17	66	106	+ 23	21	6	0	Both
28-A	17.3	20	83	0	- 103	56	--	--	Cage
Year-Ave. #Hens									
'63 - 21,342	20.2	14	63	94	+ 17	15	8	7	Both
'62 - 16,331	20.4	13	68	106	+ 25	14	8	10	Both
'61 - 13,364	20.5	13	75	105	+ 17	--	10	--	Both

* Based on Inventory - first, mid-year, and end of study year.

** Wire Floor pens 25 to 50 birds per pen about .6 sq.foot floor space per bird. Three birds to 12" wide cage; 4 birds to 16" wide cage, and 6 birds to 24" wide cage. RHA:s:m

600-2/64